

THE SEPTEMBER 1937

RADIO IN INDEX

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with Names of Owners

All the Police Broadcasters

Choosing a Radio Set

Amateur News

No. 111

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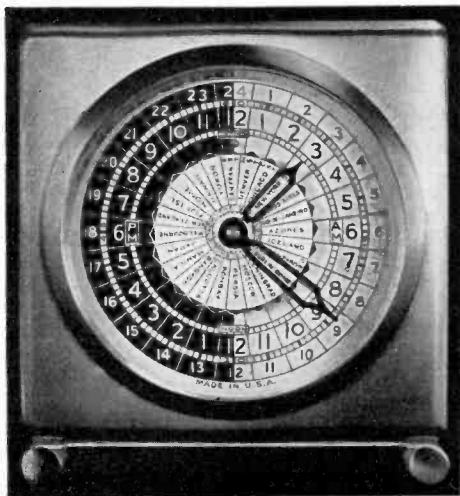
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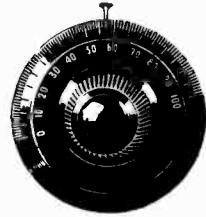
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SEPTEMBER 1, 1937



RADIO INDEX



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CHOOSING a Radio Receiver

• • • By CARLETON LORD

COINCIDENTAL with the appearance of a new radio season comes the introduction by manufacturers of their 1938 lines of receivers. And once again Mr. Average Listener attempts to decide whether the old model will do for another year.

If the verdict sends him to the nearest radio dealer, the prospective purchaser may well be in for a rather difficult time. More than ever before, the choice of a receiver will tax the wits of the shrewdest buyer. If he walks out of the store with the one model best suited for his own needs, the customer will have cause to congratulate himself.

Early inspections of the 1938 lines indicate that manufacturers are placing little stress upon the *performance* of their products. The ability of a receiver to provide satisfactory reception of local and distant stations apparently is taken for granted. In place of guarantees of foreign reception and high fidelity reproduction, the featured points include an impressive display of handsome cabinets, a wide variety of tricky new dials, and an incomprehensible assortment of gadgets made alluring by euphonic trade names.

After reading the advertisements and absorbing the output of glib salesmen, the customer will indeed be fortunate if he is able to remember the fundamental purpose of a good receiver.

Preliminary Steps

Before venturing into the market, the prospective purchaser would do well to analyze his own particular requirements and decide just what he will expect the new model to do for him.

If he is a lover of fine music and insists on a high quality of reproduction, the customer should establish that fact in advance and keep it ever in mind. If he is afflicted with DX-ophobia, demanding extreme sensitivity and a high degree of selectivity, he will have something else to consider. If he merely wants a small set for occasional use in bedroom, den or office, he should remember that point.

Obviously, the "communications" type receiver, with accent on the r.f. and i.f. stages and with sufficient power to span the DX world, can hardly be expected to reproduce a symphony orchestra to the entire satisfaction of a skilled musician.



Alec Templeton, blind English pianist of the "Universal Rhythm" programs, is shown here presenting one of his amusing vocal impressions, that of a tenor singing Schubert's "Ave Maria" as heard by shortwave broadcast from Vienna. The Universal Rhythm programs are heard Sundays over the CBS from 8 to 9 pm EST.

Conversely, the broad-tuning set which will soothe the ear of the music lover, is seldom suitable for the demon DXer.

Frequently listeners insist on receivers which have potential DX-getting ability as well as high quality of reproduction. Many modern models will fulfill the expectations of the average customer in this respect, although the ideal combination is usually found in receivers in the higher price brackets.

But regardless of which quality or combination of qualities the purchaser desires, he should have a definite idea of what he is going to expect from his new set.

Price Considerations

The old adage that "you get just what you pay for" was never more true than in the radio industry today. Mass producers of receivers plan and design every model to retail in a certain price class. Since costs of manufacture and distribution run more or less constant for a product of given quality, it follows that the customer can expect just so much from a model in any price bracket.

Of course, some manufacturer may be able to make a better coil, condenser or resistor than his competitors, while another may do a more careful job of assembling and aligning. The receivers so affected may show to advantage, and that is what the customer will be checking when he compares models selling at around the same price.

But for any purchaser to believe that, say, a fifty-dollar Whoozit is a better receiver than a seventy-dollar Whatzit, is simply placing too much faith in the line of the salesman. The Whoozit people designed their particular set to sell in the most popular of all price brackets and they may have done a very good job. It may be far superior

to the comparable Whatzit model which sells at the same price and it may entirely suit the needs of the customer, but it can hardly be expected to compete with a set retailing at twenty dollars more.

Unless the Whatzit people are looking for an early demise, they gave the purchaser something tangible for that extra twenty dollars. It may be another tube or two, a larger speaker, a better grade of component parts, or a finer cabinet.

In nine cases out of ten, that extra money would be spent for something additional in the way of performance, freedom from service troubles, or long life.

Consequently, before going to the nearest radio dealer, Mr. Average Listener should establish in his mind what price he can afford to pay for a receiver which will most nearly meet his requirements. He may find that it will be necessary to go a little higher to get just what he wants, but he should never drop to a lower price bracket without realizing that the set will be cheapened in some way.

Automatic Tuning

In every store exhibiting the 1938 lines, the customer will first be impressed by novel dials and tuning devices. Designers and engineers have gone to great ends to ease the strenuous task of tuning a handful of favorite stations, and listeners undoubtedly will be attracted by a multiplicity of gadgets.

A large number of receivers are featuring some version of the "automatic telephone" type of dial which was introduced last year. Basically, this is a most convenient aid to tuning. To bring in any one of a number of pre-selected stations, the listener merely places a finger in the slot indicated by the desired call letters and spins the dial to a designated position.

When this arrangement is properly designed, the dial will catch at a stop position. The gang condenser, which has been turned by a direct drive, will then be in a nearly-correct position for the wanted station. In a split-second, the *automatic frequency control* circuit brings the station into resonance and the tuning will have been completed, except for a possible adjustment of volume.

Unfortunately, many of the cheaper sets brazenly advertise automatic tuning, when actually they have no such thing. They have no stops to catch the dial at the proper position for each station and the swing is merely approximate. In some cases, it may vary ten kilocycles in either direction. Also there is no AFC circuit to bring the station into resonance, so the listener must then tune the station by hand in the usual manner. Customers should be on the look-out for this type of the so-called automatic dials.

Push Button Tuning

For listeners with feeble forefingers, engineers have relieved the strain of manual dialing through the installation in some models of small electric motors. When one of a number of buttons is pushed, the motor turns the dial and the receiver is automatically tuned to a desired station.

While this type of tuning may prove very popular, listeners should remember that every added gadget is a potential source of future trouble. The more motors, gears and devices that are added to an already-complicated mechanism, the more there is to get out of order and the greater the possibility of service work at a later date.

In one of the first receivers inspected, several little "bugs" were noticed. For example, should an inquisitive child inadvertently push more than one of the station buttons,

the dial would turn crazily from one end to the other and back again. This would last indefinitely unless the motor was shut off. In the meantime, the regular tuning knob would be spinning at a great rate. Seeing this and desiring to stop the movement, the youngster would be tempted to grab the control and hold on. In such a case, the fate of the entire mechanism would depend on whether the child let go before the motor gave out or the gears were stripped.

In the same receiver, the motor had a one-track mind. Suppose the set had been tuned to, say, 600 kcys and then moved to 650. Then push a button for a station on 550. The motor would continue in the same direction, turning the dial all the way up to the high frequency end before it reversed and travelled all the way back to 550.

Of all the receivers inspected which had push-button tuning, the Silvertone model 4788 had the most sensible mechanism. For any button pushed, the dial took the shortest path to the desired station and did not have to travel to either end before reversing. Should more than one button be pushed, the dial turns to the nearest station and then stops. During any of the automatic tuning operations, the regular tuning knob remains motionless.

