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RADIO INDEX

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THE RADEX PRESS

14717 Detroit Ave.,

Cleveland, Ohio

FEBRUARY 1, 1938



RADIO INDEX



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Editor

ASSOCIATE EDITORS

B. FRANCIS DASHIELL, *Technical*

CARLETON LORD, *Broadcast*

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North American REALLOCATION Coming

THE Havana Conference which was concluded on December 13 adopted a drastic reallocation plan which will call for a shifting of the frequencies of a large number of the United States Broadcasting Stations. None of the United States stations will have to be deleted, however, and the frequency changes, in most cases, will be from only 10 to 30 kilocycles from the present frequencies.

Most important to DXers are the facts that the broadcast band will be widened to 1600 kcs, and that the so-called "border" stations will have to leave the air or materially reduce their power.

There are seven nations in the agreement, United States, Canada, Newfoundland, Mexico, Cuba, Haiti and the Dominican Republic. The treaty will become effective one year after ratification by the four major countries.

The Channels

The 106 channels in the broadcast band are divided into three classes—clear, regional and local.

A clear channel is, briefly, one on which the dominant station is able to provide service over a wide area, clear of objectionable interference within its primary service area and most of its secondary area.

A regional channel is one on which several stations may work, with power not in excess of 5000 watts.

A local channel is one on which several stations may operate with power not exceeding 250 watts.

The 59 Clear channels are designated as follows: 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740,

750, 760, 770, 780, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 940, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570 and 1580.

The 41 Regional channels will be as follows: 550, 560, 570, 580, 590, 600, 610, 620, 630, 790, 910, 920, 930, 950, 960, 970, 980, 1150, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1350, 1360, 1370, 1380, 1390, 1410, 1420, 1430, 1440, 1460, 1470, 1480, 1590, and 1600.

The 6 Local channels will be: 1230, 1240, 1340, 1400, 1450, and 1490 kcs.

(The definitions given above, and throughout this article, are not exact, but are sufficiently accurate for DXers' purposes.)

The treaty provides for 59 clear channels, 41 regional channels and six local channels. These frequencies are apportioned among the seven nations as follows:

United States	63
Canada	14
Cuba	9
Dominican Republic	1
Haiti	1
Mexico	15
Newfoundland	2

Stations Classified

All the broadcasting stations are divided into several classes and subclasses. Stations of Class I-A, Class I-B and Class II will be permitted to work on clear channels.

Class I-A stations will operate with a power of 50 kilowatts or more; their primary service area will be within the limits of the countries in which they are located; and they will be free from objec-



Vyola Von, known to the dialers as "Mademoiselle Fifi," is lending her comedy and singing talents to Eddie Cantor's program on Wednesdays. Despite her very French name, Vyola is not French but a product of Southern California. She is 19 years of age, and the proud possessor of a two-year contract with Cantor.

tionable interference from other stations on the same or adjacent channels.

Class I-B stations will employ power of not less than 10 kilowatts or more than 50 kilowatts, and their primary service areas will be free from objectionable interference from stations on the same or adjacent channels.

A Class II station is a "secondary" station which uses a clear channel. Stations in this class will use not less than 250 watts or more than 50 kilowatts, and whenever necessary a directional aerial or some other means must be provided to prevent interference with other stations.

Regional stations are grouped, roughly, in Class III and its subclasses, and local stations are considered as being in Class IV.

Assignments to Nations

Twenty-four United States stations of Classes I and II are shown in the tables which follow. The remaining 39 Class I and II stations of this country will work on the clear channels of 640, 650, 660, 670, 680, 700, 710, 720, 750, 760, 770, 780, 820, 830, 840, 850, 870, 880, 890, 1020, 1030, 1040, 1100, 1120, 1160, 1180, 1200, 1210, 1500, 1510, 1520 and 1530 kilocycles.

TABLE A

Class I-A Stations in Canada, Cuba and Mexico

690	Quebec, Canada	1010	Alberta, Canada
730	D. F., Mexico	1050	Nuevo Leon, Mexico
740	Ontario, Canada		
800	Sonora, Mexico	1220	Yucatan, Mexico
860	Ontario, Canada	1540	Santa Clara, Cuba
900	D. F., Mexico		
990	Manitoba, Canada	1570	Nuevo Leon, Mexico
		1580	Quebec, Canada

TABLE B

Class I-B Stations

810	New York State	1090	Arkansas
810	California	1110	North Carolina
940	Quebec (5 kw minimum)	1110	Nebraska
940	D. F., Mexico	1130	British Columbia (5 kw minimum)
1000	Jalisco (20 kw max.)	1130	New York-New Jersey
1000	Washington	1140	Chihuahua
1000	Illinois	1140	Virginia
1010	Havana	1170	Oregon
1060	Mexico City	1170	Oklahoma
1060	Pennsylvania	1170	West Virginia
1070	Maritime Provinces	1190	Sinaloa
1070	California	1190	Indiana
1080	Connecticut	1550	Ontario
1080	Texas	1550	Vera Cruz, Mex. (20 kw max.)
1090	Baja California	1560	Havana
1090	Maryland		

TABLE C

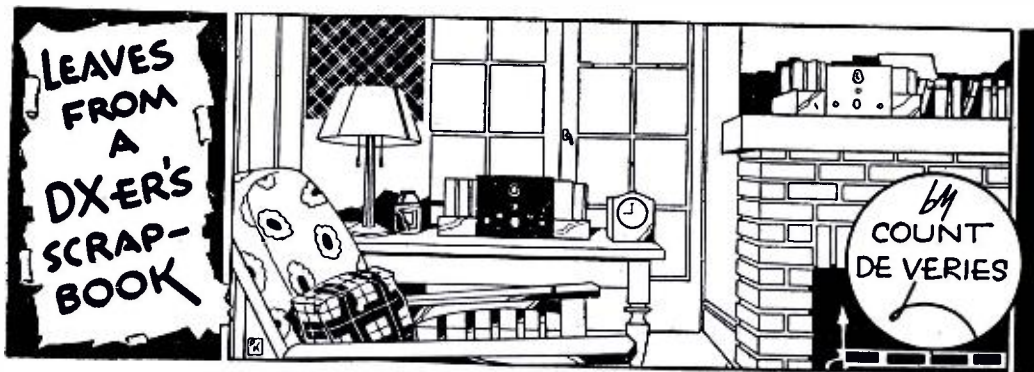
Class II Stations

640	Newfoundland	1060	Alberta (10 kw max.)
690	Kansas or Oklahoma	1070	Alabama
740	California	1080	Manitoba (15 kw max.)
800	Ontario (5 kw max.)	1080	Haiti (10 kw max.)
810	Tampico (50 kw max.)	1110	Mexico City (20 kw max.)
900	Quebec (5 kw max.)	1130	Louisiana
990	Tennessee	1170	Dominican Republic (10 kw max.)
1000	Oriente (Cuba) (10 kw max.)	1190	Havana (15 kw max.)
1050	New York		

TABLE D

Class II Stations on Regional Channels

560	Newfoundland (10 kw max.)	630	Havana (15 kw max.)
570	Sta. Clara, Cuba (15 kw max.)	1270	Havana (10 kw max.)
590	Havana (25 kw max.)		



A PPEARING in the January issue of *Popular Photography* was a short item titled "I Am Photography." It was a particularly significant thought, this creed of the camera addict, and I couldn't help but feel that some of it might also apply to those who follow the radio waves to the far corners of the globe.

"I turn back the pages of the Book of Memory," it went. "I bring you thoughts of past years and old-time friends. I keep forever green the happy hours of childhood. I dull the pangs of bereavement and blunt the edge of the grim reaper's scythe. I carry the news of the world, and bring you visions of far distant lands. Our modern civilization is largely dependent upon my efforts. Though men may pass and empires crumble to dust, my magic will preserve their likeness for future generations. Not purse proud, I am within the reach of all. I solve mysteries impenetrable to mortal eyes; I ferret out the criminal when other means have failed. I illumine the pages of history, and make learning possible for the multitude. Born instantaneously in a ray of light, I become everlasting. As necessary in war as in peace, I am man's servant, and yet his master. I am an art—and yet a business. I am photography."

How many of these virtues might

also be applied to the magic of radio! How well does radio span the globe in an infinitesimal unit of time, to bring us news of the world, to provide entertainment and education, to apprehend the fugitive criminal, to bring aid and comfort to those in distress and in danger!

The pity of it all is that radio has become accepted as commonplace. The daily visits to our homes by the great artists are taken for granted. When the turn of a dial speeds us to a distant land, and we are privileged to participate in exciting events as they take place, do we think of the wondrous medium which makes all this possible?

The chances are that we fret and frown when a bit of static mars some portion of the broadcast or a slight fade makes it difficult to catch a few words.

If challenged, younger listeners agree that they don't know what they'd do without radio, and older folks wonder how they got along before it came, but what dialer ever takes time to give thanks for the miracle which has become an everyday affair?

A Fairy Story

Once upon a time a group of men decided to build a radio station. They obtained from the proper authorities the necessary permission, and set about their work. News of this impending event spread near

and far, and in due time the new station was listed in various call books and radio magazines.

But construction of the station required considerable time, as do all good works well done, and for months after the first news had gone forth, the engineers were still assembling parts for what one day would be a very fine transmitter.

One morning a listener was tuning up and down the broadcast band when he happened to hear a very weak signal. He waited faithfully for an announcement of identification, meanwhile jotting down notes on the program. But try as he would, he was unable to hear a thing to tell him the identity of the station to which he was listening.

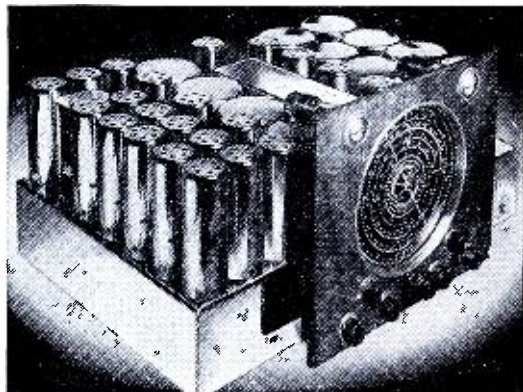
Turning to his favorite radio magazine, he checked the frequency of the unknown station and tried hard to determine which of the listed broadcasters he was hearing. By a secret and mysterious process of deduction, he finally decided that he was tuned to the station which, even then, the engineers were building in far-off South Australeurope.

Fairly bursting with joy at this exceptional catch, he sat down at his typewriter and sped off a report of reception. Eager to impress his fellow-listeners with his amazing proficiency at the dials, he spread the news among his friends, to his radio clubs and even to the magazine which had listed the station. And in due time, the whole radio world heard that little Johnny Stationgetter had added yet another entry in his most amazing log.

But great was his shame and confusion, when, one day, he received a letter from far-off South Australeurope which said that this station had not yet come on the air. And red did his ears burn when his fellow-listeners heard the tale, for

(Please turn to Page 40)

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When TROUBLE Comes

• • • By B. FRANCIS DASHIELL

Job For An Expert

I RECENTLY purchased an 18-tube receiver that performed excellently and it became my pride to demonstrate it. Then, suddenly it got out of alignment about 10 points on the standard broadcast band, and more so on the short waves. The volume now is weak. The tuning device, or "eye," which used to become a deep red when a station was tuned in, does not function at all. I live very far from the factory, and shipping the set back will be expensive. What would you do, and what is wrong with the set?

The fault probably lies in some relatively simple defect or failure, and shipping the entire chassis to the factory from your home would involve more than the cost of having a good repairman do the work. We feel that a tube failure might be the cause, and a careful examination of all tubes and replacement of the defective one should, therefore, be the first step to be considered. If this does not remedy the trouble, then the serviceman must look elsewhere for the fault. The concern making this set has a rather wide system of servicing, and if your local man does not have the data for all voltages and resistances as well as test oscillator settings, he can procure them upon application to the service department of the manufacturer. These receivers are well made and offer considerable satisfaction for the outlay involved, and RADEX is certain that satisfactory adjustments can be made so the set will perform many years in the original manner.

But, in any set, when a tube in some vital circuit weakens or fails, as they do suddenly in all cases with



Kathryn Cravens, once a moving picture actress, but now one of the most popular newsgatherers on the air. Her broadcast of "News Through a Woman's Eyes" is heard over the CBS on Mondays, Wednesdays and Fridays at 2 and at 5:30 pm, EST.

all sets, the whole receiver seems ready to toss into the discard. First, we suggest that the tuning "eye" or tube that does this work, be tested. This is the 6C5G tube, and is for the color-ray tuning eye circuit. All the other tubes, especially in the tuning circuits should be tested.

Next, if the tubes do not show failure, the working voltages must be checked, to see whether they have the proper plate potentials and grid bias. This check also will determine whether any of the condensers and resistors have shorted or opened. If these tests do not remedy the trouble in correct tuning then it will be necessary to re-

align the set, and this operation calls for a competent serviceman or the return of the receiver to the factory for this work.

We do not feel that this set is in anyway a cause for you to feel worried. The manufacturer will do all he can to help, and he will make the repairs, but you must bear the cost of transportation to and from the factory. Local servicing is at your expense if the guarantee period has expired. This is the standard radio manufacturers' practice everywhere. The job of aligning this or most any set is relatively simple and does not involve excessive expense if locally done.

Local Interference

I have an R. C. A. 18 7-tube receiver. A local station operates on 1370 kilocycles, and two stations about 50 miles distant operate on 1290 and 1440 kilocycles. When the local station is silent I can hear the two stations in the next city, but when the local is on the air the distant stations cannot be heard. I would like to be able to hear them, and hope you can tell me what should be done. The tubes are all new, but I have had the set examined two or three times and the trouble still exists.

The trouble is that of broad tuning. But if you live very close to the local station, although its power is only 100 watts, it may be impossible to hear the two distant stations even with their 1000 watts of power. However, any good receiver, if properly aligned, should be able to cut through local interference when the distant stations are as much as 80 kilocycles or more on either side of the dial setting for the local.

We suggest that this set, since it has 7 tubes, is definitely in need of proper alignment. In this set the variable tuning condensers sometimes become defective, and a careful adjustment may be help-

ful. Find a good serviceman and have him align the set and test it himself. If you are using too large an antenna you will get a broad signal. Try a short wire, about 30 feet.

Noise Eliminator

I have a 1937 Philco 630T receiver, and would like to know if there is a satisfactory noise eliminator that can be used with this receiver. I also have a doublet, 30 feet to each half, running NE by SW, 12 feet above the ground with 50 feet of leadin wire. What do you think of it as a good type of aerial?

You do not mention what kind of noise you wish to eliminate. If it is man-made static that comes over the power wires into the set from electrical appliances, it is quite simple to remedy the trouble. A good power-line filter, such as the Tobe or equal, plugged into the wall outlet between the A. C. supply and the radio set, should practically eliminate all the power-line noises. However, if a ground is used with the set, do not attach it to the same pipe or ground to which the noise eliminator is grounded.

If the noise comes through the antenna system, then you need a good noise-reducing aerial. This is not, of course, always a doublet system, as you will find by reading up on noiseless antennas. The new R. C. A. antenna, or one with shielded leadins such as a Lynch, tend to reduce much of the noise that is carried to the set by means of the leadin wires. However, a good doublet is always satisfactory. The doublet that you are using is not high enough above the ground. Its length is correct, but the leadin may be too short. We wonder whether you purchased it as a ready-made kit or arranged it yourself without regard to matching the leadin to the antenna. If it is a kit antenna, then it is likely that the leadin was matched to the antenna and receiver

by means of transformers.

Crystal Set

In the October, 1935, issue of RADEX, is an article describing an all-wave crystal receiver. I have built it according to instructions but find it difficult to eliminate a 15 K. W. local station, and because of this I do not know whether it is possible to obtain outside reception. If there is any way of improving this little receiver, please tell me. I mean by this, to eliminate the local from all points on the dial. I was unable to obtain the November and December, 1935, issues of RADEX which continued the article about this set.

The article in the October, 1935, issue of RADEX described simply how an elementary radio set could be built. It covered the broadcast band as well as a longer wave band above 600 meters, and extended well down into the realm of the short waves—about 20 meters. However, its range was just that of a crystal set—several hundred miles for powerful transmitters. In a set of this type tuning is naturally broad, and a powerful local station will come in at most points on the tuning adjustment. The more selective the tuning circuit is, the sharper the tuning, and this was shown in Fig. 4 of the October article, where a two circuit tuner was shown.

The article in question was continued next in the January, 1936, issue of RADEX, in "Improving the All-Wave Crystal Set." This article showed how improvements could be placed in the set so as to make it more selective and sensitive. It explained experiments in building tuning devices that eventually were to be used in more complicated tube sets of greater range. The final, and concluding chapter in the series appeared in the March, 1936, issue of RADEX, under "Using Tubes in Our Crystal Set." This explained

how to convert the crystal set into a tube set which was very sensitive on all the wave bands. The issues of RADEX, mentioned above, all are available at the regular price of twenty-five cents each at the office of publication in Cleveland.

At its best, a crystal set is more or less of a demonstration of how radio works. Because of its very nature it is difficult to make it selective so that powerful locals can be cut out—in fact it is impossible to remove a nearby local entirely. However, if the locals are off the air, it is possible with a carefully constructed crystal set to listen to strong stations in nearby cities. You cannot expect too much with a set of this kind—and the one described will do all a crystal can do without the improvements described in the two chapters that followed.

Very Short Waves

I want to know whether I can build my radio so it will tune down to about 7 meters or less. I do not want to change it very much, as it is a Grunow, 1935, model 671, but I do not care to buy a new one just yet for these short waves. It now goes down to 16 meters, and if I can get it down to 10 or 5 meters, I think it will be a fine set.

We do not recommend any changes in this set to make it tune down to 5 meters. In fact, it will be almost impossible to so alter the set and obtain any degree of satisfaction. So many factors enter into the reception of the very short waves that the circuits and parts would have to be rebuilt so completely that the cost would be more than that of a newer set. An experienced serviceman would have to do the work, and not many would attempt the job.

While the very short waves are interesting, it is doubtful whether there is sufficient activity to make 10 and 5 meter reception a practical thing in your case. The 10-meter

amateur band, which is about all you will be able to hear, is confined to amateur work over great distances, but there are many times when this band is closed down because of severe natural interferences. The 5-meter band is almost a visual radio, and reception is limited to stations that are within range of the eye, or the limits of vision. Such stations, in your case, must be very few or absent entirely.

Pre-Selector

I have a Zenith 52 that has been used a long time. As I know now just what it will do there is little left for me to do in the way of DX tuning. It occurs to me that perhaps the use of a good pre-selector will pep this set up so that I will get new stations that I have not already logged. I have examined all the radio catalogues and visited my local radio stores but I do not see any pre-selectors advertised. Can you tell me whether a pre-selector will boost this set or will it create too much noise so that DXing will be impracticable? Also, where can I find the Miller pre-selector or some other kind?

A pre-selector or pre-amplifier should be of considerable benefit to this receiver, which is a tuned-radio-frequency set. The addition of a pre-amplifier provides for an additional stage of radio-frequency amplification. However, most pre-amplifiers now made are for super-heterodyne receivers of the all-wave model, and might not work so well with your receiver. You should correspond with some of the larger mail-order radio supply houses, all of which handle pre-selectors of the all-wave model, to discover whether they have the kind you need on hand and what the cost is.

The Miller pre-selector which you refer to, is also an all-wave selector, and while part of it will cover the broadcast band, the short-wave section of it will be useless. The address

of the Miller Company, according to our records, is 5917 So. Main Street, Los Angeles, Calif.

Then, if you care, you might try making a pre-selector for this receiver. All you need is a good radio-frequency amplifier transformer and shield which, together with a .00035 microfarad variable condenser, will tune to the broadcast band, and a type 27 tube. Connect the primary of the coil to the antenna and ground, and the secondary, which is shunted with the tuning condenser, is attached to the tube grid and to the negative A terminal of the tube filament. Attach the plate of the tube to a 90-volt B battery, but with a small r-f choke between the battery and the plate. Then run a short, shielded lead from the plate also, to a small .0001 bypass condenser, and thence to a terminal that can be connected to the antenna connection of your receiver. The set is grounded in the usual manner. While this is a rather crude type of pre-amplifier it is one that can be experimented with and should give at least considerable improvement. It is best operated separately from dry-cell A and B batteries.

Mine Interference

I have a new 13-tube Bosch receiver, and while it is a very good outfit, I believe it can be improved upon for the reason that I live in the heart of the iron-ore region of Minnesota. The magnetically inclined soil gives off some terrific QRM which is hard to overcome. Therefore, I have not been able to utilize the full sensitivity of the set, and as a result the broadcast band is no better than on an ordinary, smaller receiver. It works quite well on the short waves. I have been thinking of adding a peak-pre-selector, and do you advise my doing this?

While the ground beneath you for miles about is full of iron ore,

we do not see just how it can cause such severe interference. Iron ore does show magnetic qualities and affects compasses and telegraph and telephone lines to a slight extent, but it seldom affects radio transmission. Then, the trouble would likely be that of fading and interference with the ground wave. Noise, as a rule, should not be caused by such conditions unless you live near mines, railroads, power lines or smelters, particularly those of the electric furnace types.

If you are free of sources of man-made static, we believe that the excessive noise you hear is that caused by the ultra sensitivity of the receiver. Certainly a modern set of 13 tubes has a great amplifying power, and noises are therefore greater. You have purchased a very good receiver and it ought to be free of excessive noises, but it is possible that a tube or some unit has become noisy. This frequently occurs in the wave-band switch on many sets. The switch should be examined for loose contact, and a little cleaning often helps. The volume control, too, can cause noise. And there are other things, but which we do not believe are probable in a new set, such as filters and voltage dividers in the power unit. Man-made static, however, if it comes in over the electric line, can be eliminated to some extent, if not entirely, by means of a good power-line noise filter, connected between the set and the 110-volt a. c. outlet in the house. Other noises that come from traffic and outside sources by way of the aerial can be reduced considerably by utilizing a noise-reducing or doublet antenna, as high above the ground as possible. The use of a doublet antenna precludes the necessity for a ground, and this, too, might prove of some benefit to you.

A pre-selector to this set will only add to your troubles, for this form

of amplification adds the equal of one or two stages of radio-frequency amplification to the set. The great increase in sensitivity raises the noise level too high and the background in your case would prove intolerable. These pre-amplifiers have their place, and a good one, with smaller sets that do not have the requisite amount of r-f amplification to provide high sensitivity on distant, weak signals.

Zepp Antenna

Please tell me if the Lynch variocoupler is suitable for use between a 78-foot Zepp antenna and my radio receiver? Also, can the same coupler be attached to two doublet antennas arranged in the form of an X so as to have greater directive qualities from all points of the compass.

The coupler mentioned can be used with any type of antenna having a twisted or transposed leadin system of two wires. The coupler permits of the tuning of the impedance of the leadin wires to the impedance of the antenna coils in the receiver, and therefore provides for the maximum transfer of energy from the antenna to the receiver at all wave lengths. Since both of your antenna systems utilize the twisted pair leadin wires the coupler will be of practicable use. However, if you will write the L. S. Brach Mfg. Co., Newark, N. J., they can advise you definitely since they are familiar with the impedance of their product.

The X type of system utilizing two doublet antennas each 26 feet long for the half-section seems very good as it should eliminate the slight directional effects noticed in most single doublet antennas, that is, if all four wires of the two doublets are *horizontal*. If the four wires are erected in a *vertical* plane the directional effect is maintained.

Reducing Voltage

I have a Grunow model 501, and

lately it has become defective. We have 250 volts here with 600 amperes in the power line. In order to operate this set I was told that if I hooked up two 115-volt 75-watt bulbs in series with the 110-volt wires leading to the set it would reduce the current to the safe amount. Now, was the radio getting sufficient current or too much? For 8 months the radio ran this way with excellent tone and power, but now after it runs a few minutes it loses power, the dial light flickers, and it plays no more. But, if I turn it off a while and then on, it begins to play nicely for a short time. What can be wrong and have I damaged the set on this high-voltage line?

Your receiver draws from 110 to 115 volts, and the light bulb placed in series draws a maximum of about 115 volts, and as high as 118 safely. Adding these two together you will find that the two require about 235 volts (maximum) to force the necessary amperage (current) through the light and radio so that both operate. A higher voltage overloads both the bulb and radio proportionately, by about 8 to 10 volts. This is a rather steep overload and can shorten the life of the set. We are a bit doubtful about your power lines bringing 250 volts, since the usual in this case is 220-230 volts. We advise you to check this with the concern providing power and, if the line is carrying 250 volts, arrange to place a small additional resistance in line with the light bulb and set. Your local dealer can provide this resistance, and it can be in the form of a small low-voltage (18) lamp having enough amperage. The 75 watt lights are too powerful, and we suggest two bulbs whose total wattage is equal to that required by the set—if the set uses 75 watts place a 50 and a 30 bulb in parallel (one in each wire) if you wish to use the two bulbs. However, one bulb of 110 volts and 75 watts

is sufficient if placed in series with the set.

While it may be possible that the slight excess of potential that the set is getting due to the above condition provided the line does show 250 volts, it seems to us that damage would have become apparent long before this. The intermittent reception of which you complain is something that comes to any set should certain things go wrong. This is especially true when some resistor or bypass condenser partially shorts or opens when sufficiently heated after the set has been operating a few minutes. This change in resistance and capacity will throw the set out of balance and cause a change in tube potential or bias so that it ceases to function. Merely testing and replacing old or defective tubes often remedies the trouble. But if it is in some small unit only a careful check by a good serviceman can locate and replace the shorted part.

Aligning T. R. F. Set

I have an old Silvertone Model H receiver, and I would like to know how to align this set. Also, it has a lot of hum that I would like to get rid of. The tubes are all new and test perfectly.

The usual types of t.r.f. sets, such as yours, are fairly easy to align. Turn the set on so it will warm up thoroughly. These sets contain trimmer condensers attached to the variable tuning condensers. Without an oscillator the best way to accomplish this is to tune in a distant station weakly on the midway point of the dial—number 50. Adjust the trimmers with a small wooden wrench or screw driver (which you can easily make) until the station is heard loudest when the volume is way down. Then move the dial to the low end, pick up a station and reset the trimmers; also, do this again for a station at the high end
(Please turn to page 47)

This VERIFICATION Question

• • • By COUNT DE VERIES

WITH each succeeding issue, the debate on verifications grows more heated. Supporters of both sides of the question come forward to voice their opinions, and it looks as though this is going to develop into quite an argument.

But before continuing the discussion pro and con, it would be well to assemble a few definite facts for consideration. It now seems pretty certain that concrete evidence on a number of points has been missing from previous comment, so let's see just what is what.

In another section of this issue, there are statements from four persons who are vitally concerned with the current controversy. Arthur E. Foerster had the "doubtful honor," as he puts it, of being the first to issue monitored veries, so his reactions to the recent developments must carry considerable weight. Both Carroll H. Weyrich and Stanley B. LaRue have received plenty of publicity for their Daventry and ZBW cards, while E. J. Shields, Editor of the Quixote Radio Club, has absorbed quite a bit of punishment as the result of the QRC dime veries.

Reading over these statements, it is evident that a number of critics have been popping off when they knew little or nothing of the actual facts. There is no question but what a great many misleading statements have been going the rounds.

Most maligned of those concerned are E. J. Shields and his QRC. They were first accused of monitoring the Central and South American stations and "selling" veries to any who cared to buy them. Later it was charged that for a dime and a three-cent stamp, they would supply

anything a listener wanted in the way of a Central or South American verie. It was further stated by one critic that a brief report might accompany the request for a verie, although "it was not stressed too much, but the dimes and 13 cents are imperative."

The statement by Mr. Shields, as well as letters from countless QRC friends, would indicate that these accusations were entirely without foundation. It is shown that the QRC does not operate a monitoring service. On the contrary, it collects reports from listeners and forwards them, together with ten cents for each verification request, direct to the station concerned. The additional three cents from the DXer is used to defray the cost of the international postal money order by which remittances to the stations are made, and to pay for the air mail postage. The question of verifying is left entirely to the broadcaster, who sends his card direct to the DXer, although the QRC does



This candid camera shot of Stuart Erwin reveals the screen star as a latent dynamo of activity in the process of preparing for his part on the Jack Oakie College program.

guarantee that all *correct* reports for its group of twenty-odd stations will be verified.

Since the QRC veries come direct from the stations, let's pass on for the moment to the monitored veries for Daventry and ZBW. These cards came from persons having no connections with the broadcasters involved, and the statements of Messrs. Weyrich and LaRue indicate clearly the positions which they have taken.

Even the severest critic of the former has admitted that the Weyrich Daventry cards were distributed conscientiously and in accordance with the merits of the reports received, and there is no reason to believe that the LaRue ZBW veries also were not earned by those who received them.

As is pointed out by Mr. LaRue, anyone who witnesses an act is competent to certify thereto. In the same vein, anyone who hears and logs a program from a radio station, is in a position to determine whether a report from another listener agrees with what the monitor has heard. If a report checks the monitor's log, who shall say that he is not fully qualified to verify that report as correct to the best of his knowledge?

This naturally leads to the question of whether a monitored verie shall be accepted by a DXer as proof of his reception of a given station. On this point, listeners appear to be divided in their opinions. More than 400 DXers thought enough of the Weyrich Daventry cards to pay five cents each for them, while an undetermined number have paid 10 cents for the LaRue ZBW cards. Would that indicate that those who paid out good money for these cards thought them worthless? And if a listener thinks a monitored verie of sufficient value that he is willing to pay for it, who shall deny his

right to patronize a monitoring service?

On the other hand, there is the group which wouldn't touch a monitored verie with a ten-foot pole. The IDA has gone on record as stating that veries not coming direct from a station will not be considered in IDA contests. In the CDXR foreign BCB contest, verifications must come direct from the stations. The short wave editor of the GCDXC advises of a like rule for contests sponsored by his department.

Between these two extremes is a group which feels that the problem is largely one for the individual listener to settle for himself. If he derives some pleasure from the receipt of a monitored verie, then he has every right to collect all that he may desire. If he decides that they are of no particular value, he simply ignores them and concentrates his efforts on the stations which will verify.

Typical expression of opinion is that of Ray E. Everly, 102 West Washington St., Newton, Ill., who writes: "My version of the verification problem may be typical of other listeners. If a DXer sends the station a comprehensive report and encloses return postage, surely the report is worth a line of verification. In many instances I have received nice veries from stations which normally do not verify, while I have also been ignored by broadcasters listed as willing to verify. Apparently it depends largely upon the temperament of the personnel, whether or not we get a verie. If Carroll Weyrich and Barney Ahman want to monitor stations and issue veries, that is their personal affair. But who would care for a verie which didn't come from the station itself? The DX fraternity knows that the B.B.C. doesn't verify, so why worry about it? I say just keep DXing for the other stations which

appreciate good reports and will send you a nice card for your efforts."

Many readers are of the belief that, while a monitored verie may be perfectly legitimate, they would not care to have one in their collection. If a station definitely will not verify of its own accord, then all listeners are pretty much in the same boat. If a listener by virtue of a superior report is able to wheedle a verie from a normally-reluctant manager or engineer, then that is a feather in that DXer's cap. But the important point for these readers is to get their veries direct from the station.

And so it looks as though the whole question may well be one for the individual listener to solve. It is noted from the statement by Mr. Weyrich that his monitoring service definitely has been discontinued. In view of current opinion, the originator of the monitoring idea, Arthur E. Foerster, feels that the practice should be outlawed. Stanley LaRue has ceased monitoring ZBW as a result of an announcement from the station that they now verify reports.

What the future may bring in regard to monitored veries cannot be foretold now, but this may well be the end of the problem.

Lowell Thomas, NBC News Commentator, now has a singing stenographer—except she doesn't sing at her work—she sings in the chorus of the Metropolitan Opera. Pretty Rita Sheridan, found time between assorting and answering the news commentator's fan mail to take voice lessons. Now, in the chorus of the Metropolitan Opera, she's started on a road that some day may lead to personal fan mail.

CLOSING

FOR the past two or three months the pages of most of the DX bulletins and magazines in this country have been full of discussions about verifications, but now, for the first time, are presented statements written by the persons who were the cause of the debates.

With these statements from the monitors, we close the artificial verification argument. Mr. La Rue's original article has been slightly altered by the editor, in view of a recent letter from him which states that he has ceased verifying ZBW.

WHY WE VERIFIED DAVENTRY

By Carroll H. Weyrich

THE idea of monitoring the short wave stations of the British Broadcasting Corp. was conceived in November 1936. It was my intention to listen in at stated periods and keep an accurate log of what I heard. Reports from interested DXers would be checked against this log, and those found to be correct would merit a card of verification.

The matter was discussed in detail with my colleague, Bernard Ahman, and he agreed that it would be a fine thing if listeners could fill the gaps in their logs, which had been created by the refusal of the B. B. C. to confirm reception of Daventry. We felt that this would stimulate interest in the great game of DXing, and encourage newcomers to send for the veries which could be obtained direct from a station.

Accordingly, the first attempt was made in January 1937. We printed QSL cards with the calls in large red letters. A charge of five cents per card was made to cover

a Discussion

the cost of printing and postage. Notice of the service was sent to the various radio clubs and magazines.

As the early response from DXers was most favorable, we then worked out a schedule of dates and times when the Daventry transmissions would be monitored for the balance of the year. That the service was well received is indicated by the fact that well over 400 cards were issued during the time the plan was in operation.

Unfortunately, one of the radio magazines made a slip-up by reprinting one of our cards with caption "Daventry Now Verified." This was completely confusing to many, as in other publications it was specifically stated that the cards were not being issued officially by the B. B. C., but that they were coming from me and were mailed in Baltimore with a U. S. stamp affixed.

As the outcome of this magazine's mistake, I received a lengthy letter from the New York offices of the B. B. C. They informed me that they had a copy of one of my cards for Daventry and they voiced the strongest possible objection to the practice. They insisted that I stop issuing the cards and that I send them the balance of the cards in my possession, so that they could be destroyed. As a consequence, I wrote them a letter of apology and explained the service which I was performing. I heard no more from them, and so continued to issue the cards for the correct reports received.

Not long after this, I received a resolution adopted by a chapter of a DX club, which charged me with violating the rules of DX. I was assured that continuance of the practice would result in stations discontinuing their policy of verifying

reception.

In spite of this and other criticisms aimed in our direction, I have felt that listeners approved the service. Of those who have voiced an opinion, a vast majority was in favor of the plan, while only a very small minority was against it. And I'm not forgetting that more than 400 DXers thought enough of my cards to pay five cents apiece for them.

However, it seems that the practice has stirred up quite a bit of comment and, rather than antagonize listeners against Barney Ahman and myself, we decided to discontinue the service. With this thought in mind and for the best interests at large, the monitoring of Daventry transmissions has been discontinued.

Those who have our cards in their possession, can always look back and remember the story attached to their distribution.

In my opinion, if there were ways of securing verifications from a station, all would be well and good. But when a broadcaster has no particular desire to co-operate with listeners in this respect, then it is time for the DXers to do something about it.

LET'S STOP MONITORING

By Arthur E. Foerster

FOR the past few months, I have read with interest the items concerning verifications which are being furnished by various DXers. Inasmuch as I have the doubtful honor of having started this idea with my veries of WJRD and WMFO in 1936, the comments have been of special interest to me.

After reading the stands taken by DXers and the DX Clubs concerning this monitoring business, I, too, believe that the practice should be stopped. It is very obvious that there will be too many abuses of this privilege, so the only way to end the abuses is to stop the idea entirely.

It is, however, unfortunate that we are forced to penalize the many, just because a few refuse to play the game.

When I began to monitor and verify reception of WJRD and WMFO, I first secured the permission of the station manager to issue verifications in the name of his stations. I can honestly say that anyone who received from me a confirmation of WJRD or WMFO, actually earned that verification. In fact, there are probably some listeners who will read this, who can attest the fact that I refused them a verification because their reports were too meager.

Likewise, there is no doubt in my mind that the veries issued by Weyrich and Ahman also were earned. This is probably true of others who have issued verifications, but the



It has been nearly two decades since an El Paso, Texas, schoolboy named Harold Wayne King, used to annoy neighbors by clarioning on a clarinet given him by his father. Today, he is one of the leading saxophone stylists, and the leader of the perennially popular orchestra heard over the Red Network Tuesdays and Wednesdays.

many obvious disadvantages of this system which now become apparent, lead me to believe that all DX clubs should now take a definite stand against veries of this type. I dislike to see such conditions arise which will make this stand necessary, and I know that this will penalize those who have received verifications from me, but there is little else to be done.

Fortunately, in the cases of WMFO and WJRD, there has been a change in policy which now permits DXers to receive bonafide verifications from the stations themselves. In many other instances, the DXer has no chance to obtain a real verie. But after all, if the DXer feels that his card is a real verie, then there is little that individuals and clubs can do to change this attitude. And the DXer's word in such things is final!

WHY WE MONITOR ZBW

By Stanley B. LaRue

THE subject of monitored verifications seems to be putting up quite a perplexing problem. A lot of listeners seem to be in favor of the idea, while a few are against it. So far, the latter group has made the most noise.

In our case, Station ZBW had stated that they would not verify any more reports until they were ready to experiment again. In some circles this station is considered a rare catch, and many listeners would surely like to have some proof of reception.

Anyone who witnesses an act is competent to certify thereto. Thus there can be no question but that a listener, so located that his reception is reliable, is competent to certify that the report of another checks with his reception. Hence our veries for ZBW.

When the cry against monitored veries first arose, I wasn't even concerned about the issue. At least, I

wasn't until the CDXR came out and stated that there was a group that would verify every request, at a price, on ZBW.

That is definitely not true. This club is for the purpose of serving the listeners, but we will continually uphold the high standard of the radio world. We will not verify false reports, nor will we charge any great price.

The fact of the matter is that, at first, the monitoring was only a service for our club members, and we made no charge whatsoever for the verifications. This was received so well by our members that we decided to offer the service to all DXers. Some charge would naturally have to be made, since a large outflow of cards would result in considerable expense. The price was low, though, even less than the cost of a reply coupon sent direct to the station.

Some of those who object to monitored veries take the attitude that these veries do not cost anything and that there is a large profit for those who conduct the service. They seem to forget that a large supply of printed cards must be kept on hand, more than may ever be required. They overlook the cost of postage as well as some slight compensation for the monitor who spends so much time serving the enthusiastic DXer.

Even if, by any stretch of imagination, a profit should be possible, is it any more iniquitous than the profits made by the objecting clubs through the sale of stationery, stickers and supplies to their members?

The view of Count de Veries in the November RADEX is the logical one to make. Why does the monitoring of Daventry and Hongkong endanger future verification collecting? How can two non-verifying stations sway some 400 other broadcasters on the short wave bands?

Are any more stations refusing to verify merely because they know listeners will assume the responsibility? No, of course not!

There are only two reasons why stations are ceasing to verify: the first is because of the great expense entailed; the second, because they become discouraged by the uselessness of the many thousands of reports which they have received.

DXers who send false or inadequate reports endanger the possibility of complete, bonafide reports being verified. Monitored veries, on the other hand, tend to discourage listeners who send false reports.

Dime Veries

● ● ● By E. J. Shields

WHILE others either invoked consular intervention or resorted to insult in their attempt to force the verification of reception reports, the Quixote Radio Club relied exclusively upon unflinching courtesy to win recognition.

In appreciation of this policy, Manager Ferrari of Radio Station HRN at Tegucigalpa, Honduras, courteously explained the reasons of *force majeure* which had hitherto precluded verification of reports and offered promptly to verify every correct report accompanied by a dime (reply coupons being invalid in Honduras) which the QRC might submit by air mail. But, owing to the danger of loss for which no claim would be entertained by the postal authorities, inasmuch as the mailing of coin is contrary to regulations, Sr. Ferrari insisted that all remittances be by international postal money order.

Such an arrangement appeared eminently fair to listener and station alike. While affording the listener absolute assurance against loss or disappointment, it at the

same time yielded the station a more equitable contribution toward the clerical, postal and printing expense of issuing verifications.

Estimating its pro-rata expense at three cents per request, the QRC consented to accept, for forwarding by air-mail to the station, all requests accompanied by a dime and three cents, all cards to be issued and mailed by the station direct to listeners, with the guarantee that if a card should chance to go astray, another could be requested by the QRC without charge. The QRC further requested that, for the benefit of listeners in the United States and Canada, this arrangement be announced by the station at the conclusion of its evening broadcast. With respect to all these conditions, Station HRN and the QRC are in perfect accord.

Upon learning of this arrangement, other stations similarly situated likewise availed themselves of its advantages, more than a score having given the QRC full and complete assurance of verification when requested through its good offices. These stations are listed monthly in the SHORT WAVE REPORTER published by the QRC at \$1.00 a year. Single copies are 10 cents.

Until this arrangement shall have been fully publicized, coupons received direct (but worthless to the stations) may be returned to listeners by some of the stations with advice in writing as to the correct procedure, but this courtesy on their part is an extra expense and may not be expected indefinitely.

The inference is clear: Having advised how verifications may surely be obtained, the stations are then morally under no obligation to grant requests made in a manner at variance with this advice. While they may honor direct requests, there is no assurance of this, nor would the applicant have ground for com-

plaint if he himself disregards directions.

Listeners in the United States and Canada who desire the verification cards of these stations, are assured of their issuance by the stations if they send their report with a dime and three cents postage to the Quixote Radio Club, Box 772, Santa Barbara, Calif, for forwarding to the stations. This service is open to all.

Universal DX Club Corner ● ● ● By "Pooky"

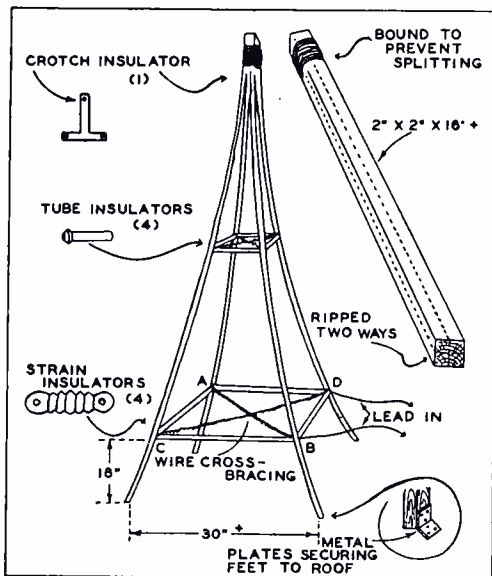


AS THIS month's prize-winning entry in the UDXC Mysterious Contest, "Pooky," with his suitcase all packed, presents a diagram. It was contributed by Mr. W. J. McGrandle of 886 Home St., Winnipeg, Manitoba. The diagram is of a vertical antenna, and Mr. McGrandle's letter explains it.

Mr. McGrandle is now working on another diagram of a vertical antenna, wherein the house will be located at a point to be called "EEEE", at the juncture of the upper cross-braces. In the meantime, "Pooky," peering from behind the curtains of 345 Maple Ave., Oradell, N. J., nervously adjusting his false beard, awaits your comments.

The Vertical Aerial

I read with considerable interest the articles about Mr. Hammond's vertical aerial, and I agree with his claim that the vertical aerial is superior to any other kind. It not only insures good reception, but for



at "A" the wire runs up inside the leg, through the tube insulators, to the crotch insulator at the top, then crosses over to the opposite leg, and down to point "B". From "C" the wire runs in a similar manner to "D". The two wires do not touch at the top. The free ends at "B" and "D" form the lead-in.

Using two wires on the tower allows one to work out several different combinations of hook-up when one or more small switches are used between the lead-in and the set. The lead-in can be kept straight, transposed or twisted. My experience shows that twisted lead-in is best for shortwaves, and grounding one of the wires direct eliminates much interference.

ease of erection, inexpensiveness and adaptability to almost any location, it is hard to beat.

I have been using a vertical antenna since November of 1934, on both long and shortwaves, and have had such good results that I feel I must tell other DXers how to build an aerial like mine.

I used a piece of lumber 2 inches by 2 inches by 16 feet long—but four pieces of 1 x 1 can be used as well. If 2 x 2 stock is used, this should be split both ways, as shown in the sketch, up to within about a foot of one end. Then this end is securely bound to prevent splitting.

The sketch shows how the four legs are spread out at the base and held in position by four cross members. These braces are made of $\frac{3}{4}$ inch stock. The wire bracing adds rigidity.

This kind of a mast can be erected on a peak roof as well as on a flat one. The legs are secured to the roof by means of metal braces—right angle braces for a flat roof and angle braces for a peak roof.

The method of wiring this aerial is very simple. From the insulator

A determined effort to enlist Charlie McCarthy, noted radio entertainer, in the ranks of the American Federation of Radio Artists, has been launched, according to Carlton KaDell, president of AFRA's Los Angeles local.

"As one of the nation's most popular radio performers we feel that he should be a member of this organization," KaDell declared. "Mr. Edgar Bergen, who is associated with Mr. McCarthy on the air, is one of our charter members, but Mr. McCarthy has not yet joined."

Eddy Duchin's sophisticated "Hour of Romance," which induces listeners to roll up the carpets and dance, switched its broadcasts to the Mutual network, on Tuesdays from 10:00 to 10:30 p.m., EST.

This famous society band is heard over WGN, WLW, CKLW, WOL, WIP, WRR, twenty-four stations of the Don Lee Broadcasting System, and WOR, originating in the theater of the latter station.

What *the* SHORTWAVES

Are SAYING

Argentina

LSL2 Buenos Aires, has been heard on 10300 kcs talking with La Paz, Bolivia, near 8:30 pm, EST. (RX60 Ky.)

Brazil

PSH in Rio de Janeiro on 10220 kcs, has been heard nightly from 7 to 9 pm, EST. The signal strength is very good, and the programs, composed principally of Brazilian music, are worth listening to. PSH is owned by Cia. Radio Internacional do Brasil, Caixa Postal 709, Rio. An attractive QSL card is promised to reporters. Programs of PRF4 are relayed. (RX42 Calif, RX59 Texas RX60 Ky, RX64 D. C., RX68 P. Q.)

British Guiana

VP3MR is owned by the British Guiana Broadcasting Company, Georgetown. They give their frequency as 6010 kcs, and state that 150 watts power is used. The transmitting schedule is daily from 7:45 to 10:15 am, and 4:45 to 8:45 pm, EST.

British Honduras

ZIK2, Belize, on 10600 kcs, transmits on Tuesdays, Thursdays and Saturdays from 7:30 to 7:45 pm. (RX27 N. Y.)

Ceylon

VPB in Colombo came through weakly one morning. The best time for reception is around 9 am, EST, which may be a little late for eastern listeners, but they might try near 7 am. (RX42 Calif.)

Channel Islands

Several reports have appeared in British newspapers about the existence of a mystery station in the Channel Islands. This station is owned by Alderney Radio, Ltd., on Alderney Island, Channel Islands,

and has not been licensed by the British General Post Office. It is understood that the Channel Islands are a part of the ancient Duchy of Normandy, are governed under Norman laws, and that French is the official language. The Mystery Station transmits on about 50 meters (6000 kcs.) and is expected to go to very high power soon. (RX47 England).

Chile

CED at Antafagasta on 10230 kcs, tests frequently from 7 to 9:30 pm. (RX27 N. Y.)

Colombia

HJ7ABP Bucaramanga is heard frequently on its frequency of 9630 kcs, but also once in a while on 10330 kcs. (RX70 Colo.)

Cuba

Sr. Casas, owner of COCO, tells us they have just installed a new broadcasting station, CMCK, to work on 1030 kcs. COCO, on 6010 kcs, employs a Collins transmitter of 2500 watts power. Reports should be addressed to Sr. Luis Casas R., Apartado 98, Havana.

COCU is heard nightly on 6590 kcs. The schedule is Monday to Saturday, 7 am to midnight, EST. On Sundays the transmission lasts one hour longer. The address is Estrada Palma No. 25, Vibora, Havana. (RX42 Calif.)

COBC has been heard on about 9960 kcs. . . . COCO is now being heard on about 12050, relaying CMCK . . . COCH is now relaying CMGF . . . COKG is still on 8930 kcs, putting in a fair but "tinny" signal. (RX52 and RX69, N. Y.)

COKG is heard on 8920 . . . COBC, listed on 9360, has been heard on 9420 and 9090 . . . COCH is heard on

9480 . . . COCQ, listed on 9750, has been logged on 9090, 9600, 10390, 9700, 9750 and 10000 kcs. . . COCX heard on 9290 (RX70 Colo.).

COCA, the new Havana station, has been heard on 9200. The address is P. O. Box 3488 . . . COBX comes through on 10000 . . . A commercial station, CMA5, Havana, transmits on 10890 working with WQV at Rocky point. (RX22 Ohio).

COCQ and COBC have been chasing each other all over the dial, from 9060 to 9100 (RX62 Calif.).

Denmark

OZF, Copenhagen, operating on 9520 kcs, with 6 kilowatts power, is heard daily from 2 to 6:40 pm, EST. (RX47 England).

Dominican Republic

HI7P in Trujillo now verifies through the QRC Dime Verie Plan.

Ecuador

Station HCJB transmits on two s. w. broadcasting wavelengths, operates in two of the amateur bands, and is also on the broadcast band. Each transmitter employs one kilowatt power, and the broadcasting schedule on all frequencies (except the amateur frequencies) is daily from 7 to 8:15 am, 11:30 am, to 2:30 pm, and 4:45 to 10:15 pm, EST. On the 4107 kcs frequency the slogan is "Broadcasting Provincial;" on 8830 the slogan "La Voz de Los Andes" is used, and on the broadcast band (974) the station is known as "La Voz de Quito." On the 20 and 40-meter amateur bands the call letters are HC1JB, and the slogan, "Radio Rodante." These amateur stations are employed frequently for rebroadcasting HCJB programs. (RX22 Ohio).

The list of Ecuadorian stations given here was taken from the Ecuadorian Trade Index:

HC1VT, "Radio Ambato," 6575 Ambato.

"Radio Esmeraldas," at Esmeraldas.

HC2JB, "La Voz del Litoral," Apartado 784, Guayaquil.

HC2JSB, "Ecuador Radio," Guayaquil.

HC2RL, "Quinta Piedad," 6674 Guayaquil.

HCT, "Radio Telefonica," 5003, Guayaquil.

"Radio Ortiz," Guayaquil.

HC2CW, "Ondas del Pacifico," 8408, Guayaquil.

"Radio Paris," 12675, Guayaquil.

"Radio Naval," Guayaquil.

"Sociedad Filantropica del Guayas," Guayaquil.

"La Voz del Imbabura," Ibarra.

"Radio Asemany," Loja.

"Radio Loja," Loja.

HC1ETC, "Teatro Bolivar," 6976, Quito.

HC1JB, "La Voz de los Andes" (See paragraph above).

HC1PM, "La Voz del Palomar," 5725, 6555 and 12000. Quito.

HC1TQ, "El Telegrafo," 6720, Quito.

HCK, "Radiodifusora del Estado," 3529 and 5885, Quito.

"El Prado," Apartado 98, Rio Bamba. (RX52 N. Y.).

Guatemala

TGWA, 10 kilowatts, has been heard on 9685, 11760 and 15170 kcs, at various times throughout the day and night. (RX61 Ariz.). Their signal on 15170 is especially good. On certain days, around 12:30 pm, they have a program for Americans, and many of the selections are played by a marimba band. (RX29 Ill, RX30 Ky, RX57 Ill, RX67 Ky, RX70 Colo.).

TGWA is heard best on 9690 kcs between 7 and 8 pm, and from 4 to 5 pm, is the best time to hear it on 11760 and 15170 kcs. (RX64 D. C.).

Honduras

HRN, Tegucigalpa, now verifies through the QRC Dime Verie Plan.

India

The best reception this month was the interception of signals of VUC Calcutta on 6110 kcs. The signals were exceptionally good, at R7, and

were best from 8:30 to 9 am, EST. At 9 o'clock W9XF comes on the air and ruins it (RX42 Calif.).

Italy

Two new Italian shortwave broadcasting stations, both relaying the programs to 2RO, may be heard testing on the 19 and 16 meter bands. Sometime in February these stations, which are reported to be 2 kilowatt auxiliary transmitters, will probably relay all of 2RO's programs.

Macau

Station CQN has been heard again on a regular schedule on Mondays from 7 to 8:30 am, EST. They announce that they also transmit on Fridays at the same time. The best reception is at 7 am, when they sign on. Announcement of call letters is very frequent during broadcasts. A strong c. w. signal is usually on the low frequency side of CQN and bothers reception. (RX42 Calif.).

Martinique

A verification has been received from "Radio Martinique" at Fort de France. The letter states that QSL cards are now in preparation, and will be sent out as soon as possible. This 200 watt station was built by the operators, and transmits on 9700 kcs, between 6:45 and 7:45 pm, EST, daily. The address is P. O. Box 136. (RX22 Ohio).

Fort de France is still heard, but not as frequently as a few months back. Its actual frequency is about 9730. (RX70 Colo.).

Mexico

The new Mexican station on 7100 kcs, reported in the December RADEX, uses as its identifying slogan, "Radiodifusora del Pueblo." It is situated in Guadalajara. No call letters are announced, but reports are to be addressed to La Oficina del Partido Revolucionario Mexicano, Guadalajara, Jalisco, Mexico. (RX42 Calif.).

Netherland East Indies

Station YDC at Batavia, Java, has



Originators of their own brand of heckling and "double talk," Shaw (right) and Lee, veteran comedians are featured on Columbia's novelty program, "Double Everything." Sam Lee and Al Shaw have teamed together for over a decade.

been verified on 15150 kcs. (RX41 La.).

New Guinea

Radio telephone service has been opened between Sydney, Australia, and Rabaul, New Guinea. The service is available throughout the entire Mandated Territory and all of Australia, between the hours of 11 am and noon (8 to 9 pm, EST.).

Nicaragua

Reports on YNPR are conflicting. This station has changed frequency from 8650 to 8580 kcs; the power is 500 watts, and the schedule is 1:30 to 2:30 pm, and 8 to 10 pm, according to RX42, California. YNPR, "Radio Pilot," was logged at 10:30 pm on about 8750 kcs, by RX29 Illinois.

Panama

HP5A in Panama City must be using their new 3000 watt station now, as they are coming through almost as well as COGF (RX52 and

RX69 N. Y.).

Peru

"Radio Nacional de Peru," (probably OAX4T), at Lima, has been heard on 15170 announcing test schedules with the British Broadcasting Corporation daily from 6 to 8:45 pm, GMT (1 to 3:45 pm, EST.) (RX22 Ohio).

Philippine Islands

A verification from KZRM at Manila states that the power is one kilowatt, and the frequencies are 9570 and 11840 kcs. At present only the latter frequency is used, but they may change to the other at any time. Their antenna is a 420 foot vertical radiator, and the schedule given on the card is as follows; Monday to Friday inclusive, 4:30 to 6 pm, and 5 to 9 am, EST. Saturdays 4:30 to 6 pm, and 5 to 10am, EST. Sundays 4 to 10 am. Programs are broadcast in English, Spanish and Philipino. (RX42 Calif.).

Portugal

CSW in Lisbon, assigned frequencies 11840, 11040 and 9940, is on the air daily from 1 to 8 pm, EST (RX27 N. Y.).

CSL, Lisbon, 6150 kcs, is heard from 7 to 8:30 am, and from 2 to 7 pm. (RX27 N. Y.).

Portuguese West Africa

"I have verified CR6AA, Lobito, Portuguese West Africa. The frequency of this station is given on the card as 9660 kcs, and the address as P. O. Box 103." (RX41 La.).

Siam

HS8PJ, in addition to their Thursday broadcasts on 9510 kcs, has been holding a special broadcast on Mondays from 8 to 10 am, on 19020 kcs. These broadcasts may become permanent if reports on their signals are favorable. (RX42 Calif.).

Spain

EAR in Madrid has been heard at 7:30 pm, transmitting news from the war front. In asking for reports, the announcer gave the address as

Radio Station EAR, The Voice of Madrid. (RX56 Ont.).

Spanish Morocco

A verification card from EA9AH states that it is owned by F. Diaz Gomez, Apartado 124, Tetuan. This station works on approximately 14050 kcs, which is in the 20-meter amateur band but can be considered as a broadcasting station as well because of its regular programs. The power is 500 watts. War bulletins are read in Spanish and English at 4:45 and 7 pm, EST. (RX47 England).

Sweden

SM5SX, Stockholm on 15155 kcs, is now heard operating from 11 am, to 5 pm, EST. (RX54 Minn.).

Union of South Africa

Mr. H. O. Collett of the South African Broadcasting Corporation provides us with complete information concerning the new Johannesburg shortwave station. Mr. Collett's letter reads:

"We wish to advise you that the following is a synopsis of our schedule:

"Mondays to Fridays inclusive, EST, 11:45 pm, to 12:45 am, physical jerks session with news services and market reports. Time signal at midnight with chimes from Union Buildings at Pretoria.

"3:15 to 7:30 am, the morning session consisting of recorded orchestral music, talks, reports and news, with time signals at 5, 6, and 7 am.

"9 to 11:45 am, afternoon session consisting of recorded music, children's broadcast, Youth Movement broadcast, and reports, with time signals at 10 and 11 am.

"11:45 am, to 4 pm, orchestral and variety programs with news and talks, together with general interest broadcast and time signals at noon, 1 pm, and 3 pm.

"The Saturday program is a repetition of the weekday program with the exception that afternoon

sessions start at 10:30 am, and the evening session ceases at 4:45 pm.

"The Sunday program is made up as follows: Church broadcasts from 3:30 to 4:30 am, or from 4 to 5 am, followed by afternoon session which starts at 8 and finishes at noon. The evening program starts at 12:15 pm, with religious broadcasts, light musical items and news. There is a time signal at 1 pm.

"Our correct mailing address is South African Broadcasting Corporation, P. O. Box 4559, Johannesburg. The exact frequencies employed by our stations are:

Klipheувel: South African daylight broadcast on 9606 kcs, and night broadcasts on 6097 kcs.

Johannesburg: Daylight broadcasts on 6097 kcs. This station is shut down during the evening sessions.

Roberts Heights: This station will be in operation as from the 1st December (barring mishaps) and will broadcast on the frequency of 9523 kcs, until such time as it is decided to introduce a second frequency." (End of letter).

Johannesburg comes in quite well, and is heard every night tried for, from 8:45 to 9:45 pm, PST. The opening and closing announcements are made in English and Afrikaans. (RX62 Calif.).

J/B is heard with only R1 and R2 signals, through bad static at times. The programs always start with a bugle call. (RX42 Calif, RX61 Ariz.).

United States

The new General Electric station near Belmont, Calif. has been assigned the call letters W6XBE.

WWTA at St. Albans, Vt., 1626 kcs, transmits daily at 11 pm. A new police station in Lafayette, Ind. is working on 1634. An unlisted weather station comes in on 1630, transmitting storm warnings near 11 pm. (RX65 N. H.).

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 January issue are shown below:

New
1.698 WEVN, Belair, Md.
WHWN,, Md.
1.712 KPAT, Port Arthur, Tex. (.06)

Add
1.626 WWTA, St. Albans, Vt.
1.698 WAKR, Pensacola, Fla.
WAKS, Orlando, Fla.
WAKT, Tampa, Fla.
WAKU, Ft. Myers, Fla.
WDSP, New Castle, Del.

Power
2.414 WPFI, Columbus, Ga. 250 w. from 100.

2.450 KACF, Chicasha, Okla. 100 from 50.
KGPZ, Wichita, Kans. 400 from 250.

Vatican State

The Vatican City station HVJ has returned to the air and is very well heard. It tests in the mornings, coming on the air prior to 9:30 am. The announcer mentioned that they were also transmitting on a wavelength of 25.55 meters. (RX22 Ohio).

The Reporters

RX22, Jack Siringer, 1451 Lincoln Ave., Lakewood, Ohio.

RX27, Raphael Geller, 1652 Radcliff ave., Bronx, N. Y.

RX29, Wm. J. Wood, 817½ Lake St., Oak Park, Ill.

RX30, R. J. Nabor, 417 S. Western Pkwy., Louisville, Ky.

RX41, A. V. Deterly, 211 Convention St. Baton Rouge, La.

RX42, Stanley LaRue, 309 S. Bedford Drive, Beverly Hills, Calif.

RX47, D. H. Dussek, Morland Hall, Alton, Hants, England.

RX52, S. A. Meyer, Jr., 83 Canterbury Rd., Rochester, N. Y.

RX54, Darrel G. Johnson, Wolverton, Minn.

RX56, Cecil Dickenson, 61 Dover St., Chatham, Ont.

RX57, Jack Welsh, Kingston, Ill.

RX59, T. D. Smith, Box 744, Burnet, Texas.

RX60, R. M. Carter, 1064 Everett Ave., Louisville, Ky.

RX61, Francis McDonald, 215 E. 34th St., Tucson, Ariz.

RX62, Richard S. Croker, 928 W. 11th St., San Pedro, Calif.

RX64, H. M. Phillips, 3907—20th St., N. E., Washington, D. C.

RX65, Harry Hawkins, 222 Massachusetts St., Manchester, N. H.

RX67, Jesse L. Lausman, 409 S. Campbell St., Louisville, Ky.

RX68, Rene Chicoine, 4388 rue Fabre, Montreal, P. Q.

RX69, John D. Chamberlain, 190 Gregory Hill Rd., Rochester, N. Y.

RX70, W. F. Cornwell, 2939 So. Grant, Englewood, Colo.

Station News

Three new Australian stations have been licensed. One of these is a new National station for Adelaide, No. 2, with the call sign 2AN, on frequency 890 kcs with 500 aerial watts. The other two are commercial broadcasters. Parkes, NSW, has 2PK on 1400 kcs with 100 watts, owned by the Parkes Broadcasting Co., Pty., Ltd., 283 Clarinda St., Parkes, NSW. The other commercial station is at Geraldton, 6GE on 1370 kcs. The power is 500 watts, and the owner, the Great Northern Broadcasters, Ltd., St. George's Terrace, Perth, W. A.

Many of the Chinese radio stations have suspended operation, according to *China Radio*. Our index of Asiatic stations, printed in full this month, shows the status of Chinese stations prior to military operations.

The correct mailing address of stations WOV and WBIL, New York, is 132 West 43rd St., New York, N. Y.

The Cuban Director of Radio ordered CMBG deleted on Nov. 12. This station was owned by John L. Stowers.

The mailing address of XELO, Tijuana, is P. O. Box 6, San Diego, Calif.

Joint operation of WLLH at Lowell and its "satellite" station at Lawrence was commenced on December 1st, and the operators report that their listening area has been increased by 250,000 persons. The call letters WLLH are used for both stations, which are synchronized on 1370 kcs. WLLH at Lowell works with 250 watts until local sunset and 100 watts thereafter, and the booster at Lawrence employs 100 watts full time. The stations are only ten miles apart.

The SWL Trading Post

Walter Th. Kammann, P. O. Box 1891, Caracas, Venezuela, wants to exchange SWL cards.

"I have heard various ship 'phones and Canadian weather stations on 1630 kcs, among them VBB of Sault Ste. Marie, VBE of Point Edward and VBG in Toronto," reports C. Roman, 1907. Kedzie Blvd., Chicago, Ill. "I would like to know if any other readers have heard these stations, or other stations of this type."

Howard Conrad, Route 1, Killingly, Conn., wants to exchange SWL cards with anyone in any part of the world, and promises to answer every card and letter he receives.

H. C. Hicks, Jr., 727½ W. Twelfth St., Dallas, Texas, will exchange correspondence.

Morris E. King, Bridgeport, Okla. (Exchange SWL cards).

Leo Herz, 730 Roscoe St., Chicago, Ill. (Exc. SWL cards).

Francis Gmeiner, 661 E. 109, Cleveland, Ohio, SWL cards.

KSTP has been granted special experimental authority to operate its regular transmitter on 1460 kcs for experimental facsimile transmissions from 1 to 6 am, CST.

Some Little BIOGRAPHIES

• • • By BETTY

THE King of Jazz, the world-renowned Paul Whiteman, has returned to the Columbia Network for an extended series of popular musical programs which are heard every Friday night from 8:30 to 9:00 pm, EST, and rebroadcast to the west at 11:30 pm, EST.

In addition to the inimitable music provided by his orchestra of 26 stellar instrumentalists, America's foremost popular musical leader also will bring to the CBS airplanes each week, a different star from stage and screen, many of whom Whiteman himself started on the road to fame as members of his musical ensemble. The names of the guest stars will be announced from time to time.



The latest picture of Marian Jordan, the doubting half of the NBC comedy team, Fibber McGee and Molly. In addition to being a radio comedienne, Marian also is the mother of two children and the housewife of the Jordan household.

In the words of Whiteman, the series will be "popular programs, devoted to tune favorites old and new, but I hope to introduce many of the works of contemporary composers, with the emphasis, of course, on new American composing talent."

The first five programs of the series originated in Hollywood, but the remaining programs come from one of Columbia's New York playhouses where the noted critic and composer, Deems Taylor, who is also Columbia's musical consultant, brings to the series his informal and stimulating musical commentaries. Paul Douglas is the announcer.

The Brigadiers

Horace Heidt and his Brigadiers are presented to the radio audience over the largest network in the history of the popular program, on the coast-to-coast Blue Network, on Tuesdays from 9:00 to 9:30 pm, EST.

Although Heidt's orchestra and entertainers have been heard over NBC networks occasionally in the past, they are now broadcasting their first regular series over this network. In bringing his program to NBC, Heidt steps into the spot formerly occupied by another famous orchestra leader, Ben Bernie, the Old Maestro.

Assisting Heidt in his weekly program of gay and stirring rhythms are such well know specialty performers and singers as Lysbeth Hughes, singing harpist; Alvino Rey and his singing guitar; Larry Cotton, tenor; Charlie Goodman, baritone; Bob McCoy, basso; the Glee Club; Yvonne King, of the Four Kings, and the Three Trumpeters.



Olga Baclanova, of stage and screen fame, has ensconced herself in the radio limelight with her new role of singing star on her own "Continental Revue", which is heard over the Mutual System on Saturdays from 8:30 to 9 pm.

The maestro himself, a six-footer weighing 190 pounds, was a star athlete at Culver Military Academy and the University of California until a broken vertebra ended his athletic career. His Brigadiers were organized on the campus of the University of California. After graduation, the group met wide success in California, throughout America and abroad.

Jack Benny's Maxwell

"How do you make a Maxwell sound like a Maxwell when it isn't a Maxwell?" This, in effect, is the most frequent question asked in recent weeks in the thousands of letters that Jack Benny has received in regard to his sound-effects auto.

Pinto Colvig is the man responsible for the development of the apparatus which is the "Maxwell of the Air."

He uses the "south end" of a trombone for the sound of the car's

starting motor, and a battered wash boiler with mounted electric motor gives a perfect imitation of a rickety jalopy rolling down a bumpy road. A siphon bottle simulates the sound of a gasoline pump putting in two gallons. A rattle, cowbell, steel plate, and coffee can, all mounted on a board which is beaten with a wooden hammer, creates the illusion of things dropping off the Maxwell.

The mechanical effects, together with whistles, screams, chugs, and wheezes supplied by Pinto himself, constitute the working parts of Jack's famous Maxwell. Jack calls the talented sound effects engineer his "air chauffeur," and no name could be more accurate. For Colvig is the only fellow who has ever actually "driven" the Benny bus.

Arthur Godfrey

Arthur Godfrey is now heard every Friday from coast-to-coast



Horace Heidt's Alemite Brigadiers are now heard over the Blue Network on Tuesdays from 9 to 9:30 pm, EST. Heidt's programs are built to suit every musical taste, and vocal and instrumental soloists and groups are featured.

over the Mutual Network at 7:45 pm, EST. Born in New York thirty-four years ago, he recalls his earliest ambition as one "to see everything and do everything." And he meant it. Since his birth, Arthur has been an office boy, a coal miner, a navy radio operator, a life insurance salesman, a cemetery lot salesman, a vaudeville actor, a taxi driver, a member of the coast guard, a radio announcer, a breeder of thoroughbred dogs, horses and fine cattle, and the quizzing assistant to the quizzical "Professor Quiz."

His father, Arthur Godfrey, Sr., was a veteran sports writer who recognized the boy's ability at ad-libbing, and gave him column recognition that resulted in the offer of nineteen different jobs. His broadcasts over WJSV, Washington, soon brought him a large following of listeners who liked to hear "somebody different."

Godfrey tips the scales at 185 pounds, possesses auburn hair, blue eyes, determined jaw, and a slow, drawling voice. He's a bachelor . . . never keeps an appointment on time, for no good reason, but admires punctuality in other people . . . his favorite radio performer is Al Pearce.

This new Mutual star likes to fish, ride and fly his own airplane, is a banjo player of note, and since his air debut has done considerable singing. On his new program he tries his diversified talents on a new Hammond electric organ.

Boake Carter will start a new program on February 28. His talks will be heard from 6:30 to 6:45 pm on Mondays through Fridays, over the Columbia Network.

Ed M. Vickers of Box 121, Coral Gables, Fla., wishes to obtain copies of RADEX published prior to 1929.

Aerials and Grounds

Back issues of RADEX are crammed with data about aerials and grounds. Good antenna installations are essential if one is to derive the greatest amount of DX possible from his set; most DXers realize this, and they continuously experiment with various combinations of sky wires until a winning combination is found.

DXers who wish to further their study of antenna systems are referred to the following articles:

"Experiments With Aerial and Ground," in Feb., 1931.

"Experiments with Aerials and Grounds," in Apr., 1932.

"Expert's Ideas of Aerials and Grounds," June, 1932.

"Shortwave Antennas and Grounds," Feb., 1933.

"Static-Reducing Antenna Systems," Oct., 1933.

"A Word About Aerials," Dec., 1933.

"Debates on Aerials and Grounds," Jan., 1934.

"Is Your Antenna 100% Effective?" Oct. and Nov., 1934.

"Which is the Best Antenna?" March, 1935.

"Concerning Aerials," Sept., 1936.

"Readers Ask About Aerials," Oct., 1937.

M. W. Oliver of Houston, Texas, writes, "A local station, KXYZ, 1440 kcs, inaugurated, on January 1st, a new policy of 24-hour continuous broadcasting.

This will be bad news to many DXers, but news is news."

"There are unidentified Mexicans on 810 and 960," reports Samuel Meyer, Jr., of Rochester, N. Y. "XEN is back on 780 and XEJP on 1120."

DOIN'S of the Radexers

• • • By CARLETON LORD

WHEN the October 1935 issue of RADEX went to press, it was felt that a most important milestone in DX history had been passed. On page 37 of that issue, there appeared an announcement of the adoption of a new plan for inter-club co-operation.

That such a plan was necessary for the continued success of DXing as an organized hobby, was apparent to those who gave serious thought to the matter. For several years, rival radio societies literally had been battling for prestige, members and dedicatory programs, and it began to look as though no holds would be barred.

Instead of close harmony between groups allied in the pursuit of the ever-elusive distant station, there was a growing feeling of petty jealousies and resentment. Special broadcasts were scheduled without thought of whether conflicts would occur, and some organizations even tried to chisel in on specials arranged by other clubs. All in all, it was a rather deplorable situation.

Fortunately for DXing, Elwin H. Bullard of the CDXR conceived a solution for the problem and set about to make it an accomplished fact. One by one he obtained the support of other clubs and climaxed his activities in the summer of 1935, when he was able to report the approval by leading clubs of the Inter-Club Co-operation Plan.

Although intended primarily as an instrument to prevent clashing special programs, the plan as adopted was a virtual code of ethics for DXing. Agreements were made whereby the co-operating clubs

would refrain from attempts to chisel in on programs arranged by other clubs, would not use names and addresses from other bulletins as a means of soliciting members, and would not use tips from another club without first receiving permission to do so. Each club further agreed that it would not publish anything in its bulletins which would in any way be offensive to another club in the plan.

Provisions were made for the establishment of a Clearing House under the supervision of Miss Emily Griswold, and through this medium clashing specials would be reduced. In the event that conflicts did arise, means were provided for their elimination.

As such, the I. C. C. P. was commended in the October 1935 RADEX as "one of the most important forward steps in the history of DXing as an organized hobby."

The history of the plan since its inception, while not brilliant, has at least been satisfactory. Without any better solution to the problems which faced the DX fraternity, it provided a basis for continued co-operation between clubs and acted as a constitution for the settlement of future questions of policy.

At the end of its first year of operation, the plan was renewed by all of the participating clubs. When Miss Griswold announced last Spring that she would be unable to continue as Clearing House Operator, Alfred J. Stansfield, president of the Universal DX Club, took the initiative in getting the clubs to renew the agreement for another year. With the assistance of Robert H. Weaver, former NRC president

and new Clearing House Operator, approvals were received in short order from the URDXC, IDA, UDXC, NRC and GCDXC. The NNRC later approved a renewal of the agreement. Finally, in a round-about manner, we were advised that the CDXR also intended to cooperate under the rules which its former officers helped to formulate in 1935.

However, while the leading all-wave clubs once more have pledged their support to a renewal of the original agreement, it appears that some officials are not entirely familiar with the regulations which they have promised to uphold.

One of these regulations very definitely stated: "Each club agrees that it will not publish anything in its publications that will in any way be offensive to another club in the plan." As the result of a recent leading article in their bulletin, the attention of the CDXR is directed to this clause.

The matter in question started when the CDXR arranged a special program for December 1st from the new CFAR at Flin Flon, Man. According to CDXR President Charles Hesterman, a flash sheet advising of this broadcast was sent to CDXR members as well as to the other DX clubs. Notice was also published in the November 9th CDXR bulletin.

Just what happened to the flash sheets is not certain, but the NNRC claims that it never received a copy. It did, however, receive a letter from a CDXR-NNRC member in Toronto, George H. Goodwill, advising of the date of the special and promising further details about the time of the broadcast. This letter was quoted in a prominent place on the first page of the November 8th NNRC bulletin. A second reminder appeared in the tip section of the bulletin on November 15th.

Then in the November 29th bulletin, the program was given further publicity. In each of the three instances, the CDXR was given full credit for arranging the program.

For some unknown reason, the CDXR took exception to this handling and devoted a page and a half of its November 26th bulletin to a vitriolic condemnation of the NNRC. Lacking grounds for complaint on the basis that publicity and recognition of sponsorship were not given, the CDXR bewailed the fact that the NNRC did not advise its members "that the CDXR had officially notified the NNRC of the new station and DX programs arranged from it."

Quoting further from Hesterman's article: "The NNRC also implied that they were forced to depend entirely upon Goodwill for any future information regarding CFAR's DX program. I now publicly state that the NNRC lied by implication." When a protest to NNRC President Potts brought in reply only a clipping from the Newark Evening News, giving further publicity to the CFAR program, Hesterman continued: "There probably is a scarcity of writing paper at NNRC headquarters, just as there's a scarcity of straightforward decency."

Other than the knowledge of another incident in which CDXR mail failed to arrive at its destination, which lends credence to the NNRC statement that the flash sheet was never received, RADEX does not intend to comment on the events leading up to the CDXR denunciation.

However, it is felt that the unprovoked attack on the NNRC not only was in exceedingly bad taste, but it was in direct violation of a specific clause of the I. C. C. P. which the CDXR was pledged to uphold. This is indeed a far cry

from the friendly spirit of co-operation which was laid down by the former CDXR officers who helped organize the Inter-Club Co-operation Plan.