Try Before You Buy

There should be no need to remind listeners that the display of a radio store is no place to demonstrate any receiver, yet thousands of customers sign on the dotted line solely as the result of what they have heard in an unfavorable location.

Few reputable dealers will refuse a request for a home demonstration. Consequently, the purchaser who ignores an opportunity to see how a set performs in his own home, can have no legitimate cause for com-

plaint should it develop that the receiver was bought because of a smooth sales talk instead of on its own merits.

So when Mr. Average Listener has determined what he expects from a set and has decided what he can afford to pay for the receiver which most nearly meets his requirements, he should insist on an opportunity to try out the most logical selection in his own home for a few days. There he should give it a good workout, perhaps compare it with other models, and then decide whether it will be a good investment.

In this connection, it is interesting to note the points which are checked in the field by the engineers who develop the Silvertone models. Every receiver is operated under normal conditions in homes throughout the country and each model must pass a rigid examination before it goes into actual production.

When a set is unboxed and connected, the engineer first checks its mechanical features. He notes whether the dial operates smoothly and if there are any rough spots. If the dial is gear-driven, he checks to see if there is any backlash; if it is cable-driven, he looks for slipping. The other controls are also checked for rough spots. He notes whether the dial has sufficient illumination for easy reading and if the various knobs are well identified. Knowing that small children may have access to the receiver, he looks for possible troubles which may be caused by inquisitive fingers.

Tune Favorite Stations

When the power is turned on, the listener should first tune across the broadcast band, taking notice of how his favorite stations are received. On each identified station, he should check to see if the dial is accurately calibrated. If the receiver is equipped with automatic volume control, he should note whether the more powerful stations are heard at

an even level. Using maximum sensitivity, he should observe the "hiss and swish" level and see if it is objectionable.

While going over the broadcast band, the purchaser should notice if any stations appear at more than one point on the dial. Eliminating any slight inaccuracies in calibration, it should be determined whether there are any repeat points due to image frequency.

Selectivity should also be noted during the early tuning. Any receiver worthy of the name should be able to bring in favorite local and semi-distant stations without a trace of interference from other stations. If the purchaser goes in for an occasional bit of DXing, an even greater degree of selectivity will be necessary and then he should expect 10-kcy separation. If he is able to pull in a medium-power, semi-distant station on a channel adjacent to a 50-KW local, he really has something.

Next in line are tests for hum and internal noise level. By tuning to a point where no station is audible and turning the volume control all the way down, the purchaser can observe the degree of hum, if any. Then by disconnecting aerial and ground, and advancing the volume control, it is easy to note the amount of noise created in the receiver. Obviously, an excessive amount of hum or internal noise will be difficult for DX work.

Turning next to a favorite local station, the purchaser should observe the quality of reproduction. If the receiver has a tone control, it should be set at various points and the quality observed. Turn the volume control all the way off and see if the station is still audible. If so, decide whether that is objectionable to you. Then increase the volume and note whether there is any overloading or distortion before adequate room volume is reached.

These observations should be re-

peated on other stations which are regularly dialed. If at any time there is a tendency for the set to develop any "motorboating" or if any microphonism is noticed, the dealer should be given an opportunity to correct the trouble.

As far as possible, the tuning operations should be repeated on the short wave bands. Calibration is particularly important here, where many stations are crowded into a relatively small section of the dial. A receiver which offers band spread or second hand tuning enjoys a decided advantage when it comes to separating and logging stations.

A balky dial will stand out like a sore thumb when dialing the high frequency transmitters. Two-speed tuning is a real help and, if this is not available, the single ratio should at least be high.

Listeners will have little difficulty in working out additional tests and observations for the receiver on trial. It isn't a bad idea to try out two or more receivers at the same time and under the same conditions, make notes on the particular phases in which each excels, and then choose the set which has the best all-around rating.

How Many Tubes?

The average listener has little or no conception of the functions of the tubes in his receiver. He has a vague idea that reception improves in direct proportion to the number of tubes in the set, so he really goes out to buy a box of tubes.

On the receiving end of an advertisement or a sales talk, the customer may be impressed by the claim that this seven-tube job, with three multi-purpose tubes, actually gives ten-tube performance. It is a little difficult to understand the basis for such a claim, since there is no scale by which tube performance can be measured.

Another frequently-used argument



Comedian Ken Murray and blonde Marlyn Stuart, the girl who made radio fame with two speaking lines . . . "Mama, oh Mama, here's that funny man again." Ken Murray, Shirley Ross and Lud Gluskin are heard on the Campbell's program over the CBS on Wednesdays.

is that a particular twelve-tube set is a rare bargain at the price, merely because it has so many tubes. And here again the number of tubes does not necessarily mean that the receiver is to be recommended.

If the customer is going to base his decision on the number of tubes, he should consider their functions in the receiver. If he is looking for a sensitive and selective model, the tubes should be concentrated in the r.f. and i.f. stages. One of the most powerful superheterodynes made today has two tubes in the r.f., three in the i.f., two detectors, one oscillator, one rectifier, and two stages of a.f. amplification. That makes a total of eleven tubes, most of which are used for sensitivity

(Please turn to Page 43)

Call Letter Jamboree

A fellow named *WILL* said to *KOY* little *KATE*,
"Poor *KRIS*, bashful swain, wishes me to relate
WHAT trouble he's had in expressing his love
For you, pretty *WREN*, and *WOOD* like you to shove
Aside all the others, and tell him you'll be
His friend, good and true; you'll like none but he."

"No, sir!" said the *KID*, "but I'm *KEEN* for a whirl
Around the old town; let's get *WARD* and his girl.
He's got lots of *KOIN* and *WEED KAST* cares away
While dancing together and seeing Broadway.
I don't care for *KRIS*, but I want you to *KNOW*
'Tis you *WHOM* I like best and not that old *KROW*."

This turn in affairs took our *WILL* by surprise.
He felt the dire need of some good alibis.
For *WORK* he had none, and the clothes that he *WOR*
Were tattered and shabby, and his little store
Of *KALE* had diminished to practically nil
And he couldn't pay his own share of the bill.

Now *WRUF* to the *KORE* was this tramp from the *WEST*,
But *KAWM* and quick thinking when put to the test.
"*WELL, KIDO*, I'm willing, but I never thought
That I was the one whose favor you sought,"
He said to the *KUTA*, but to himself *KUSD*,
"This girl is a *WOW*, but to leave her I must."

"I look like a *WREC*," to the lady he spoke.
"Excuse me a while; here's a cig you can *CMOK*.
WAAT I need to do is get clean clothes to *WAIR*,
Some *WATR* to *WASH* in and a *KOAM* for my hair.
Just wait here and I *WIL* return right away."
A *WAVE* of his hand and he left for the day.

"Oh *WEAU* is my lot," cried the girl so chagrined
On learning her lover had gone with the *WIND*.
"Now *WHO WOOD* have thought he'd do such a *WRAW* trick?
I'd *WHIP* him—I'd brain him with a *WROK* or a brick.
If I had him I'd *KOIL* him with high tension *WIRE*
And turn on the juice and just let him expire."

Our hero is headed for the land of *KOTN*
Not thinking at all about his trick so rotten.
He *WRAX* his poor brain with thoughts of *KRIS*, his old pal,
WHO told him that *KATE* was such a *KOY* little gal!