In closing this incident, may it be said that the matter would not have received publicity in RADEX but for a direct invitation by the CDXR president himself. On October 31st, he wrote: "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."



A view of the new building housing the transmitter of Argentine station LRA. This station, known as "Radio del Estado," transmits on 750 kcs with 10,000 watts power.

Station News and Reports

As the current DX season swings down the mid-winter stretch, listeners in all parts of the country are hearing new stations for the first time. Old stations bob up on new frequencies and other changes occur almost daily.

On any cold, crisp evening, Spanish-speaking stations bombard the air lanes with potent signals. And, while it is really no small problem to keep abreast of the changing broadcast spectrum, Radexers do their share to clear up the maze by reporting what they hear.

"On 855 kcs there is a Spanish-

speaking station which comes in well at times," reports Carroll H. Weyrich, 112 Alden Road, Parkville, Md. "Those who hear this station should stick by the frequency, as it is OAX4A in Lima, Peru, 'Radio Nacional.' YV5RQ, Caracas, Venezuela, is being heard on 882 kcys from 6 p.m., EST, on. YV5RA, also in Caracas, is received on a clear channel on 960 between 5 and 6 p.m. On 1005 kcys, YV5RG is heard between 8 and 9 p.m. On 1105, HJ3ABB is heard around 8 p.m. relaying HJ3ABD. TIPG, 625 kcys, San Jose, Costa Rica, is a daily visitor from 9 to 11:30 p.m. Down in Havana, CMBC has moved from 630 to 955 kcys. Another station is being heard under WMAL on 630 and may be a new Cuban. On 775 kcys is an unidentified Mexican. Other unidentified stations are also being heard on 690, 985 and 1185. When reception from the South is favorable, the following Cubans may be heard: CMCY on 570, CMCG on 680, CMBS on 770, CMGF on 790, CMCF on 810, CMCM on 850, CMX on 920, CMBY on 970, CMBZ on 1000, CMBX on 1070, CMBD on 1170, CMCB on 1230, CMC on 1260, CMCQ on 1410, and CMOA on 1440."

"We have installed a new 5000 watt transmitter which is operating on 1030 kcys under the call CMCK," writes Luis Casas R., owner, Apartado, No. 98, Havana, Cuba. "All programs are broadcast simultaneously over short wave station COCO on 6010 kcys."

Cuban Invasion

"Just about the greatest source of radio interest in this section is the Cuban Invasion of 1937," relate John D. Chamberlain and Samuel A. Meyer, Rochester, N. Y. "There have been numerous power changes, new frequencies and new stations down there. CMQ switched from 880 to 600 and is now using an an-

nounced power of 25-KW, but competition on that channel is pretty keen, what with WICC, WMT and CFCF. A new carrier has appeared on 880, which might be CMW. CMW's old 2500-watt outfit is now on 750 with the call CMBL, making life miserable for WJR. CMK has moved from 730 to 720, creating an awful howl on WGN. CMCO occasionally manages to break through the mob on 1200. What happened to the CMCX which was on 1030 before CMCK, and where is CMCW?"

Other Cuban changes reported show that CMW is definitely on 880, where it moved from 600, that CMCD changed from 950 to 630, and CMBC from 630 to 950. CMCX and CMBG are reported deleted.

Mexico . . .

"XERO is a new Mexican station on 670 at Chapultepec," advises Howard M. Phillips, 3907 20th St. N. E., Washington, D. C. "A government program in Spanish and English is broadcast nightly from 2 to 2:30 a.m., EST."

"A new lower Californian station has cropped up on 730 kcys," briefs Hadley Wilcox, 623 W. 40th Place, Los Angeles, Calif. "It is XERB, Rosa Rita Beach, B. Cfa., about 15 miles South of the border. I heard them making transmitter and antenna adjustments. They announced their power as 100 KW and said they would be on the air in about 10 days (from November 28th). They had fine modulation and put in an excellent signal."

Bahamas . . .

"I would like to report reception of a new station at Nassau, Bahama Islands," asserts Merlin Olmstead, Route 2, Anacostia Station, Washington, D. C. "The call is ZNS and I have heard them on 540 kcys from 8:30 to 9:30 p.m., EST, the past three evenings. Each time I

tuned them in, the announcer gave the call, location and frequency, so there is no question about these details. According to the announcement, the station is operated by the government down there."

Confirmation of this new station comes from the Secretary of the Broadcasting Committee, at the Office of the Superintendent of Telegraphs, Nassau, who writes:

"Will you publish the following information regarding the Nassau Bahamas Broadcasting Station? The call is ZNS (pronounced Zed En Ess), the frequency is 540 kcys, and the power 400 watts. The station transmits from 1:30 to 1:45 and 8:30 to 9:30 p.m., EST. Frequently there is a relay of the Daventry short wave station, which begins at 8 p.m. The identification signal is a recording of the Bells of St. Margarets, London, and at the close down there is a recording of 'God Save The King.' Requests for verifications should be addressed to the Superintendent of Telegraphs, Box 48, Nassau, Bahamas."

Canada . . .

"At deadline in the December issue," exclaims Bill Cunningham, 528 N. Marengo Ave., Pasadena, Calif., "you mentioned the new CJBR at Rimouski, Que. A recent letter from the Department of Transport, Ottawa, advises that this station will operate temporarily on 1030 kcys with 1000 watts."

"Other Canadian additions include CHLN, Trois Rivieres, Que., 1420 kcys, 100 watts; CFAR, Flin Flon, Man., 1370 kcys, 100 watts; and 100-watters at Owen Sound, Ont., on 1370, and at Kenora, Ont., on 1420.

"Flin Flon, by the way, is not the transmitter site for a new Winnipeg voice of the night, but is up in the Northern Manitoba mining country. I expect that this station, along with Kenora and CFGP,

are new Northern Broadcasting Co., transmitters, as this concern pioneered radio development in the awakening North with CKGB, CKCK and CJKL."

"Many Canadian changes were made by the CBC this month," offers Bill Clarke, Box 13, Quesnel, B. C. "Both of the new 50-KW stations in the East—CBL, Toronto, and CBF, Montreal—have at last come on the air. Two new stations in Quebec—CHLT, Sherbrooke, and CJBR, Rimouski—will use 1000 watts. On November 2nd was opened a 100-watter at Grand Prairie, Alta., with the call CFGP. The low power stations in Vancouver are expecting word any day now for at least one or two of them to raise power to 1000 watts. CFCT, Victoria, has been granted a power increase from 50 to 500 watts. Their new transmitter, which was scheduled for completion by Christmas, will have a possible maximum output of 1000 watts."

"According to the November RA-DEX," reminds Kenneth E. Pierce, 85 Portland St., Worcester, Mass., "CFAC, Calgary, Alta., was a 100-watt station on 930 kcys. But on October 22nd I heard a signal on 1120 and an announcer said: 'This is CFAC in Calgary, operating with our new power of 1000 watts.' Your December issue announces the power increase, but leaves the station on 930. Did they move to 1120, or was I hearing things?"

The last official Canadian list showed CFAC still on 930. Perhaps Radexers have the answer to this discrepancy.

Trans-Atlantics . . .

"The new Dutch station Loperikapel (Hilversum) on 722 kcys uses a power of 17 KW," offers D. H. Dussek, Morland Hall, Alton, Hants, England. "They relay programs from Hilversum No. 1 (160 kcys)

after 9:40 a. m., EST. Good progress is being made with the construction of the new Broadcasting House at Athens. It is officially announced that the service will begin on January 1st. The station will use 15 KW on 601 kcys."

Trans-Pacifics . . .

"The Siberian station on 540 kcys, RW54, has a very good signal," greets Warren E. Winkley, Hughson, Calif., "and can be heard easily from 4 to 8 a. m., EST. The Japanese are the best they've been in recent years. In fact, everything is fine, except the static, which is now really bad."

"Several Japanese stations are frequently linked in a chain to broadcast a talk in English on the proper way to speak the English language," reports Anthony C. Tarr, 909 W. Lee St., Seattle, Wash. "Apparently varying combinations of stations are used on different mornings. So far the program has been heard at various times from JOIK, JOAK-2, JOBK-2, JOXG, JOIG, JOQK, JOHK, JOCK-2 and JBCK. The best time for the broadcast is 4:30 to 5 a. m., EST. Other Japanese heard lately are JOHG (1050), JOLK (910), and one on 1060 which is unlisted. Other Orientals heard were MTCY and XGOA. In Russia, RW54, Khabarovsk, 540 kcys., is heard from 6 to 9:30 a. m., EST, and sometimes RW32, Vladivostock, 635 kcys., is heard about the same time.

"Recently I succeeded in picking up ZJV, 920 kcys., Suva, Fiji Islands, at their sign-off at 4 a. m., EST. Signal was QSA2, R3. I understand that they use 7500 watts, but I consider this to be my best catch in five years of DXing.

"Several fine signals from Australia are being heard, with 4AK being particularly consistent. Occasionally they maintain a steady R7 signal for 30 minutes at a time.

4BH comes in well at times on 1380. 3UZ on 930 and 3BA also have been heard. A report was secured on an Aussie on 1390, but I have not as yet learned whether it is 2GN or 2CA. 3AR is heard fairly well on their new frequency of 630 kcys."

Another reader to hear RW54 on 540 kcys is J. W. Hansen, 3028 Fairmont Blvd., Riverside, Calif., who also reports a mystery station on 860 kcys. "On November 7th," he writes, "I tuned in a station on 860 at 3 a. m., EST. All announcements were in Spanish. Many musical selections were played during the two hours I heard the station. Although there was a poor signal, I have plenty of dope for a verification, if I only knew where to send my report."

"Station 2KA, Katoomba, 1160 kcys, expects to have a new 2000-watt transmitter working shortly," informs A. I. Breen, 68 Pine Hill Terrace, Dunedin, N. Z. "Their old power was 500 watts. A new plant of the same power will shortly be put in operation by 2CA, 1050 kcys, at Canberra. There are two other new stations being heard just now—presumably Aussies—but reception conditions are so poor that they are not as yet identified, although one is believed to be at Broome, West Australia."

United States . . .

"The Visalia Station, KTKC on 1190, is now broadcasting on a regular daily schedule," states Richard S. Croker, 928 W. 11th St., San Pedro, Calif., "although they come in here very poorly. KTMS, Santa Barbara, Calif., 1220 kcys., is also on regular schedule and carries NBC programs. KIT, Yakima, Wash., has been heard on 1250 kcys with a frequency check."

"Although the change has not yet been listed in RADEX," submits Vincent C. Johnson, 1025 S. 36th St., Lincoln, Neb., "KOIL, Omaha,

is now operating with a new 5-KW high fidelity transmitter and a vertical antenna. The transmitter house and antenna are located on low, flat land near the Missouri river. KOIL's night power remains the same, 1000 watts."

"Our local WLBZ has just installed and put into operation a new vertical antenna," reports Frank W. Hoxie, South Orrington, Me. "It is 404 feet high and, according to announcements over the station is the highest in the state. Fifteen miles of copper wire were used in the ground system. Work was finally started on the construction of WGAN at Portland. Under the terms of its construction permit, it must be completed by May 22nd."

"Although you list WSAN and WORK as carrying only NBC Blue network programs, they also take some of the Red network features," corrects Lloyd Rees, 619 Hamilton St., Easton, Pa. "Our local WEST is on from 7 to 8 a. m., EST, which should be a good time for DXers."

Special Programs

Although mid-winter usually finds special broadcasts at a peak, this year seems to be an exception. Exclusive of frequency check dedications, a total of 45 dedicatory programs were released by the I. C. C. P. Clearing House from October 28th to December 16th. Of these, the IDA claimed credit for 16, the NNRC had a like number, the UDXC had 8, the NRC3, and the URDXC 2. Quite a contrast to previous years.

Regular test transmissions broadcast at the discretion of the stations themselves have not been nearly as numerous as in past seasons. In fact, announcements of special programs of every nature have not as yet justified the tabulation of the monthly DX calendar.

A number of readers have inquired about frequency checks from

the Canadian stations. It will be recalled that a few seasons back, a number of low power transmitters broadcast nine-minute test programs, so a query brings the following statement from G. C. W. Browne, Assistant Controller of Radio, Department of Transport, at Ottawa:

"I may say that no special transmissions are made by broadcasting stations in Canada for the specific purpose of frequency checks at the present time, although measurements are made by our monitoring stations during the regular transmissions of the various stations."

Tips on three West Coast, 100-watters are supplied by Charles C. Norton, president of the URDXC, as follows: KDB, Santa Barbara, Calif., 1500 kcys, 3 to 3:45 a. m., EST, every Saturday; CKMO, Vancouver, B. C., 1410 kcys, 3 to 4 a. m., EST, every Sunday, Tuesday and Thursday; and KAWN, Gallup, N. M., 1500 kcys., 4 to 5 a. m., EST, every Thursday.

"As I believe KPPC is quite a catch for Eastern listeners," writes Mel Dilbeck, 1385-B Holliston Ave., Pasadena, Calif., here is a tip on their schedule. Each Sunday night they broadcast services from the Pasadena Presbyterian Church from 11 p. m. to 1:00 or 1:30 a. m., EST. At the same time on Wednesday evening, they transmit the prayer meeting from the church and usually follow with a program from the Pasadena Junior College."

No Veries Wanted

"Recently I have been sending postcards to stations heard testing," supplies Warren E. Winkley, Hughson, Calif., "giving them a report, and not even expecting a verie. In fact, the subject of a verification was not even mentioned. In several instances, I received confirmations. In one sense, I earned veries, because I gave them a good report; in another, I didn't, because no return

postage was enclosed. Maybe I should feel proud of getting something for nothing, but I don't. I had thought of stating on the report that no verie was desired, but that might sour the stations on the idea of verifying at all. What do you think?"

A number of readers have reported similar experiences in the past, so the logical solution might be deliberately to omit any mention of the program material. Merely report reception of the station, give details of how the signal was received, thank the station for the program, and let it go at that. If no program material is given and if no verie is requested, the average broadcaster would take the card or letter at its face value and consider it as a very welcome report. If a verie is still forthcoming, it should certainly be disregarded.

"Sometimes I am quite amused," chuckles E. M. Vickers, Box 121, Coral Gables, Fla., "by the veries I get from the various stations. I spent considerable money printing report forms and take a great deal of care in getting the data reported, but sometimes that doesn't mean much to the stations. The Chief Engineer of KTEM, for example, wrote: 'This is to verify your report on the frequency check made November 9th. Thanks very much. How is the weather in Coral Gables? There is four inches of snow in Temple.' WHBQ merely returned my report and wrote at the bottom: 'We are very glad to verify this report.'

"However, occasionally I get a letter like the following from WMFD: '. . . we are investigating the discrepancy between musical and program level over voice level. Thank you again for the complete report. Reports like yours are a definite help to broadcasting stations, inasmuch as there is usually



Solicitous Eddie Cantor turns the page for Pinky Tomlin who is broadcasting under some difficulties, as a result of a fractured arm sustained in an auto accident. Songwriter Tomlin is featured as a singer on the Cantor program which is heard from Hollywood over the Columbia Network on Wednesdays.

a noticeable difference between local reception and DX. We invite you to be with us again on a DX check.' "

Veteran DXers undoubtedly could cite innumerable instances where similar replies were received. Some of the older stations, perhaps fed up with requests for veries, feel that they are doing enough by sending out the desired confirmation. Probably they feel that they know enough of their local coverage and aren't greatly concerned how their signal reaches a distant point.

The newer broadcasters, like WMFD, may still be making adjustments on transmitter and aerial, so a complete report is a very welcome source of additional data. Then, too, they may have an engineer who still remembers his early days in radio, and who has a fellow feeling for the listener out on the midnight air.

Of course, blunt replies and stereotyped veries should never discourage the DXer from making his reports as complete as possible. Even though some stations may not appreciate his efforts, he is under very definite obligations to the broadcasters from whom he requests the courtesy of a verification.

RADEX Dedications

Another schedule of frequency check dedications to RADEXers has been arranged by Raymond W. Sahlbach, 4708-A S. Compton St., St. Louis, Mo. All times are a. m., Eastern Standard.

	February 1st	
6:00-6:15	WMBS 1420	Uniontown, Pa.
	February 8th	
5:40-6:00	WCAT 1200	Rapid City, S. D.
	February 9th	
3:40-4:00	KAND 1310	Corsicana, Texas
4:20-4:40	KSO 1430	Des Moines, Iowa
5:20-5:40	KELD 1370	El Dorado, Ark.
5:40-6:00	KRBC 1420	Abilene, Texas
	February 10th	
3:20-3:40	WBLK 1370	Clarksburg, W. Va.
3:40-4:00	WJBC 1200	Bloomington, Ill.
4:10-4:30	KAWM 1500	Gallup, N. M.
5:10-5:30	KTRB 740	Modesto, Calif.
	February 11th	
5:00-5:20	KIUN 1420	Pecos, Texas
	February 12th	
4:20-4:40	KSTM 1310	El Paso, Texas
	KRCL 1390	Lewiston, Idaho
4:40-5:00	KCMC 1420	Texarkana, Texas
5:00-5:20	KGFF 1420	Shawnee, Okla.
5:20-5:40	KFRO 1370	Longview, Texas
	February 14th	
3:40-4:00	WSMB 1320	New Orleans, La.
4:00-4:20	WCAP 1280	Asbury Park, N. J.
5:00-5:20	WFOY 1210	St. Augustine, Fla.
	February 15th	
6:00-6:20	KGTW 1310	Kearney, Neb.

RADEX is indeed grateful to these stations for dedicating their frequency checks to our legion of readers, and it is hoped that DXers will express their appreciation by card or letter.

Rules for DXing

"Several times in the past," recalls Richard W. Fales, P. O. Box 209, Roslyn Heights, N. Y., "you have printed letters from DXers who attempted to set a standard for DXing. I don't think that it can be done. Personally, I DX entirely

for my own pleasure, and if I want to count a change in call or frequency as a new station, I'm going to do it. And I know a good many other DXers feel this same way about it."

Right indeed is DXer Fales' contention that each listener tunes for his own pleasure and, accordingly, will pursue his hobby in the manner which gives him the greatest satisfaction. If a dialer wishes to count a new catch every time a station changes call, power, frequency, or location, that is his prerogative. If he decided to throw away a verification when a station is deleted or makes one of these changes, who shall question his right to do so.

The only catch is that it is impossible, under such a system, for one listener to make an accurate comparison of his log with that of another DXer. Both dialers might have heard the same number of stations over a period of years, but the listener who counts changes is going to have a lot more stations listed than the chap who counts only the active broadcasters.

Perhaps the only time definite rules can be laid down is during a contest, when it is imperative that every contestant participate on an equal footing. And as many of us have learned, even contests cannot be conducted without complaints that regulations favor listeners in a particular geographical location.

Reports and Resumes

"Although the DX season is yet young, my results so far indicate that I have a very good chance to surpass my record of last year," announces R. A. Butts, Box 138, Easton, Wash. "Last season I scored 386 stations for a total mileage of 646,219 miles. So far this season, I have logged 322 stations for a total of 599,575 miles.

The average mileage per station last year was 1674, while the average this year is 1862 miles per station."

"I have purchased a new 7-tube Lafayette receiver," contributes Peter A. Clarius, 11 Marianne St., Port Richmond, Staten Island, N. Y., "and with the help of the November frequency checks have boosted my log to 536 heard and 432 verified. Twenty-two new stations were heard this month."

"I have been DXing for about three months," asserts Kyle C. Bonifield, 519 Asbury Ave., Asbury Park, N. J., "with a four-tube Air King receiver. In that time I have logged some 60 stations in the United States and a half dozen in Mexico and Cuba. So far I have not sent for any verifications, but soon I hope to get a more powerful receiver and will do some real DXing."

"I only started DXing last April," admits Leon Grossman, 52 O. K. Terrace, Rochester, N. Y., "and I now have logged a total of 168 BCB stations. I began verifying in September, and have since reported to 52 stations, of which 37 have verified."

"Verifications to date total 603," reports J. Edw. Diehm, Jr., 632 Beech St., Pottstown, Pa., "and I expect to go after some more during the next frequency checks. However, even when the weather is clear and cold, reception isn't what it should be. Outside of Rennes, the TA's aren't coming in at all."

Station KZIB on 900 kcs has advised a member of the N.Z. DX Radio Association that they have a shortwave station under construction, but no other details were given. KZIB is located in Manila, Philippine Islands.

The MYSTERY Bands

• • • By CHRIS DAVIS JAFFÉ

THE ultra short waves are a new field of radio, a vast, almost unexplored field, and until a few years ago just a hissing void that had never been disturbed by a signal. They are, to say the least, very mysterious in both their properties and their coverage. We shall first consider the longer of the ultra high frequencies. The 20 megacycle (13 meter) broadcast band is doubtless familiar to the majority of short wave listeners who have good equipment. This band has two of the characteristics of the ultra short waves. Namely, it causes the reception of stations within its limits to be sporadic during some seasons of the year. Signals from a station on the 13 meter band are received only in the immediate vicinity of the station or at points a thousand or more miles from the station.

As we venture further downward into the ultra short wave spectrum we find the 10 meter amateur band. Excellent long distance reception can be had during the daylight hours of the fall and winter and during the early evening hours of the late spring and summer. Sunrise and sunset are excellent times for long distance DX. The characteristics of the 10 meter band vary from year to year. Just as an example, every continent on the earth was logged within the course of a day at the writer's listening post. At 7:13 A.M. we logged VU2CQ in India, thus getting Asia; by 10:00 A.M. GM6RG in Scotland and W6ITH in California were heard, adding the two continents—Europe and North America; at a few minutes past noon ZU6P in South Africa was heard; and at 6:10 P.M., LU9BV in South

America. We logged Australian VK2GU at 8:30 P.M., making every continent in one day. This is not unusual on the 10 meter band. It may be repeated again and again. Another factor that contributes toward the logging of DX on 10 meters is the lack of QRM. There are two reasons for this; first, on 10 meters there is no crowding, the band being very wide. Another reason is that signals are seldom received from more than two U. S. districts at one time. For example, at a certain time when only the W6 and W7 call areas were being heard well on 10 meters, the W1, W3, W4, W8, and W9 districts were all heard on 20 meters.

As we go on down to even shorter wave-lengths we find numerous and widely diversified types of stations. Broadcast relay stations will be heard with true high fidelity. Television and the sound accompaniment to it and two way police radio-telephones are heard in the territory adjacent to 7½ meters, many cities having recently installed them. Among the numerous other services given allocations in this region by the Federal Communications Commission are fire departments, forest ranger stations, aircraft, experimental and ship to shore. Next we find the 5 meter amateur band where, theoretically, reception is limited to the horizon. To disprove this the author has a letter from the Chief Engineer of the British Broadcasting Corporation confirming his reception of the sound accompaniment to the Television transmissions from London on the ultra short wavelength of 6 meters. A short wave listener recently heard an Australian Amateur on 5 meters and

received a verification of his reception. This SWL was in England, which is a great distance from Australia.

By keeping an accurate log of our reception on the ultra high frequencies we may do much to aid in the research that is being done to determine the possibilities of this spectrum.

An efficient antenna system and a sensitive receiver are prerequisites for good ultra high frequency reception. If we combine these with the essentials of patience and perseverance, who knows but that some morning an Englishman's "test DX" will come through on five meters.

The very uncertainty of the ultra short waves should be a challenge to us all. Another advantage of the ultra short waves is the fact that as listeners are sparse the stations actually need reports to determine their coverage. Perhaps they even study a listener's report and file it away for reference instead of relegating the report to the wastepaper basket.

The international allocation of wavelengths on the short wavebands, the synchronisation of two or more stations on the same frequency, and the compiling of a dictionary of technical and non-technical terms used in broadcasting are among the questions arranged for discussion at the half-yearly meeting of the International Broadcasting Union (*L' Union Internationale de Radiodiffusion*) which was held at Nice, France, last December.

This meeting of the U. I. R. is of particular importance in that the conclusions reached by the various programme and technical committees will be the basis of propositions to be brought forward at the Telecommunications Conference at Cairo next year.

The Northern Messenger

HAVE you listened to the CBC Northern Messenger on Saturday nights at 11:00 p.m., EST? If you have, you have heard only the final stage of a week of hectic activity which the program demands if it is to operate smoothly and efficiently.

Sydney S. Brown who, besides taking his trick at the microphone with letters and announcements, directs the service, states that the duties he performs on the Saturday evening broadcasts are mere recreation to what has gone on before.

His desk at the headquarters of CBC in Ottawa holds a pile of letters from all parts of Canada and many foreign countries. These are communications for transmission on the Corporation's weekly service to the north. They are first attacked with a blue-pencil, all superfluous remarks being deleted, until the message has been pared down to the allowed four lines, or as near to it as possible. As time is short, and "the show must go on," many are the split second decisions to be made, such as: which should be left in—a breathless announcement that "Baby John is sprouting a new tooth"? or the news that "Sister Mary has the Mumps"? However, the heavy volume of letters to be handled does demand that messages be ruthlessly edited.

Place names, too, must be checked and those messages directed to points served by telegraph or radiograph are weeded out.

After the letters have been sorted and edited they are whisked to the stenography department where the flying fingers of a battery of typists neatly transfer each message on a separate sheet of paper. The typing

is double spaced and letters are capitalized so that the announcer may read with a minimum of difficulty.

The messages, thus prepared, are then filed alphabetically and on Saturday afternoon they are delivered to CBO, the Corporation's studios in Ottawa, where they are counted off in batches of thirty. They are studied by the announcers who familiarize themselves with the contents and with the sometimes difficult place names, of which "Kugaryuak" is a sample. Three announcers, besides Mr. Brown, participate in the broadcast, each one reading thirty messages before being relieved.

Scrapbook

(Continued from page 5)

they laughed and laughed and laughed.

And so J. Imaginary Stationgetter lived unhappily ever after, for he was never allowed to forget the time he heard a station that didn't exist.

A Solution

Cases such as this are familiar to many of our readers. Frequently in the past, "magazine DXers" have made a sad error in the selection of a station to report, and have come to regret their failure to establish definitely a transmitter's identity.

Commenting on the problem, Alan Hutchison, Editorial Secretary of the New Zealand DX Radio Association, writes: "I notice that you are in the habit of listing calls when the construction permits only have been issued. This leads to guess-work on the part of your local DXers, and I know that one Australian received over a dozen reports long before the work on the station was commenced. The result of this was that all DXers received a black mark.

I think you would be wiser not to list our stations until they are actually broadcasting."

Such a policy undoubtedly would eliminate reports to non-existent stations, but to this old alarm-shutter-offer, it seems likely that this would hurt the listener who was able to hear the first few broadcasts and had no clue to the station's identity. The time taken while news of an opening travelled from Australia and finally got into print in this country, could easily add up to two or three months. And in the meantime, DXers who heard the station, and even identified the call and location, would have no basis for a report.

Granting that even this condition is better than having a flock of phantom reports crossing the Pacific, a compromise might cover both sides of the question.

Instead of ignoring announcements of new transmitters, suppose we list in italics *all stations with construction permits*. The DXer who turned to our indices for help in identifying a station, would be forewarned that the station so indicated probably was only in the process of construction. This would head off any possibility of a rash report, while at the same time, it would offer a clue to a transmitter which had just come on the air.

Of course, when confirmation is received that a station actually is in operation, the italics would be removed and regular type substituted. In the meantime, chances of mistakes would be minimized.

Construction of three new stations is completed. KWNO Winona, Minn., 1200 kcs, made its debut on Jan. 9. WTOL in Toledo and WBRK in Pittsfield are scheduled to start transmitting on February 1.

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		950	WRC	Washington, D. C., to 1000 (5).
NEW		1000	CMBZ	Havana, Cuba, to 5000
540	ZNS Nassau, Bahamas. Superintendent of Telegraphs, Box 48	1110	CMCJ	Havana, Cuba, to 5000
630	..... Havana, Cuba. "La Voz del Aire," S. A.	1170	CMBD	Havana, Cuba, to 5000
670	XERO Chapultepec, D. F.	1190	WATR	Waterbury, Conn., to 250
680	CMBQ Havana, Cuba. Rufino Pazos	1240	KLPM	Minot, N. Dak., to 500 (1).
730	CMCL Havana, Cuba. "Radio City."	1250	WCAL	Northfield, Minn., to 5000
	XERB Rosarito Beach, B. Cfa.	1310	WLB	Minneapolis, Minn., to 5000
770	CMBF Havana, Cuba. Cia. Cubana de Radio y Television, S. A., Edif. La Metropolitana 732		KINY	Juneau, Alaska, to 250
1110	CMCH Havana, Cuba. Leonardo Cano		WOL	Washington, D. C., to 1000
1210	WHA1 Greenfield, Mass. John W. Haigis	1340	WCOA	Pensacola, Fla., to 1000
1310	KPBM Poplar Bluff, Mo. Fields McCarthy Co.	1350	CMCA	Havana, Cuba, to 5000
1370	WLLH Lawrence, Mass. Merrimac Brdcastg. Co., Inc.	1410	CMCQ	Havana, Cuba, to 5000
1420	..... Kenora, Ont.	1420	KABR	Aberdeen, S. Dak., to 500 (1).
FREQUENCY		1430	WBNS	Columbus, Ohio, to 1000 (5).
600	CMQ Havana, Cuba, from 880	1490	KFBK	Sacramento, Calif., to 10000
720	CMK Havana, Cuba, from 730	570	KGKO	Wichita Falls, Tex., to Ft. Worth
750	CMBL Havana, Cuba, from 710	PERMIT TO CHANGE LOCATION		
580	CMW Havana, Cuba, from 600	FOREIGN BROADCAST		
1110	CMCJ Havana, Cuba, from 1100	(Excluding Asia, which is listed complete in this issue)		
1140	CMCW Havana, Cuba, from 750	NEW		
1250	KIT Yakima, Wash., from 1310	300	.....	Moscow, U. S. S. R.
1380	CMCX Havana, Cuba, from 1030	722	.....	Lopkerkapel (Hilversum) Netherlands
POWER		890	5AN	Adelaide, S. A.
880	CFJC Kamloops, B. C., 1000 from 100	1370	6GE	Geraldton, W. A.
980	XEAC Tijuana, B. Cfa., 5000 from 1000	1400	2PK	Parkes, N. S. W.
1140	CMCW Havana, Cuba, 500 from 100	1070	2RG	Griffith, N. S. W., from 1470
1250	KIT Yakima, Wash., 250 from 100	1050	2CA	Canberra, F. C. T., 2000 from 500
1450	CFCT Victoria, B. C., 500 from 50	1070	2RG	Griffith, N. S. W., 100 from 50
NETWORK		1131	SBH	Horby, Sweden, 100,000 from 10,000
580	CKUA Edmonton, Alta., new CBC			
910	CBF Montreal, P. Q., new CBC			
930	WBRC Birmingham, Ala., Red from CBS			
1030	CFCN Calgary, Alta., new CBC			
1140	WAPI Birmingham, Ala., CBS from Red			
1370	WHLB Virginia, Minn., new CBS			
OWNER				
590	WOW Omaha, Nebr. Woodmen of the World Life Insurance Society, 4th and Farnum			
720	CMK Havana, Cuba. Radiodifusion O'Shea, Apartado 770			
DELETE				
840	CRCT Toronto, Ont.			
1140	CMBG Havana, Cuba			
PERMIT TO CHANGE FREQUENCY				
1190	WATR Waterbury, Conn., to 1290			
1240	KLPM Minot, N. Dak., to 1360			
1250	WCAL Northfield, Minn., to 760			
	WLB Minneapolis, Minn., to 760			
1310	KINY Juneau, Alaska, to 1430			
	WOL Washington, D. C., to 1230			
1420	KABR Aberdeen, S. Dak., to 1390			
PERMIT TO CHANGE POWER				
570	CMCY Havana, Cuba, to 10000			
590	WKZO Kalamazoo, Mich., to 250 (1).			
770	CMBS Havana, Cuba, to 5000			
810	CMCF Havana, Cuba, to 5000			
880	CMW Havana, Cuba, to 5000			
	WCOC Meridian, Miss., to 1000			
900	KGBU Ketchikan, Alaska, to 1000			
920	CMX Havana, Cuba, to 10000			

Television on Wheels

The first mobile television station in America rolled into Rockefeller Plaza December 12 and, in historic ceremonies in the shadow of NBC's Radio City studios, was presented to engineers of the National Broadcasting Company by the RCA Manufacturing Company.

The new unit, consisting of two modern motor vans containing television control apparatus and a micro-wave transmitter, will soon be used in experimental television pick-ups of outdoor news events. NBC engineers will operate the unit in connection with the present NBC television transmitter atop the Empire State Tower.

(Please turn to page 47)

The Stamp Corner

● ● ● *By David Brockton Browne*

AS WE enter the month of February, we know that many of our readers are beginners in the art of stamp collecting. To them we dedicate this column—we welcome them—for it is the newcomers—the life-blood of any hobby—who will perpetuate it.

Every beginner wonders just how to proceed once he has started—we wish we could tell him—but philately is a personal hobby—in which each may express his individual desires and ambitions to suit his own tastes. All we can suggest is to gather as many stamps as possible—in as good condition as you can—study them—learn something about why the stamp was issued and about the country that issued it. Should you choose to have a general collection—before you know it—you will have the basis of a worthwhile collection. If, on the other hand, you decide to specialize on a certain country or type of stamps, those extra stamps that you have gathered will prove to be fine duplicate material to exchange with other collectors.

The successful philatelist who really obtains the greatest benefits from his hobby is the one who considers the forming of a collection a diversion—a happy pastime—and not merely a dollars and cents proposition from which to reap financial rewards later on—perhaps. He does not spend more money or time than he can reasonably afford. In other words, he masters the hobby—the hobby does not master him—to the exclusion of all his other interests. His dividends are untold pleasures and the unfolding of new horizons—broader visions—and greater knowledge.

A Stamp Program

A message from America's No. 1 stamp collector, President Roosevelt, was read by Postmaster General Farley to inaugurate a series of weekly broadcasts by the National Federation of Stamp Clubs, over the NBC Red Network.

The new series, titled "Calling All Stamp Collectors," is presented on Saturdays from 5:30 to 5:45 pm, EST.

Important personages who make a hobby of stamp collecting will be guests on these programs. Among those to be heard are Lauritz Melchior of the Metropolitan Opera, and Adolph Menjou, screen star.

New Issues

It is expected that the ½d and 1d New Zealand regular issue will be replaced by new stamps portraying King George VI. The stamps are scheduled to appear not later than May, 1938.

The Franz Hals painting, the famous "Laughing Boy" is the subject of the 1937 Netherlands Charity stamps. These beautiful stamps are issued in the following values and colors; 1½c plus 1½c slate; 3 plus 2s green; 4c plus 2c reddish brown; 5c plus 3c blue green; and 12½c plus 3½c deep blue.

France has really reached the zenith in the miniature sheet fad. The French postal administration has issued a series of twenty-four miniature souvenir sheets—one for each of the French colonies which recently issued a special set for the French Exposition at Paris. All sheets have the same face value—3 francs—and are arranged horizontally. Each sheet has a design appropriate to the colony—there being six different designs in all.

In accordance with the decision of the Netherlands government, all postal issues of Curacao have been demonetized with the change in

name of the colony to Dutch Antilles recently.

As we write this, the 1938 stamp program of the United States has not yet been announced. But we assure our readers that, in general, it will follow the schedule announced in this column in last month's issue. Nothing new has transpired to change that picture—as yet. Our next column should contain definite information.

Donald C. Truax, 539 Woodlawn Ave., Aurora, Ill., wants to correspond and exchange unused stamps with DXers outside the U.S.A.

We sincerely thank all our many kind readers for their expressions of approval. The support and co-operation of each of you is appreciated. Just keep your questions—your opinions—and your suggestions—rolling into the RADEX office—so that your Stamp Editor will know your desires—and what subjects you want discussed here most.

As Jim Seeley of Saranac Lake, N. Y., says; "My reaction to RADEX' new stamp column has been to dust off the Old Album—also the desire to catch up with the many beautiful new U. S. commemorative stamps."

We hope that many of you will follow Mr. Seeley's good example—dust off your album—or if you haven't one as yet—visit your nearest stamp shop—and make an investment that will be rich in pleasures—contentment—and new information. Next month we really will try to tell you all about the different types of stamp collecting—and it's allied hobbies. Until then—best of good wishes—and may each day bring a delightful addition to your stamp album and a new "catch" over the airwaves. Sunny Days.

Scanning the AMATEUR BANDS

● ● ● By B. L. Ahman, Jr.

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

SOME of the boys throughout the country seem to be enjoying very good success with the 20 meter hams, but here in the east reception has never been worse. On only one night during the month, the band "opened up" and long skip seemed to be in effect. On this night, only Argentinians, Ecuadorians and other South Americans were heard, along with a flock of W7's. Among the catches at 9:00 pm. were LU1DA, HK1JN, HI3N, LU2A, XE1LF, and PY2CK.

HC1JB on 14420 kcs, just out of the band, uses the slogan "Radio Rodante" when relaying programs of HCJB. The address is Casilla 691, Quito, Ecuador, and they request listeners to send a dime for verification in lieu of the usual Reply Coupon. QSL's from this station usually require from two to three months.

William Kurak of Chisholm, Minn. says that the NBC has already verified his report on VP3THE, the Terry-Holden Expedition in the wilds of British Guiana. Verification requests for this station can be sent to the NBC, Rockefeller Plaza, New York City, or to Orrin Hungerford, Radio Operator of the Expedition, in care of station VP3BG or VP3MR, Georgetown, British Guiana.