The Frequency Checks

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

The Second Monday

2:00-2:20	WLNH 1310	Laconia, N. H.
	WJBO 1420	Baton Rouge, La.
2:10-2:30	WBRB 1210	Red Bank, N. J.
	WHBB 1508	Selma, Ala.
2:20-2:40	WMAS 1420	Springfield, Mass.
	WIOD 1300	Miami, Fla.
2:30-2:50	WWRL 1500	Woodslee, N. Y.
	WJBW 1200	New Orleans, La.
2:40-3:00	WOKO 1430	Albany, N. Y.
	WMBR 1370	Jacksonville, Fla.
2:50-3:10	WCAX 1200	Burlington, Vt.
	WOPJ 1500	Bristol, Tenn.
3:00-3:20	WMBO 1310	Auburn, N. Y.
	WMSD 1420	Sheffield, Ala.
3:10-3:30	WOC 1370	Davenport, Ia.
	WCAD 1220	Canton, N. Y.
	WMFN 1210	Grenada, Miss.
3:20-3:40	KWLC 1270	Decorah, Ia.
	WMBQ 1500	Brooklyn, N. Y.
	WNBR 1430	Memphis, Tenn.
3:30-3:50	KFPV 1210	Fort Smith, Ark.
	WMFF 1310	Plattsburg, N. Y.
	WDBO 580	Orlando, Fla.
3:40-4:00	KABC 1420	San Antonio, Tex.
	WQDM 1390	St. Albans, Vt.
	WWSB 1320	New Orleans, La.
3:50-4:10	WFAS 1210	White Plains, N. Y.
	WHEF 1500	Kosciusko, Miss.
4:00-4:20	KFDM 560	Beaumont, Tex.
	KLS 1280	Oakland, Calif.
	WCAP 1280	Asbury Park, N. J.
	WAGF 1370	Dothan, Ala.
4:10-4:30	KCRJ 1310	Jerome, Ariz.
	KMLB 1200	Monroe, La.
	KYOS 1040	Merced, Calif.
4:20-4:40	KLUF 1370	Galveston, Tex.
	KGDM 1100	Stockton, Calif.
	WDEV 550	Waterbury, Vt.
	WDNC 1500	Durham, N. C.
4:30-4:50	KROC 1310	Rochester, Minn.
	KGAR 1370	Tucson, Ariz.
	KALB 1210	Alexandria, La.
4:40-5:00	KOVC 1500	Valley City, N. D.
	KROY 1210	Sacramento, Calif.
	WBNO 1200	New Orleans, La.
4:50-5:10	KEUB 1420	Price, Utah
	KRE 1370	Berkeley, Calif.
	WLAK 1310	Lakeland, Fla.
5:00-5:20	KBST 1500	Big Spring, Tex.
	KIEM 1450	Eureka, Calif.
	WFOY 1210	St. Augustine, Fla.
5:10-5:30	KDON 1210	Del Monte, Calif.
	WMIN 1370	St. Paul, Minn.
	WTAL 1310	Tallahassee, Fla.
5:20-5:40	KTRH 1290	Houston, Texas
	KUMA 1420	Yuma, Ariz.
	WAIR 1250	Winston-Salem, N. C.
5:30-5:50	KFGQ 1370	Boone, Ia.
	KWG 1200	Stockton, Calif.
	WGCM 1210	Gulfport, Miss.
5:40-6:00	KGMB 1320	Honolulu, T. H.
5:50-6:10	EGLO 1210	Mason City, Ia.
	KVCV 1200	Redding, Calif.
6:00-6:20	KHUB 1310	Watsonville, Calif.

The Second Tuesday

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

The Second Wednesday

2:00-2:20	WMFJ 1420	Daytona Beach, Fla.
2:10-2:30	WAIM 1200	Anderson, S. C.
2:20-2:40	KVOL 1310	Lafayette, La.
2:30-2:50	WHBQ 1370	Memphis, Tenn.
2:40-3:00	WKAQ 1240	San Juan, P. R.
2:50-3:10	WSJS 1310	Winston-Salem, N. C.
3:00-3:20	WCPO 1200	Cincinnati, Ohio
	WMFD 1370	Wilmington, N. C.
3:10-3:30	KFIZ 1420	Fond du Lac, Wis.
	WPAX 1210	Thomasville, Ga.
3:20-3:40	WCLO 1200	Janesville, Wis.
	WRDW 1500	Augusta, Ga.
3:30-3:50	WQBC 1360	Vicksburg, Miss.
3:40-4:00	KAND 1310	Corsicana, Texas
	KPLC 1500	Lake Charles, La.
	WHBC 1200	Canton, Ohio
3:50-4:10	KARK 890	Little Rock, Ark.
	WGPC 1420	Albany, Ga.

4:00-4:20 KKFJZ 1370 Fort Worth, Tex.
 WHBU 1210 Anderson, Ind.
 WJNO 1200 W. Palm Beach, Fla.
 4:10-4:30 WBEO 1310 Marquette, Mich.
 WCOC 880 Meridian, Miss.
 WVLB 1250 Minneapolis, Minn.
 4:20-4:40 KSO 1430 Des Moines, Ia.
 WOSU 570 Columbus, Ohio
 WKEU 1500 Griffin, Ga.
 4:30-4:50 WEXL 1310 Royal Oak, Mich.
 WHLB 1370 Virginia, Minn.
 4:40-5:00 KPJT 1500 Paris, Tex.
 WJMS 1420 Ironwood, Mich.
 WJRD 1200 Tuscaloosa, Ala.
 4:50-5:10 KFNR 1310 Oklahoma City, Okla.
 WTAX 1210 Springfield, Ill.
 WBIG 1440 Greensboro, N. C.
 5:00-5:20 KFJB 1200 Marshalltown, Ia.
 WEOA 1370 Evansville, Ind.
 5:10-5:30 KPDN 1310 Pampa, Tex.
 WDWZ 1020 Tuscola, Ill.
 5:20-5:40 KELD 1370 Eldorado, Ark.
 WAYX 1200 Waycross, Ga.
 WKBN 570 Youngstown, Ohio
 5:30-5:50 KDLR 1210 Devils Lake, N. D.
 WADC 1320 Akron, Ohio
 5:40-6:00 KRBC 1420 Abilene, Tex.
 WSAU 1370 Wausau, Wis.
 5:50-6:10 KFPL 1310 Dublin, Texas
 WFAM 1200 South Bend, Ind.
 6:00-6:20 KLCN 1290 Blytheville, Ark.
 WELL 1420 Battle Creek, Mich.
 6:10-6:30 KGBX 1230 Springfield, Mo.
 WMPC 1200 Lapeer, Mich.
 6:20-6:40 KABR 1420 Aberdeen, S. D.
 6:30-6:50 KFXJ 1200 Grand Junction, Colo.

The Second Thursday

2:00-2:20 WSVS 1370 Buffalo, N. Y.
 2:10-2:30 WKOK 1210 Sunbury, Pa.
 2:20-2:40 WRAW 1310 Reading, Pa.
 2:30-2:50 WJTN 1210 Jamestown, N. Y.
 2:40-3:00 WTEL 1310 Philadelphia, Pa.
 2:50-3:10 WHIS 1410 Bluefield, W. Va.
 3:00-3:20 WQAN 880 Erie, Pa.
 3:10-3:30 WLEU 1420 Clarkburg, W. Va.
 3:20-3:40 WBLK 1370 Grove City, Pa.
 3:30-3:50 WSAJ 1310 Bloomington, Ill.
 3:40-4:00 WJBC 1200 Rochester, N. Y.
 WSAY 1210 Philadelphia, Pa.
 3:50-4:10 WHPA 1310 Lexington, Ky.
 WHDL 1400 Olean, N. Y.
 4:00-4:20 WSMK 1380 Dayton, Ohio
 4:10-4:30 KAWM 1500 Galup, N. M.
 WJIM 1210 Lansing, Mich.
 4:20-4:40 WBBZ 1200 Ponce City, Okla.
 WBOV 1310 Terre Haute, Ind.
 4:30-4:50 KGKL 1370 San Angelo, Tex.
 WCBS 1420 Springfield, Ill.
 4:40-5:00 KRRV 1430 Sherman, Tex.
 WTMV 1500 East St. Louis, Ill.
 4:50-5:10 KGGM 1230 Albuquerque, N. M.
 WHBF 1210 Rock Island, Ill.
 5:00-5:20 KERN 1370 Bakersfield, Calif.
 KGKO 570 Wichita Falls, Tex.
 WTRC 1370 Elkhart, Ind.
 5:10-5:30 KGFI 1500 Corpus Christi, Tex.
 KTRB 740 Modesto, Calif.
 WWAEE 1200 Hammond, Ind.
 5:20-5:40 KFYO 1310 Lubbock, Tex.
 KJBS 1070 San Francisco, Calif.
 WIBM 1370 Jackson, Mich.
 5:30-5:50 KGH1 1200 Little Rock, Ark.
 KXO 1500 El Centro, Calif.
 WALR 1210 Zanesville, Ohio
 5:40-6:00 KGHF 1320 Pueblo, Colo.
 KHSL 1260 Chico, Calif.
 WDWS 1370 Champaign, Ill.
 5:50-6:10 KGKB 1500 Tyler, Texas
 KSUN 1200 Lowell, Ariz.
 WBCM 1410 Bay City, Mich.
 6:00-6:20 KGFL 1370 Roswell, N. M.