Jack Siringer reports that VP3BG



It's all in a broadcast's work with Robert Armstrong, maestro of the Chase and Sit-in Hour on the Red Network, to accompany Charlie McCarthy when Edgar Bergen's lamias dummy decides to join Nelson Eddy's Dorothy Lamour in song. This popular orchestra is heard Sundays from 8 to 9 pm, EST.

uses the call VP3XYZ when operating as an amateur station. Thanks for information on VP3THE are also due to Richard M. Carter, Jack Welsh, M. C. Smith, Jack Sanderson and others.

Concerning expeditions, we learn that W10XRA will have 500 watts, and will be located at Hollandria, Surinam (Dutch Guiana). The IDA assumes that a PK6 call will be assigned later.

OX2QY at Reindeer Point, near Etah, Greenland, is still holding its own. Are you still hearing it? This expedition, it is understood, is sponsored by the Carnegie Institute at Washington, D. C., and there is a chance that verifications may be available through them.

M. C. Smith of Cleveland sends in a nice catch this month. It is VS7GS on 14100 kcs., heard at 7:30 am., EST, on a regular schedule every Wednesday and Sunday morning

with HI5X. He also reports VP6D. Has anyone heard this station? We have cards from VP6FO, VP6YB, VP6TR, but we have never heard VP6D. Two other new ones reported by Mr. Smith are HC8FQ, 14300 kcs., and HA4AD, 14150 kcs. Do you have them in your log?

The North Pole station, UPOL on 14400, uses both phone and cw.

A new QRA, not yet in the Call Book, is supplied by Leo Herz, GCDXC. It is OA4AL, Albert and Henry Gildred, P. O. Box 1915, Lima, Peru. Leo also lists the following new stations. PY1FR, PY2FF, LU1CA, VP6NW and K6MTE

Venezuela has made a sudden spurt in our QSL collection. Recent arrivals are YV4AK, YV4AV, YV4AB (LF), YV5AE, and from Argentina, LU4KA in Cachi Yaco.

Mr. A. P. Morrison of Wellington, New Zealand, heard VK2NO, Bronte, NSW, Australia, on 5 meters. This is the first time 5 meter signals have been heard across the Tasman Sea. Mr. Morrison has been tuning the shortwaves for twenty one years.

A. I. Breen, New Zealand, tells us that ZL amateurs are now permitted to work on 20 meter phone. The New Zealand Post and Telegraph Department has OK-ed the use of the band 14150 to 14250 kcs., between midnight and 7 am., local time.

The Australian amateurs have been granted permission to increase power to a maximum of 50 watts. Only 25 watts was formerly allowed.

Many thanks to Edward Hughes, Francis McDonald, Hadley Wilcox, Earl Roberts and others for help this month.

Addresses

We list below the call letters, the frequency and the address when known of every amateur station mentioned in these columns. Addresses will not be repeated, however, so readers are urged to keep

these columns for future reference.
 HC1JB, Clarence W. Jones, Casilla
 691, Quito, Ecuador (14420).
 VP3THE, c/o The National Broad-
 casting Co., Rockefeller Plaza,
 New York, N. Y. ((13740).
 YV4AB, Jose Antonio Burgos, Con-
 stitucion 398, Valencia, Vene-
 zuela (LF).
 YV4AK, Juan B. Moreno L., Diaz
 Moreno 147, Valencia, Venez.

EJE (j); EJF (k); ENY (j); SA (k); UG
 (j); UY (j); XG (j); K6-: BAZ (i); BHL
 (i); BNO (j); BNR (f); CMC (f); HZK
 (i); JLV (j); KMB (a); KPF (i); MTE
 (i); NZF (g); NZQ (k); TNT (j).

L

LU-: 1DA (f); 1EX (k); 4BH (k); 4DH
 (j); 5CZ (i); 7AG (k); 8AB (i); 9PA (e).

N-O

NY2AE (ek); OA4-: AI (j); AK (j); AL
 (cf); AT (j); C (ajkm); L (j); N (k); R
 (j); RE (j); ON4-: AZ (j); MD (m);
 RY (j); XX (j); OX2QY (aejkm).

P

PAOAD (m); PK1GL (m); PK2VD (m);
 PY-: 1FR (e); 2EA (h); 2FX (f); 2HA
 (k); 2KX (k); 7AI (e).

S

SM5SV (m); SM7YA (m); SU-: 1CH
 (em); 1SG (cm); 8MA (k); SV1KE (e).

T

TI-: 2AV (eim); 2DC (k); 2FG (m);
 2LR (f); 2RC (gk); 3AV (k).

V-W

VK2-: ADE (j); AZ (jkm); DK (j); HF
 (j); IQ (j); JV (j); LZ (f); OG (k); TC
 (j); VC (j); VK3-: AG (k); AL (e); BI
 (j); GG (j); HJ (j); KI (j); KR (k); KX
 (j); MR (b); MX (j); NR (j); WD (e);
 XU (j); ZB (k); VK4-: JU (k); VD (j);
 VK5TR (k); VK6MW (bjkm); VK7C
 (m); VO-: 1I (k); 1Y (f); 2N (m); 2Z
 (km); 5B (m); 6D (jkm); 6J (jm); 6JQ
 (e); VP-: 2BG (k); 2DA (hkm); 3BG
 (ej); 3GB (k); 3THE (aejkm); 3XYZ
 (m); 4TH (k); 5AA (j); 5AC (j); 5AF
 (ej); 5AG (k); 5AS (j); 5AW (j); 5CW
 (j); 5FI (j); 5GN (j); 5PZ (jk); 6YB
 (k); 7NA (k); 9G (jm); 9R (jk); VS7GJ
 (djm); W1OXAB (g).

X-Y

XE-: 1BC (ik); 1BT (k); 1F (i); 2AH
 (i); 2FC (k); 2HA (i); 2IY (m); 3AR
 (k); 4BJI (k); YN1HS (m); YV-: 3LV
 (j); 4AA (f); 4AB (dk); 4AN (j); 5AA
 (fjkm); 5ABF (fk); 5ABT (k); 5ABY
 (f); 5ACC (k); 5AE (h); 5AM (k);
 5BC (j).

Z

ZS2N (f); ZS5M (dk); ZT5S (d); ZT6AL
 (d); ZU1AX (d); ZU6AF (dk); ZU6P
 (dfm).

The Reporters

- (a) Richard Carter, 1064 Everett Ave.,
Louisville, Ky.
- (b) A. V. Deterly, 211 Convention St.,
Baton Rouge, La.
- (c) Ben Follrath, 1419 Pearl St., Ala-
meda, Calif.
- (d) Raphael Geller, 1652 Radcliff Ave.,
Bronx, N. Y.
- (e) F. W. Hoxie, South Orrington, Me.
- (f) Wm. Kurak, Box 243, Chisholm, Minn.
- (g) Francis McDonald, 215 E. 34th St.,
Tucson, Ariz (Philco 630T).
- (h) Martin Olthoff, 212 N. 16th St., In-
dependence, Kans. (RME69).
- (i) Dale Smith, Eugene, Ore. (Sky
Buddy).
- (j) M. C. Smith, 2974 E. 67th St., Cleve-
land, Ohio
- (k) Jack Welsh, Kingston, Ill.
- (l) Wm. J. Wood, Jr., 817½ Lake St.,
Oak Park, Ill.
- (m) Jack Siringier, 1451 Lincoln Ave.,
Lakewood, Ohio.

Amateur

CALLS HEARD

The names and addresses of per-
 sons reporting stations shown in
 this list are indicated by small let-
 ters 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 re-
 ported by listeners not resident in
 North America. Cuban calls are
 not listed when heard by listeners
 in United States or Cuba.

C

CE1-: AH (j); AL (j); AO (jk); AR (k);
 CE2EW (j); CE3AA (f); CE3DW (j);
 CN8-: AJ (bm); MB (d); CP1AA (ak).

E

EASAE (jk); EASAK (d); EA9AH (k);
 EI2L (j); EI3J (j); EI9J (m).

F

FB8AB (k); FE8XB (j); F3-: CP (j); GS
 (j); HZ (j); JD (ej); OO (m); F8-: BU
 (d); II (j); KW (e); LZ (e); TW (j);
 XT (gm).

G

GI2CC (m); GM5ST (e); GM6-: GO (j);
 OR (j); RB (j); RG (j); G2-: AK (j); AV
 (m); BB (j); CU (j); HK (ej); IN (j); KL
 (k); MA (k); MS (j); NM (j); PU (jm);
 RC (j); RS (e); UV (j); XV (j); XY (e);
 G5-: BJ (j); BM (j); CV (e); DF (j); FA
 (j); FG (j); FT (j); GO (j); GT (j); GW
 (j); JA (j); JL (j); JO (j); KG (j); LU
 (ej); MA (k); ML (jk); NA (j); NI (jk);
 TZ (ej); ZJ (e); G6-: AG (ej); IA (m);
 RH (e); VX (k); WT (ej); WX (ej); XL
 (j); XRX (j); ZI (e); G8-: IX (ej); LR
 (j); MA (e); MI (j); MY (e).

H

HA4AD (j); HA8N (m); HB9BL (m);
 HC1FG (ik); HC1JB (fk); HC8FQ (j);
 HH-: 1A (j); 2A (j); 2B (ajk); 2LD
 (e); 2X (dl); 5PA (ijk); HI-: 1C (j);
 2X (j); 3N (jm); 4F (j); 4JL (j); 4M
 (j); 5X (afj); 6O (j); 7G (fjk); HK-:
 1Z (e); 3JA (f); 4AG (k); 5JS (k); HP1A
 (k); HP5A (l); HR5C (m).

K

KA1HS (m); K4-: BSE (j); DDH (j);

THE BROADCASTING STATIONS OF ASIA

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

540	RW54	....	Khabarovsk, U.S.S.R.	882	VUD	20000	New Delhi, India
556	RW52	....	Tchita, U.S.S.R.	890	JOLG	500	Tottori, Japan
560	MTCY	10000	Hsinking, Manchukuo		MTBY	1000	Mukden, Manchukuo
	XGOG	10000	Chengtu, China		XGKA	15	Kashing, China
	XLHB	45	Shanghai, China	900	XGOI	500	Shanghai, China
570	XHJA	100	Hankow, China	910	JOLK	500	Kukuoka, Japan
580	JFCK	1000	Taichu, Formosa		XLIM	50	Amoy, China
	XQHA	250	Shanghai, China	920	JOQK	500	Niigata, Japan
590	JOAK1	150000	Tokyo, Japan		XHHX	1000	Shanghai, China
	XGLD	....	.....	930	JOAG	500	Nagasaki, Japan
	XHKB	100	Tsingtao, China	940	JOBK2	10000	Osaka, Japan
600	JONG	500	Miyazaki, Japan		XHHE	1000	Shanghai, China
	XMHA	600	Shanghai, China	950	JONK	500	Nagano, Japan
610	JOJK	3000	Kanazawa, Japan		XGOP	300	Peiping, China
	XGSS	15	Tsunshi, China	960	XHHF	1000	Shanghai, China
620	XHHK	100	Shanghai, China	970	JODK1	10000	Seoul, Korea
630	JOJK	500	Okayama, Japan		XHIB	75	Wush, China
635	RW28	800	Vladivostok, U.S.S.R.	980	JOXK	500	Tokushima, Japan
640	JODG	500	Hamamatsu, Japan		XMHB	500	Shanghai, China
	XLHG	100	Shanghai, China	990	JOCK2	10000	Nagoya, Japan
	ZEK	500	Hong Kong		XGCK	75	Chuching, China
650	JOUK	300	Akita, Japan		XGOD	2000	Hangchow, China
660	XGOA	75000	Nanking, China	1000	JOBG	500	Maebashi, Japan
668	....	20000	Jerusalem, Palestine		XGKE	5	Nanchang, China
670	JOTK	500	Matsuye, Japan		XGMK	15	Poatung, China
674	MTFY	3000	Harbin, Manchukuo		XGOT	50	Taiyuan, China
680	JOVK	500	Hakodate, Japan		XKRI	100	Canton, China
690	JOBK1	10000	Osaka, Japan	1010	XGOW	5000	Hangkow, China
	XGOY	250	Kunming, China	1020	JOFG	300	Fukui, Japan
700	JOCG	700	Ashigawa, Japan		XHHG	100	Shanghai, China
	VPG	5000	Colombo, Ceylon	1030	JBAK	150	Fusan, Korea
	XMHC	500	Shanghai, China		XGOL	1000	Foochow, China
710	JODK2	10000	Keijo, Korea	1040	JOJG	500	Yamagata, Japan
	XGML	7500	Kashing, China		XHHH	100	Shanghai, China
	XGOS	1000	Chunking, China	1050	JOHG	500	Kagoshima, Japan
720	JFBK	1000	Taiwan, Formosa		XHIE	100	Wush, China
	JORK	500	Kochi, Japan		XHKA	200	Tientsin, China
	XLHC	50	Shanghai, China	1060	JOIG	500	Toyama, Japan
730	JOCK1	10000	Nagoya, Japan		XHHI	100	Shanghai, China
	XHGS	50	Wuchow, China	1070	JOOK	300	Kyoto, Japan
740	JOJK	1000	Kokura, Japan		XGOQ	200	Kaifeng, China
	XHHB	50	Shanghai, China	1080	JOOG	500	Obhiro, Japan
750	HS7PJ	15000	Bangkok, Siam		XHHJ	200	Shanghai, China
	JFAK	10000	Taihoku, Formosa	1090	JBBK1	500	Keijo, Korea
	LUHO	20	T'ung Hsien, China		XLIO	25	Shaohing, China
	XGOK	1000	Canton, China	1100	XHHS	100	Shanghai, China
	XQKB	150	Tientsin, China	1110	XLIG	15	Kaoyu, China
760	JQAK	1000	Dairen, Manchukuo	1120	XLHM	50	Shanghai, China
	XLHI	7½	Shanghai, China		XLHN	200	Shanghai, China
	XLHJ	25	Shanghai, China	1130	XGOC	300	Nanchang, China
770	JOHK	10000	Sendai, Japan	1140	XHHL	100	Shanghai, China
	VUM	200	Madras, India	1150	XGOZ	1000	Shinkiang, China
	XHID	75	Ningpo, China	1160	XHHU	100	Shanghai, China
780	JOJK	500	Shizueka, Japan	1180	XHHZ	150	Shanghai, China
	XLHA	50	Shanghai, China	1200	VUL	100	Lahore, India
790	JOJK	10000	Kumamoto, Japan		XHHN	100	Shanghai, China
	XGOV	10000	Changsha, China	1210	XHXC	100	Tsingtao, China
	XLIJ	50	Wush, China		XLPH	15	Pinghu, China
800	JOJK	500	Kofu, Japan		XLTC	15	Wush, China
	XLHL	100	Shanghai, China	1220	XQHG	250	Shanghai, China
805	XGOF	500	Tsinan, China	1230	XLIR	50	Hangchow, China
810	JOJK	10000	Sapporo, Japan	1240	XHHY	100	Shanghai, China
	VUC	3000	Calcutta, India	1250	MABS	35	Tingshien, China
	XQKC	200	Tientsin, China		XLIE	50	Wush, China
820	JBBK2	500	Keijo, Korea	1260	XHHP	100	Shanghai, China
	XQHB	30	Shanghai, China	1270	XLIH	15	Wuhu, China
830	JOJK	10000	Hiroshima, Japan	1280	XHHQ	80	Shanghai, China
	XGF	7½	Tsinan, China	1290	XGOB	500	Tsinan, China
	XLII	30	Wuhu, China	1300	XQHC	2000	Shanghai, China
840	XMHD	1000	Shanghai, China	1310	XLIP	50	Suchow, China
845	ZBW	2000	Hong Kong	1330	XLIK	75	Changchow, China
850	XLIQ	50	Hangchow, China	1332	ZHL	....	Singapore, Straits Settlements
855	HSP1	2500	Bangkok, Siam				
	VUB	3000	Bombay, India	1340	XHHR	50	Shanghai, China
860	XHHD	50	Shanghai, China	1350	XGOE	1000	Nanning, China
870	JOAK2	150000	Tokyo, Japan		XQKA	150	Tientsin, China
	XHIC	75	Suchow, China	1360	XQHD	200	Shanghai, China
880	XHHV	100	Shanghai, China	1370	XLID	50	Hangchow, China

(Continued from page 41)

1380	XLHE	50	Shanghai, China
	XLHF	50	Shanghai, China
1390	XLIN	50	Wushih, China
1400	FFZ	250	Shanghai, China
	XLHO	100	Shanghai, China
1440	XLHQ	30	Shanghai, China
1450	XGOM	15	Peiping, China
	XLIB	15	Suchow, China
1460	XQHE	250	Shanghai, China
1470	XGDZ	10	Changchow, China
1480	XQHF	200	Shanghai, China
1490	XLKS	20	Kashing, China
1500	VUP	2000	Peshawar, India
	XHHT	100	Shanghai, China
	XOCL	7½	Tsinan, China

Televise News Events

Delivery of the NBC mobile television unit presages the most intensive activity in the history of American television. The National Broadcasting Company contemplates the experimental televising of outdoor sports, parades, scheduled news events and other subjects. After being relayed by micro-wave to the Empire State transmitter, the televised events will be broadcast throughout the Metropolitan area to receivers in the hands of NBC engineers and those built by radio amateurs.

The new mobile unit consists of two motor vans, each the size of a large bus, to be operated by a crew of ten engineers. One van contains complete pick-up apparatus, including cameras, for both picture and accompanying sound. A picture, or "video," transmitter to operate on a frequency of 177,000 kilocycles is mounted in the other. A special directional antenna, to be raised on the scene of operations, is used in connection with the mobile unit. In the Metropolitan area, where the steel framework of many skyscrapers impedes ultra-high frequency transmission, the normal working range of the new unit is expected to be about twenty-five miles.

The second van, connected to the first by 500 feet of coaxial cable, when in operation, contains a complete micro-wave relay transmitter. The principal apparatus here is the radio frequency unit, generating the carrier wave for picture signals, and modulating apparatus for imposing picture signals on this carrier. Because of the great amount of heat generated by some of the large vacuum tubes used in television, this vehicle contains an air-conditioning unit and a water cooler to maintain tubes at operating temperatures.

When Trouble Comes

(Continued from page 11)

of the dial. Readjustments are next in order. Sometimes, in an old receiver like this, it is best to realign it to some one portion of the dial where the best liked stations are heard, and then make no further adjustments. Of course, an experienced serviceman with a test oscillator available can do a much better job, particularly if the receiver gang unit has split or fan shaped end plates on the condenser. Sometimes these are cut into five segments for tuning five different frequencies—approximately 1100, 900, 700, 600 and 500 kilocycles. After aligning an old receiver it, in nearly every case, must be neutralized, and then the alignment must again be checked.

Neutralizing is accomplished by using a type 26 dummy tube which has one heater filament prong cut off so the tube cannot light when in the socket. A faint signal will come through if the neutralizing effect does not work. Balancing the plate circuit, by means of the neutralizing condensers cuts off the signal, and then the tube circuit is neutralized. Neutralizing commences with the last r-f tube. Replace a good tube and retune the dial to loudest signal. Remove the next to last r-f tube and insert the dummy. Neutralize that circuit until no sound is heard. Finish the job at the first r-f tube and insert the good tube.

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 KFRC KFXM KGB KGDM KHJ KPMC KQW KVOE KXO

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

Don Lee System, Sunday only

Same stations as at Midnight.

E-1:15 a.m., C-12:15, M-11:15 p.m., P-10:15

CBC—Daily

To CBC Pacific Network.

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 WDHO WDRC WEEI WESG WFLB WHIO WHP WIBX WJAS WJNO WKBW WLBZ WMAS WMBR WMMN 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 WFLB WFBM WHEC WHIO WIBX WJNO WJR WJSV WLBZ WMAS WMBR WMMN WBNF WOKO WORC WPAR WQAM WREC WSWA WSFA WSJS WTCO

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-Neon, 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 WMBR WERC WLAC WLBZ WMAS WMAZ

WMBD WMBR WMMN WNAH WBNF WNOX WOC WOKO WORC WPG WPRO WQAM WREC WRVA WSFA WSJS WTCO WWL WWVA

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 KSF 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.

KFHL KLRA KNOW KOMA KSCJ KSL KTRH KWKH WABC WACO WADC WAIM WALA WBIG WBRC WCCO WCOC WDAE WDBJ WDBO WDOD WHEC WISN WJAS WJNO WJR WKBW WKBW WLBZ WMAS WMBR WOC WORC WPAR WQAM WREC WSFA WSJS WTAQ WTCO WWVA

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 WBZA 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 WKBW 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

KOIL KSO KWK WBY 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 KFBK KFEL

KFSD KGA KGO KJR KLO KMJ

KOIL KSO KWK KXY WABY

WBAL WBZ WBZA WCKY WCOL

WEBR WFIL WHAM WJZ WMAL

WMPW WMT WOWO WREN WSPD

WSYR WTCN WXYZ

CBS—Tuesday only

KNX KSFO

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 except Saturday

To National and French Networks

Red—Friday only

KDYL KFI KGW KHQ KOA KOMO

KPO KSD KSTP KYW WBN WCAE

WCHS WDAF WDEL WEF WFBW

WGY WIRE WJAR WLW WMAQ

WNAC WOV 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 KSF

KSL KVI WFBM

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

Red—Sunday only

To all stations available

CBC—Saturday

To National and French Networks

The National Broadcasting Company

The stations which carry NBC programs are shown arranged by cities.

Red and Blue Networks

Albuquerque, N. Mex.	KOB	1180
Allentown, Pa.	WSAN	1440
Ashville, N. C.	WWNC	570
Amarillo, Texas	KGNC	1410
Bakersfield, Calif.	KERN	1370
Beaumont, Texas	KFDM	560
Billings, Mont.	KGHL	780
Bismarck, N. Dak.	KPYR	550
Boise, Idaho	KIDO	1350
Butte, Mont.	KGIR	1340
Charleston, S. C.	WCSC	1360
Charlotte, N. C.	WSOC	1210
Chicago, Ill.	WCFL	970
Cincinnati, Ohio	WLW	700
	WSAI	1330
Clearwater, Fla.	WFLA	620
Columbia, S. C.	WIS	560
Columbus, Ohio	WCOL	1210
Corpus Christi, Tex.	KRIS	1330
Covington, Ky.	WCXY	1490
Dallas, Texas	WFAA	800
Duluth, Minn.	WEBC	1290
Evansville, Ind.	WGBF	630
Fargo, N. Dak.	WDAY	940
Ft. Wayne, Ind.	WGL	1370
Ft. Worth, Texas	WBAP	800
Fresno, Calif.	KMJ	580
Grand Rapids, Mich.	WOOD	1270
Greenville, S. C.	WFBC	1300
Honolulu, Hawaii	KGU	750
Hot Springs, Ark.	KTHS	1060
Jacksonville, Fla.	WJAX	900
Knoxville, Tenn.	WROL	1310
Little Rock, Ark.	KARK	890
Louisville, Ky.	WAVE	940
Madison, Wis.	WIBA	1280
Manchester, N. H.	WFEA	1340
Medford, Ore.	KMED	1410
Miami, Fla.	WIOD	610
Milwaukee, Wis.	WTMJ	620
Montreal, P. Q.	CBF	910
Nashville, Tenn.	WSM	650
Norfolk, Va.	WTAR	780
Oklahoma City, Okla.	WKY	900
Phoenix, Ariz.	KTAR	620
Pittsburg, Kans.	KOAM	790
Raleigh, N. C.	WPTF	680
Sacramento, Calif.	KFBK	1490
St. Petersburg, Fla.	WSUN	620
San Antonio, Texas	WOAI	1190
Shreveport, La.	KTBS	1450
Sioux Falls, S. Dak.	KELO	1200
	KSOO	1110
Springfield, Mo.	KGBX	1230
Stockton, Calif.	KWG	1200
Terre Haute, Ind.	WBOW	1310
Toronto, Ont.	CRCT	840
Tulsa, Okla.	KVOO	1140
Weslaco, Texas	KRGV	1260
Wichita, Kans.	KANS	1210
York, Pa.	WORK	1320

Red Network

Atlanta, Ga.	WSB	740
Baltimore, Md.	WFBR	1270
Birmingham, Ala.	WBRC	930
Boston, Mass.	WNAC	1230
Buffalo, N. Y.	WBEN	900
Chicago, Ill.	WMAQ	670
Cleveland, Ohio	WTAM	1070
Denver, Colo.	KOA	830
Des Moines, Iowa	WHO	1000
Detroit, Mich.	WWJ	920

Hartford, Conn.	WTIC	1040
Houston, Texas	KPRC	920
Indianapolis, Ind.	WIRE	1400
Jackson, Miss.	WJDX	1270
Kansas City, Mo.	WDAF	610
Los Angeles, Calif.	KFI	640
Memphis, Tenn.	WMC	780
Montreal, P. Q.	CBM	1050
New Orleans, La.	WSMB	1320
New York, N. Y.	WEAF	660
Omaha, Nebr.	WOW	590
Philadelphia, Pa.	KYW	1020
Pittsburgh, Pa.	WCAE	1220
Portland, Maine	WCSH	940
Portland, Ore.	KGW	620
Providence, R. I.	WJAR	890
Richmond, Va.	WMBG	1350
St. Louis, Mo.	KSD	550
St. Paul, Minn.	KSTP	1460
Salt Lake City, Utah	KDYL	1290
San Francisco, Calif.	KPO	680
Schenectady, N. Y.	WGY	790
Seattle, Wash.	KOMO	920
Spokane, Wash.	KHQ	590
Washington, D. C.	WRC	950
Wilmington, Del.	WDEL	1120
Worcester, Mass.	WTAG	580

Blue Network

Albany, N. Y.	WABY	1370
Atlanta, Ga.	WAGA	1450
Baltimore, Md.	WBAL	1060
Baton Rouge, La.	WJBO	1120
Birmingham, Ala.	WSGN	1310
Boston, Mass.	WBZ	990
Bridgeport, Conn.	WICC	600
Buffalo, N. Y.	WEBR	1310
Cedar Rapids, Iowa	WMT	600
Chicago, Ill.	WENR	870
	WLS	870
Cleveland, Ohio	WHK	1390
Denver, Colo.	KVOD	920
Des Moines, Iowa	KSO	1430
Detroit, Mich.	WXYZ	1240
Erie, Pa.	WLEU	1420
Fort Wayne, Ind.	WOWO	1160
Houston, Texas	KXYZ	1440
Jamestown, N. Y.	WJTN	1210
Lawrence, Kans.	WREN	1220
Los Angeles, Calif.	KECA	1430
Memphis, Tenn.	WMPS	1430
Minneapolis, Minn.	WTCN	1250
Montreal, P. Q.	CFCF	600
New Orleans, La.	WDSU	1250
New York, N. Y.	WJZ	760
Ogden, Utah	KLO	1400
Omaha, Nebr.	KOIL	1260
Philadelphia, Pa.	WFIL	560
Pittsburgh, Pa.	KDKA	980
Portland, Ore.	KEX	1180
Providence, R. I.	WEAN	780
Pueblo, Colo.	KGHF	1320
Richmond, Va.	WRD	1500
Rochester, N. Y.	WHAM	1150
St. Louis, Mo.	KWK	1350
San Diego, Calif.	KFSD	600
San Francisco, Calif.	KGO	790
Santa Barbara, Calif.	KTMS	1220
Seattle, Wash.	KJR	970
Spokane, Wash.	KGA	1470
Springfield, Mass.	WBZA	990
Syracuse, N. Y.	WSYR	570
Toledo, Ohio	WSPD	1340
Washington, D. C.	WMAL	630

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 WSYR 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
WDRS WEAN WEEI WFBL WGR
WHCC WHK WJAS WJR WJSV
WKRC WOKO WSPD WTOC WVVV

R — Amos 'n' Andy

KSD KSTP KYW WBEN WCAE
WCSH WFAF WFBR WGY WHO
WJAR WLW WNAC WRC WTAG
WTAM WTIC WWJ

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

R — Uncle Ezra's Radio Station

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

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

B — Lum and Abner

WBZ WBZA WENR WJZ WLW
WMC WSM WSYR

M — The Lone Ranger

WFIL WNBF WSYR WOR WXYZ

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

C — Boake Carter

KMBC KMOXKOMA KRLD WABC
WBBM WBT WCAU WCCO WDRS
WEAN WFBL WGR WHAS WHK
WJAS WJR WJSV WKRC WNAC

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

R — Burns and Allen

CRCT KYW WBEN WCAE WCSC
WCSH WFAF WFBR WFLA WGY
WHO WIOD WIRE WIS WJAR
WJAX WLW WMAQ WNAC WPTF
WRC WRVA WSOB WTAG WTAM
WTAR WTIC 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 WDRS WEAN
WFBL WGR WGST WHCC WHK
WHP WICC WJAS WJR WJSV
WKRC WLBZ WMAS WNAC WOKO
WORS WSPD

R — Voice of Firestone

CFCF CRCT KFYP KPRC KSD
KSTP KTBS KVOO KYW WAVE
WBEN WCAE WCSC WCSH WDAF
WDAY WFAF WEBC WEEI WFAA
WFBL WFBR WFLA WGY WHO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSB WSM WSMB WSOB WTAG
WTAM WTAR WTIC 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 WICC
WJZ WLS WMAL WMT WOWO
WREN WSPD WSYR WXYZ

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

B — Philadelphia Symphony

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

C — Lux Radio Theater

CFRB CKAC KFAB KFH KFPY
KLRA KLZ KMBC KMOX KNOW
KNX KOH KOIN KOL KOMA
KRLD KRNT KSFO KSL KTRH
KTSR KTUL KVI WABC WADC
WBBM WBNS WBRC WBT WCAO
WCCO WDAE WDBJ WDRS WEEI
WFBL WFBM WGAR WGST WHAS
WHCC WHIO WIBX WISN WJAS
WJR WJSV WKBW WKRC WLAC
WMAS WMBD WNAX WOKO WORC
WPRO WQAM WREC WRVA WWL

R — Fibber McGee and Molly

KFYP KPRC KSD KSTP KTBS

KVOO KYW WAVE WBEN WCAE
WCOL WCSH WDAF WDAY WFAF
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
WSOB WSUN WTAG WTAM WTAR
WTIC 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 KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KVOO KYW
WAVE WBEN WCAE WCSH WDAF
WFAF 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 WTIC 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
WBEN WCAE WCSH WDAF WFAF
WEEI WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WKY
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSB WSM WTAG
WTAM WTAR WTIC WWJ WWNC

B — Warden Lewis E. Lawes

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

C — Wayne King and Orchestra

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

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 KFYP
KFBX KGHL KGIR KGNC KGO
KGW KHQ KMJ KOA KOMO KPO

MONDAY (Continued)

KPRC KSD KSTP KTAR KTBS
KVOO KWG WAVE WDAF WDAY
WEBC WFAA WIBA WJDX WKY
WMC WOAI WOW WSB WSMB
WTMJ

M — The Lone Ranger

KDB KDON KFRC KFXM KGB
KGDH KHJ KPMC KVOE KXO
Available also 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 KFBK KFPY KFRC
KGB KHJ KLRA KLZ KMBC KMOX
KOLN KOL KOMA KRLD KRNT
KSL KTRH KTSA KVI WBBM
WBRC WCCO WFBM WGST WLAC
WREC WWL

R — Amos 'n' Andy

KDYL KERN KEX KFBK KFI KGW
KHQ KMJ KOA KOMO KPO KPRC
KSD KWG WDAF WFAA WHO
WIRE WKY WMAQ WMC WOAI
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 KSFO
KSL KVI

B — Lum and Abner

KECA KERN KEX KFBK KFSD
KGA KGO KJR KMJ KWG

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 KSFO 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
KOM KRLD KRNT KTRH KTS
KWKH WABC WADC WBBM WBNS
WBT WCAO WCAU WCCO WCHS
WDAE WDBO WDOD WDRC WEEI
WFBL WGAR WGBI WGST WHAS
WHEC WHIO WIBW WISN WJAS
WJR WJSV WKRC WLAC WMAS
WMBR WOC WOKO WORC WPRO
WQAM WREC WRVA WWL

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 KSFO
KSL KVI WABC WBBM WCAO
WCAU WDRC 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 KVOO KYW WAVE WBAP
WBEN WCAE WCHS WDAF WDAY
WEAF WEBC WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

C — Edward Robinson; Claire Trevor

CFRB CFRB KFAB KFH KFPY
KIRO KLRA KLZ KMBC KMOX
KNOW KNX KOIN KOMA KRLD
KRNT KSFO KSL KTRH KTS
KTUL KVI WABC WADC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDRC WEEI
WFBL WFBM WGAR WGR WGST
WHAS WHEC WHIO WIBX WISN
WJAS WJR WJSV WKRC WLAC
WMAS WMBD WNAX WOKO WORC
WPRO WQAM WREC WRVA WWL

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

C — Al Jolson; Parkyakarkus
CFRB CRMC KFAB KFH KLRA
KMBC KMOX KNOW KOMA KRLD
KRNT KSCJ KSFO KSL KTRH
KTSA KTUL KVI WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ
WDRC WEEI WFBL WFBM WGAR
WGR WGST WHAS WHEC WHIO
WIBX WISN WJAS WJR WJSV
WKRC WLAC WMAS WMBD WNAX
WOKO WORC WPRO WQAM WREC
WRVA WWL

R — Wayne King and Orchestra

KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAP WBEN
WCAE WCKY WCHS WDAF WDAY
WEAF WEBC WEEI WFBM WGY
WHO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WOAI
WOW WRC WSB WSM WSMB
WTAG WTAM WTIC 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 CKAC KFAB KFH KGKO
KLRA KMBC KMOX KOMA KRLD
KRNT KSCJ KTRH KTSA KTUL
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBB WKBW WKWB WKRC
WLAC WLWB WMAS WMBD WMBG
WMBR WMMN WNAC WNAX
WNBW WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSPD WTOC WWL

R — Vox Pop; Sidewalk Interviews
KSD KYW WBEN WCAE WCKY
WCHS WDAF WEAF WEEI WFBM
WGY WHO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WWJ

B — Horace Heidt Orchestra

KANS KDKA KFI KFSD KGA KGO
KGW KJR KLO KOIL KPRC KSO

KTHS KVOD KWK WAVE WBAL
WBAP WBZ WBZA WEAN WEBR
WFIL WFLA WHAM WHK WICC
WIOD WIS WJAX WJZ WKY WLS
WLW WMAL WMC WMT WOAI
WPTF WREN WSB WSM WSMB
WSOC WSPD WSUN WSYR WTAR
WTCN WXYZ

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

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

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

C — Benny Goodman's Orchestra
KFAB KFH KFPY KGKO KIRO
KLRA KLZ KMBC KMOX KNOW
KNX KOIN KOMA KOY KRLD
KRNT KSCJ KSFO KSL KTRH
KTSA KTUL KVI KVOR KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCHS WDAE WDBJ
WDBO WDNC WDOD WDRC WEEI
WFBL WFBM WGAR WGST WHAS
WHEC WHIO WHP WIBW WIBX
WISN WJAS WJR WJSV WKBB
WKBW WKWB WKRC WLAC WLWB
WMAS WMBD WMBR WNAX
WNBW WNOX WOC WOKO WORC
WPG WPRO WQAM WREC WRVA
WSBT WSFA WSJS WTOC WWL

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

M — Eddie Duchin Orchestra

CKLW KALE KDB KRONA KELA
KFRC KFXM KGA KGB KGY KHJ
KIEM KIT KMO KOL KORE KPMC
KPQ KQW KRNR KSLM KVOE
KVOS KXO KXRO WGN WIP WLW
WNAC WOL WOR WRR

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

R — Jimmy Fidler Hollywood Gossip
KDYL KFI KGW KHQ KOA KOMO
KPO KSD KTAR KYW WBEN
WCAE WCHS WDAF WEAF WFBR
WGY WHO WJAR WLW WMAQ
WNAC WOOD 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-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Al Jolson; Parkyakarkus
KFPY KLZ KNX KOIN KOL KSFO
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 KSFO KSI,
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 WDRC WEEI WFBL
WGAR WGAI WGR WHEC WHIO
WIBX WJAS WJR WJSV WKBN
WKRC WLBZ WMAS WMBD WMOB
WORC WPRO WQAM WRVA WWVA
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 KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KRNT
KSL KVI KWG WABC WBBM
WBNS WCAU WCCO WDRC WEAN
WFBL WFBM WGR WHAS WHEC
WHK WJAS WJR WJSV WKRC
WLAC WMBG WNAC WOKO WTOC
WWL

R — One Man's Family
KDYL KFI KFYP KWG KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KTBS KTHS KVOO KYW
WAPI WAVE WBAP WBEN WCAE
WCSH WDAF WDAY WFAF WEBC
WEEI WFAA WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOI WOV WPTF WRC
WRVA WSB WSM WSMB WSOB
WSUN WTAG WTAM WTRT WTIC
WTMJ WWJ WWNC

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 KTSR KTUL KWKH
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEEI WFBL
WFBM WGR WGST WHAS WHEC
WHIO WHK WHP WIBW WIBX
WJAS WJR WJSV WKRC WLAC
WLBZ 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 KFSB KGA
KGO KGW KJR KLO KOIL KSO
KWK WBAL WBZ WBZA WCKY
WEAN WEBR WFIL WHAM WHK
WICC WJZ WLS WMAL 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 KFBK KFH
KFPY KFRC KGB KGKO KGBM
KHJ KLKA KLZ KMBC KMJ KMOX

KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSR
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBG
WDBO WDNC WDOF WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBW WKRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WNAC WNAX WNOX WOC
WOKO WORC WOW WPG WQAM
WREC WSFA WSJS WSPD WTOC
WWL

R — Town Hall Tonight
KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBEN
WCAE WCHS WDAF WDAY WFAF
WEBC WEEI WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOI WOV WPTF WRC WSB
WSM WSMB WSOB WTAG WTAM
WTRT WTIC WTMJ WWJ WWNC

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Crime Crusade; Phil Lord
KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLL KRNT KSL KTRH
KTSR KTUL KVI KWG KWKH
WABC WACO WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WORC WOW
WQAM WREC WTOC WWL

R — Your Hollywood Parade
KDYL KERN KFBK KFI KFYP
KGBX KGHJ KGRJ KGNC KGU
KGW KHQ KIDO KMJ KOA KOB
KOMO KPO KPRC KSD KSTP
KTAR KTBS KTHS KWG KYW
WAPI WAVE WBEN WCAE WOSC
WCSH WDAF WDEL WFAF WEBC
WFAA WFCB WFEA WFLA
WGL WGY WHO WIBA WIOD WIRE
WIS WJAR WJAX WJDX WKY
WLW WMAQ WMBG WMC WNAC
WQAM WOOD WORK WOW WPTF
WRC WSB WSM WSMB WSOB
WSUN WTAG WTAM WTRT WTIC
WTMJ WWJ WWNC

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 KSFO KSL KTRH KTSR
KTUL KVI KWKH WALA WBBM
WBRC WCCO WCOB WFBM WGST
WHAS WIBW WISN WLAC WMBD
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 KTSR
KTUL WABC WBBM WBNS WCAO
WCAU WCCO WDAE WDBO WDRC
WEEI WFBL WGAR WGR WHAS
WHEC WHIO WHP WIBX WISN
WJAS WJR WJSV WKRC WMBD
WMBR WOC WOKO WPRO WQAM

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Kate Smith; Henny Youngman
CFRB CRCM KDAL KFAB KFH
KGKO KLRA KMBC KMOX KNOW
KOMA KRLL KRNT KSCJ KTRH
KTSR KTUL KWKH WABC WACO
WADC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOF WDRC WEEI WEOA
WFBL WFBM WGR WGR WGST
WHAS WHEC WHIO WHP WIBW
WISN WJAS WJR WJSV WKBN
WKRC WLAC WLBZ WMBD WMBR
WNAX WNOX WOC WOKO WORC
WPRO WQAM WRVA WREC WSFA
WTAQ WWL

R — Rudy Vallee's Variety Hour
CFCE CRCT KDYL KFI KFYP
KWG KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBEN WCAE
WCSH WDAF WDAY WFAF WEBC
WEEI WFBR 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 KFBK KFEL
KFSB KGA KGO KJR KLO KMJ
KOIL KSO KWG KWK KXYZ WABY
WBAL WBZ WBZA WCKY WCOL
WEBR WFIL WHAM WJZ WMAL
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
KFBK KFH KFPY KFRC KGB
KGKO KLRA KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSR
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOF WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX

THURSDAY (Continued)

WICC WISN WJAS WJR WJSV
WKBN WKBW WKRC WLAC WLWB
WMAS WMBD WMBG WMBR
WMMN WNAC WNAZ WOC WOKO
WORC WOWO WPG WQAM WREC
WSFA WSJS WSPD WTOG WWL

R — MGM Program

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

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

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

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

K — "We, The People."
CFPY 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

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

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 KFAB KFBK KFPY
KFRC 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
WFBR WGST 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 WFAF WEBC WEEI WFAA
WFBR 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 — Paul Whiteman; Deems Taylor
KFAB KFH KGKO KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH KTSA KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDOE WDRC WEEI WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHIO WHK WHP WIBW
WIBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLWB WMAS
WMBD WMBG WMBR WMMN
WNAX WBNF WNOX WOC WOKO
WORC WOWO WPG WPRO WQAM
WREC WSFA WSJS WSPD WTOG
WWL

B — Death Valley Days

KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KOK KWK WBAL WBZ
WBAZ 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 CKAK KDB KERN KFAB
KFBK KFH KFPY KFRC KGB
KHJ KLRA KLZ KMBC KMJ KMOX
KOLN KOL KOMA KRLD KRNT
KSCJ KSL KTRH KTSA KTUL KVI
KVOR KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRC WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJR
WJSV WKBW WKRC WLAC WLWB
WMAS WMBD WMBG WMBR
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WSPD WWL

R — Frank Munn; Abe Lyman

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

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 WFBR WGY WHO
WHIO WJAR WMAQ WOW WRC
WTAG WTAM 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 WBAZ WCKY
WCOL WDSU WEAN WEBR WENR
WFAA WFIL WFLA WHAM WHK
WBA WICC WIOD WIS WJAX
WJZ WKY WMAL WMP5 WMT
WOOD WOWO WPTF WREN WRTD
WSGN WSM WSPD WSOC 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 KFBK KFH KFPY
KGKO KGLO KGVO KRLA KLZ
KMOX KNOW KNX KOH KOIN
KOL KOMA KOY KRLD KRNT
KSCJ KSFO KSL KTRH KTSA
KTUL KVI KVOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCHS WCOA WCOO WDAE
WDBJ WDOE WDNC WDOE WDRC
WEEI WEOA WFBL WFBM WGR
WGBI WGST WHAS WHEC WHIO
WHP WIBW WIBX WISN WJAS
WJNO WJR WJSV WKBW WKBW
WKRC WLAC WLWB WMAS WMBD
WMBR WMMN WBNF WNOX WOC
WOKO WORC WPAR WPG WPRO
WQAM WREC WRVAWSBT WSFA
WSJS WTOG 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 WFAF
WEBC WEEI WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

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 WFAF
WFBR 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 WFAF WFBR
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 Network

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

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

SATURDAY (Continued)

WFBL WGAR WGR WHAS WJAS
WJR WKRC WPRO

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

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

R — "Believe-It-or-not." Ripley
KANS KDYL KFYZ KGNC KOA
KPRC KSD KSTP KYW WAPI
WAVE WBAP WBEN WCAE WCSH
WDAF WDAY WDEL WEAF WEBC
WFBC WFBR WGY WHO WIBA
WIRE WJAR WKY WLW WMAQ
WMBG WNAC WMC WOAI WOOD
WOW WPTF WRC WSB WSMB
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 WCAO WCAU WCCO WCOA
WDRG WEEI WFBL WFBM WGR
WGST WHAS WHEC WHIO WHK
WHP WISN WJAS WJR WJSV
WKRC WMBD WMBG WMBF WOC
WOKO WPRO WSBT WWVA

R — Jack Haley; Virginia Verrill
KDYL KGNC KOA KPRC KSD
KSTP KYW WAPI WAVE WBAP
WBEN WCAE WCSH WDAF WDEL
WEAF WEBC WFBC WFBR WGY
WHO WIBA WIRE WJAR WKY
WLW WMAQ WMBG WMC WNAC
WOAI WOW WPTF WRC WSB
WSMB 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
KRLD KRNT KSL KTRH KTSA
KVI KWG WABC WBBM WBNS
WBT WCAO 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 WSMB
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 KRLD KSFO
KTRH KTSA KTUL KVI KWKH
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WCOA WDAE
WDBO WDOD WEEI WFBL WFBM
WGAR WGST WHAS WHEC WJAS
WJR WJSV WKBW WLAC WMBD
WMBR WMMN WNOX WOC WQAM

WREC WRVA WSFA WTOC WWL
WWVA

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 KRLD
KRNT KSCJ KSL KTRH KTSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLZ WMAS
WMBD WMBG WMBR WNAC
WNAX WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSFA
WSJS WSPD WTOC 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 KTAR WDAY WEBC
WIBA WLW WTMJ

CBC — Northern Messenger
To Mideast 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
KFBB 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
KFBB KFPY KIRO KNX KOH
KOIN KOY KSFO KSL KVI

R — "Believe-It-Or-Not" Ripley
KERN KFBK 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 KFBH KFBK
KFH KFPY KFRC KGB KGVO
KMBC KOH KOL KRLD KSL KTRH
KTSA KVI KVOR KWG KWKH
WABC WACO WADC WALA WBNS
WBRC WCAO WCCO WDAE WDBJ
WDBO WDNC WESG WFBL WFEA
WHAS WHK WIBX WJAS WJR
WKRC WLZ WMBD WMBR
WMMN WOC WOKO WORC WPG
WQAM WSBT WSJS WSPD WTOC

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

C — Salt Lake Tabernacle Choir
CFRB KFAB KFBB KFBK KFH
KFPY KFRC KGB KLZ KOH KOL
KRLD KSL KTRH KTSA KVI KVOR
KWG WABC WACO WADC WALA
WBIG WBNS WBRC WCAO WCCO
WDAE WDBJ WDBO WESG WFB

WFEA WGR WHAS WICC WJAS
WJR WKRC WLBC WMBR WMMN
WOC WOKO WORC WQAM WSBT
WSJS WSPD WTOC

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

C — Church of the Air
KFBK KFH KFPY KFRC KGB
KHJ KMOX KOH KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSA KVI
KVOR KWG WABC WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDRG WESG WFBL WFBM
WGR WHAS WHP WIBX WJAS
WJSV WKBW WKRC WLAC WLZ
WMBR WMBF WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD WTOC WWVA

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
KFYR KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP KTBS
KTHS KVOO KWK WAPI WAVE
WBAL WBZ WBZA WCKY WDAY
WEBC WENR WFAA WFIL WFLA
WGAR WHAM WHIO WIBA WIOD
WIRE WIS WJAX WJDX WJZ WKY
WMAL WMC WMT WOAI WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWNC
WXYZ

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

C — Jean Hersholt, "Dr. Christian."
CFRB KFAB KFH KMBC KMOX
KNOW KOMA KRLD KRNT KSCJ
KTRH KTSA KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WCHS WDAE WDBO
WDRG WEEI WFBL WFBM WGAR
WGST WHAS WHEC WHIO WHP
WIBW WJAS WJR WJSV WKBW
WKRC WLAC WLZ WMAS 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 CKAK KFAB KFBH KFH
KGKO KGVO KLRA KLZ KMBC
KMOX KNOW KOL KRLD KSCJ
KSL KTRH KTSA KWKH WABC
WADC WALA WBNS WBT WCAO
WCCO WCHS WDAE WDBJ WDBO
WDRG WEEI WESG WFBL WFBM
WHAS WHK WHP WIBW WIBX
WJAS WJR WJSV WKBW WKBW
WKBW WKRC WLAC WLZ WMAS
WMBD WMBG WMBR WMMN
WNBF WOC WOKO WORC WPAR
WPRO WQAM WSBT WSJS WTAQ
WTOC WWL

Also on Canadian Network
R — The Radio News Reel
KSD KSTP KYW WBEN WCAE
WCSH WDAF WDEL WEAF WBR
WGY WHO WIRE WJAR WMAQ
WNAC WOW WRC WSAI WTAG
WTAM WTIC WWJ

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

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

SUNDAY (Continued)

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 KOI KOMA KRLD KRNT KSF KSL KTRH KTSa KTUL KVI WABC WADC WBBM WBNS WCAO WCAU WCCO WDAE WDRC WEEI WGR WGR WGST WHAS WHEC WHIO WJAS WJR WJSV WKRC WMBR WOKO WPRO WQAM WWL

R — Marion Talley

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

B — Metropolitan Opera Auditions

CFCF CRCT KARK KDKA KECA KEX KFEL KFI KFSD KFYR KGA KGIR KGNC 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 WICC WIOD WIS WJAX WJDX WJZ WKY WMAL WMC WMT WOAI WOWO WPTF WREN WRFD WSB WSM WSMB WSOC WSPD WSUN WSYR WTAR WTCN WWNC WXYZ

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

C — Guy Lombardo and Orchestra

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

B — Smiling Ed McConnell

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

R — Mickey Mouse Theater Station list unavailable

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

C — Joe Penner; Gene Austin

KFAB KFPY KGLO KLZ KMBC KMOX KNOW KNX KOIN KOL KOMA KRLD KRNT KSF KSL KTRH KTSa KVI WABC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDRC WEEI WFBL WFBM WGR WGST WHAS WHEC WJAS WJR WJSV WKBW WKRC WOKO WORC WPRO WQAM WREC WRVA

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

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

C — Double Everything

CFRB CKAC KDAL KFAB KFH

KFPY KGAR KGMB KIRO KLRA KLZ KMBC KMOX KNOW KNX KOH KOMA KOY KRLD KRNT KSCJ KSF KSL KTRH KTSa KTUL KVI WABC WADC WBBM WBT WCAO WCAU WCCO WDAE WDRC WEEI WFBL WFBM WGR WGST WHAS WHEC WHIO WHLB WJAS WJNO WJR WJSV WKBW WKRC WLAC WMBR WMFQ WNAX WNOX WOKO WPRO WQAM WREC WRVA WTCO WWL WWVA

R — A Tale of Today

WBEN WEAF WGY 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 KSF KSL KTRH KTSa KTUL KVI KWKH WABC WADC WBBM WBIG WBRC WBT WCAO WCAU WCCO WDRC WEEI WFBL WFBM WGR WGBI WGR WGST WHAS WHEC WHIO WJAS WJR WJSV WKRC WOKO WPRO WREC WRVA WTCO WWL

R — Jack Benny; Mary Livingstone

KSD KYA KYW WBEN WCAE WCSH WDAF WEAF WFBR WGY WHO WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WVIC WWJ

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

C — Phil Baker; Oscar Bradley

KLRA KLZ KRLD KTRH KTSa KTUL KWKH WABC WACO WADC WALA WBIG WBNS WBRC WBT WCAO WCAU WCOA WDAE WDBJ WDRC WDCO WDDO WDRC WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBX WICC WJAS WJR WJSV WKBN WKRC WLAC WLZ WMAS WMBR WNAC WNOX WOKO WORC WQAM WREC WSBT WSAF WSJS WSMK WSPD WTCO WWL WWVA

B — Ozzie Nelson; Harriet Hilliard

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

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

R — Don Ameche; Edgar Bergen

CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KVOO KYW WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WFAA WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WNAC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC

WSUN WTAG WTAM WTAR WVIC WTMJ WWJ WWNC

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

C — Ford Concert

CFRB CKAC KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KRLD KRNT KSCJ KSL KTRH KTSa KTUL KVI KVR KVG KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDRC WDCO WDDO WDRC WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBX WIBX WICC WISN WJAS WJR WJSV WKBN WKRC WLAC WLZ WMAS WMBD WMBR WNAC WNAX WOC WOKO WORC WQAM WREC WSBT WSAF WSJS WSPD WTCO WWL WWVA

B — Tyrone Power; Drama

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

R — Manhattan Merry-Go-Round

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

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

R — Album of Familiar Music

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

B — Walter Winchell

KDKA KECA KEX KFSD KGA KGHL KGIR KGO KJR KLO KOIL KSO KTAR KWK WBAL WBZ WBZA WENR WFIL WGR 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 KNOW KNX KOIN KOL

SUNDAY (Continued)

KOMA KRLD KRNT KSFU
KSL KTRH KTSA KTUL KVI
WABC WBBM WBNS WRHC WBT
WCAU WCCO WDAE WDBO WDRC
WFLI WFBL WFBM WGAR WGST
WHAS WHEC WJAS WJR WJSV
WKBW WKRC WMBR WNOX
WQOW WORC WPRO WQAM WWL

R - Rising Musical Stars

KDYL KFI KGBA KGW KHQ KOA
KPO KPRC KSD KSTP KTAR KTBS
KTHS KYW WAVE WRAP WBFB
WCAE WCHS WDAF WFAP WFBR
WFLA WGY WHO WIHA WIOD
WIRE WIS WJAR WJAX WJDX

WKY WMAQ WMC WNAC WOAI
WOOD WOW WPTF WRC WRVA
WSB WSM WSMB WSOX WTAE
WTAM WTAR WTRC WTMJ WWJ
WWNC

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

B - Irene Rich, Drama

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

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

B - Walter Winchell

KDYL KFI KFSD KGHK KGR

EGW 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 KFBB KFI KFSD
KGLH KGR KGU KGW KHQ
KIRO 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

Line in Eastern Standard

C—C (Local), 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
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
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
Henry 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
Andre Kostelanetz, 9:00 p.m. Wed., CBS
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, 10 p.m. Tues., MBS
Ted Flo 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 and 11:00 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

Horace Heidt, 9:00 p.m. Tues., Blue
Carl Hoff, 9 and 12 p.m. Tues., CBS
Wayne King, 8:30 p.m. Tues., Wed., Red; 10 p.m. Mon., CBS
Benny Kreuger, 8:30 p.m. Mon., CBS
Guy Lombardo, 5:30 p.m. Sun., CBS
Abe Lyman, 9:00 p.m. Fri., 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
B.A. Rolfe, 8:00 and 12:00 p.m. Sat., Red
Harry Salter, 7:15 and 10:30 p.m. Wed., CBS
Seymour Simons, 6:30 p.m. Sun., CBS
Phil Spitalny, 9:30 p.m. Mon., 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, 8:30 and 11:30 p.m. Fri., CBS
Meredith Willson, 9:00 p.m. Thurs., Red
Victor Young, 8:30 and 11:30 p.m. Tues., CBS

DIALOG

Amps '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
Lun 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
Stroud Twins, 8:00 p.m. Sun., Red

DRAMA

Campana's First Nighter, 10:00 p.m. Fri., Red
Campana's Grand Hotel, 8:30 p.m. Mon., Blue
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

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
 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
 Double Everything, 6:30 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
 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
 Mickey Mouse Theater, 5:30 p.m. Sun., Red
 National Barn Dance, 9:00 and 11:00 p.m. Sat., Blue
 Northern Messenger, 11:00 p.m. Sat., CBC
 Jack Oakie's College, 9:30 p.m. Tues., CBS
 Poetic Melodies, 7:00 and 11:00 p.m. Mon. through
 Fri., CBS
 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
 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, 10:00 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
 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
 Reed 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 Kreeun, 9:00 p.m. Sun., Red
 Nick Lucas, 9:00 and 12:00 p.m. Tues., CBS
 Lullaby 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
 Smiling Ed McConnell, 5:30 p.m. Sun., Blue
 Lucille 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
 Lawrence Tibbett, 9:00 p.m. Wed., CBS
 Virginia Verrill, 8:30 p.m. Sat., 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
 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; 8:30 and 11:30
 p.m. Fri., CBS
 Lowell Thomas, 6:45 p.m. Mon. through Fri., Blue
 Dorothy Thompson, 10:45 p.m. Fri., Red
 Walter Winchell, 9:30 and 11:15 p.m. Sun., Blue

"Snoppyquops," the current rage in Hollywood, is the invention of Feg Murray who appears on the Seein' Stars program on NBC every Sunday at 7:30 p.m., EST. "Snoppyquops" are fantastic fable animals including ants with alarm-clock ears, and elephants with vacuum-cleaner trunks.

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.	5.975	OAX4P	Huancayo, Peru. (.25).	
2.500	XEXP	Monterrey, N. L. (.03).	5.980	HJ4ABD	Medellin, Colombia. 2000-2230.
3.500 to 4.800	Amateur Stations.	5.990	HJ2ABD	Bucaramanga, Colombia. (.67). 1900-2300.	
3.040	YDA	Tandjong Priok, Java, N.E.I. (10.).	6.000	CXA2	Montevideo, Uruguay. (.5).
4.107	HCJB	Quito, Ecuador (1.). "Broadcasting Provincial." 0700-0815; 1130-1430; 1645-2215.		OAX5C	Ica, Peru. (.1).
4.273	RV15	Khabarovsk, USSR (Siberia). (20.). 0100-1000.		XEBT	Mexico City, D. F. (1.). 1800-2400.
4.600	HC2ET	Guayaquil, Ecuador. Wed., Sat., 2100-2230.		.....	Alderney, Channel Islands.
4.780	HJ1ABB	Barranquilla, Colombia (.3). Apartado 715.	6.005	CFCX	Montreal, P. Q. (.075). 0700-2400.
4.787	HJ2ABC	Cucuta, Colombia. (.25). "La Voz de Cucuta."		HP5K	Colon, Panama. 1800-2300.
4.810	YDE2	Solo, Java, N.E.I. (.1).		VE9DN	Montreal, P. Q. (6.).
4.840	HJ3ABD	Bogota, Colombia. 1930-2400. Aptdo. 509.		XZ1GY	Rangoon, Burma.
5.003	HCT	Guayaquil, Ecuador. "Radio Telefonica."	6.010	CJCX	Sydney, N. S. (1.).
5.415	PMY	Bandoeng, Java, N.E.I. (.45). 0530-1000.		COCO	Havana, Cuba. (2.5) Sun., 2000-2200. Weekdays 1030-1300; 1600-2000.
5.500	TI5HH	San Ramon, Costa Rica. (.2). 2000-2330.		OLR2A	Prague, Czechoslovakia. (35.). Mon., Wed., Fri., 1600-1630.
5.710	TGS	Guatemala City, Guat. (2). Wed., Thurs., Sat., 1800-2100.		.....	Saigon, French Indo-China.
5.735	HC1PM	Quito, Ecuador. Sat., 2100-2300.	6.012	HJ3ABH	Bogota, Colombia. (1.2). 1800-2300.
5.763	YNOP	Managua, Nicaragua. 2000-2130.	6.015	HI3U	Santiago de los Caballeros, D. R. (.025). Mon. 2000-2100. Daily 0730-0930; 1200-1430; 1700-1930.
5.765	YV2RA	San Cristobal, Venez. 1800-2330.	6.020	DJC	Berlin, Germany. (50.). 1040-1630; 1650-2245
5.800	YV5RC	Caracas, Venez. (1.). Sun., 0830-2130. Weekdays 0700-2200.		XEUW	Veracruz, Ver. (.02). 1800-2400.
5.813	TIGPH2	San Jose, Costa Rica.	6.025	HJ2ABJ	Santa Marta, Colombia. (.05). 1800-2230.
5.825	TIGPH	(also TIXGP3), San Jose, Costa Rica. 1100-1300; 1800-2200.	6.030	HP5B	Panama City, Panama. (.1). 1700-2200.
5.850	YV1RB	Maracaibo, Venez. Sun., 1145-1245. Weekdays 0845-0945; 1115-1215; 1645-2145.		OLR2B	Prague, Czecho. (35.).
5.855	HI1J	San Pedro de Macoris, D. R. (.04). 1200-1400; 1830-2100.		VE9BJ	St. John, N. B. (.05).
5.875	HRN	Tegucigalpa, Honduras. (.4). Sun., 2030-2130. Weekdays 2030-2200.		XEBQ	Mazatlan, Sin. (.05).
5.885	HI9B	Santiago, D. R. 1800-2300.	6.033	HJ4ABP	Medellin, Colombia. (2.5). 1800-2300.
5.895	YV3RA	Barquisimeto, Venez. 1800-2200.	6.038	HJ1ABC	Barranquilla, Colombia. (.15). 1100-2300.
5.905	TILS	San Jose, Costa Rica. 1800-2300.	6.040	PRA8	Pernambuco, Brazil. (3.). 1500-2000.
5.913	YV4RH	Valencia, Venez. 1700-0100.		W1XAL	Boston, Mass. (20.). Daily exc. Sat. and Sun., 1900-2100.
5.925	HH2S	Port-au-Prince, Haiti. 1900-2200.		W4XB	Miami, Fla. (5.).
5.935	YV1RL	Maracaibo, Venez. (.3). 1700-2230.		YDA	Tandjong Priok, Java, N.E.I. (10.).
5.945	TG2X	Guatemala City, Guat. (.2). Sun., 1300-1400; Mon., Thurs., Sat., 1600-1800; 2200-2400.	6.045	XETW	Tampico, Tams.
5.947	PJC1	Willemstad, Curacao, N.W.I. (.15) 1835-2035.	6.050	GSA	Daventry, Gt. Britain. (20.).
				HJ6ABA	Pereira, Colombia (6054 assigned). 1800-2200.
			6.060	VQ7I O	Nairobi, Kenya. 1100-2430.
				W3XAU	Philadelphia, Pa. (10.). 2000-2300.
				W8XAL	Cincinnati, Ohio. (10.). Daily 2300-0200. Sun. 0800-2000. Weekdays 0600-2000.
			6.062	SBG	Motala, Sweden. (.5). 1330-1700.
			6.064	VP3MR	Georgetown, British Guiana. (.15) (assigned 6010). 0745-1015; 1645-2045.

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

6.065	HP5F	Colon, Panama.	6.296	OAX4G	Lima, Peru. (.4). 1900-2130.
6.070	CFRX	Toronto, Ont. (1.). 1000-2300.	6.300	YV4RD	Maracay, Venez. 1700-2300.
	HJ3ABF	Bogota, Colombia. (.05). 1900-2230.	6.310	HIZ	Trujillo, D. R. (.1).
	YV1RD	Maracaibo, Venez. 1900-2400.	6.312	ZP14	Villarrica, Paraguay (1.). 1100-1700.
6.075	XEBW	Guadalajara, Jal. (.045).	6.330	COCW	Havana, Cuba. 0700-2400.
	XECU	Guadalajara, Jal.	6.335	OAX1A	Chiclayo, Peru. (.2). Daily 2000-2300; Sat. 2000-2400.
6.077	OAX4Z	Lima, Peru. (10.) (6082 assigned). 1900-2330.	6.340	HI1X	Trujillo, D. R. (.5). Tues., Fri., 2000-2200.
6.080	DJM	Berlin, Germany. (50.).	6.357	HRP1	San Pedro Sula, Honduras.
	VE9CS	Vancouver, B. C. (.81). 1400-2400.	6.365	YV1RH	Maracaibo, Venez. 1900-2400.
	W9XAA	Chicago, Ill. (20.). Daily 1900-2200. Weekdays 0600-0730.	6.380	YV5RF	Caracas, Venezuela.
6.085	HJ5ABD	Call, Colombia. 1900-2200.	6.383	VP2LO	St. Kitts, Brt. West Indies. (.5).
6.090	CRCX	Toronto, Ont. (1.). 0745-1700.	6.400	YV5RH	Caracas, Venezuela.
	HJ4ABC	Ibague, Colombia. 2000-2200.	6.410	TIPG	San Jose, Costa Rica. (1.). 1800-2230.
6.095	ZGE	Kuala Lumpur, F.M.S.	6.416	YV6RC	Bolivar, Venez.
6.097	.....	Johannesburg, U. of S. Africa. Mon. to Fri. 1145-1600; Sat. 1145-1645.	6.420	HI1S	Santiago, D. R. (.02). 1800-2300.
			6.425	OAX4K	Lima, Peru. (.2).
6.100	W3XAL	Bound Brook, N. J. (35.). 2100-0100.		W3XL	Bound Brook, N. J. (100.). Irreg.
	W9XF	Chicago, Ill. (10.). 1700-2005.		W10XDA	Effie M. Morrissey (.1).
	.....	Belgrade, Jugoslavia. (1.). 1200-1700.	6.450	HI4V	San Francisco de Macoris, D. R. (.025).
6.108	HJ4ABB	Manizales, Colombia. 1800-2400.	6.479	HI8A	Trujillo, D. R.
6.110	GSL	London, Gt. Britain. (20.). 1800-2030; 2115-2300.	6.485	HI1L	Santiago de los Caballeros, D. R. "Emisora Nacional." 0630-0800; 1730-1900; 2000-2100.
	VUC	Calcutta, India.	6.479	HI8A	Trujillo, D. R.
6.115	OLR2C	Prague, Czecho. (35.).	6.500	HI1L	Trujillo, D. R. (.05).
6.118	XEUZ	Mexico City, D. F. (5.). 2300-0300.		YV1RM	Maracaibo, Venez.
6.120	W2XE	New York, N. Y. (10.).	6.508	Radio Guardia Civil,	Tetuan, Sp. Morocco. 1900-2000.
	XEFT	Veracruz, Ver. (.012).		YV4RB	Valencia, Venezuela. 1700-2200.
	YDA5	Bandoeng, Java, N.E.I. (1.5).	6.520	EDR4	Palma, Majorca, Balearic Isl.
6.122	HJ3ABX	Bogota, Colombia. 1730-2230.	6.534	YNI6G	Managua, Nicaragua.
	OAX6A	Arequipa, Peru. (.1).	6.545	YV6RB	Bolivar, Venez. 2100-2300.
6.125	CXA4	Montevideo, Uruguay. (1.). 1600-2145.	6.550	TIRCC	San Jose, Costa Rica. (.5). Tues., Thurs., Sat. 1700-1800.
	HP5H	Panama City, Panama	6.555	HI4D	Trujillo, D. R. (.025). 1700-2000.
	XEPW	Mexico City, D. F. 2100-2400.	6.575	HC1VT	Ambato, Ecuador.
6.128	OAX7A	Cuzco, Peru. (.1).	6.590	COCU	Havana, Cuba. Sun. 1900-2400; Weekdays 1900-0100.
6.130	COCQ	Havana, Cuba. (.35). 1700-0100	6.622	Prado	Rio Bamba, Ecuador. Thur. 2300-2300.
	VE9HX	Halifax, N. S. (5.). 1700-2300.	6.630	HIT	Trujillo, D. R. (.2). Weekdays, 1800-2100.
6.132	VP3BG	Georgetown, British Guiana.	6.635	HC2RL	Guayaquil, Ecuador. Sun. 1745-1945. Tues. 2115-2315.
6.137	CR7AA	Lourenco Marques, Port. East Africa. Sun. 0600-0900. Weekdays 9500-0780.	6.690	TIEP	San Jose, Costa Rica. 1600-2300.
6.138	HJ4ABD	Medellin, Colombia.	6.700	TIVL	San Jose, Costa Rica.
6.140	W8XK	Pittsburgh, Pa. (40.). 2200-sign off.	6.720	PMH	Bandoeng, Java, N.E.I. (1.5).
6.145	HJ4ABE	Medellin, Colombia (1.). "La Voz de Antioquia." 1800-2230.	6.730	HI3C	La Romana, D. R. 1745-2000.
			6.780	HIH	San Pedro de Macoris, D. R. (.15). 1900-2000.
6.150	CJRO	Winnipeg, Man. (2.). 1800-2400.	6.800	HI7P	Trujillo, D. R. 1930-2100.
	CSL	Lisbon, Portugal. 0700-0830; 1400-1900.		PZH	Paramaribo, Surinam.
	VPB	Colombo, Ceylon. (.3). Sun. 0700-1130; Weekdays 0630-1230.	6.850	TIOW	Puerto Limon, Costa Rica. (.4). Sun., 1600-1700. Daily 1200-1300.
6.153	HI5N	Ciudad Moca, D. R. (.1). 1900-2000.	6.990	VK8XI	Port Moresby, Papua. (Doubtful).
6.156	YV5RD	Caracas, Venez. 1030-1330; 1530-2200.	7.000 to 7.300		Amateur stations.
6.174	XEXA	Mexico City, D. F. 1700-2100.	7.100	FO8AA	Papeete, Tahiti. (.2). Tues., Fri. 2300-2400.
6.180	TG2	Guatemala City, Guatemala.			Guadalajara, Jal. "Voice of the Revolutionary Party."
6.190	HI1A	Santiago de los Caballeros, D. R. (.05). Weekdays 2000-2200.	7.200	YNAM	Managua, Nicaragua. 2000-2400.
6.198	HI8Q	Trujillo, D. R. 1700-1900.	7.380	XECR	Mexico City, D. F. (20.). Sun., 1800-2000.
6.200	COKG	Santiago, Cuba. (.05). Daily exc. Sat. 0900-2300.	.....		Radio Liberte. 1900-2000.
	XEXS	Mexico City, D. F.	7.540	RKI	Moscow, U. S. S. R. (Assigned 7520).
6.205	YV1RI	Coro, Venez. (.15). 1700-2200.	7.797	HBP	Geneva, Switz. (20.). Sat., 1730-1830.
6.225	YV1RG	Valera, Venez. 1730-1930.	7.894	YSD	San Salvador, E. S. 2100-2230.
6.235	HRD	La Ceiba, Honduras. (.25). 2000-2300.	8.400	HC2CW	Guayaquil, Ecuador.
6.243	HIN	Trujillo, D. R. (.75).			
6.250	YV5RJ	Caracas, Venez.			
6.270	YV5RP	Caracas, Venez. (1.2).			
6.280	HIG	Trujillo, D. R. (.05).			
6.282	COHB	Sancti-Spiritus, Cuba. (.15). 2100-2300.			

SUNDAY (Continued)

KOMA KRLD KRNT KSFO
KSL KTRH KTSA KTUL KVI
WABC WBBM WBNS WBRC WBT
WCAU WCCO WDAE WDBO WDRC
WERI WFBL WFBM WGAR WGST
WHAS WHEC 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
KTHS KYW WAVE WBAP WBEN
WCAE WCSH WDAF WFAF WFBR
WFLA WGY WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX

WKY WMAQ WMC WNAC WOAI
WOOD WOW WPTF WRC WRVA
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTIC WTMJ WWJ
WWNC

KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS WAPI WAVE
WBAP WJDX WKY WMC WOAI
WSB WSM WSMB

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

B — Irene Rich, Drama

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

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

R — Jack Benny-Mary Livingstone

KDYL KERN KFBK KFI KFSD
KGHL KGIR KGU KGW KHQ
KIDO KMJ KOA KOMO KPO KTAR
KWG

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

B — Walter Winchell

KDYL KFI KFSD KGHL KGIR

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
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
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
Andre Kostelanetz, 9:00 p.m. Wed., CBS
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, 10 p.m. Tues., MBS
Ted Flo 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 and 11:00 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

Horace Heidt, 9:00 p.m. Tues., Blue
Carl Hoff, 9 and 12 p.m. Tues., CBS
Wayne King, 8:30 p.m. Tues., Wed., Red; 10 p.m.
Mon., CBS
Benny Kreuger, 8:30 p.m. Mon., CBS
Guy Lombardo, 5:30 p.m. Sun., CBS
Abe Lyman, 9:00 p.m. Fri., 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
B. A. Rolfe, 8:00 and 12:00 p.m. Sat., Red
Harry Salter, 7:15 and 10:30 p.m. Wed., CBS
Seymour Simons, 6:30 p.m. Sun., CBS
Phil Spitalny, 9:30 p.m. Mon., 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, 8:30 and 11:30 Fri., CBS
Meredith Willson, 9:00 p.m. Thurs., Red
Victor Young, 8:30 and 11:30 p.m. Tues., CBS

DIALOG

Amos 'n' Andy, 7:00 and 11:00 p.m. Mon. through
Fri., Red
Easy Aces, 7:00 p.m. Tues., Wed., Thurs., Blue
Fibber McGee and Molly, 9:00 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
Stroud Twins, 8:00 p.m. Sun., Red

DRAMA

Campana's First Nighter, 10:00 p.m. Fri., Red
Campana's Grand Hotel, 8:30 p.m. Mon., Blue
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

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
 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
 Double Everything, 6:30 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
 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
 Mickey Mouse Theater, 5:30 p.m. Sun., Red
 National Barn Dance, 9:00 and 11:00 p.m. Sat., Blue
 Northern Messenger, 11:00 p.m. Sat., CBC
 Jack Oakie's College, 9:30 p.m. Tues., CBS
 Poetic Melodies, 7:00 and 11:00 p.m. Mon. through
 Fri., CBS
 Professor Quilz, 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
 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, 10:00 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
 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
 Reed 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 Kreeun, 9:00 p.m. Sun., Red
 Nick Lucas, 9:00 and 12:00 p.m. Tues., CBS
 Lullaby 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
 Smiling Ed McConnell, 5:30 p.m. Sun., Blue
 Lucille 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
 Lawrence Tibbett, 9:00 p.m. Wed., CBS
 Virginia Verrill, 8:30 p.m. Sat., 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
 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; 8:30 and 11:30
 p.m. Fri., CBS
 Lowell Thomas, 6:45 p.m. Mon. through Fri., Blue
 Dorothy Thompson, 10:45 p.m. Fri., Red
 Walter Winchell, 9:30 and 11:15 p.m. Sun., Blue

“Snoppyquops,” the current rage in Hollywood, is the invention of Feg Murray who appears on the Seein' Stars program on NBC every Sunday at 7:30 p.m., EST. “Snoppyquops” are fantastic fable animals including ants with alarm-clock ears, and elephants with vacuum-cleaner trunks.