KGU 750 Honolulu, T. H.
 WIBU 1210 Poyner, Wis.
 6:10-6:30 KGIW 1420 Alamosa, Colo.
 KHBC 1400 Hilo, T. H.
 6:20-6:40 KVEC 1200 San Luis Obispo, Calif.
 WGL 1370 Fort Wayne, Ind.

The Second Friday

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

The Second Saturday

2:00-2:20 WMFR 1200 High Point, N. C.
 2:10-2:30 WMFO 1370 Decatur, Ala.
 2:20-2:40 WSOC 1210 Charlotte, N. C.
 2:30-2:50 WTJS 1310 Jackson, Tenn.
 2:40-3:00 WSIX 1210 Nashville, Tenn.
 2:50-3:10 WROL 1310 Knoxville, Tenn.
 3:00-3:20 KOTN 1500 Pine Bluff, Ark.
 WBLY 1210 Lima, Ohio
 WQAM 560 Miami, Fla.
 3:10-3:30 KWYO 1370 Sheridan, Wyo.
 WPRP 3420 Ponce, P. R.
 3:20-3:40 KGCU 1240 Mandan, N. Dak.
 WNEL 1290 San Juan, P. R.
 3:30-3:50 KXYZ 1440 Houston, Tex.
 WAML 1310 Laurel, Miss.
 3:40-4:00 WKBV 1500 Richmond, Ind.
 KRGV 1260 Westaco, Tex.
 WFOR 1370 Hattiesburg, Miss.
 3:50-4:10 KNEL 1500 Brady, Tex.
 WEFD 1420 Rocky Mount, N. C.
 WGBF 630 Evansville, Ind.
 4:00-4:20 KVS0 1210 Ardmore, Okla.
 WFDF 1310 Flint, Mich.
 4:10-4:30 WFTC 1200 Kinston, N. C.
 KFQD 780 Anchorage, Alaska
 KONO 1370 San Antonio, Tex.
 WKBZ 1500 Muskogee, Mich.
 4:20-4:40 KRLC 1390 Lewiston, Idaho
 KTSM 1310 El Paso, Tex.
 WBHP 1200 Huntsville, Ala.

4:30-4:50	KOCA	1210	Kilgore, Tex.
	KUJ	1370	Walla Walla, Wash.
4:40-5:00	KCMC	1420	Texarkana, Texas
	KRNR	1500	Roseburg, Ore.
4:50-5:10	KEEN	1370	Seattle, Wash.
	KWTN	1210	Watertown, S. Dak.
5:00-5:20	KGFF	1420	Shawnee, Okla.
	KIT	1310	Yakima, Wash.
5:10-5:30	KBTM	1200	Paragould, Ark.
	KRKO	1370	Everett, Wash.
5:20-5:40	KFRO	1370	Longview, Tex.
	KGEE	1310	Kalispel, Mont.
5:30-5:50	KBLX	1500	Muskogee, Okla.
	KFXD	1200	Nampa, Idaho
5:40-6:00	KFJM	1410	Grand Forks, N. D.
	KXRO	1310	Aberdeen, Wash.
5:50-6:10	KGY	1210	Olympia, Wash.
6:00-6:20	KINY	1310	Juneau, Alaska
6:10-6:30	KMED	1410	Medford, Ore.

Universal DX Club Corner

● ● ● By "Pooky"



Postage Rates

The rate of postage on letters is 3c for each ounce and for post cards, 2c each, to the following countries:

Annobon Island, Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Fernando Po, Guatemala, Haiti, Honduras, Mexico, Newfoundland, Nicaragua, Paraguay, Peru, Spain, Spanish Guinea, Spanish Morocco, Uruguay and Venezuela.

Alaska, Canal Zone, Hawaii, Puerto Rico and the Virgin Islands, being parts of the United States, take the same rates as letters in the USA, 3c for each ounce for letters, and 1c for post cards.

The postal rate to all the other countries in the world is 5c for each ounce and 3c for each additional ounce for letters, and 3c each for postcards.

The new Greenville, Texas station on 1200 kcs. replaces KFPM, the famous little 50 watter that left the air several years ago. KFPM recently tried a comeback and their request for reinstatement has been pending before the District of Columbia Court of Appeals. With the CP going to the Hunt Broadcasting Co., the application of KFPM was denied.

REMEMBER last season's RADEX Mystery DX Contest? Remember RADEX offered a special prize to DX Clubs? To the DX Club with the highest percentage of members entered in the contest they'd give space in RADEX each month for ten months, said space to be used pretty much as the club saw fit.

Well, here we are, and we'll be here for nine months more. It's not a very comfortable feeling this first time. We feel rather naked, coming out in the open, on the newsstands with such magazines as Film Fun and Coronet. We do not know quite how to act.

The obvious thing to do would be to use this space every month to publicize UDXC activities, to tell the world what the UDXC is doing and how much better the UDXC is doing it. Probably no one but UDXC members would read the column if we did that, and we have already received and spent their dues. No, we are either too altruistic or too clever to use this space to talk about ourselves.

We (and by "We" you must always understand "Pooky," the Club mascot who cannot be sued) have evolved a contest. A mysterious contest. It seems fair to pay RADEX back.

A contest which is open to everyone, regardless of club affiliation. It requires no expert knowledge of

DX. A child of four can win. And we do not want you to send in a single bottle cap unless it's attached to the bottle.

For the best eight articles on any phase of DXing sent to us during the next eight months, we (still "Pooky") will give the following eight prizes:

1. Graf Zeppelin cover, first U. S. flight, 1929, perfect condition, German Zep stamp.
2. One desk pad, 1938, deluxe model (you furnish the desk).
3. One typist's kit: Star type cleaner, micrometer carbon paper, patent stamp moistener, old tooth brush.
4. Twelve white Rose of Sharon, rare shrub, sturdy two-year-old stock.
5. Shhh! One large color photograph, guaranteed highly desirable, *No Details*.
6. One trial membership in the UDXC, six months, all privileges.
7. Twenty-five Indian Head pennies, assorted years, superb, guaranteed by the U. S. government.
8. One Philco doublet aerial, used, perfect condition, complete.

Selection of Prizes

One winning article will be published in this space each month with the name of the writer and his club affiliation. The prize he has selected will be sent him postpaid. When submitting entries it will be necessary to name your first three choices for prizes, and to name those which you especially *do not want*.

What can you write about? Anything! How you became a DXer. A visit to a broadcasting station. The technical side of aeriels. Grounds. The sunspot theory. What you think of all-nighters. What's wrong with DX Clubs. Shortwave reception in Omsk.

The articles we select will be seri-

ous, informative, interesting DX articles. We mean that. Remember, Baron "Pooky" makes all the jokes. In length they may run anywhere from 200 to 1000 words. We specifically reserve the right to abbreviate them. None will be returned. No correspondence will be entered into.

Come on, DXers! We are willing to share our publicity with you. It's all in fun, and that photograph is—ah! Address us, "Pooky," Universal DX Club Headquarters, 345 Maple Ave., Oradell, N. J. We really mean to give away those prizes because it is worth that much to Pooky to have someone write his column for him every month.

Speaking of publicity, why don't you join the club? Dues, you know, are only a dollar a year. And you get a mascot free.