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

8.580	YNPR	Managua, Nicaragua. (.5). "Radio Pilot". 1330-1430; 2000-2200.	9.562	OAX4T	Lima, Peru. (20.). 1130-1130.
8.600	HC1EC	Quito, Ecuador.	9.565	VUB	Bombay, India. (4.5).
8.655	W10XDA	Effie M. Morrissey. (1).	YV3RB	Barguissimata, Venez.	
8.665	COJK	Camaguey, Cuba. 2.4. 1800-0100.	9.570	KZRM	Mamila, P. I. Mon. through Fri. 0500-0500; 1630-1800. Sat., 0500-1000; 1630-1800. Sun. 0500-1000.
8.830	HCJB	Quito, Ecuador. 1.1. "La Voz de los Andes." 0700-0815; 1130-1430; 1645-2215.	W1XK	Boston, Mass. (10.). Sun. 0800-0100. Weekdays 0600-0100.	
9.030	COBZ	Havana, Cuba.	W8XK	Pittsburgh, Pa. (40.). (Not used).	
9.125	HAT4	Budapest, Hungary. (20.). Sun., Wed., 1900-2000. Sat., 1800-1900.	9.580	GSC	Daventry, Gt. Britain. (20.). 1800-2030; 2115-2300.
9.200	COCA	Havana, Cuba. P. O. Box 3458.	VK3LR	Melbourne, Australia. (.5). 0100-0945.	
9.210	COBX	Havana, Cuba. (assigned 9200).	9.590	PCJ	Huizen, Netherlands. (20.). Sun. 1400-1500; 1900-2115; Mon. 2100-2230; Tues., 1400-1530; 1900-2130; Wed., 1900-2130; Thurs., 1900-2130; Sydney, Australia. (20.). Sun., 0100-0300; 0430-0830; 0900-1100.
9.340	OAX4J	Lima, Peru. (.2). 1200-1500; 1700-0100.	VK6ME	Perth, Australia. (5.). Weekdays 0600-0800.	
9.345	HLB	Geneva, Switz. (20.). Fri. 1430-1445; 1930-1945; 2000-2015.	W2XE	New York, N. Y.	
9.350	COBC	Havana, Cuba. Aptdo. 132.	W3XAU	Philadelphia, Pa. (10.). 1200-2000; Thurs., 2200-2300.	
	HS8PJ	Bangkok, Siam. Mon., Thurs., 0730-1000.	W8XAL	Cincinnati, Ohio. (10.). (Under construction).	
9.415	PJC2	Willemstad, Curacao, N.W.I.	9.595	HLB	Geneva, Switzerland. (18.). Sat. 1730-1830.
	PLV	Bandoeng, Java, N.E.I. (80.). 1000-1100.	RAN	Moscow, USSR. 1900-2115.	
9.428	COCH	Havana, Cuba. (.15). 0700-0100.	9.600	CB960	Santiago, Chile. 1000-1930.
9.445	HC2RA	Guayaquil, Ecuador. Sun. 1600-2200. Daily 2100-2200.	9.605	HP5J	Panama City, Panama. (1.). 1830-2300.
9.450	HC20DA	Guayaquil, Ecuador. 2100-2200.	9.606		Johannesburg, U. of S. Africa. 2345-0045. Add: P. O. Box 4559.
9.460	XGOX	Nanking, China. (.5).	9.618	HJ1ABP	Cartagena, Colombia. (.75). 1800-2200.
9.470	PJC1	Willemstad, Curacao, N.W.I. (.15). Sun. 1035-1235.	9.630	HJ7ABD	Bucaramanga, Colombia. "Radio Bucaramanga." Taihoku, Taiwan. 0430-1030.
9.480	EAR	Madrid, Spain. (20.). Mon. at 2000; Tues., Fri. at 2100.	9.635	I2RO	Rome, Italy. (25.). 1230-2100.
	XEDQ	Guadalajara, Jal. 1900-0100.	9.640	CXA8	Montevideo, Uruguay. 0700-2400.
9.500	EAC	Madrid, Spain.	9.645	HH3W	Port-au-Prince, Haiti. (.03). 1300-1400; 1900-2000.
	HJ1ABE	Cartagena, Colombia. 1700-1800; 2000-2230.	9.650	CS2WA	Lisbon, Portugal. (2.). Tues., Thurs., Sat., 1600-1900.
	XEWW	Mexico City, D. F. (10.). 0800-2400.	9.660	CR6AA	Lebito, Angola, Port. West Africa. (.5). Wed., Sat., 1445-1645.
9.501	PRF5	Rio de Janeiro, Brazil. (60.). 1645-1745.	LRX	Buenos Aires, Argentina. (5.). 1030-2430.	
9.504	OLR3B	Prague, Czecho. (35.).	9.670	T14NRH	Heredia, Costa Rica. 2100-2200; 2330-2400.
9.510	GSB	Daventry, Gt. Britain. (20.). 0315-0530; 1220-1600; 1615-2030; 2115-2300.	9.685	TGWA	Guatemala City, Guat. (10.). "Radio Nacional." Sun. 2000-2200, Mon., Thurs., 2100-2300. Wed., Sat. 2200-2400.
	HJU	Buenaventura, Colombia. Mon., Wed., Fri. 2000-2300.	9.700	COCQ	Havana, Cuba. (assigned 9750). 0700-0100.
	HS8PJ	Bangkok, Siam. Mon., Thurs., 0800-1000.			Fort de France, Martinique. "Radio Martinique." (.2). Box 136. 1845-1945.
	VK3ME	Melbourne, Australia. (5.). Weekdays 0400-0700.	9.730	COCM	Havana, Cuba. (assigned 9833).
9.520	HJ4ABH	Armenia, Colombia. (1.). 0800-1100; 1800-2200.	9.800	EAQ	Madrid, Spain. (20.).
	OZF	Copenhagen, Denmark. (6.). 1400-1840.	9.825	JDY	Darien, Manchukuo. 0715-0800.
	YSH	San Salvador, E. S. Radio Liberto. 1900-2000.	9.840	CEW	Lisbon, Portugal. (5.). 1300-2000.
9.523		Protoria, U. of S. Africa. (5.). Add: Box 4559, Johannesburg.	10.000	COBC	Havana, Cuba.
9.525	ZBW3	Hong Kong. (2.5). Sat. 2100-2400. Sun. 0000-0100; 0300-0930. Other days 0400-1000; 2330-0100.	10.065	CQN	Macao, Portuguese China.
9.530	LKJ1	Jeloy, Norway. (1.). 0500-0800.	10.070		Communitic Station.
	W2XAF	Schenectady, N. Y. (40.). Sat. 1200-2400. Other days 1600-2400.	10.220	PSH	Rio de Janeiro, Brazil. (12.). 1900-2100.
	W6XBE	Belmont, Calif. (20.). General Elec. Co. (Under construction).	10.260	PMN	Bandoeng, Java, N.E.I. (1.5). 0530-1100.
9.535	JZ1	Nazaki, Japan. (50.). 1500-1600; 1630-1730.			
9.536	VPD2	Suva, Fiji. (2.). 0530-0700.			
9.540	DJN	Berlin, Germany. (50.). 0005-1000; 1650-2245.			
9.550	OLR3A	Prague, Czecho. (35.). Daily 1255-1648. Weekdays 0925-1010; Mon., Wed., Fri., 2000-2235.			
	XEFT	Veracruz, Ver. (.02). 1930-2400.			
9.560	DJA	Berlin, Germany. (50.). 0005-1100; 1650-2245.			
	HJ1ABB	Barranquilla, Colombia. (.3).			
	YDB	Sourabaya I, Java, N.E.I. (1.).			

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

10.330	ORK	Brussels, Belgium. (11.). 1330-1500.	11.855	DJP	Berlin, Germany. (50.).
10.370	EJ43	Santa Cruz de Tenerife, Canary Isl. 2000-2100.	11.860	GSE	Daventry, Gt. Britain. (20.).
.....		"Radio Nacional," Salamanca, Spain. 1700-1825; 2000-2045.		YDB	Soerabaya I, Java, N.E.I. (1.).
10.430	.....	Pirate station announcing "Radio Milan."	11.870	W8XK	Pittsburgh, Pa. (40.). 1900-2200.
10.530	JIB	Taihoku, Taiwan. (6.). 0900-1030.	11.875	OLR4C	Prague, Czecho. (35.).
10.600	ZIK2	Beilze, British Honduras. Tues., Thurs., Sat., 1930-1945.	11.885	TPA3	Pontoise, France. 0200-0500; 1215-1800.
10.660	JVN	Nazaki, Japan. (50.).	11.895	HP5I	Aguadulce, Panama. 1930-2130.
10.670	CEC	Santiago, Chile. (4.).	11.900	CD1190	Valdivia, Chile. 1000-1300; 1900-2200.
10.740	JVM	Nazaki, Japan. (50.).		OLR4D	Prague, Czecho. (35.).
10.823		"Radio Nacional," Salamanca, Spain. 1630-1800.		XEWI	Mexico City, D. F. (.25). 1930-2400.
11.000	PLP	Bandoeng, Java, N.E.I. (1.5).	11.955	IUC	Addis Ababa, Ethiopia.
11.040	CSW	Lisbon, Portugal. (5.). 1800-2000.	11.960	HI2X	Trujillo, D. R. (.75). Tues., Fri., 2000-2200. Sun. 0740-1040.
11.402	HBO	Geneva, Switz., Fri. 1400-1415; Sat. 1845-2030.	12.000	RNE	Moscow, USSR. (20.). Sun. 1000-1100. Sun., Wed., 0600-0700. Sun., Mon., Wed., Fri., 1600-1700.
11.435	COCX	Havana, Cuba. Sun. 1800-2100. Other days 0800-2400.	12.120	.....	Algiers, Algeria.
11.535	SPD	Warsaw, Poland. (2.). Daily 1800-1900. Sun. until 2000.	12.235	TFJ	Reykjavik, Iceland. (7.5). Sun., 1345-1430.
11.698	SBG	Motala, Sweden. (.5). 0100-0130.	12.290	GBU	Rugby, Gt. Britain.
11.700	CB1170	Santiago, Chile. 1000-1400; 1530-2300.	12.295	CB615	Santiago, Chile.
	HP5A	Panama City, Pan. (.5). 2000-2330.	12.500	HIN	Trujillo, D. R. (.75).
	.....	Saigon, Fr. Indo-China. 0500-1100.	12.675	.....	Guayaquil, Ecuador. "Radio Paris."
11.710	XEWB	Guadalajara, Jal.	12.765	VP2LO	St. Kitts, Brt. West Indies. (.5).
	YSM	San Salvador, E. S.	13.635	SPW	Warsaw, Poland. (10.). Mon., Wed., Fri., 1230-1330. Daily 1800-1900.
11.713	TPA4	Pontoise, France. 0615-1300.	13.740	VP3THE	Terry-Holden Expedition, Brt. Guiana. (.2).
11.718	CR7BH	Lourenco Marques, Port. East Africa. (.2). Sun. 0530-0700. Other days 0430-0630.	13.986	DJS	Berlin, Germany. (20.).
11.720	CJRX	Winnipeg, Man. (2.). 1800-2400.	14.000	to 14.400	Amateur Stations.
11.730	PHI	Hilversum, Netherlands. (23.6).	14.050	EA9AH	Tetuan, Sp. Morocco. (.5). Aptdo. 124. At 1645 and 1900.
	XETM	Villahermosa, Tab.	14.400	UPOL	North Pole. 1400-1605.
11.740	HP5L	David, Panama. (.35).	14.420	HC1JB	Quito, Ecuador. "Radio Rodante."
11.750	GSD	Daventry, Gt. Britain. (20.). 0315-0530; 0855-1200; 1220-1600; 1615-1800; 2115-2300.	14.535	HBJ	Geneva, Switz. Sat. 1845-2100.
11.760	OLR4B	Prague, Czecho. (35.).	14.900	LZA	Sofia, Bulgaria.
	TQWA	Guatemala City, Guat. (10.). Mon., Thurs., 2000-2200.	15.040	RKI	Moscow, USSR. 1900-2115.
11.770	DJD	Berlin, Germany. (50.). 1040-1630; 1650-2245.	15.110	DJL	Berlin, Germany. (50.). 0000-0200; 0800-0900; 1040-1630.
11.790	W1XAL	Boston, Mass. (20.). Sat. 1345-1830. Sun. 1500-1800. Other days 1645-1830.	15.116	OLR5C	Prague, Czecho. (35.).
11.795	DJO	Berlin, Germany. (8.).	15.120	HVJ	Vatican City. (10.). 1000-1030.
11.796	OAX5A	Ica, Peru. (.1). 1200-1600; 1900-2330.	15.140	GSF	Daventry, Gt. Britain. (15.). 0315-0530; 0545-1200.
11.800	COGF	Matanzas, Cuba. (1.). 1300-1600; 1800-2200.	15.150	YDC	Bandoeng, Java, N.E.I. (3.).
	JZJ	Nazaki, Japan. (50.). 1500-1600; 1630-1730; 0800-0900; 0030-0130.	15.160	JZK	Nazaki, Japan. (50.).
	OER2	Vienna, Austria. (1.5). Weekdays 0900-1800.		XEWV	Mexico City, D. F. (10.).
11.805	.....	Copenhagen, Denmark. 1830-2100.	15.170	CXA14	Montevideo, Uruguay.
11.810	I2RO	Rome, Italy. (25.). 0500-1220.		TGWA	Guatemala City, Guat. (10.). 1200-1400.
11.820	GSN	Daventry, Gt. Britain.	15.175	RV96	"Radio Nacional," Lima, Peru.
11.830	KZRM	Manila, P. I.	15.180	GSO	Moscow, USSR.
	W2XE	New York, N. Y. (10.). Daily 1830-1900. Sun. 1900-2400.	15.200	DJB	Daventry, Gt. Britain. 0315-0530; 0545-0855; 1600-1800.
	W9XAA	Chicago, Ill. (20.).	15.200	DJB	Berlin, Germany. (8.). Sun. 1110-1225. Daily 0005-1100; 1650-2245.
11.840	CSW	Lisbon, Portugal. (5.). 1300-2000.	15.210	W8XK	Pittsburgh, Pa. (40.). 0900-1900.
	KZRM	Manila, P. I. Mon. through Fri. 0500-0900; 1630-1800. Sat. 0500-1000; 1630-1800. Sun. 0500-1000.	15.220	PCJ	Huizen, Netherlands. (20.). Sun. 0330-0500. Wed. 0800-1030.
	OLR4A	Prague, Czecho. (35.). 1915-2155.	15.230	OLR5A	Prague, Czecho. (35.). Sun. 0600-0730. Weekdays 0620-0730.
			15.243	TPA2	Pontoise, France. 0600-1100.
			15.250	W1XAL	Boston, Mass. (20.). Fri. 2100-

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

	2200; Sun. 1015-1200; Daily exc. Sat. and Sun. 1415-1600.		W8XK Pittsburgh, Pa. (40.).
15.260	GSI Daventry, Gt. Britain. 1220-1600.		W9XAA Chicago, Ill. (5.).
15.270	HI3X Trujillo, D. R. (.5). Sun., 0800-1100.	17.790	GSG Daventry, Gt. Britain. (15.). 0315-0530; 0545-1200; 1220-1600.
	W2XE New York, N. Y. (10.). Sat., Sun. 1430-1800; 2000-2400. Mon. through Fri. 1300-1800; 2030-2400.	17.800	TGWA Guatemala City, Guat. (10.).
15.280	DJQ Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-0545; 0600-0800; 0815-1100; 1650-2245.	19.020	HS8PJ Bangkok, Siam. (5.). Mon. 0800-1000.
15.290	LRU Buenos Aires, Arg. (5.). 0800-1000.	21.450	OLR6A Prague, Czecho. (35.).
15.300	XEBM Mazatlan, Sin. 1000-2300.	21.460	W1XAL Boston, Mass. (10.). Tests irregularly.
15.310	GSP Daventry, Gt. Britain. 1345-1600.	21.470	GSH Daventry, Gt. Britain. 0545-0855; 0855-1200.
15.320	OLR5B Prague, Czecho. (35.).	21.480	W2XAD Schenectady, N. Y. (25.).
15.330	W2XAD Schenectady, N. Y. (25.). 1100-2100.	21.520	W2XE New York, N. Y. (10.). Sat., Sun., 0800-1300; Other days 0730-1000.
	W6XBE Belmont, Calif. (20.). (Under construction).		W3XAU Philadelphia, Pa.
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) (KGFB). 24 hours daily.
17.375	LSY Buenos Aires, Arg. Fri. 1600-1700.		W9XUP St. Paul, Minn. (1.) (KSTP).
17.760	DJE Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-1000.	26.100	GSK Daventry, Gt. Britain.
	W2XE New York, N. Y. (10.). 1830-2000.		W9XJL Superior, Wis. (.08) (WEBC).
17.770	PHI Hilversum, Netherlands. (23.6). Sun., 0725-1025. Mon., Tues., Thurs., Fri., 0825-1000. Sat., 0825-1040.	26.400	W9XAZ Milwaukee, Wis. (.5) (WTMJ). 1300-2400.
17.780	W3XAL Bound Brook, N. J. (35.). 0900-1740; 1800-2100.	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 watts in third column. Daytime power is shown in parentheses in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

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

540 kecs. (555.2)

CJRM	ak	1000	F	Regina, Sask.	-9:30 am—1:30 am
ZNS	ak	400	....	Nassau, Bahamas	-1:30 pm—9:30 pm

550 kecs. (545.1)

CFNB	ak	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 kecs. (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 kecs. (526.0)

CMCY	ak	5000	X	Havana, Cuba	
KGKO	ak	250	CY (1)	Wichita Falls, Tex.	
KMTR	ak	1000	....	Los Angeles, Calif.	
KVI	ak	1900	C (5)	Tacoma, Wash.	-9:00 am—3:00 am
WKBN	ak	500	C1	Youngstown, Ohio	
WMCA	ak	1000	....	New York, N. Y.	
WNAX	ak	1000	C (5)	Yankton, S. Dak.	
WOSU	ak	750	1 (1)	Columbus, Ohio	-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 kecs. (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	F	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 keys. (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 keys. (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
CMQ	ak	25000	.....	Havana, Cuba	
KFSD	ak	1000	B	San Diego, Calif.	
WCAO	ak	500	C (1)	Baltimore, Md.	
WICC	ak	500	BM (1)	Bridgeport, Conn.	-5:00 am-1:00 am
WMT	ak	1000	BM (5)	Cedar Rapids, Iowa	-6:30 am-1:00 am
WREC	ak	1000	C (5)	Memphis, Tenn.	-7:30 am-1:00 am

610 keys. (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 keys. (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
TIPG	z	2000	625	San Jose, Costa Rica	
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 keys. (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	10000	.....	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.	
WGFB	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.	
.....	z	10000	P	Havana, Cuba	

640 keys. (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 keys. (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

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)

WMAQ	ak 50000	R	Chicago, Ill.	-7:00 am-1:00 am
XELO	ak 50000	....	Tijuana, B. Cfa.	
XERO	z ....	....	Chapultepec, D. F.	-2:00 am-2:30 am

680 kcys. (440.9)

CMBQ	z 5000	P	Havana, Cuba	
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	D	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
CJ CJ	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)

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)

CMK	ak 3000	....	Havana, Cuba	
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
CMCL	z 10000	P	Havana, Cuba	
XEPN	ak 100000	....	Piedras Negras, Coah.	
XERB	z 100000	....	Rosarito Bch., B. Cfa.	

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)

CMBL	z ....	....	Havana, Cuba	-8:00 am-12:15 am
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)

CMBF	z	10000	....	Havana, Cuba	
CMBS	ak	150	X	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	1800	F	Sudbury, Ont.	-9:00 am-midnight
CMJK	ak	250	....	Camaguey, Cuba	-11:00 am-10:00 pm
KEHE	ak	1800	(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)

HIX	ak	700	....	Trujillo, D. R.	
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	R1	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 1000	F	Kamloops, B. C.	-7:30 pm-1:15 am
CMW	ak 1400	X	Havana, Cuba	-7:00 am-midnight
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.	
TIEP	ak 1000	....	San Jose, Costa Rica	
WCOC	ak 500	CX (1)	Meridian, Miss.	
WGBI	ak 500	C1 (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	FN	Montreal, P. Q.	
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	X	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 kcys. (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	R	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 kcys. (319.0)

KOIN	ak	1000	C (5)	Portland, Ore.	
VOAS	ak	100	....	St. John's, Nfld.	
WAAT	ak	500	D	Jersey City, N. J.	—6:30 am—6:00 pm
WAVE	ak	1000	N	Louisville, Ky.	—8:00—1:00 am
WCSH	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	ak	250	D	Ashtabula, Ohio	
XEYO	z	500	....	Mexico City, D. F.	

950 kcys. (315.6)

CJOC	ak	100	F	Lethbridge, Alta.	—9:00 am—1:00 am
CMCD	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 kcys. (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	5000	....	Reynosa, Tams.	

970 kcys. (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 kcys. (306.0)

KDKA	bk	50000	B	Pittsburgh, Pa.	
XEAC	ak	5000	....	Tijuana, B. Cfa.	
XEFE	z	150	....	Nuevo Laredo, Tams.	

990 kcys. (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 kcys. (299.8)

CMBZ	ak	500	(1) X	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 5000	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 keys. (296.9)

CHML	ak 100	F	Hamilton, Ont.	-8:00 am-midnight
CKCD	ak 100	1	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
CKIC	ak 50	....	Wolfville, N. S.	
CKWX	ak 100	1	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 keys. (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 keys. (291.1)

CFCN	ak 1000	F	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	
XEB	ak 10000	....	Mexico City, D. F.	-10:00 am-12:15 am

1040 keys. (288.3)

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

1050 keys. (285.5)

CBM	ak 5000	F	Montreal, P. Q.	
CMKD	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 keys. (282.8)

KTHS	ak 10000	N	Hot Springs, Ark.	-9:00 am-ss
VOAC	z 40	10(5)	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 keys. (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 keys. (277.6)

WBT	ak 50000	C	Charlotte, N. C.	-6:45 am-midnight
WCBD	ak 5000	Dnl	Chicago, Ill.	
WMBI	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 5000 C St. Louis, Mo. -7:00 am-1:00 am

1100 kcys. (272.6)

CBR ak 5000 F Vancouver, B. C.
 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)

CMCH z 5000 P Havana, Cuba
 CM CJ ak 500 X Havana, Cuba
 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. O. -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. O.
 KFIO ak 100 D Spokane, Wash.
 KFSG ak 500 a (2.5) Los Angeles, Calif.
 KRKD ak 500 a (2.5) Los Angeles, Calif. -9:00 am-3:00 am
 KRSC ak 250 Seattle, Wash.
 KTBC z 1000 DP Austin, Texas
 WCOP ak 500 D Boston, Mass. -8:00 am-4:00 pm
 WDEL ak 250 R (.5) Wilmington, Del. -9:00 am-11:00 pm
 WISN ak 250 C (1) Milwaukee, Wis. -8:00 am-1:00 am
 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)

CMCW dk 500 Havana, Cuba
 KVOO ak 25000 N1 Tulsa, Okla.
 WAPI ak 5000 C1 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.
 WWVA 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 keys. (256.3)

CMBD ak 500 X Havana, Cuba -7:00 pm—midnight
 WCAU ak 50000 C Philadelphia, Pa. -7:30 am—1:00 am

1180 keys. (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 keys. (252.0)

CMKX z Santiago, Cuba
 KTKC ak 250 D Visalia, Calif.
 VONF ak 500 1195 St. John's, Nfld.
 WATR ak 100 DXZ Waterbury, Conn.
 WOAI ak 50000 N San Antonio, Tex. -7:30 am—12:30 am
 WSAZ ak 1000 Huntington, W. Va. -7:00 am—7:00 pm

1200 keys. (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 z 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.
 KGCI z 100 DP Coeur d'Alene, Idaho
 KGDE c 100 (.25) Fergus Falls, Minn. -8:00 am—10:00 pm
 KGEG ak 100 Sterling, Colo.
 KGFI ak 100 Los Angeles, Calif. -24 hours daily
 KGGI ak 100 (.25) Little Rock, Ark. -8:30 am—11:00 pm
 KGVL z 100 DP Greenville, Texas
 KMLB ak 100 (.25) Monroe, La.
 KOOS ak 100 (.25) Marshfield, Ore. -10:00 am—7:45 pm
 KSUN ak 100 (.25) Lowell, Ariz. -11:00 am—midnight
 KVCV ak 100 Redding, Calif.
 KVEC z 250 D San Luis Obispo, Calif.
 KVOS dk 100 M Bellingham, Wash.
 KWG ak 100 N Stockton, Calif. -10:00 am—3:00 am
 KWNO z 250 D Winona, Minn.
 WABI 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 2 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. -5:30 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.
 WMPG ak 100 (.25) Lapeer, Mich.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WOLS	z	100	D	Florence, S. C.	
WRBL	ak	100	(.25)	Columbus, Ga.	-8:00 am-10:30 pm
WSAL	z	250	D	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 keys. (247.8)

CHLT	z	100	....	Sherbrooke, P. O.	
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. O.	-8:00 am-11:00 pm
CKMC	ak	50	....	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	Monterey, Calif.	
KFJI	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.	
KHGB	z	100	D	Okmulgee, Okla.	
KIUL	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
KROY	ak	100	D	Sacramento, Calif.	
KVSO	ak	100	M	Ardmore, Okla.	-8:00 am-11:00 pm
KWTN	ak	100	....	Watertown, S. Dak.	
WALR	ak	100	....	Zanesville, Ohio	-7:00 am-9:00 pm
WBAX	ak	100	....	Wilkes-Barre, Pa.	
WBBL	ak	100	S	Richmond, Va.	
WBLY	ak	100	D	Lima, Ohio	-6:00 am-5:15 pm
WBRB	ak	100	3	Red Bank, N. J.	
WCOL	ak	100	N	Columbus, Ohio	-7:00 am-11:00 pm
WCRW	ak	100	4	Chicago, Ill.	-11:00 am-7:00 pm
WEBQ	ak	100	5 (.25)	Harrisburg, Ill.	
WEDC	ak	100	4	Chicago, Ill.	
WFAS	ak	100	3	White Plains, N. Y.	
WFOY	ak	100	(.25)	St. Augustine, Fla.	
WGBB	ak	100	3	Freeport, N. Y.	
WGCM	ak	100	(.25)	Gulfport, Miss.	
WGNV	ak	100	3	Newburgh, N. Y.	-7:30 am-midnight
WGRM	ak	100	....	Grenada, Miss.	
WHAI	z	250	DP	Greenfield, Mass.	
WHBF	ak	100	(.25)	Rock Island, Ill.	-7:00 am-1:05 am
WHBU	ak	100	(.25)	Anderson, Ind.	
WIBU	ak	100	(.25)	Poynette, Wis.	
WJBY	ak	100	(.25)	CadSDen, Ala.	-8:00 am-10:30 pm
WJEJ	ak	50	Dn(.1)	Hagerstown, Md.	
WJIM	z	100	(.25)	Lansing, Mich.	-7:15 am-12:30 am
WJTN	ak	100	B (.25)	Jamestown, N. Y.	
WJW	ak	100	(.25)	Akron, Ohio	-8:00 am-10:30 pm
WKOK	ak	100	....	Sunbury, Pa.	-6:00 am-midnight
WLMU	z	100	P (.25)	Middlesboro, Ky.	
WMFG	ak	100	(.25)	Hibbing, Minn.	-7:30 am-10:00 pm
WOMT	ak	100	....	Manitowoc, Wis.	
WPAX	ak	100	D	Thomasville, Ga.	-8:00 am-6:00 pm
WSAY	z	100	D	Rochester, N. Y.	
WSBC	ak	100	4 (.25)	Chicago, Ill.	-6:00 am-midnight
WSIX	ak	100	(.25)	Nashville, Tenn.	-7:00 am-1:00 am
WSNJ	z	100	D	Bridgeton, N. J.	
WSOC	ak	100	N (.25)	Charlotte, N. C.	-7:00 am-midnight
WTAX	ak	100	....	Springfield, Ill.	
XEAT	ak	250	....	Parral, Chih.	-11:00 am-9:00 pm
XEE	ak	50	....	Durango, Dgo.	
XEFV	ak	100	....	Juarez, Chih.	
XETH	ak	100	....	Puebla, Pue.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1220 keys. (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 keys. (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.	
TGW	ak	10000	....	Guatemala City, Gt.	
WFBM	ak	1000	C (5)	Indianapolis, Ind.	-7:30 am-1:00 am
WNAC	ak	1000	R (5)	Boston, Mass.	-5:00 am-1:00 am
XEFJ	ak	100	....	Monterrey, N. L.	-11:00 am-8:00 pm

1240 keys. (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	
WKAQ	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 keys. (239.9)

CMCK	ak	150	....	Santiago, Cuba	
KFOX	ak	1000	....	Long Beach, Calif.	
KIT	ak	250	M (.5)	Yakima, Wash.	
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 keys. (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 keys. (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	....	....	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
WIBA	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
KFYO	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	
KPBM	z	100	DP	Poplar Bluff, Mo.	
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	(.25)	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
WFBC	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.	

1320 keys. (227.1)

CMOX	ak	200	.....	Havana, Cuba	
KGHF	ak	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 keys. (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 keys. (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 keys. (222.1)

CMCA	ak	450	X	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 keys. (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 keys. (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.	
KVRS	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	ak	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.	
WHBO	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	C (.25)	Virginia, Minn.	
WIBM	ak	100	(.25)	Jackson, Mich.	-6:30 am-12:30 am
WLLH	ak	100	Sy	Lawrence, Mass.	-7:30 am-midnight
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
WSVS	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.
.....	2	100	....	Owen Sound, Ont.

1380 keys. (217.3)

CMCX	z	150	....	Havana, Cuba	-9:00 am-11:00 pm
KOH	ak	500	C	Reno, Nevada	-11:00 am-3:00 am
KQV	ak	500	C1	Pittsburgh, Pa.	-7:00 am-10:00 pm
WALA	ak	500	C (1)	Mobile, Ala.	-8:30 am-midnight
WKBH	ak	1000	C	La Crosse, Wis.	
WNBC	ak	250	D	New Britain, Conn.	-7:00 am-ss
WSMK	ak	200	C1	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	C	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.	
CMCQ	ak	250	X	Havana, Cuba	
KFJM	ak	500	(1)	Grand Forks, N. D.	
KGNC	ak	1000	(2.5) N	Amarillo, Texas	
KMED	ck	250	N	Medford, Ore.	
WAAB	ak	500	M (1)	Boston, Mass.	-24 hours daily
WBCM	ak	500	(1)	Bay City, Mich.	-9:00 am-12:30 am
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.	
KGIW	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	ak	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.	
WACO	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.	
WMSB	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	
.....	z	100	....	Kenora, Ont.	

1430 keys. (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	
WHEC	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 keys. (208.2)

CMOA	z	150	....	Havana, Cuba	
KDFN	ak	500	....	Casper, Wyo.	
KELA	ak	500	MP	Centralia, Wash.	
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 keys. (206.8)

CFCT	ak	500	....	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	
KGCX	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 keys. (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 keys. (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	(.25)	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	100	M(.25)	Wenatchee, Wash.	
KRRR	ak	100	M(.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	1(.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	....	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.	
WMBO	ak	100	1	Brooklyn, N. Y.	
WMEX	ak	100	(.25)	Boston, Mass.	
WNBK	ak	100	C(.25)	Binghamton, N. Y.	
WNLC	ak	100	DM	New London, Conn.	
WOMI	z	100	P(.25)	Owensboro, Ky.	
WOPJ	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	1(.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 C	KERN 1370 100 N	KTMS 1220 500 B	WFLA 620 1000 N
WBRC 930 1000 R	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	WLAK 1310 100
WBHP 1200 100	Eureka	COLORADO	Miami
Mobile	KIEM 1450 500M	Alamosa	WIOD 610 1000 N
WALA 1380 500 C	Fresno	KGIW 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
WIIBB 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 50000 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	KFXJ 1200 100	Tallahassee
KINY 1310 100	KFAC 1300 1000	Greeley	WTAL 1310 100
Ketchikan	KFI 640 50000 R	KFKA 880 500M	Tampa
KGBU 900 500	KFSG 1120 500	La Junta	WDAE 1220 1000 C
ARIZONA	KFVD 1000 1000	KOKO 1370 100	West Palm Beach
Jerome	KGFJ 1200 100	Lamar	WJNO 1200 100 C
CCRJ 1310 100	KHJ 900 1000M	KIDW 1420 100	GEORGIA
Lowell	KMTR 570 1000	Pueblo	Albany
KSUN 1200 100	KNX 1050 50000 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	KYOS 1040 250	CONNECTICUT	WATL 1370 100
Tucson	Modesto	Bridgeport	WGST 890 1000 C
KGAR 1370 100	KTRB 740 250	WICC 600 500M	WSB 740 50000 R
KVOA 1260 1000	Monterey	Hartford	Augusta
Yuma	KDON 1210 100M	WDRC 1330 1000 C	WRDW 1500 100 C
KUMA 1420 100	Oakland	WTIC 1040 50000 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	WTOC 1260 1000 C
Jonesboro	KROY 1210 100	WBRY 1530 1000M	Columbus
KBTM 1200 100	San Bernardino	DELAWARE	WRBL 1200 100
Little Rock	KFXM 1210 100M	Wilmington	Griffin
KARK 890 500 N	San Diego	WDEL 1120 250 R	WKEU 1500 100
KGHI 1200 100	KFSD 600 1000 B	WILM 1420 100	Macon
KLRA 1390 1000 C	KGB 1330 1000M	DISTRICT OF COLUMBIA	WMAZ 1180 1000 C
Pine Bluff	San Francisco	Washington	Rome
KOTN 1500 100	KFRC 610 1000M	WJSV 1460 10000 C	WRGA 1500 100
Siloam Springs	KGCC 1420 100	WMAL 630 250 B	Savannah
KUOA 1260 5000	KGO 790 7500 B	WOL 1310 100M	WTOC 1260 1000 C
	KJBS 1070 500	WRC 950 500 R	Thomasville
	KPO 680 50000 R		WPAX 1210 100
	KSFO 560 1000 C		Waycross
	KYA 1230 1000		WAYX 1200 100
	San Jose		HAWAII
	KQW 1010 1000M		Hilo
	San Luis Obispo		KHBC 1400 250M
	KVEC 1200 250		Honolulu
	Santa Ana		KGMB 1320 1000 C
	KVOE 1500 100M		KGU 750 2500 N
			IDAHO
			Boise
			KIDO 1350 1000 N

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Coeur d'Alene KGGI 1200 100 Idaho Falls KID 1320 500 Lewiston KRLC 1390 250 Nampa KFXD 1200 100 Pocatello KSEI 900 250 Twin Falls KTFI 1240 1000	Fort Wayne WGL 1370 100 N WOWO 1160 10000 B Gary WIND 560 1000 Hammond WHIP 1480 5000 WWAE 1200 100 Indianapolis WFBM 1230 1000 C WGVA 1050 1000 WIRE 1400 1000 R Muncie WLBC 1310 100 New Albany WGRC 1370 250 Richmond WKBV 1500 100 South Bend WFAM 1200 100 WSBT 1360 500 Terre Haute WBOW 1310 100 N West Lafayette WBAA 890 500	Kansas City KCKN 1310 100 Lawrence KFKU 1220 1000 WREN 1220 1000 B Manhattan KSAC 580 500 Pittsburg KOAM 790 1000 N Salina KSAL 1500 100 Topeka WIBW 580 1000 C Wichita KANS 1210 100 B KFH 1300 1000 C	MARYLAND Baltimore WBAL 760 2500 B WBAL 1060 1000 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
ILLINOIS Bloomington WJBC 1200 100 Carthage WCAZ 1070 100 Champaign WDWS 1370 100 Chicago WAAF 920 1000 WBBM 770 50000 C WCB D 1080 5000 WCFL 970 5000 N WCRW 1210 100 WEDC 1210 100 WENR 870 50000 B WGES 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	IOWA Ames WOI 640 5000 Boone KFGQ 1370 100 Cedar Rapids WMT 600 1000 B Davenport WOC 1370 100 C Decorah KGCA 1270 100 KWLC 1270 100 Des Moines KRNT 1320 1000 C KSO 1430 500 B WHO 1000 50000 R Dubuque KDTH 1340 500 Iowa City WSUI 880 500 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	KENTUCKY Ashland WCMI 1310 100 Covington WCKY 1490 10000 N Lexington WLAP 1420 100 Louisville WAVE 940 1000 N WHAS 820 50000 C Middlesboro WLMU 1210 100 Owensboro WOMI 1500 100 Paducah WPAD 1420 100	MASSACHUSETTS Boston WAAB 1410 500 M WBZ 990 50000 B WCOP 1120 500 WEEL 590 1000 C WHDH 830 1000 WMEX 1500 100 WNAC 1230 1000 R WORL 920 500 Fall River WSAR 1450 1000 M Greenfield WHAI 1210 250 Lawrence WLaw 680 1000 WLLH 1370 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
INDIANA Anderson WHBU 1210 100 Elkhart WTRC 1310 100 Evansville WEOA 1370 100 C WGBF 630 500 N	KANSAS Abilene KFBI 1050 5000 Coffeyville KGGF 1010 1000 M Dodge City KGNO 1340 250 Garden City KIUL 1210 100 Great Bend KVGB 1370 100 Hutchinson KWBG 1420 100	LOUISIANA Alexandria 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 WVL 850 10000 C Shreveport KRMD 1310 100 KTBS 1450 1000 N KWKH 1100 10000 C	MICHIGAN Battle Creek 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
		MAINE Augusta WRDO 1370 100 M Bangor WABI 1200 100 WLBZ 620 500 C Portland WCSH 940 1000 R WGAN 640 500 Presque Isle WAGM 1420 100	

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<p>Kalamazoo WKZO 590 1000 B</p> <p>Lansing WJIM 1210 100</p> <p>Lapeer WMPK 1200 100</p> <p>Marquette WBEO 1310 100</p> <p>Muskegon WKBZ 1500 100</p> <p>Royal Oak WEXL 1310 50</p> <p>Saginaw WHAL 950 500</p> <hr/> <p style="text-align: center;">MINNESOTA</p> <hr/> <p>Albert Lea KATE 1420 250</p> <p>Duluth KDAL 1500 100 C WEBC 1290 1000 N</p> <p>Fergus Falls KGDE 1200 100</p> <p>Hibbing WMFG 1210 100</p> <p>Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WLB 1250 1000 WTCN 1250 1000 B</p> <p>Moorhead KVOX 1310 100</p> <p>Northfield WCAL 1250 1000</p> <p>Rochester KROC 1310 100</p> <p>St. Cloud KFAM 1420 100</p> <p>St. Paul KSTP 1460 10000 R WMIN 1370 100</p> <p>Virginia WHLB 1370 100 C</p> <p>Winona KWNO 1200 250</p> <hr/> <p style="text-align: center;">MISSISSIPPI</p> <hr/> <p>Grenada WGRM 1210 100</p> <p>Gulfport WGCM 1210 100</p> <p>Hattiesburg WFOR 1370 100</p> <p>Jackson WJDX 1270 1000 R</p> <p>Kosciusko WHEF 1500 100</p> <p>Laurel WAML 1310 100</p> <p>Meridian WCOC 880 500 C</p> <p>Vicksburg WQBC 1360 1000</p> <hr/> <p style="text-align: center;">MISSOURI</p> <hr/> <p>Cape Girardeau KFVS 1210 100</p> <p>Columbia KFRU 630 500</p> <p>Jefferson City KWOS 1310 100</p> <p>Joplin WMBH 1420 100</p>	<p>Kansas City KCMO 1370 100 KMBC 950 1000 C KXBY 1530 1000 WDAF 610 1000 R WHB 860 1000M</p> <p>Poplar Bluff KPBM 1310 100</p> <p>St. Joseph KFEQ 680 2500</p> <p>St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100</p> <p>Springfield KGBX 1230 500 N KWTO 560 5000</p> <hr/> <p style="text-align: center;">MONTANA</p> <hr/> <p>Billings KGHL 780 1000 N</p> <p>Butte KGR 1340 1000 N Great Falls KFBB 1280 1000 C</p> <p>Helena KPPA 1210 100</p> <p>Kalispell KGEZ 1310 100</p> <p>Lewistown KDNC 1200 100</p> <p>Missoula KGVO 1260 1000 C</p> <p>Wolf Point KGCX 1450 1000</p> <hr/> <p style="text-align: center;">NEBRASKA</p> <hr/> <p>Clay Center KMMJ 740 1000</p> <p>Kearney KGFV 1310 100</p> <p>Lincoln KFAB 770 10000 C KFOR 1210 100 C</p> <p>Norfolk WJAG 1060 1000</p> <p>North Platte KGNF 1430 1000</p> <p>Omaha KOIL 1260 1000 B WAAW 660 500 WOW 590 1000 R</p> <p>Scottsbluff KGGY 1500 100</p> <hr/> <p style="text-align: center;">NEVADA</p> <hr/> <p>Reno KOH 1380 500 C</p> <hr/> <p style="text-align: center;">NEW HAMPSHIRE</p> <hr/> <p>Laconia WLNH 1310 100M</p> <p>Manchester WFEA 1340 500 N</p> <p>Portsmouth WHEB 740 250</p> <hr/> <p style="text-align: center;">NEW JERSEY</p> <hr/> <p>Asbury Park WCAP 1280 500</p>	<p>Atlantic City WPG 1100 5000 C</p> <p>Bridgeton WSNJ 1210 100</p> <p>Camden WCAM 1280 500</p> <p>Jersey City WAAT 940 500 WHOM 1450 250</p> <p>Newark WHBI 1250 1000 WOR 710 50000M</p> <p>Red Bank WBRB 1210 100</p> <p>Trenton WTNJ 1280 500</p> <p>Whippany W3XDD 50000</p> <p>Zarephath WAWZ 1350 500</p> <hr/> <p style="text-align: center;">NEW MEXICO</p> <hr/> <p>Albuquerque KGGM 1230 1000 KOB 1180 10000 N</p> <p>Carlsbad KLAH 1210 100</p> <p>Clovis KICA 1370 100</p> <p>Gallup KAWM 1500 100</p> <p>Roswell KGFL 1370 100</p> <p>Santa Fe KROA 1310 100</p> <hr/> <p style="text-align: center;">NEW YORK</p> <hr/> <p>Albany WABY 1370 100 WOKO 1430 500 C</p> <p>Auburn WMBO 1310 100</p> <p>Binghamton WBNF 1500 100 C</p> <p>Brooklyn WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 WMBQ 1500 100 WVFW 1400 500</p> <p>Buffalo WBEN 900 1000 R WBNY 1370 100 WEBR 1310 100 B WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50</p> <p>Canton WCAD 1220 500</p> <p>Elmira WESG 850 1000 C</p> <p>Freeport WGBB 1210 100</p> <p>Jamestown WJTN 1210 100 B</p> <p>Newburgh WGNV 1210 100</p> <p>New York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000</p>	<p>WBOQ 860 50000 WEAF 660 50000 R WEVD 1380 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</p> <p>Olean WHDL 1400 250</p> <p>Plattsburg WMFF 1310 100</p> <p>Rochester WHAM 1150 50000 B WHEC 1430 500 C WSAY 1210 100</p> <p>Saranac Lake WNBZ 1290 100</p> <p>Schenectady WGY 790 50000 R</p> <p>Syracuse WFBL 1360 1000 C WSYR 570 1000 B</p> <p>Troy WHAZ 1300 1000</p> <p>Utica WIBX 1200 100 C</p> <p>Watertown WNNY 1420 100</p> <p>White Plains WFAS 1210 100</p> <p>Woodside WWRL 1500 100</p> <hr/> <p style="text-align: center;">NORTH CAROLINA</p> <hr/> <p>Asheville WWNC 570 1000 N</p> <p>Charlotte WBT 1080 50000 C WSOC 1210 100 N</p> <p>Durham WDNC 1500 100 C</p> <p>Greensboro WBG 1440 1000 C</p> <p>High Point WMFR 1200 100</p> <p>Kinston WFTC 1200 100</p> <p>Raleigh WPTF 680 1000 N</p> <p>Rocky Mount WEED 1420 100</p> <p>Wilmington WMFD 1370 100</p> <p>Wilson WGTM 1310 100</p> <p>Winston-Salem WAIR 1250 250 WSJS 1310 100 C</p> <hr/> <p style="text-align: center;">NORTH DAKOTA</p> <hr/> <p>Bismarck KFYR 550 1000 N</p> <p>Devils Lake KDLR 1210 100</p> <p>Fargo WDAY 940 1000 N</p> <p>Grand Forks KFJM 1410 500</p>
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<p>Jamestown KRMC 1370 100</p> <p>Mandan KGCU 1240 250</p> <p>Minot KLPM 1240 250</p> <p>Valley City KOVG 1500 100</p> <hr/> <p style="text-align: center;">OHIO</p> <hr/> <p>Akron WADC 1320 1000 C WJW 1210 100</p> <p>Ashtabula WICA 940 250</p> <p>Canton WHBC 1200 100</p> <p>Cincinnati WCPO 1200 100 WKRC 550 1000 C WLW 700 500000 N WSAI 1330 1000 N W8XO 700 500000</p> <p>Cleveland WCLE 610 500M WGAR 1450 500 C WHK 1390 1000 B WTAM 1070 50000 R</p> <p>Columbus WBNS 1430 500 C WCOL 1210 100 N WHKC 640 500 WOSU 570 750</p> <p>Dayton WHIO 1260 1000 C WSMK 1380 200 C</p> <p>Lima WBLY 1210 100</p> <p>Portsmouth WPAY 1370 100</p> <p>Toledo WSPD 1340 1000 B WTOL 1200 100</p> <p>Youngstown WKBN 570 500 C</p> <p>Zanesville WALR 1210 100</p> <hr/> <p style="text-align: center;">OKLAHOMA</p> <hr/> <p>Ada KADA 1200 100M</p> <p>Ardmore KVSO 1210 100M</p> <p>Elk City KASA 1210 100M</p> <p>Enid KCRC 1360 250M</p> <p>Muskogee KBIX 1500 100M</p> <p>Norman WNAD 1010 1000</p> <p>Oklahoma City KFXR 1310 100 KOMA 1480 5000 C KTOK 1370 100M WKY 900 1000 N</p> <p>Okmulgee KHBG 1210 100</p> <p>Ponca City WBBZ 1200 100M</p> <p>Shawnee KGFF 1420 100M</p>	<p>Tulsa KTUL 1400 500 C KVOO 1140 25000 N</p> <hr/> <p style="text-align: center;">OREGON</p> <hr/> <p>Astoria KAST 1370 100</p> <p>Corvallis KOAC 550 1000</p> <p>Eugene KORE 1420 100M</p> <p>Klamath Falls KFJI 1210 100</p> <p>La Grande KLBW 1420 100</p> <p>Marshfield KOOS 1200 100</p> <p>Medford KMED 1410 250 N</p> <p>Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 B KGW 620 1000 R KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100</p> <p>Roseburg KRNR 1500 100M</p> <p>Salem KSLM 1370 100M</p> <hr/> <p style="text-align: center;">PENNSYLVANIA</p> <hr/> <p>Allentown WCBA 1440 500 WSAN 1440 500 N</p> <p>Altoona WFBG 1310 100</p> <p>Easton WEST 1200 100</p> <p>Erie WLEU 1420 100 B</p> <p>Glenside WIBG 970 100</p> <p>Greensburg WHJB 620 250 C</p> <p>Grove City WSAJ 1310 100</p> <p>Harrisburg WHP 1430 500 C WKBO 1200 100</p> <p>Hazleton WAZL 1420 100</p> <p>Johnstown WJAC 1310 100</p> <p>Lancaster WGAL 1500 100</p> <p>Philadelphia KYW 1020 1000 R WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 100 WPEN 920 1000 WTEL 1310 100</p> <p>Pittsburgh KDKA 980 50000 B KQV 1380 500 C WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100</p>	<p>Reading WEEU 830 1000 WRAW 1310 100</p> <p>Scranton WGBI 880 500 WQAN 880 500</p> <p>Sunbury WKOK 1210 100</p> <p>Uniontown WMBS 1420 250</p> <p>Wilkes-Barre WBAX 1210 100 WBRE 1310 100</p> <p>Williamsport WRAC 1370 100</p> <p>York WORK 1320 1000 N</p> <hr/> <p style="text-align: center;">PUERTO RICO</p> <hr/> <p>Mayaguez WPRR 1370 100</p> <p>Ponce WPRP 1420 100</p> <p>San Juan WKAQ 1240 1000 WNEL 1290 1000</p> <hr/> <p style="text-align: center;">RHODE ISLAND</p> <hr/> <p>Providence WEAN 780 1000M WJAR 890 1000 R WPRO 630 500 C</p> <hr/> <p style="text-align: center;">SOUTH CAROLINA</p> <hr/> <p>Anderson WAIM 1200 100 C</p> <p>Charleston WCSC 1360 500 N</p> <p>Columbia WIS 560 1000 N</p> <p>Florence WOLS 1200 100</p> <p>Greenville WFBC 1300 1000 N</p> <p>Spartanburg WSPA 920 1000</p> <hr/> <p style="text-align: center;">SOUTH DAKOTA</p> <hr/> <p>Aberdeen KABR 1420 100</p> <p>Brookings KFDY 780 1000</p> <p>Huron KGDY 1340 250</p> <p>Pierre KGFX 630 200</p> <p>Rapid City KOBH 1370 100 WCAT 1200 100</p> <p>Sioux Falls KELO 1200 100 N KSOO 1110 2500 N</p> <p>Vermillion KUSD 890 500</p> <p>Watertown KWTN 1210 100</p> <p>Yankton WNAX 570 1000 C</p> <hr/> <p style="text-align: center;">TENNESSEE</p> <hr/> <p>Bristol WOPI 1500 100</p>	<p>Chattanooga WAPO 1420 100 WDOD 1280 1000 C</p> <p>Jackson WTJS 1310 100</p> <p>Knoxville WNOX 1010 1000 C WROL 1310 100 N</p> <p>Memphis WHBQ 1370 100 WMC 780 1000 R WMPS 1430 500 B WREC 600 1000 C</p> <p>Nashville WLAC 1470 5000 C WSIX 1210 100 WSM 650 50000 N</p> <hr/> <p style="text-align: center;">TEXAS</p> <hr/> <p>Ablene KRBR 1420 100</p> <p>Amarillo KGNC 1410 1000 N</p> <p>Austin KNOW 1500 100 C KTBC 1120 1000</p> <p>Beaumont KFDM 560 500 N</p> <p>Big Spring KBST 1500 100</p> <p>Brady KNEL 1500 250</p> <p>Brownsville KGFJ 1500 100</p> <p>College Station WTAW 1120 500</p> <p>Corpus Christi KRIS 1330 500 N</p> <p>Corsicana KAND 1310 100</p> <p>Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M</p> <p>Dublin KFPL 1310 100</p> <p>El Paso KROD 1500 100 KTSM 1310 100 WDAH 1310 100</p> <p>Fort Worth KFJZ 1370 100 KTAT 1240 1000M WBAP 800 50000 N</p> <p>Galveston KLUF 1370 100</p> <p>Greenville KGVL 1200 100</p> <p>Houston KPRC 920 1000 R KTRH 1290 1000 C KXYZ 1440 1000 B</p> <p>Kilgore KOCA 1210 100</p> <p>Longview KFRO 1370 250</p> <p>Lubbock KFYO 1310 100</p> <p>Lufkin KRBA 1310 100</p> <p>Midland KRLH 1420 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Palestine KNET 1420 100</p> <p>Pampa KPDN 1310 100</p> <p>Paris KPLT 1500 250</p> <p>Pecos KIUN 1420 100</p> <p>Port Arthur KPAC 1260 500</p> <p>San Angelo KGKL 1370 100</p> <p>San Antonio KABC 1420 100 KMAC 1370 100 KONO 1370 100 KTSA 550 1000 C WOAI 1190 50000 N</p> <p>Sherman KRRV 1310 250</p> <p>Temple KTEM 1370 250</p> <p>Texarkana KCMC 1420 100</p> <p>Tyler KGKB 1500 100</p> <p>Waco WACO 1420 100 C</p> <p>Weslaco KRGV 1260 1000 N Wichita Falls KGKO 570 250 C</p> <hr/> <p style="text-align: center;">UTAH</p> <hr/> <p>Cedar City KSUB 1310 100</p> <p>Ogden KLO 1400 500 B</p> <p>Price KEUB 1420 100</p> <p>Salt Lake City KDYL 1290 1000 R KSL 1130 50000 C KUTA 1500 100</p> <hr/> <p style="text-align: center;">VERMONT</p> <hr/> <p>Burlington WCAX 1200 100</p> <p>Rutland WSYB 1500 100</p> <p>St. Albans WQDM 1390 1000</p> <p>Springfield WNBX 1260 500 C</p> <p>Waterbury WDEV 550 500</p> <hr/> <p style="text-align: center;">VIRGINIA</p> <hr/> <p>Charlottesville WCHV 1420 100</p> <p>Danville WBTM 1370 100</p> <p>Harrisonburg WSVA 550 500</p> <p>Lynchburg WLVA 1200 100</p> <p>Newport News WGH 1310 100</p> <p>Norfolk WTAR 780 1000 N</p> <p>Richmond WBLL 1210 100 WMBG 1350 500 R WRNL 880 500</p>	<p>WRTD 1500 100 B WRVA 1110 5000 C Roanoke WDBJ 930 1000 C</p> <hr/> <p style="text-align: center;">WASHINGTON</p> <hr/> <p>Aberdeen KXRO 1310 100M</p> <p>Bellingham KVOS 1200 100M</p> <p>Centralia KELA 1440 500M</p> <p>Everett KRKO 1370 50</p> <p>Longview KWLK 780 250</p> <p>Olympia KGY 1210 100M</p> <p>Pullman KWSC 1220 1000</p> <p>Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250</p> <p>Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R</p> <p>Tacoma KMO 1330 1000M KVI 570 1000 C</p> <p>Walla Walla KUJ 1370 100</p> <p>Wenatchee KPO 1500 100M</p> <p>Yakima KIT 1250 250M</p> <hr/> <p style="text-align: center;">WEST VIRGINIA</p> <hr/> <p>Bluefield WHIS 1410 500</p> <p>Charleston WCHS 580 500 C</p> <p>Clarksburg WBLK 1370 100</p> <p>Fairmont WMMN 890 500 C</p> <p>Huntington WSAZ 1190 1000</p> <p>Parkersburg WPAR 1420 100 C</p> <p>Wheeling WWVA 1160 5000 C</p> <hr/> <p style="text-align: center;">WISCONSIN</p> <hr/> <p>Eau Claire WEAU 1050 1000</p> <p>Fond du Lac KFIZ 1420 100</p> <p>Green Bay WHBY 1200 100</p> <p>Janesville WTAQ 1330 1000 C</p> <p>LaCrosse WCLO 1200 100</p> <p>Madison WKBH 1380 1000 C</p> <p>WHA 940 5000 WIBA 1280 1000 N</p>	<p>Manitowoc WOMT 1210 100</p> <p>Milwaukee WEMP 1310 100</p> <p>WISN 1120 250 C WTMJ 620 1000 N</p> <p>Poynette WIBU 1210 100</p> <p>Racine WRJN 1370 100</p> <p>Sheboygan WHBL 1300 250</p> <p>Stevens Point WLBL 900 5000</p> <p>Superior WDSM 1200 100</p> <p>Wausau WSAU 1370 100</p> <hr/> <p style="text-align: center;">WYOMING</p> <hr/> <p>Casper KDFN 1440 500</p> <p>Rock Springs KVRS 1370 100</p> <p>Sheridan KWYO 1370 100</p> <hr/> <p style="text-align: center;">BAHAMAS</p> <hr/> <p>Nassau ZNS 540 400</p> <hr/> <p style="text-align: center;">CANADA</p> <hr/> <p style="text-align: center;">ALBERTA</p> <hr/> <p>Calgary CFAC 930 1000 F CFCN 1030 10000 F CJGJ 690 100 F</p> <p>Edmonton CFRN 960 100 F CJCA 730 1000 F CKUA 580 500 F</p> <p>Grande Prairie CFGP 1200 100</p> <p>Lethbridge CJOC 950 100 F</p> <hr/> <p style="text-align: center;">BRIT. COLUMBIA</p> <hr/> <p>Chilliwack CHWK 780 100 F</p> <p>Kamloops CFJC 880 1000 F</p> <p>Kelowna CKOV 630 100 F</p> <p>Prince Rupert CFPR 580 50</p> <p>Trail CJAT 910 1000 F</p> <p>Vancouver CBR 1100 5000 F CJOR 600 500 CKCD 1010 100 CKFC 1410 50 CKMO 1410 100 CKWX 1010 100</p> <p>Victoria CFCT 1450 500</p> <hr/> <p style="text-align: center;">MANITOBA</p> <hr/> <p>Brandon CKX 1120 1000 F</p> <p>Flin Flon CFAR 1370 100</p>	<p>Winnipeg CJRC 630 500 F CKY 910 15000 F</p> <hr/> <p style="text-align: center;">NEW BRUNSWICK</p> <hr/> <p>Fredericton CFNB 550 500 F</p> <p>Moncton CKCW 1370 100 F</p> <p>St. John CHSJ 1120 500 F</p> <hr/> <p style="text-align: center;">N. W. TERRITORY</p> <hr/> <p>Aklavik CJCU 1210 50</p> <hr/> <p style="text-align: center;">NOVA SCOTIA</p> <hr/> <p>Glace Bay VAS 685 2000</p> <p>Halifax CHNS 930 1000 F</p> <p>Sydney CJCB 1240 1000 F</p> <p>Wolfville CKIK 1010 50</p> <p>Yarmouth CJLS 1310 100</p> <hr/> <p style="text-align: center;">ONTARIO</p> <hr/> <p>Brantford CKPC 930 100 F</p> <p>Chatham CFCO 630 100 F</p> <p>Cobalt CKMC 1210 50</p> <p>Fort William CKPR 730 100 F</p> <p>Hamilton CHML 1010 100 F CKOC 1120 500 F</p> <p>Kenora 1420 100</p> <p>Kingston CFRC 1510 100 F</p> <p>London CFPL 730 100 F</p> <p>North Bay CFCH 930 100 F CJKL 1310 100 CKGB 1420 100</p> <p>Ottawa CBO 880 1000 F CKCO 1010 100 F</p> <p>Owen Sound 1370 100</p> <p>Prescott CFCL 930 100</p> <p>St. Catharines CKTB 1200 100 F</p> <p>Sault Ste. Marie CJIC 1500 100</p> <p>Stratford CJCS 1210 50</p> <p>Sudbury CKSO 780 1000 F</p> <p>Toronto CBL 840 50000 CFRB 690 10000 C CKCL 580 100 F CRCT 840 5000 N CRCY 960 100 F</p> <p>Waterloo CKCR 1510 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Windsor		
CBW	600	500 F
CKLW	1030	5000M
Wingham		
CKNX	1200	100

PRINCE EDWARD ISLAND

Charlottetown		
CFCY	630	1000 F
CHCK	1310	50
Summerside		
CHGS	1450	50 F

QUEBEC

Chicoutimi		
CRCS	1120	100 F
Hull		
CKCH	1210	100 F
Montreal		
CBF	910	50000 N
CBM	1050	5000 F
CFCF	600	500 B
CHLP	1120	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

SASKATCHEWAN

Moose Jaw		
CHAB	1200	100 F
Prince Albert		
CKBI	1210	100 F
Regina		
CJRM	540	1000 F
CKCK	1010	1000 F
Saskatoon		
CFOC	840	1000 F
Yorkton		
CJGX	1390	100 F

COSTA RICA

San Jose		
TIEP	880	1000
TIPG	625	2000

CUBA

Caibarien		
CMHD	1270	250
Camaguey		
CMJA	1010	300
CMJC	1390	150
CMJE	1220	50
CMJF	1150	200
CMJK	780	250
CMJL	1340	75
CMJX	830	500
Cardenas		
CMGE	1370	150
Ciego de Avila		
CMJH	1360	50

GMJI	1130	150
GMJO	1180	50
Gienfuegos		
GMHJ	1160	175
GMHM	1450	100
GMHW	820	100
GMHX	760	200

Cruces

GMHK	1330	250
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Havana

GMBC	630	10000
GMBD	1170	500
GMBF	770	10000
GMBL	750	
GMBQ	680	5000
GMBR	770	150
GMBX	1070	500
GMBY	970	150
GMBZ	1000	500
GMC	1260	150
GMCA	1350	450
GMCB	640	150
GMCD	950	250
GMCF	810	600
GMCG	690	1000
GMCH	1110	5000
GMCI	1110	500
GMCK	1030	
GMCL	730	10000
GMCM	850	
GMCO	1200	250
GMCP	1410	250
GMCU	1290	500
GMCV	1140	500
GMCX	1380	150
GMCY	570	5000
GMK	720	3000
GMOA	1440	150
GMOX	1320	200
GMQ	600	25000
GMW	880	1400
GMX	920	1000
	630	10000

Holgün

GMFK	1460	250
GMKO	1290	
Manzanillo		
GMKN	1120	200
Matanzas		
GMGG	1400	150
GMGF	1120	250
GMGH	790	500

Moron

GMJP	1430	75
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Pinar del Rio

CMAB	1340	
Sagua la Grande		
CMHA	1070	50
Sancti Spiritus		
CMHB	1240	50
Santa Clara		
CMHI	1210	150
Santiago		
CMKC	1250	150
CMKD	1050	250
CMKG	1160	
CMKR	1400	100
CMKW	1350	
CMKX	1190	

DOMINICAN REPUBLIC

Trujillo		
HIX	800	700

GUATEMALA

Guatemala City		
TGW	1230	10000

MEXICO

AGUASCALIENTES

Aguascalientes		
XEBI	1000	25
XENC	810	350

BAJA CALIFORNIA

Mexicali		
XEAA	750	200
XEAO	660	250
XECL	1100	1700
Rosarito Beach		
XERB	730	500
Tijuana		
XEAC	980	5000
XEBG	820	1000
XEC	1150	100
XELO	670	50000
XEMO	860	5000
XEOK	760	2500

CHIHUAHUA

Chihuahua		
XEFI	1440	250
Juarez		
XEFV	1210	100
XEF	1450	100
XEJ	1020	1000
XEP	1160	500
Parral		
XEAT	1210	250

COAHUILA

Piedras Negras		
XEMU	580	
XEPN	730	100000
Sabinas		
XEBX	640	250
Saltillo		
XEAS	1160	50
XELA	1240	50
Torreón		
XETB	1310	125
Villa Acuna		
XERA	840	350000

D. F.

Atzacotalco		
XEMG	1060	100
Chapultepec		
XERO	670	
Gran. Anaya		
XEDA	1220	200
Mexico City		
XEAL	660	1000
XEAY	1240	100
XEB	1030	10000
XEBS	1240	200
XEBZ	1160	100
XEGW	1310	10
XFDP	1080	500
XEFO	930	5000
XEJP	1130	100
XEJW	870	
XEK	990	100
XEL	790	1000
XELZ	1370	100

XEMX	1280	100
XENC	860	50
XEW	890	50000
XEXE	1270	17
XEYO	940	500
Tacuba		
XEFA	1180	500

DURANGO

Durango		
XEF	1210	50

GUANAJUATO

Irapuato		
XEBO	1310	25
Leon		
XEKL	1240	500

JALISCO

Guadalajara		
XEAD	1060	125
XED	1160	2500
Guzman		
XEBA	1080	20

MICHOACAN

Morelia		
XEI	1370	125

NUEVO LEON

Monterrey		
XFFB	870	200
XFFJ	1230	100
XFG	1220	250
XFH	720	250
XET	690	5000
XFX	1310	125

PUEBLA

Puebla		
XETH	1210	100

SAN LUIS POTOSI

San Luis Potosi		
XFCZ	1370	100
XEXH	1250	250

SINALOA

Mazatlan		
XEBL	1220	50

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

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Reynosa XEAW 960 50000 Tampico XEFW 1310 250 XES 990 250	Jalapa XEXB 1270 50 XEXD 1340 350 Minatitlan XEDW 1150 20 Veracruz XETF 1220 30 XEU 1010 250	YUCATAN <hr/> Merida XEBJ 1160 20 XEFC 550 100 XEZ 630 500	VOAS 940 100 VOAM 1006 200 VOGY 840 400 VONF 1195 500 VOWR 681 500
VERACRUZ <hr/> Cordoba XEAG 1310 10		NEWFOUNDLAND St. John's VOAC 1065 40	

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.
0300-0345, KDB, 1500.
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.)

- 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. 13 (Sun.), 0100-0200, YSS, San Salvador, E. S., 640 kcs, and YSD, San Salvador, E. S., 7894 kcs.
- Feb. 20 (Sun.), 0300-0400, KECA, Los Angeles, Calif., 1430 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. 31, 1600-1700, HRD, La Ceiba, Honduras, 6235 kcs. (IDA).
- Feb. 5, 0245-0400, CHWK, 780 kcs (UDXC).
- Feb. 8, 0510-0530, KAST, 1370 kcs (UDXC).
- Feb. 12, 2330-2430, COGF, Havana, Cuba, 11805 kcs. (IDA).
- 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).

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)

NORTH AMERICAN B. C. STATIONS BY CALLS

CBF 910 Montreal, P. Q.	50000	CJAT 910 Trall, B. C.	1000	CKSO 780 Sudbury, Ont.	1000
CBL 840 Toronto, Ont.	50000	CJBR 1030 Rimouski, P. Q.	1000	CKTB 1200 St. Catharines, Ont.	100
CBM 1050 Montreal, P. Q.	5000	CJCA 730 Edmonton, Alta.	1000	CKUA 580 Edmonton, Alta.	500
CBO 880 Ottawa, Ont.	1000	CJCB 1240 Sydney, N. S.	1000	CKWX 1010 Vancouver, B. C.	100
CBR 1100 Vancouver, B. C.	5000	CJCI 690 Calgary, Alta.	100	CKX 1120 Brandon, Man.	1000
CBW 600 Windsor, Ont.	500	CJCS 1210 Stratford, Ont.	50	CKY 760 Winnipeg, Man.	15000
CFAC 930 Calgary, Alta.	1000	CJCU 1210 Aklavik, N. W. T.	50	CMAB 1340 Pinar del Rio, Cuba	
CFAR 1370 Flin Flon, Man.	100	CJGX 1390 Yorkton, Sask.	100	CMBC 630 Havana, Cuba	10000
CFCF 600 Montreal, Que.	500	CJIC 1500 S. Ste. Marie, Ont.	100	CMBD 1170 Havana, Cuba	500
CFCH 930 North Bay, Ont.	100	CJJK 1310 North Bay, Ont.	100	CMBF 770 Havana, Cuba	10000
CFCN 1030 Calgary, Alta.	10000	CJLS 1310 Yarmouth, N. S.	100	CMBL 750 Havana, Cuba	2500
CFCO 630 Chatham, Ont.	100	CJOC 950 Lethbridge, Alta.	100	CMBQ 680 Havana, Cuba	5000
CFCT 1450 Victoria, B. C.	500	CJOR 600 Vancouver, B. C.	500	CMBS 770 Havana, Cuba	150
CFCY 630 Charlottetown, P.E.I.	1000	CJRC 630 Winnipeg, Man.	500	CMBX 1070 Havana, Cuba	500
CFGP 1200 Grande Prairie, Alta.	100	CJRM 540 Regina, Sask.	1000	CMBY 970 Havana, Cuba	150
CFJC 880 Kamloops, B. C.	1000	CKAC 730 Montreal, Que.	5000	CMBZ 1000 Havana, Cuba	500
CFLC 930 Prescott, Ont.	100	CKBI 1210 Prince Albert, Sask.	100	CMC 1260 Havana, Cuba	150
CFNB 550 Fredericton, N. B.	500	CKCD 1010 Vancouver, B. C.	100	CMCA 1350 Havana, Cuba	450
CFPL 730 London, Ont.	100	CKCH 1210 Hull, Que.	100	CMCB 640 Havana, Cuba	150
CFPR 580 Prince Rupert, B. C.	50	CKCK 1010 Regina, Sask.	1000	CMCD 950 Havana, Cuba	250
CFQC 840 Saskatoon, Sask.	1000	CKCL 580 Toronto, Ont.	100	CMCF 810 Havana, Cuba	600
CFRB 690 Toronto, Ont.	10000	CKCO 1010 Ottawa, Ont.	100	CMCG 680 Havana, Cuba	1000
CFRC 1510 Kingston, Ont.	100	CKCR 1510 Waterloo, Ont.	100	CMCH 1110 Havana, Cuba	5000
CFRN 960 Edmonton, Alta.	100	CKCV 1310 Quebec, Que.	100	CMCJ 1110 Havana, Cuba	500
CHAB 1200 Moose Jaw, Sask.	100	CKCW 1370 Moncton, N. B.	100	CMCK 1030 Havana, Cuba	...
CHCK 1310 Charlottetown, P.E.I.	50	CKFC 1410 Vancouver, B. C.	50	CMCL 730 Havana, Cuba	10000
CHGS 1450 Summerside, P.E.I.	50	CKGB 1420 North Bay, Ont.	100	CMCM 850 Havana, Cuba	....
CHLN 1420 Three Rivers, P. Q.	100	CKIC 1010 Wolfville, N. S.	50	CMCO 1200 Havana, Cuba	250
CHLP 1120 Montreal, Que.	100	CKLW 1030 Windsor, Ont.	5000	CMCQ 1410 Havana, Cuba	250
CHLT 1210 Sherbrooke, P. Q.	100	CKMC 1210 Cobalt, Ont.	50	CMCU 1280 Havana, Cuba	500
CHML 1010 Hamilton, Ont.	100	CKMO 1410 Vancouver, B. C.	100	CMCW 1140 Havana, Cuba	500
CHNC 960 New Carlisle, Que.	1000	CKNX 1200 Wingham, Ont.	100	CMCX 1380 Havana, Cuba	150
CHNS 930 Halifax, N. S.	1000	CKOC 1120 Hamilton, Ont.	500	CMCY 570 Havana, Cuba	5000
CHRC 580 Quebec, Que.	100	CKOV 630 Kelowna, B. C.	100	CMGC 1400 Matanzas, Cuba	150
CHSJ 1120 St. John, N. B.	500	CKPC 930 Brantford, Ont.	100	CMGE 1370 Cardenas, Cuba	150
CHWK 780 Chilliwack, B. C.	100	CKPR 730 Fort William, Ont.	100	CMGF 1120 Matanzas, Cuba	250

NORTH AMERICAN B. C. STATIONS BY CALLS

CMGH 790 500	CRCK 950 1000	KECA 1430 1000
Matanzas, Cuba	Quebec, Que.	Los Angeles, Calif.
CMHA 1070 50	CRCS 1120 100	KEEN 1370 100
Sagua la Grande, Cuba	Chicoutimi, Que.	Seattle, Wash.
CMHB 1240 50	CRCT 840 5000	KEHE 780 1000
Sancti Spiritus, Cuba	Toronto, Ont.	Los Angeles, Calif.
CMHD 1270 250	CRCY 960 100	KELA 1440 500
Calbarien, Cuba	Toronto, Ont.	Centralla, Wash.
CMHI 1210 150	HIX 800 700	KELD 1370 100
Santa Clara, Cuba	Trujillo, D. R.	El Dorado, Ark.
CMHJ 1160 175	KABC 1420 100	KELO 1200 100
Cienfuegos, Cuba	San Antonio, Texas	Sioux Falls, S. Dak.
CMHK 1330 250	KABR 1420 100	KERN 1370 100
Cruces, Cuba	Aberdeen, S. Dak.	Bakersfield, Calif.
CMHM 1450 100	KADA 1200 100	KEUB 1420 100
Cienfuegos, Cuba	Ada, Okla.	Price, Utah
CMHW 820 100	KALB 1210 100	KEX 1180 5000
Cienfuegos, Cuba	Alexandria, La.	Portland, Ore.
CMHX 760 200	KALE 1300 500	KFAB 770 10000
Cienfuegos, Cuba	Portland, Ore.	Lincoln, Neb.
CMJA 1010 300	KAND 1310 100	KFAC 1300 1000
Camaguey, Cuba	Corsicana, Texas	Los Angeles, Calif.
CMJC 1390 150	KANS 1210 100	KFAM 1420 100
Camaguey, Cuba	Wichita, Kans.	St. Cloud, Minn.
CMJE 1220 50	KARK 890 500	KFBB 1280 1000
Camaguey, Cuba	Little Rock, Ark.	Great Falls, Mont.
CMJF 1150 200	KARM 1310 100	KFBI 1050 5000
Camaguey, Cuba	Fresno, Calif.	Abilene, Kans.
CMJH 1360 50	KASA 1210 100	KFBK 1490 5000
Ciego de Avila, Cuba	Elk City, Okla.	Sacramento, Calif.
CMJI 1130 150	KAST 1370 100	KFDM 560 500
Ciego de Avila, Cuba	Astoria, Ore.	Beaumont, Texas
CMJK 780 250	KATE 1420 250	KFDY 780 1000
Camaguey, Cuba	Albert Lea, Minn.	Brookings, S. D.
CMJL 1340 75	KAWM 1500 100	KFEL 920 500
Camaguey, Cuba	Gallup, N. Mex.	Denver, Colo.
CMJO 1180 50	KBIX 1500 100	KFEQ 680 2500
Ciego de Avila, Cuba	Muskogee, Okla.	St. Joseph, Mo.
CMJP 1430 75	KBPS 1420 100	KFGQ 1370 100
Camaguey, Cuba	Portland, Ore.	Boone, Iowa
CMJX 830 500	KBST 1500 100	KFH 1300 1000
Camaguey, Cuba	Big Spring, Texas	Wichita, Kans.
CMK 720 3000	KBTM 1200 100	KFI 640 50000
Havana, Cuba	Jonesboro, Ark.	Los Angeles, Calif.
CMKC 1250 150	KCKN 1310 100	KFIO 1120 100
Santiago, Cuba	Kansas City, Kans.	Spokane, Wash.
CMKD 1050 250	KCMC 1420 100	KFIZ 1420 100
Santiago, Cuba	Texarkana, Texas	Fond du Lac, Wis.
CMKF 1460 250	KCMO 1370 100	KFJB 1200 100
Holguin, Cuba	Kansas City, Mo.	Marshalltown, Iowa
CMKG 1160	KCRC 1360 250	KFJI 1210 100
Santiago, Cuba	Enid, Okla.	Klamath Falls, Ore.
CMKM 1120 200	KCRJ 1310 100	KFJM 1410 500
Manzanillo, Cuba	Jerome, Ariz.	Grand Forks, N. D.
CMKO 1280	KDAL 1500 100	KFJZ 1370 100
Holguin, Cuba	Duluth, Minn.	Fort Worth, Texas
CMKR 1400 100	KDB 1500 100	KFKA 880 500
Santiago, Cuba	Santa Barbara, Calif.	Greeley, Colo.
CMKW 1350	KDFN 1440 500	KFKU 1220 1000
Santiago, Cuba	Casper, Wyo.	Lawrence, Kans.
CMKX 1190	KDKA 980 50000	KFNF 890 500
Santiago, Cuba	Pittsburgh, Pa.	Shenandoah, Iowa
CMOA 1440 150	KDLR 1210 100	KFOR 1210 100
Havana, Cuba	Devils Lake, N. D.	Lincoln, Neb.
CMOX 1320 200	KDNC 1200 100	KFOX 1250 1000
Havana, Cuba	Lewistown, Mont.	Long Beach, Calif.
CMQ 600 25000	KDON 1210 100	KFPL 1310 100
Havana, Cuba	Monterey, Calif.	Dublin, Texas
CMW 880 1400	KDTH 1340 500	KFPW 1210 100
Havana, Cuba	Dubuque, Iowa	Fort Smith, Ark.
CMX 920 1000	KDYL 1290 1000	KFPY 890 1000
Havana, Cuba	Salt Lake City, Utah	Spokane, Wash.