A candid camera shot of lovely Jane Froman as she sings a love sonnet over the NBC-Red Network. She is the star of the program replacing the Jack Benny Show for the summer.

WTFI Athens, Ga., on 1450 kcs. will move into the city of Atlanta at about the time this issue of RADEX reaches its readers. It is expected the call letters will be changed to WAGA when the transfer is made.

DX NOTES From The Broadcast Band

• • • By the BROADCAST EDITOR

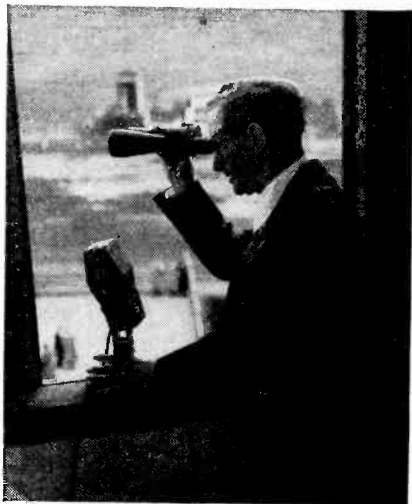
AFTER several months of inactivity, the calendar once more shows the approach of another radio season. For many a listener, this will mean dusting off the old receiver, removing the headphones from the proverbial moth balls, and generally getting ready for a winter of old-fashioned DXing.

It won't be long before many of our readers will be shutting off alarm clocks and crawling out of warm beds for an hour or two of early-morning dialing. As ever they will be on the look-out for new stations to verify, and judging from the way the FCC has been handing out construction permits, there are going to be a lot of swell catches waiting for a chance to be logged.

Radio clubs are already preparing for another season of activity and service to their members. In another section of this issue, which is dedicated to the Universal DX Club, an anonymous writer takes us behind the scenes of the UDXC headquarters at Oradell, N. J. Many of us who have never seen a club bulletin "put to bed," will be interested in the typical scene in the basement of 345 Maple Street. Those who have commented on the excellent typographical work done on that bulletin, will be glad to know how it is done.

Veri Cards vs. Letters

In many a past issue, readers have complained about stations which ask for three cents postage and then verify with a penny post card. While it has always been admitted that a neatly-typed, personal letter on a station letterhead is a most welcome addition to a file of verifications, readers may not have realized what it costs to verify in



Clem McCarthy, veteran NBC turf authority and commentator, and expert sports announcer, is shown in this interesting study.

that manner. Paul Sampson, 1820 College Ave., Regina, Sask., submits some revealing figures in this connection:

"Why do some DXers go up in the air because a station may send them a typewritten veri on a postal card?" he queries. "We really ought to thank our lucky stars that they do us this service. There are few stations which won't verify for return postage, but that is no reason to frown on them and put them down as robbers.

"After all, a radio station is a business enterprise just the same as the average office. They have to pay for their overhead and count the cost of operating their office. According to 'Office Practice,' the leading text of Canadian business high schools and colleges, here is what it costs the average office to send a

letter: Executive's service, 15.4 cents; Stenographer's service, 7.3 cents; office overhead, 7.5 cents; Postage, 3.0 cents; and Stationary, 1.8 cents. Add that up and you find that the average letter costs exactly 35 cents to mail.

"It can be seen that the mere item of return postage doesn't begin to pay for the actual cost of issuing a veri. DXers should think twice before attacking the station which sends a post card or refuses to verify at all."

Contest Winners Report

It has been some time since the Mystery DX Contest was concluded and the various prizes distributed, but the intervening summer months have prevented the publication of letters from some of the winners.

"The Scott 23-tube receiver arrived the other day," advises Floyd L. Biss, Brittmount, Minn., who placed first. "I bought a Warrington console to go with the set and it is certainly a beautiful outfit. Haven't had a chance to operate it yet, since there is no AC current out this way. We have had an AC generating plant on order since last fall, but have suspended the order temporarily as we expect a power line to go through here. If the line doesn't come through pretty soon, however, we are going to get the other outfit. I'll be sure to have something figured out before the next DX season begins.

"Perhaps the most enjoyment a person can get out of a contest is coming in first, but I can honestly say that no other contest has ever held the interest for me that this one did. I thoroughly enjoyed the three nights of competition, and though I was sure that I had placed way down the line, I looked forward eagerly for the next competition. To learn that I placed first was a shock beyond measure."

"Just received the pair of head-

phones," writes Arthur E. Foerster, 1213 Bosart Ave., Indianapolis, Ind., "and want to thank you for giving me the opportunity to win them. Believe me, I wouldn't have minded so much the noise and static during the contest if the old set of phones hadn't been so heavy and made my ears so sore. The new Trimm Featherweights are swell and they sure make DXing more of a pleasure."

"The Perfect Phone Adapter was received OK," informs T. J. Sanders, P. O. Box 32, Bly, Ore., "and I want to thank you very much. Also, I want to join in with the many DXers in thanking you for putting on the contest, and I hope that you can repeat it each year."

"Just a line to thank you for the subscription to RADEX," notes P. M. Dillingham, Box 76, Luseland, Sask. "I really didn't think I had a chance to win one of the prizes, so the announcement in the May issue was a great surprise. The contest certainly was a thriller and you may be sure that I'll take a crack at any more you decide to conduct."

And A Non-Winner

"While I didn't get to first base in the contest," admits S. Raymond Lewis, 1733 Kensington Rd., Toledo, Ohio, grand prize winner in the 1936 competition, "I do want to congratulate Floyd Biss on the swell bit of dialing which he did over that memorable week-end. Knowing how reception was here in Toledo, and how it must have been all over the country, my hat is off to him and the rest of the winners. They certainly had what it takes!

"Outside of drawing a blank in the contest, the past season was unusually kind to me. The Scott really went to town and brought in the following trans-Atlantic catches: Belfast, Northern Ireland; Paris (on 695), Nice and Toulouse (on 776), France; Bologna (which makes Italy

completely verified on the BCB); Vienna, Austria; Praha and Moravska, Czechoslovakia; Brussels No. 1, Belgium; Monte Ceneri and Beromunster, Switzerland; Breslau, Berlin, Leipzig and Konigsberg, Germany; and Madona, Latvia. PRA9 and PRE8 are two nice SA's which have come in recently. By adding a few Cubans, Canadians and Mexicans, and close to 40 U. S. stations, the total of veris has reached 1135. Some chaps say it was a bum season, but I don't see how it could have been much better for me."

Reception Reports

In one of Count De Veries' "Scrapbook" articles a couple of issues back, there was noted the case of five listeners in a mid-western city whose reports on KVI's contest program did not agree on the type of reception which was experienced. One listener reported static as being "heavy," while another said there was "none." Signal strength varied from R3 to R7. Other discrepancies were noted and it was pointed out that such a variance might look rather odd to the station engineers.

"I'll have to differ with you on the matter," informs Arthur E. Foerster, 1213 Bosart Ave., Indianapolis, Ind. "Can you imagine a situation something like this: a fine sensitive receiver, with an antenna directed toward KVI, on one side of the room; a cheap, noisy receiver, with antenna pointed away from KVI, on the other side of the room. I'd like to bet that the reception reports of the two DXers would be quite different. If the receiver, type of antenna and direction didn't make considerable difference in quality of reception, why would DXers be asked to give this information with their reports?"

"Put me down as disagreeing on the KVI matter," requests R. B. Oxrieder, 122 E. Hamilton Ave., State College, Pa. "Heaven only

knows that DXers do plenty of things for which they deserve a 'cussing' but in this instance I am going to arise to the defense of the five mid-Western listeners.

"Not so long ago I was testing three receivers in a side-by-side test. On one particular station, receiver A was very selective and separated the desired station from interfering broadcasters on the two adjacent channels. I was able to hear about 90% of what was said, and gave the station QSA5-minus on readability. Receiver B failed to get rid of the interfering stations, so the wanted transmitter rated GSAO through no fault of its own. Receiver C was sufficiently selective to give about 70 to 80 per cent readability, so its reception of the station was rated QSA4.