NORTH AMERICAN B. C. STATIONS BY CALLS

KFQD 780 250 Anchorage, Alaska	KGFX 630 200 Pierre, S. D.	KINY 1310 100 Juneau, Alaska
KFRC 610 1000 San Francisco, Calif.	KGGC 1420 100 San Francisco, Calif.	KIRO 710 1000 Seattle, Wash.
KFRO 1370 250 Longview, Texas	KGGF 1010 1000 Coffeyville, Kans.	KIT 1250 250 Yakima, Wash.
KFRU 630 500 Columbia, Mo.	KGGM 1230 1000 Albuquerque, N. M.	KIUL 1210 100 Garden City, Kans.
KFSD 600 1000 San Diego, Calif.	KGHF 1320 500 Pueblo, Colo.	KIUN 1420 100 Pecos, Texas
KFSG 1120 500 Los Angeles, Calif.	KGHI 1200 100 Little Rock, Ark.	KIUP 1370 100 Durango, Colo.
KFUO 550 500 St. Louis, Mo.	KGHL 780 1000 Billings, Mont.	KJBS 1070 500 San Francisco, Calif.
KFVD 1000 1000 Los Angeles, Calif.	KGIR 1340 1000 Butte, Mont.	KJR 970 5000 Seattle, Wash.
KFVS 1210 100 Cape Girardeau, Mo	KGIW 1420 100 Alamosa, Colo.	KLAH 1210 100 Carlsbad, N. Mex.
KFWB 95 1000 Hollywood, Calif.	KGKB 1500 100 Tyler, Texas	KLBM 1420 100 La Grande, Ore.
KFXD 1200 100 Nampa, Idaho	KGKL 1370 100 San Angelo, Texas	KLCN 1290 100 Blytheville, Ark.
KFXJ 1200 100 Grand Junction, Colo.	KGKO 570 250 Wichita Falls, Texas	KLO 1400 500 Ogden, Utah
KFXM 1210 100 San Bernardino, Calif.	KGKY 1500 100 Scottsbluff, Neb.	KLPM 1240 250 Minot, N. D.
KFXR 1310 100 Oklahoma City, Okla.	KGLO 1210 100 Mason City, Iowa	KLRA 1390 1000 Little Rock, Ark.
KFYO 1310 100 Lubbock, Texas	KGMB 1320 1000 Honolulu, T. H.	KLS 1280 250 Oakland, Calif.
KFYR 550 1000 Bismarck, N. D.	KGNC 1410 1000 Amarillo, Texas	KLUF 1370 100 Galveston, Texas
KGA 1470 5000 Spokane, Wash.	KGNF 1430 1000 North Platte, Neb.	KLX 880 1000 Oakland, Calif.
KGAR 1370 100 Tucson, Ariz.	KGNO 1340 250 Dodge City, Kans.	KLZ 560 1000 Denver, Colo.
KGB 1330 1000 San Diego, Calif.	KGO 790 7500 San Francisco, Calif.	KMA 930 1000 Shenandoah, Iowa
KGBU 900 500 Ketchikan, Alaska	KGU 750 2500 Honolulu, T. H.	KMAC 1370 100 San Antonio, Texas
KGBX 1230 500 Springfield, Mo.	KGVL 1200 100 Greenville, Texas	KMBC 950 1000 Kansas City, Mo.
KGCA 1270 100 Decorah, Iowa	KGVO 1260 1000 Missoula, Mont.	KMED 1410 250 Medford, Ore.
KGCI 1200 100 Coeur d'Alene, Idaho	KGW 620 1000 Portland, Ore.	KMJ 580 1000 Fresno, Calif.
KGCU 1240 250 Mandan, N. D.	KGY 1210 100 Olympia, Wash.	KMLB 1200 100 Monroe, La.
KGCCX 1450 1000 Wolf Point, Mont.	KHBC 1400 250 Hilo, T. H.	KMMJ 740 1000 Clay Center, Neb.
KGDE 1200 100 Fergus Falls, Minn.	KHBG 1210 100 Okmulgee, Okla.	KMO 1330 1000 Tacoma, Wash.
KGDM 1100 1000 Stockton, Calif.	KHJ 900 1000 Los Angeles, Calif.	KMOX 1090 50000 St. Louis, Mo.
KGDY 1340 250 Huron, S. D.	KHQ 590 1000 Spokane, Wash.	KMPC 710 500 Beverly Hills, Calif.
KGEK 1200 100 Sterling, Colo.	KHSL 1260 250 Chico, Calif.	KMTR 570 1000 Los Angeles, Calif.
KGER 1360 1000 Long Beach, Calif.	KHUB 1310 250 Watsonville, Calif.	KNEL 1500 250 Brady, Texas
KGEZ 1310 100 Kalispell, Mont.	KICA 1370 100 Clovis, N. M.	KNET 1420 100 Palestine, Texas
KGFF 1420 100 Shawnee, Okla.	KID 1320 500 Idaho Falls, Idaho	KNOW 1500 100 Austin, Texas
KGFI 1500 100 Brownsville, Tex.	KIDO 1350 1000 Boise, Idaho	KNX 1050 50000 Los Angeles, Calif.
KGFJ 1200 100 Los Angeles, Calif.	KIDW 1420 100 Lamar, Colo.	KOA 830 50000 Denver, Colo.
KGFL 1370 100 Roswell, N. M.	KIEM 1450 500 Eureka, Calif.	KOAC 550 1000 Corvalls, Ore.
KGFW 1310 100 Kearney, Neb.	KIEV 850 250 Glendale, Calif.	KOAM 790 1000 Pittsburg, Kans.

NORTH AMERICAN B. C. STATIONS BY CALLS

KOB 1180 10000 Albuquerque, N. M.	KRKO 1370 50 Everett, Wash.	KTKC 1190 250 Visalia, Calif.
KOBH 1370 100 Rapid City, S. Dak.	KRLC 1390 250 Lewiston, Idaho	KTMS 1220 500 Santa Barbara, Calif.
KOCA 1210 100 Kilgore, Texas	KRLD 1040 10000 Dallas, Texas	KTOK 1370 100 Oklahoma City, Okla.
KOH 1380 500 Reno, Nev.	KRLH 1420 100 Midland, Texas	KTRB 740 250 Modesto, Calif.
KOIL 1260 1000 Omaha, Neb.	KRMC 1370 100 Jamestown, N. Dak.	KTRH 1290 1000 Houston, Texas
KOIN 940 1000 Portland, Ore.	KRMD 1310 100 Shreveport, La.	KTRI 1420 100 Sloux City, Iowa
KOKO 1370 100 La Junta, Colo.	KRNR 1500 100 Roseburg, Ore.	KTSA 550 1000 San Antonio, Texas
KOL 1270 1000 Seattle, Wash.	KRNT 1320 1000 Des Moines, Iowa	KTSM 1310 100 El Paso, Texas
KOMA 1480 5000 Oklahoma City, Okla.	KROC 1310 100 Rochester, Minn.	KTUL 1400 500 Tulsa, Okla.
KOMO 920 1000 Seattle, Wash.	KROD 1500 100 El Paso, Texas	KTW 1220 1000 Seattle, Wash.
KONO 1370 100 San Antonio, Texas	KROW 930 1000 Oakland, Calif.	KUJ 1370 100 Walla Walla, Wash.
KOOS 1200 100 Marshfield, Ore.	KROY 1210 100 Sacramento, Calif.	KUMA 1420 100 Yuma, Ariz.
KORE 1420 100 Eugene, Ore.	KRQA 1310 100 Santa Fe, N. Mex.	KUOA 1260 5000 Siloam Springs, Ark.
KOTN 1500 100 Pine Bluff, Ark.	KRRV 1310 250 Sherman, Texas	KUSD 890 500 Vermillion, S. Dak.
KOVC 1500 100 Valley City, N. Dak.	KRSC 1120 250 Seattle, Wash.	KUTA 1500 100 Salt Lake City, Utah
KOY 1390 1000 Phoenix, Ariz.	KSAC 580 500 Manhattan, Kans.	KVCV 1200 100 Redding, Calif.
KPAC 1260 500 Port Arthur, Texas	KSAL 1500 100 Salina, Kans.	KVEC 1200 250 San Luis Obispo, Cal.
KPBM 1310 100 Poplar Bluff, Mo.	KSCJ 1330 1000 Sioux City, Iowa	KVGB 1370 100 Great Bend, Kans.
KPDN 1310 100 Pampa, Texas	KSD 550 1000 St. Louis, Mo.	KVI 570 1000 Tacoma, Wash.
KPFA 1210 100 Helena, Mont.	KSEI 900 250 Pocatello, Idaho	KVOA 1260 1000 Tucson, Ariz.
KPLC 1500 100 Lake Charles, La.	KSFO 560 1000 San Francisco, Calif.	KVOD 920 500 Denver, Colo.
KPLT 1500 100 Paris, Texas	KSL 1130 50000 Salt Lake City, Utah	KVOE 1500 100 Santa Ana, Calif.
KPMC 1550 1000 Bakersfield, Calif.	KSLM 1370 100 Salem, Ore.	KVOL 1310 100 Lafayette, La.
KPO 680 50000 San Francisco, Calif.	KSO 1430 500 Des Moines, Iowa	KVOO 1140 25000 Tulsa, Okla.
KPOF 880 500 Denver, Colo.	KSOO 1110 2500 Sioux Falls, S. Dak.	KVOR 1270 1000 Colorado Springs, Colo.
KPPC 1210 100 Pasadena, Calif.	KSRO 1310 250 Santa Rosa, Calif.	KVOS 1200 100 Bellingham, Wash.
KPQ 1500 100 Wenatchee, Wash.	KSTP 1460 10000 St. Paul, Minn.	KVOX 1310 100 Moorhead, Minn.
KPRC 920 1000 Houston, Texas	KSUB 1310 100 Cedar City, Utah	KVRS 1370 100 Rock Springs, Wyo.
KQV 1380 500 Pittsburgh, Pa.	KSUN 1200 100 Lowell, Ariz.	KVSO 1210 100 Ardmore, Okla.
KQW 1010 1000 San Jose, Calif.	KTAR 620 1000 Phoenix, Ariz.	KWBG 1420 100 Hutchinson, Kans.
KRBA 1310 100 Lufkin, Texas	KTAT 1240 1000 Fort Worth, Texas	KWG 1200 100 Stockton, Calif.
KRBC 1420 100 Abilene, Texas	KTBC 1120 1000 Austin, Texas	KWJJ 1040 500 Portland, Ore.
KRE 1370 100 Berkeley, Calif.	KTBS 1450 1000 Shreveport, La.	KWK 1350 1000 St. Louis, Mo.
KRGV 1260 1000 Weslaco, Texas	KTEM 1370 250 Temple, Texas	KWKH 1100 10000 Shreveport, La.
KRIS 1330 500 Corpus Christi, Tex.	KTFI 1240 1000 Twin Falls, Idaho	KWLC 1270 100 Decorah, Iowa
KRKD 1120 500 Los Angeles, Calif.	KTHS 1060 10000 Hot Springs, Ark.	KWLK 780 250 Longview, Wash.

NORTH AMERICAN B. C. STATIONS BY CALLS

KWNO 1200 250 Winona, Minn.	WAGM 1420 100 Presque Isle, Me.	WBNX 1350 1000 New York, N. Y.
KWOS 1310 100 Jefferson City, Mo.	WAIM 1200 100 Anderson, S. C.	WBNY 1370 100 Buffalo, N. Y.
KWSC 1220 1000 Pullman, Wash.	WAIR 1250 250 Winston-Salem, N. C.	WBOQ 860 50000 New York, N. Y.
KWTN 1210 100 Watertown, S. Dak.	WALA 1380 500 Mobile, Ala.	WBOW 1310 100 Terre Haute, Ind.
KWTO 560 5000 Springfield, Mo.	WALR 1210 100 Zanesville, Ohio	WBRB 1210 100 Red Bank, N. J.
KWYO 1370 100 Sheridan, Wyo.	WAML 1310 100 Laurel, Miss.	WBRC 930 1000 Birmingham, Ala.
KXA 760 250 Seattle, Wash.	WAPI 1140 5000 Birmingham, Ala.	WBRE 1310 100 Wilkes-Barre, Pa.
KXBY 1530 1000 Kansas City, Mo.	WAPQ 1420 100 Chattanooga, Tenn.	WBRK 1310 100 Pittsfield, Mass.
KXL 1420 100 Portland, Ore.	WARD 1400 500 Brooklyn, N. Y.	WBRY 1530 1000 Waterbury, Conn.
KXO 1500 100 El Centro, Calif.	WASH 1270 500 Grand Rapids, Mich.	WBT 1080 50000 Charlotte, N. C.
KXRO 1310 100 Aberdeen, Wash.	WATL 1370 100 Atlanta, Ga.	WBTM 1370 100 Danville, Va.
KXYZ 1440 1000 Houston, Texas	WATR 1190 100 Waterbury, Conn.	WBZ 990 50000 Boston, Mass.
KYA 1230 1000 San Francisco, Calif.	WAVE 940 1000 Louisville, Ky.	WBZA 990 1000 Springfield, Mass.
KYOS 1040 250 Merced, Calif.	WAWZ 1350 500 Zarephath, N. J.	WCAD 1220 500 Canton, N. Y.
KYW 1020 10000 Philadelphia, Pa.	WAYX 1200 100 Waycross, Ga.	WCAE 1220 1000 Pittsburgh, Pa.
TGW 1230 10000 Guatemala City, Guat.	WAZL 1420 100 Hazleton, Pa.	WCAL 1250 1000 Northfield, Minn.
TIEP 880 1000 San Jose, Costa Rica	WBAA 890 500 West Lafayette, Ind.	WCAM 1280 500 Camden, N. J.
TIPG 625 2000 San Jose, Costa Rica	WBAL 760 2500 Baltimore, Md.	WCAO 600 500 Baltimore, Md.
VAS 685 2000 Glace Bay, N. S.	WBAL 1060 10000 Baltimore, Md.	WCAP 1280 500 Asbury Park, N. J.
VOAC 1065 40 St. John's, Nfld.	WBAP 800 50000 Fort Worth, Texas	WCAT 1200 100 Rapid City, S. Dak.
VOAS 940 100 St. John's, Nfld.	WBAX 1210 100 Wilkes-Barre, Pa.	WCAU 1170 50000 Philadelphia, Pa.
VOCM 1006 200 St. John's, Nfld.	WBBC 1400 500 Brooklyn, N. Y.	WCAX 1200 100 Burlington, Vt.
VOGY 840 400 St. John's, Nfld.	WBBL 1210 100 Richmond, Va.	WCAZ 1070 100 Carthage, Ill.
VONF 1195 500 St. John's, Nfld.	WBBM 770 50000 Chicago, Ill.	WCBA 1440 500 Allentown, Pa.
VOWR 681 500 St. John's, Nfld.	WBBR 1300 1000 Brooklyn, N. Y.	WCBD 1080 5000 Chicago, Ill.
WAAB 1410 500 Boston, Mass.	WBBZ 1200 100 Ponca City, Okla.	WCBM 1370 100 Baltimore, Md.
WAAF 920 1000 Chicago, Ill.	WBCM 1410 500 Bay City, Mich.	WCBS 1420 100 Springfield, Ill.
WAAT 940 500 Jersey City, N. J.	WBEN 900 1000 Buffalo, N. Y.	WCCO 810 50000 Minneapolis, Minn.
WAAW 660 500 Omaha, Neb.	WBEO 1310 100 Marquette, Mich.	WCFL 970 5000 Chicago, Ill.
WABC 860 50000 New York, N. Y.	WBHP 1200 100 Huntsville, Ala.	WCHS 580 500 Charleston, W. Va.
WABI 1200 100 Bangor, Maine	WBIG 1440 1000 Greensboro, N. C.	WCHV 1420 100 Charlottesville, Va.
WABY 1370 100 Albany, N. Y.	WBIL 1100 5000 New York, N. Y.	WCKY 1490 10000 Covington, Ky.
WACO 1420 100 Waco, Texas	WBLK 1370 100 Clarksburg, W. Va.	WCLE 610 500 Cleveland, Ohio
WADC 1320 1000 Akron, Ohio	WBLY 1210 100 Lima, Ohio	WCLO 1200 100 Janesville, Wis.
WAGA 1450 500 Atlanta, Ga.	WBNO 1200 100 New Orleans, La.	WCLS 1310 100 Joliet, Ill.
WAGF 1370 250 Dothan, Ala.	WBNS 1430 500 Columbus, Ohio	WCMI 1310 100 Ashland, Ky.

NORTH AMERICAN B. C. STATIONS BY CALLS

WCNW 1500 Brooklyn, N. Y.	100	WELI 900 New Haven, Conn.	500	WGL 1370 Fort Wayne, Ind.	100
WCOA 1340 Pensacola, Fla.	500	WELL 1420 Battle Creek, Mich.	100	WGN 720 Chicago, Ill.	50000
WCOC 880 Meridian, Miss.	500	WEMP 1310 Milwaukee, Wis.	100	WGNV 1210 Newburgh, N. Y.	100
WCOL 1210 Columbus, Ohio	100	WENR 870 Chicago, Ill.	50000	WGPC 1420 Albany, Ga.	100
WCOP 1120 Boston, Mass.	500	WEOA 1370 Evansville, Ind.	100	WGR 550 Buffalo, N. Y.	1000
WCPO 1200 Cincinnati, Ohio	100	WESG 850 Elmira, N. Y.	1000	WGRC 1370 New Albany, Ind.	250
WCRW 1210 Chicago, Ill.	100	WEST 1200 Easton, Pa.	100	WGRM 1210 Grenada, Miss.	100
WCSC 1360 Charleston, S. C.	500	WEVD 1300 New York, N. Y.	1000	WGST 890 Atlanta, Ga.	1000
WCSH 940 Portland, Me.	1600	WEW 760 St. Louis, Mo.	1000	WGTM 1310 Wilson, N. C.	100
WDAE 1220 Tampa, Fla.	1000	WEXL 1310 Royal Oak, Mich.	50	WGVA 1050 Indianapolis, Ind.	1000
WDAF 610 Kansas City, Mo.	1000	WFAA 800 Dallas, Texas	50000	WGY 790 Schenectady, N. Y.	50000
WDAH 1310 El Paso, Texas	100	WFAB 1300 New York, N. Y.	1000	WHA 940 Madison, Wis.	5000
WDAS 1370 Philadelphia, Pa.	100	WFAM 1200 South Bend, Ind.	100	WHAI 1210 Greenfield, Mass.	250
WDAY 940 Fargo, N. Dak.	1000	WFAS 1210 White Plains, N. Y.	100	WHAL 950 Saginaw, Mich.	500
WDBJ 930 Roanoke, Va.	1000	WFBC 1300 Greenville, S. C.	1000	WHAM 1150 Rochester, N. Y.	50000
WDBO 580 Orlando, Fla.	1000	WFBG 1310 Altoona, Pa.	100	WHAS 820 Louisville, Ky.	50000
WDEL 1120 Wilmington, Del.	250	WFBL 1360 Syracuse, N. Y.	1000	WHAT 1310 Philadelphia, Pa.	100
WDEV 550 Waterbury, Vt.	500	WFBM 1230 Indianapolis, Ind.	1000	WHAZ 1300 Troy, N. Y.	1000
WDGY 1180 Minneapolis, Minn.	1000	WFBR 1270 Baltimore, Md.	500	WHB 860 Kansas City, Mo.	1000
WDNC 1500 Durham, N. C.	100	WFDF 1310 Flint, Mich.	100	WHBB 1500 Selma, Ala.	100
WDOD 1280 Chattanooga, Tenn.	1000	WFEA 1340 Manchester, N. H.	500	WHBC 1200 Canton, Ohio	100
WDRC 1330 Hartford, Conn.	1000	WFIL 560 Philadelphia, Pa.	1000	WHBF 1210 Rock Island, Ill.	100
WDSM 1200 Superior, Wis.	100	WFLA 620 Clearwater, Fla.	1000	WHBI 1250 Newark, N. J.	1000
WDSU 1250 New Orleans, La.	1000	WFMD 900 Frederick, Md.	500	WHBL 1300 Sheboygan, Wis.	250
WDWS 1370 Champaign, Ill.	100	WFOR 1370 Hattiesburg, Miss.	100	WHBQ 1370 Memphis, Tenn.	100
WDZ 1020 Tuscola, Ill.	250	WFOY 1210 St. Augustine, Fla.	100	WHBU 1210 Anderson, Ind.	100
WEAF 660 New York, N. Y.	50000	WFTC 1200 Kinston, N. C.	100	WHBY 1200 Green Bay, Wis.	100
WEAN 780 Providence, R. I.	1000	WGAL 1500 Lancaster, Pa.	100	WHDF 1370 Calumet, Mich.	100
WEAU 1050 Eau Claire, Wis.	1000	WGAN 640 Portland, Me.	500	WHDH 830 Boston, Mass.	1000
WEBC 1290 Duluth, Minn.	1000	WGAR 1450 Cleveland, Ohio	500	WHDL 1400 Olean, N. Y.	250
WEBQ 1210 Harrisburg, Ill.	100	WGBB 1210 Freeport, N. Y.	100	WHEB 740 Portsmouth, N. H.	250
WEBR 1310 Buffalo, N. Y.	100	WGFB 630 Evansville, Ind.	500	WHEC 1430 Rochester, N. Y.	500
WEDC 1210 Chicago, Ill.	100	WGBI 880 Scranton, Pa.	500	WHEF 1500 Kosciusko, Miss.	100
WEED 1420 Rocky Mount, N. C.	100	WGCM 1210 Gulfport, Miss.	100	WHFC 1420 Cicero, Ill.	100
WEEL 590 Boston, Mass.	1000	WGES 1360 Chicago, Ill.	500	WHIO 1260 Dayton, Ohio	1000
WEUU 830 Reading, Pa.	1000	WGH 1310 Newport News, Va.	100	WHIP 1480 Hammond, Ind.	5000

NORTH AMERICAN B. C. STATIONS BY CALLS

WHIS 1410	500	WJBW 1200	100	WLBZ 620	500
Bluefield, W. Va.		New Orleans, La.		Bangor, Me.	
WHJB 620	250	WJBY 1210	100	WLEU 1420	100
Greensburg, Pa.		Gadsden, Ala.		Erie, Pa.	
WHK 1390	1000	WJDX 1270	1000	WLLH 1370	100
Cleveland, Ohio		Jackson, Miss.		Lawrence, Mass.	
WHKC 640	500	WJEJ 1210	50	WLLH 1370	100
Columbus, Ohio		Hagerstown, Md.		Lowell, Mass.	
WHLB 1370	100	WJIM 1210	100	WLMU 1210	100
Virginia, Minn.		Lansing; Mich.		Middlesboro, Ky	
WHN 1010	1000	WJJD 1130	20000	WLNH 1310	100
New York, N. Y.		Chicago; Ill.		Laconia, N. H.	
WHO 1000	50000	WJMS 1420	100	WLS 870	50000
Des Moines, Iowa		Ironwood, Mich.		Chicago, Ill.	
WHOM 1450	250	WJNO 1200	100	WLTH 1400	500
Jersey City, N. J.		W. Palm Beach, Fla.		Brooklyn, N. Y.	
WHP 1430	500	WJR 750	50000	WLVA 1200	100
Harrisburg, Pa.		Detroit, Mich.		Lynchburg, Va.	
WIBA 1280	1000	WJRD 1200	250	WLW 700	500000
Madison, Wis.		Tuscaloosa, Ala.		Cincinnati, Ohio	
WIBG 970	100	WJSV 1460	10000	WMAL 630	250
Glenside, Pa.		Washington, D. C.		Washington, D. C.	
WIBM 1370	100	WJTN 1210	100	WMAQ 670	50000
Jackson, Mich.		Jamestown, N. Y.		Chicago, Ill.	
WIBU 1210	100	WJW 1210	100	WMAS 1420	100
Poynette, Wis.		Akron, Ohio		Springfield, Mass.	
WIBW 580	1000	WJZ 760	50000	WMAZ 1180	1000
Topeka, Kans.		New York, N. Y.		Macon, Ga.	
WIBX 1200	100	WKAQ 1240	1000	WMBC 1420	100
Utica, N. Y.		San Juan, P. R.		Detroit, Mich.	
WICA 940	250	WKAR 850	1000	WMBD 1440	1000
Ashtabula, Ohio		East Lansing, Mich.		Peoria, Ill.	
WICC 600	500	WKAT 1500	100	WMBF 610	1000
Bridgeport, Conn.		Miami Beach, Fla.		Miami, Fla.	
WIL 1200	100	WKBB 1500	100	WMBG 1350	500
St. Louis, Mo.		East Dubuque, Ill.		Richmond, Va.	
WILL 580	1000	WKBH 1380	1000	WMBH 1420	100
Urbana, Ill.		LaCrosse, Wis.		Joplin, Mo.	
WILM 1420	100	WKBN 570	500	WMBI 1080	5000
Wilmington, Del.		Youngstown, Ohio		Chicago, Ill.	
WIND 560	1000	WKBO 1200	100	WMBO 1310	100
Gary, Ind.		Harrisburg, Pa.		Auburn, N. Y.	
WINS 1180	1000	WKBV 1500	100	WMBQ 1500	100
New York, N. Y.		Richmond, Ind.		Brooklyn, N. Y.	
WIOD 610	1000	WKBW 1480	5000	WMBR 1370	100
Miami, Fla.		Buffalo, N. Y.		Jacksonville, Fla.	
WIP 610	1000	WKBZ 1500	100	WMBS 1420	250
Philadelphia, Pa.		Muskegon, Mich.		Uniontown, Pa.	
WIRE 1400	1000	WKEU 1500	100	WMC 780	1000
Indianapolis, Ind.		Griffin, Ga.		Memphis, Tenn.	
WIS 560	1000	WKOK 1210	100	WMCA 570	1000
Columbia, S. C.		Sunbury, Pa.		New York, N. Y.	
WISN 1120	250	WKRC 550	1000	WMEX 1500	100
Milwaukee, Wis.		Cincinnati, Ohio		Boston, Mass.	
WJAC 1310	100	WKY 900	1000	WMFD 1370	100
Johnstown, Pa.		Oklahoma City, Okla.		Wilmington, N. C.	
WJAG 1060	1000	WKZO 590	1000	WMFF 1310	100
Norfolk, Neb.		Kalamazoo, Mich.		Plattsburg, N. Y.	
WJAR 890	1000	WLAC 1470	5000	WMFG 1210	100
Providence, R. I.		Nashville, Tenn		Hibbing, Minn.	
WJAS 1290	1000	WLAK 1310	100	WMFJ 1420	100
Pittsburgh, Pa.		Lakeland, Fla.		Daytona Beach, Fla.	
WJAX 900	1000	WLAP 1420	100	WMFO 1370	100
Jacksonville, Fla.		Lexington, Ky.		Decatur, Ala.	
WJBC 1200	100	WLAW 680	1000	WMFR 1200	100
Bloomington, Ill.		Lawrence, Mass.		High Point, N. C.	
WJBK 1500	100	WLB 1250	1000	WMIN 1370	100
Detroit, Mich.		Minneapolis, Minn.		St. Paul, Minn.	
WJBL 1200	100	WLBC 1310	100	WMMN 890	500
Decatur, Ill.		Muncie, Ind.		Fairmont, W. Va.	
WJBO 1120	500	WLBL 900	5000	WMPC 1200	100
Baton Rouge, La.		Stevens Point, Wis.		Lapeer, Mich.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WMPS 1430 Memphis, Tenn.	500	WPAR 1420 Parkersburg, W. Va.	100	WSAU 1370 Wausau, Wis.	100
WMSD 1420 Sheffield, Ala.	100	WPAX 1210 Thomasville, Ga.	100	WSAY 1210 Rochester, N. Y.	100
WMT 600 Cedar Rapids, Iowa	1000	WPAY 1370 Portsmouth, Ohio	100	WSAZ 1190 Huntington, W. Va.	1000
WNAC 1230 Boston, Mass.	1000	WPFN 920 Philadelphia, Pa.	1000	WSB 740 Atlanta, Ga.	50000
WNAD 1010 Norman, Okla.	1000	WPG 1100 Atlantic City, N. J.	5000	WSBC 1210 Chicago, Ill.	100
WNAX 570 Yankton, S. D.	1000	WPRA 1370 Mayaguez, P. R.	100	WSBT 1360 South Bend, Ind.	500
WNBC 1380 New Britain, Conn.	250	WPRO 630 Providence, R. I.	500	WSFA 1410 Montgomery, Ala.	500
WNBF 1500 Binghamton, N. Y.	100	WPRP 1420 Ponce, P. R.	100	WSGN 1310 Birmingham, Ala.	100
WNBH 1310 New Bedford, Mass.	100	WPTF 680 Raleigh, N. C.	1000	WSIX 1210 Nashville, Tenn.	100
WNBX 1260 Springfield, Vt.	500	WQAM 560 Miami, Fla.	1000	WSJS 1310 Winston-Salem, N. C.	100
WNBZ 1290 Saranac Lake, N. Y.	100	WQAN 880 Scranton, Pa.	500	WSM 650 Nashville, Tenn.	50000
WNEL 1290 San Juan, P. R.	1000	WQBC 1360 Vicksburg, Miss.	1000	WSMB 1320 New Orleans, La.	1000
WNEW 1250 New York, N. Y.	1000	WQDM 1390 St. Albans, Vt.	1000	WSMK 1380 Dayton, Ohio	200
WNLC 1500 New London, Conn.	100	WQXR 1550 New York, N. Y.	1000	WSNJ 1210 Bridgeton, N. J.	100
WNNY 1420 Watertown, N. Y.	100	WRAC 1370 Williamsport, Pa.	100	WSOC 1210 Charlotte, N. C.	100
WNOX 1010 Knoxville, Tenn.	1000	WRAW 1310 Reading, Pa.	100	WSPA 920 Spartanburg, S. C.	1000
WNYC 810 New York, N. Y.	1000	WRBL 1200 Columbus, Ga.	100	WSPD 1340 Toledo, Ohio	1000
WQAI 1190 San Antonio, Texas	50000	WRC 950 Washington, D. C.	500	WSPR 1140 Springfield, Mass.	500
WOC 1370 Davenport, Iowa	100	WRDO 1370 Augusta, Me.	100	WSUI 880 Iowa City, Iowa	500
WOI 640 Ames, Iowa	5000	WRDW 1500 Augusta, Ga.	100	WSUN 620 St. Petersburg, Fla.	1000
WOKO 1430 Albany, N. Y.	500	WREC 600 Memphis, Tenn.	1000	WSVA 550 Harrisonburg, Va.	500
WOL 1310 Washington, D. C.	100	WREN 1220 Lawrence, Kans.	1000	WSVS 1370 Buffalo, N. Y.	50
WOLS 1200 Florence, S. C.	100	WRGA 1500 Rome, Ga.	100	WSYB 1500 Rutland, Vt.	100
WOMI 1500 Owensboro, Ky.	100	WRJN 1370 Racine, Wis.	100	WSYR 570 Syracuse, N. Y.	1000
WOMT 1210 Mantowoc, Wis.	100	WRNL 880 Richmond, Va.	500	WTAD 900 Quincy, Ill.	1000
WOOD 1270 Grand Rapids, Mich.	500	WROK 1410 Rockford, Ill.	500	WTAG 580 Worcester, Mass.	1000
WOPI 1500 Bristol, Tenn.	100	WROL 1310 Knoxville, Tenn.	100	WTAL 1310 Tallahassee, Fla.	100
WOR 710 Newark, N. J.	50000	WRR 1280 Dallas, Texas	500	WTAM 1070 Cleveland, Ohio	50000
WORC 1280 Worcester, Mass.	500	WRTD 1500 Richmond, Va.	100	WTAQ 1330 Green Bay, Wis.	1000
WORK 1320 York, Pa.	1000	WRUF 830 Gainesville, Fla.	5000	WTAR 780 Norfolk, Va.	1000
WORL 920 Boston, Mass.	500	WRVA 1110 Richmond, Va.	5000	WTAW 1120 College Station, Tex.	500
WOSU 570 Columbus, Ohio	750	WSAI 1330 Cincinnati, Ohio	1000	WTAX 1210 Springfield, Ill.	100
WOV 1130 New York, N. Y.	1000	WSAJ 1310 Grove City, Pa.	100	WTBO 800 Cumberland, Md.	250
WOW 590 Omaha, Neb.	1000	WSAL 1200 Salisbury, Md.	250	WTCN 1250 Minneapolis, Minn.	1000
WOWO 1160 Fort Wayne, Ind.	10000	WSAN 1440 Allentown, Pa.	500	WTEL 1310 Philadelphia, Pa.	100
WPAD 1420 Paducah, Ky.	100	WSAR 1450 Fall River, Mass.	1000	WTHH 1200 Hartford, Conn.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

WTIC 1040 Hartford, Conn.	50000	XEBH 930 Hermosillo, Sonora	500	XEKL 1240 Leon, Guan.	500
WTJS 1310 Jackson, Tenn.	100	XEBI 1000 Aguascalientes, Ags.	25	XEL 780 Mexico City, D. F.	1000
WTMJ 620 Milwaukee, Wis.	1000	XEBJ 1160 Merida, Yuc.	20	XELA 1240 Saltillo, Coah.	50
WTMV 1500 East St. Louis, Ill.	100	XEBK 1000 Neuvo Laredo, Tams.	60	XELO 670 Tijuana, B. Cfa.	50000
WTNJ 1280 Trenton, N. J.	500	XEBL 1220 Mazatlan, Sin.	50	XELZ 1370 Mexico City, D.F.	100
WTOC 1260 Savannah, Ga.	1000	XEBO 1310 Irapuato, Guan.	25	XEMG 1060 Atzacapotzalco, D. F.	100
WTOL 1200 Toledo, Ohio	100	XEBS 1240 Mexico City, D. F.	200	XEMO 860 Tijuana, L. C.	5000
WTRC 1310 Elkhart, Ind.	100	XEBX 640 Sabinas, Coah.	250	XEMU 580 Piedras Negras, Coah.	....
WVWF 1400 Brooklyn, N. Y.	500	XEBZ 1160 Mexico City, D. F.	100	XEMX 1280 Mexico City, D. F.	100
WWAE 1200 Hammond, Ind.	100	XEC 1150 Tijuana, L. C.	100	XENC 860 Mexico City, D. F.	50
WWJ 920 Detroit, Mich.	5000	XECL 1100 Mexicali, B. Cfa.	1700	XENT 910 Nuevo Laredo, Tams.	150000
WWL 850 New Orleans, La.	10000	XECW 1310 Mexico City, D. F.	10	XEOK 760 Tijuana, L. C.	2500
WWNC 570 Asheville, N. C.	1000	XECZ 1370 San Luis Potosi, S.L.P.	100	XEP 1160 Juarez, Chih.	500
WWRL 1500 Woodside, N. Y.	100	XED 1160 Guadalajara, Jal.	2500	XEPN 730 Piedras Negras, Coah.	100000
WWSW 1500 Pittsburgh, Pa.	100	XEDA 1220 Gra. Anaya, D. F.	200	XERA 840 Villa Acuna, Coah.	350000
WWVA 1160 Wheeling, W. Va.	5000	XEDF 810 Nuevo Laredo, Tams.	75	XERB 730 Rosarito Beach, B. Cfa.	500
WXYZ 1240 Detroit, Mich.	1000	XEDP 1080 Mexico City, D. F.	500	XERO 670 Chapultepec, D. F.	....
W3XDD Whippany, N. J.	50000	XEDW 1150 Minatitlan, Ver.	20	XES 990 Tampico, Tams.	250
W3XJ 1060 College Park, Md.	100	XEE 1210 Durango, Dgo.	50	XET 690 Monterrey, N. L.	5000
W8XO 700 Cincinnati, Ohio	500000	XEF 1450 Juarez, Chih.	100	XETB 1310 Torreon, Coah.	125
XEAA 750 Mexicali, B. C.	200	XEFA 1180 Tacuba, D. F.	500	XETF 1220 Veracruz, Ver.	30
XEAC 980 Tijuana, L. C.	5000	XEFB 870 Monterrey, N. L.	200	XETH 1210 Puebia, Pue.	100
XEAD 1060 Guadalajara, Jal.	125	XEFC 550 Merida, Yuc.	100	XEU 1010 Veracruz, Ver.	250
XEAF 990 Nogales, Son.	750	XEFE 980 Laredo, Tams.	150	XEW 890 Mexico City, D. F.	50000
XEAG 1310 Cordoba, Ver.	10	XEFI 1440 Chihuahua, Chih.	250	XEX 1310 Monterrey, N. L.	125
XEAL 660 Mexico City, D. F.	1000	XEFJ 1230 Monterrey, N. L.	100	XEXB 1270 Jalapa, Ver.	50
XEAM 750 Matamoros, Tams.	25	XEFO 930 Mexico City, D. F.	5000	XEXC 810 Aguascalientes, Ags.	350
XEAO 660 Mexicali, B. C.	250	XEFV 1210 Juarez, Chih.	100	XEXD 1340 Jalapa, Ver.	350
XEAP 1240 Obregon, Son.	50	XEFW 1310 Tampico, Tams.	250	XEXE 1270 Mexico City, D. F.	17
XEAS 1160 Saltillo, Coah.	50	XEG 1220 Monterrey, N. L.	250	XEXH 1250 San Luis Potosi, S.L.P.	250
XEAT 1210 Parral, Chih.	250	XEH 720 Monterrey, N. L.	250	XEXS 1000 Portable in Mexico	100
XEAW 960 Reynosa, Tams.	50000	XEI 1370 Morelia, Mich.	125	XEYO 940 Mexico City, D. F.	500
XEAY 1240 Mexico City, D. F.	100	XEJ 1020 Juarez, Chih.	1000	XEZ 630 Merida, Yuc.	500
XEB 1030 Mexico City, D. F.	10000	XEJP 1130 Mexico City, D. F.	100	ZNS 540 Nassau, Bahamas	400
XEBA 1080 Guzman, Jal.	20	XEJW 870 Mexico City, D. F.	....	
XEBG 820 Tijuana, B. Cfa.	1000	XEK 990 Mexico City, D. F.	100		

At DEADLINE . . .

Two special programs have been arranged for this month by Bill Stone, 32 St. Joseph St., Toronto 5, Ont. The programs will be well worth listening to, and the stations are anxious to receive a large number of reports from DXers.

CFGP in Grande Prairie, Alta., 1200 kcs., will broadcast on February 12 from 3 to 4 a.m., EST.

On the following day, February 13, CFLC in Prescott, Ont., will broadcast, from 3 to 4 a.m., EST. CFLC is on 930 kcs.

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