"I have three aeriels and a switching system, so I can use any one of them at will. Taking one receiver and tuning to a given station, I have found that antenna X will give satisfactory reception with the volume one-third on. Switching to antenna Y, I must turn the volume one-half on before I get the same output. Finally, still tuned to the same station, use of antenna Z necessitates turning the volume two-thirds on to maintain the same level. Therefore, if I had been three different people, each one of whom had used one of these combinations, I couldn't have given the same R report in any case.

"At the time I made the three-receiver test, I found that on weaker signals: A gave very little noise; B gave some; C gave a lot. I have also found that the antenna used will make quite a difference in the case of the amount of noise picked up. Thus, a very honest report based on various combinations of aeriels and receivers could easily show a wide variation on noise level and static.

"Consequently, if I can get so
(Please turn to Page 48)

Tuning The AMATEURS

● ● ● By B. L. Ahman, Jr.

GREETINGS, readers old and new. A fresh piece of news of interest to all of you is the Guatemalan amateur on 20 meters. He is TG1AX, and according to Julius Orosz he is on the low end of the band. The address hasn't been established as yet, but we'll try to have it for you next month. Frequency, 14100 kcs.

The frequencies of some new stations are given herewith: YI2BA, Iraq, Asia, on 14170 kcs. OZ7KE, Denmark, 14100 kcs. LU9KA, Ricardo Frias (h), 9 de Julio 197, Tucuman, Argentina, 14400 kcs. CP1AA, H. E. J. Smith, Caçilla 669, La Paz, Bolivia, 14000 kcs. J2LU, Japan, 14265 kcs.

A nice card arrived from HC1JB, the portable call of HCJB, Quito, Ecuador. This was our first Ecuadorean ham, and the card is the same as the one used by the brother broadcasting station with the number "1" inserted.

Julius Orosz, 12205 Parkhill, Cleveland, Ohio, devotes his time entirely to tuning the 20-meter amateur band. He says he had tried all the other forms of DXing, but decided to concentrate on the amateurs because he feels that broadcast listening is too "cut and dried."

"For instance, on the broadcast band," he explains, "the frequencies and time on the air of practically all stations are available. Therefore, in order to tune in a certain station which you may be desirous of hearing, it is only necessary to tune at a predetermined time to a predetermined frequency, which can be very accurately accomplished on most receivers, and then turn up the volume control. The result will be

that you will either hear the station or you won't and that's all there is to it.

"Thrills galore are available on the 20-meter band. Nothing is probable and yet anything is possible. This is a band of uncertainties and unlimited possibilities. Practically every country in the world has amateur stations. Stations are often heard from some country which we didn't know existed before, and many times flea-powered stations completely dominate the band. On this band one can fish to his heart's content.

"The beauty of amateur DXing is, regardless if the station is in Greece, Austria, Switzerland, Bolivia, Egypt or any other country, the calls are announced in English, with the use of proper nouns to facilitate identification of call letters. Some of these identifying signals themselves have become famous, such as W4DLH (Four dark lean horses), TI2KP (Kiss papa), W8TY (Thank you), W9PGC (Pretty Good City); W4EJA (Educated Jumping Alligators); or W9ODQ (Old Doctor Quack).

"It is possible to build an impressive log even though time is limited as it takes only a few minutes to identify a new station. Many times within a period of five minutes several valuable additions can be made to one's log, while fifteen or thirty minutes or even more is required to identify a broadcasting station.

"I clearly recall the thrill I received one morning when I tuned in an Alaskan, K7PQ, with an R5 carrier squeezing between two powerful W6's. What was more grand than the thrill of hearing ZE1JR and ZU6P calling CQ, located in Southern Rhodesia and the Union of South Africa respectively? Most thrilling was the first reception of EI2J in Dublin in the Irish Free

State when the operator announced he was using only 7 watts. Nothing can equal the fun of tuning in 10 and 15 watt Australians, and nothing was more astonishing than the reception of VQ1AB in the Fanning Islands, when he announced that he had just reduced his power from 10 watts to ONE WATT."

Mr. Orosz has what we consider a very good system of keeping his amateur log. Space limitation forbids publication of this part of his letter this month, but in next month's column we will give the plan in detail.

"Twenty meter DX is still holding up well here," reports H. Wilcox, 623 W. 40th Place, Los Angeles, Calif. "The 1's, 2's, 3's and 4's are more active than usual and the 5's and 9's have let down somewhat. Canadians are always good here. Some of the best heard here last month are TI2KP ("Kiss Papa"), San Jose, Costa Rica; VE4KZ; VE3NF; TI2PG; XE1GK and K7FBE.

"One of the nicest cards received recently is the one from HH2B, Port-au-Prince, Haiti, showing a photo of the rig, which happens to be a 100 watt Collins. Other nice cards are from XE2FC, Tampico, Tams. and VE4KZ at Calgary."

September should bring a new crop of Australian hams to the fore, as DX on 20 has been pretty good throughout the year. Other countries, however, are beginning to make appearances and many new countries are being represented by amateurs. Modern receivers are going after and digging out those elusive far-away signals so easily now that one can sit at ease and travel around the world. The whole world is at our finger tips; all we have to do is listen in on what the other half is doing.

Readers are again cautioned to

send the longest reports possible to amateurs, with as accurate a description of the signals as is possible. The hams would rather have a poor report if correct than a glowing one which sounds too much like a bribe.

Do not be backward in sending in reports. They are all very much appreciated, and all will be used. Just let us know what you want and we shall do our best to please.

Amateur CALLS HEARD

C

CO: 2EG (*ag*); 2GA (*g*); 2JG (*g*); 2KC (*dg*); 2KY (*gh*); 2LY (*g*); 2MH (*dg*); 2RW (*g*); 2WW (*gi*); 2WZ (*dg*); 6OM (*d*); 7CX (*i*); 7HF (*d*); 8AG (*g*); 8AK (*g*); 8BC (*d*); 8OG (*g*); 8YB (*gi*); CT1AY (*g*); CY1FR (*c*); EA8AE (*c*); EA9AH (*g*); EI2J (*b*); EI2L (*g*); F3GR (*g*); F8DL (*c*).

G: G2HQ (*g*); 2MF (*g*); 5BJ (*c*); 5JO (*a*); 5KH (*g*); 5LV (*g*); 5ML (*g*); 5MU (*g*); 5NI (*g*); 5NW (*c*); 5SA (*g*); 6BW (*g*); 6JQ (*g*); 6OS (*g*); 6TZ (*g*); 6WX (*g*); 6XR (*g*).

H

HB: 9A (*g*); 9B (*g*); 9J (*g*); HC1ETC (*c*); HC1FG (*g*); HH2B (*cg*); H15X (*ag*); HI7G (*agi*); HK1GK (*a*); HK1JN (*gi*); HK3JA (*g*); HK3OC (*i*); HK4AG (*g*); HP1A (*g*); HR2A (*e*).

K

K: 4DFD (*d*); 4ENY (*g*); 4SA (*gi*); 6AJA (*h*); 6BNR (*g*); 6CMC (*cg*); 6JLV (*a*); 6LTV (*d*); 6MV (*i*); 6MYM (*h*); 6NTV (*a*); 6NZQ (*cg*); 6OQE (*dg*); 7FST (*h*).

L

LUICA (*g*); LUIJE (*g*); LU5CZ (*g*); LU7AC (*g*); NY2AE (*di*); OA4AL (*g*); OA4C (*h*); OA4N (*cg*); OA4R (*g*); ON4PA (*g*);

ON4VK (g); OQ5AA (g);
PK1MX (e); PY1CK (c); PY2ET
(c); PY1FR (g); PY2AK (g);
PY2ET (g); SM7YA (g).

T

TG1AX (e); T11AF (g); T12DC
(a); T12FG (i); T12KP (ghi);
T12LR (g); T12PG (g); T12RC
(gi); T13AV (a).

V

VE: VE1LR (hi); 2DC (i); 2ED
(a) 2EV (a); 2FO (a); 2GG (a);
2HG (a); 2HY (a); 2LQ (i); 2NI
(i); 2OQ (i); 3ADO (i); 3ADP
(i); 3AKT (a); 3DF (d); 3FA
(i); 3HB (i); 3QZ (i); 3TC (i);
4AC (c); 4ACR (i); 4BD (ci);
4FW (d); 4HU (d); 4IW (d);
4PM (c); 4TW (i); 5DK (a);
5EF (ci); 5OO (c); 5PE (d);
5PZ (d).

VK: 2GU (d); 2HF (ch); 3KR (fg);
7CL (e); VO1I (ag); VO2N (ag);
VP3GB (g); VP4TH (c); VP5AF
(g); VP5GM (g); VP5PZ (h);
VP6YB (cg); VP7NA (g); VP9F
(c); VP9R (ag).

W

W: 5CHU, 5CTC, 5FDE, 6BPM,
6EJC, 6LR, 6LMS, 6DZX, 6BUQ,
6KSO (all heard by i).

X-Y

XE1AK (i); XE1BC (g) XE1GK
(g); XE1Y (g); XE2AH (g);
XE2FC (gh); XE2FF (h);
XE2JK (gh); XE2XE (g);
XE3AG (g); XE3AH (g);
XE3BH (g); YV1AA (gi);
YV1AP (a); YV5AE (c); YV5AG
(g).

Names and Addresses.

- (a). A. E. Blick, 125 Lappin Ave.,
Toronto, Ont.
- (b). Raphael Geller, 1652 Radcliff
Ave., Bronx, N. Y.
- (c). George Nahas, 147 Seeley St.,
Brooklyn, N. Y.
- (d). Martin J. Olthoff, 212 N. 16th
St., Independence, Kans.
- (e). Julius Orosz, 12205 Parkhill
Ave., Cleveland, Ohio.
- (f). C. Schafranek, 61-47 69th St.,
Maspeth, N. Y.

New DAVENTRY Transmitters

Details of the three new high-powered transmitters at Daventry and the reorganization of the aerial system have been announced by Sir Noel Ashbridge, the BBC's Controller of Engineering.

Sir Noel said that each of the new transmitters will have a power of 50 kw in the aerial. They are additional to the two 10 kw. transmitters which, with that of the first British shortwave station, G5SW, comprise the existing transmitters at Daventry. The power of the ex-G5SW transmitter is to be increased to 25 kw. and it is possible that, at a later date, the other two will be combined to form a single unit of greater power. Ultimately, therefore, the BBC will have five transmitters in use exclusively for the Empire Service. In ordinary circumstances four of these will be used simultaneously.

The Chief Engineer said that eleven aerial masts have been added, bringing the total to 15 masts, ranging in height from 80 feet to 500 feet. Twenty-three aerial arrays will be provided by the system, to any one of which any of the transmitters may be connected. A complicated framework has been constructed to facilitate change-overs. To eliminate echo effects, all the aerials for wavelengths of 20 meters and below and some of the 25 and 31-meter aerials are equipped with reflectors.

To connect the twenty-three aerials to the "transmitter-to-aerial" exchange, six miles of open-wire feeder lines carried on 550 poles are required.

-
- (g.) Jack Slinger, 1451 Lincoln Ave., Lakewood, Ohio.
 - (h). H. Wilcox, 623 W. 40th Place,
Los Angeles, Calif.
 - (i). Wm. J. Wood, 817½ Lake St.,
Oak Park, Ill.



PRETTY nearly every time someone writes in to report reception of a couple of foreign stations, a score or more of readers get out pen and paper to ask how it's done. Let a chap report a few hundred-watters from across the continent or even break down and admit that he's verified all the stations in a given group of states, and in come the letters to inquire about the secret of his success.

As close as I can judge, and I've been in the racket a few years, there isn't any hokus-pokus to DXing. I've never heard of any trick formula that will make an aerial break down under a load of Aussies or Europeans. And I'm sure that there isn't any magic ear which will enable one fellow to hear something that is inaudible to the other chap.

After spinning dials on many a long morning trick, DXing appears to boil down to the simple fact that "you either hear 'em or you don't." If you have a fairly good receiver connected to a decent aerial and if you listen at the right place at the proper time, you've got a pretty good chance to hear as much as the next fellow. Fall down on any one of these points, and DXing will be a rather unprofitable pastime.

Look At The Receiver

It goes without saying, of course, that a fairly efficient receiver is a most necessary factor for successful DXing. A listener doesn't have to own a large fifteen or twenty tube

set, because some mighty fine results may be obtained on a seven to ten tube job of fairly recent vintage.

If a listener is planning to use his present set during the coming season, it would be a good idea to let a reputable serviceman go over it thoroughly. Lining up the various tuning circuits is an easy job when good service equipment is used, and the improved sensitivity and selectivity will be well worth the modest cost. A receiver is no better than its weakest tube, so a check-up here may bring in a fine dividend of distant stations.

If the budget will allow the purchase of a new model, an article in another section of this issue gives some pointers on selecting a good receiver. From time to time during the coming months, performance reports on various models will give tips on what each set will do in a DX way.

Aerials Are Important

Too little attention has been paid in recent years to the antenna. The high sensitivity of modern receivers has made it possible to obtain adequate signal strength from a great many stations even with a poor aerial installation. As a result, many listeners are content to string a wire to the nearest pole and let it go at that.

If DXers would take a page from the early history of radio, they would enjoy far better results than many

now experience. In the old days, the limited range of crystal sets and single-tubers forced the erection of efficient aerials. Consequently, listeners put up lots of wire as high as possible.

It was no more difficult for the early receivers to pull in stations a few hundred miles distant than it is for present-day sets to log a hundred-watter across the continent or to span an ocean for a foreign station. Therefore, listeners who are anxious to better their DX records can't go wrong by reading the article on aerials in the September, 1936, issue of RADEX.

What Is DXing?

After the DXer has made certain that his receiving equipment is as efficient as circumstances will permit, he can turn to the consideration of what he wants to get out of the hobby.

Some DXers are primarily interested in building up the largest possible log of stations, whether they be local, semi-distant or foreign. Others are satisfied only when they hear stations at a very great distance, and to them anything within 1500 to 2000 miles is "purely local stuff." But regardless of how he looks at the hobby, the average DXer can determine what type of activity is best suited to his own taste.

He may be ambitious and decide to concentrate on foreign reception. If so, he will have plenty of company among the Radexers. He may consider the general conditions which existed during the past two seasons, and which will probably be repeated during the coming year, and set out to improve his log of North American stations. Of course, he won't pass up any foreigners which may trickle down his lead-in, but he won't neglect the stations which he has a reasonable chance to hear.

In the opinion of many listeners, DXing among our own stations can

be highly enjoyable pastime. It requires no inconsiderable skill and returns very satisfactory dividends. It does not necessitate spending an excessive amount of time and therefore attracts what is perhaps the largest group of DXers.

Fix Reception Goals

Probably the most interesting way to log stations on this continent is to establish definite goals for reception. You can pick crowded channels and attempt to verify every station listed. You might try to log all stations with more than 250 watts power, or see how many hundred-watters you can catch. You could set a mark of a hundred or so stations for the coming season and see how close you can come. Or you



Bottle and his boss, Phil Baker, caught by a candid camera man as Phil delivers a gag line. Bottle always comes to the studio in evening clothes, and changes into a butler's outfit for the broadcast. Harry von Zell, their announcer, took charge of their program as master-of-ceremonies during the summer.

can shoot the works and attempt the creditable task of verifying all of the stations in the United States.

This latter goal would be a real achievement for any DXer and, contrary to the opinion of some listeners, it is by no means an impossible or even improbable ambition. If the matter is considered in a sane light and if the problem is approached in a methodical manner, the chances of success are not at all remote.

To achieve this goal, the listener would probably turn to the list of stations by frequency in this issue and check off those which are already verified. He might be starting from scratch and have no veries to check off, or he might have several hundred, but the main idea would be to identify the stations which he needed. Taking this group as a whole, he would attempt to classify the stations by the manner in which they could be heard.

Into one sub-group would fall the stations which broadcast monthly frequency checks. For the most part, these broadcasters are pretty easy to hear and all but a few should be logged within three or four months. The low-power stations at a great distance may require several attempts before a verifiable report has been logged, but even these stations should be heard at least once during a season.

The next group includes the stations which can be heard at some time on their regularly daily schedule. Some of these can be logged during the daytime when interference from other broadcasters is at a minimum. Others can be heard during the evening when they override the interfering stations on their channel or pop out unexpectedly when the dominant broadcasters does a fade-out. Early-evening hours, when darkness is just falling, is an excellent time to pick up stations not too far away. Late at night other stations can be heard prior to their sign-off, while the hour after 6 am finds many broadcasters just signing on for the day.

To receive the stations in this group, consult the schedules in RADEX and determine the best time to hear them. It may be noted that a needed station remains on the air at night after the others on its channel have signed off, or it may commence broadcasting a few minutes earlier in the morning. Even

when two stations are supposed to sign off at the same time, one of them may have a final announcement which will give a DXer a few minutes in which to take down a summary.

After the listener has checked off the stations which he might hear on their regular daily schedules and has noted those which transmit monthly frequency checks, he will have left over a third and final group. These are the stations which will be heard only during special broadcasts, and the DXer will have to depend upon hearing a chance equipment test or a program dedicated to one of the radio clubs.

A Practical Example

All this sounds very well in theory, some readers will say, but how are we going to put this classification idea into practice? How are we going to know when to tune for the stations we need?

In answer to this rather typical question, let's take a practical example. Let's look at the 1210 keys channel, where 53 U. S. stations are assigned. Of this total, no less than 43 can be found in the current frequency check schedule. Therefore, very DXer is going to have a monthly crack at all but ten of the stations on this channel. Of the ten remaining stations, KFPA, WLMU and WSNJ have not as yet commenced regular transmissions and cannot be classified as active stations. When they do come on the air, they probably will be assigned to the frequency check schedule. That leaves but seven stations unaccounted for—KFOR, KFXM, KPPC, WCRW, WEDC, WJEJ and WSBC.

Looking at the time on the air for these broadcasters, it is noted that KFXM is on until 3am EST daily except Saturday and Sunday. With a reasonable bit of luck, a DXer in any part of the country should be able to hear that station some morning this winter. Of the

three time-sharing Chicago stations, WSBC signs off at midnight EST and is usually followed by WEDC for an hour or two. Thus, the latter shouldn't be a difficult catch for Eastern and Central listeners. WCRW's schedule is unfavorable for distant reception, so this station as well as WSBC will have to wait for a special program. The same is true of KPFC, KFOR and WJEJ. Thus, out of a total of fifty active stations on a crowded channel, only five cannot be heard at any distance on their regular programs. And of these five, the chances are excellent that at least two or three will broadcast one or more special programs during a winter season.

Any other channel in the entire broadcast spectrum can be analyzed in the same manner. DXers can easily determine if a station has a chance of being heard either on a regular program or on a frequency check transmission. If this is not possible, the desired station falls into the third classification and must wait for a special.

Fortunately for listeners, the courtesy programs committees of the various radio clubs are usually very active in arranging specials from stations in this latter group. All wise DXers should make a point of joining one of the clubs and take advantage of CPC work.

Dialing The Foreigners

Reception of a foreign station on the broadcast band is a happy occasion which occurs too seldom in the life of the average DXer. Yet there is no reason in the world why most listeners shouldn't experience this supreme DX thrill a few times in any season.

Here, as in the case of domestic DXing, the primary requisites are a good receiver and a knowledge of when and where to tune. Perhaps the only other important factor is a certain degree of tuning skill, which, after all, is largely a matter of pa-

tience and perseverance.

Too often a DXer will give up when a nice trans-oceanic catch is within his reach. He forgets that signals from Europe and Australia are necessarily very weak, and when he fails to log the station immediately, he is inclined to turn away in search of a more powerful signal. Until he conquers this tendency, he cannot hope for success.

Also, many listeners complain that they have heard many foreign stations, but were unable to get a report. Actually, they could not understand the announcements and were not able to identify the selections heard. If a DXer hears a station and cannot jot down the fact that he heard a man talking, an orchestra playing a waltz, a woman singing, a violin solo or a choral number at a definite hour—if he is unable to make a report out of such items, he certainly does not deserve to receive a verification.

But even assuming that a listener knows what to do with a station when he hears its faint signal, he still has to tune the carrier in the first place. And that involves a certain knowledge of when and where to tune.

When To Tune

Foreign reception on the broadcast band is a very seasonal matter, and unless the months and hours are taken into consideration, there is little chance of success.

First to arrive this season will be the stations in Australia and New Zealand. They will be at their best in October and November, and then they will drop out of hearing until the peak months of March and April next spring. This is true simply because while we are having our fall, they are having spring—and vice versa. Thus, the seasons at both ends of the path of the signal are similar.

The New Zealand signals generally become audible just after 4 am EST,



An interesting subject, interesting mood and interesting pose completed the composition of the photograph of Irving Berlin, made by Ray Lee Jackson, NBC staff photographer. This was judged the "Most Interesting Portrait" in the NBC Photographic Exhibit.

when it is 10:30 pm down there. A little later, the Aussies begin to push through, and from then until daylight, the stations increase in strength. As there is practically no interference from other stations with which to contend, the Aussies and Zedders are perhaps the easiest to tune.

Also during the fall months, South American stations make their appearance. However, since they are on the air while our own locals are still broadcasting, they provide rather a difficult test for the average DXer. With the exception of occasional early morning special DX and test programs such as the Bureau of Standards conducted the past two years, the best time to tune the SA's is in the early evening hours before the dominant locals have reached their peaks. By tuning to the frequencies of the more powerful stations, it is often possible to pick up a station in Brazil or Argentina,

The months of November, December and January find trans-Atlantic reception at its best. The European stations are generally considered as being divided into two district classes—those which are heard between 6 and 7 pm EST, and those which must be tuned between 1 and 3 am EST.

In the first class we find the stations which are just concluding their day of broadcasting and sign off at 11 pm or midnight GMT. Operating on split-frequencies which necessitate extremely selective receivers and bucking a barrage of our own domestic transmitters, these Europeans are very difficult to hear. However, shortly after dark and before the locals reach a signal peak, listeners along the Atlantic Coast have had any number of good catches in this class.

The second group of European covers the German, French, and Italian stations which are just signing on for the day. Many of them are broadcasting as early as midnight EST, but are not heard until after 1 am when our own locals have gone to bed. By 2 am they are in full swing, only to fade out shortly before 3 am. As possible interference on these transmitters is limited to our late broadcasters, many of whom are sufficiently distant to allow close tuning, this group of Europeans offers the best chance of spanning the Atlantic.

Occasionally it is possible to dial the other two continents—Asia and Africa. West Coast listeners report Japanese and Chinese stations regularly between 3 am PST and daylight during the middle of the winter, but their signals are seldom heard East of the Rockies. A few Atlantic Seaboard DXers have been successful in logging and verifying an occasional African station, but this is decidedly freak reception and hardly worth the time spent in fishing.

(Please turn to Page 48)

The MONTH'S CHANGES in STATION DATA

NEW		1330 KRIS	Corpus Christi, Texas, new Blue
680	Lawrence, Mass.	1340 WFEA	Manchester, N. H., new Blue
1120	Austin, Texas	1350 KIDO	Boise, Idaho, new Blue
1200 KVGL	Greenville, Texas	KWK	St. Louis, Mo., new Blue
	Salisbury, Md.	1380 WKBH	La Crosse, Wis., new CBS
	Toledo, Ohio	1400 KHBC	Hilo, Hawaii, new CBS
1210 KHGB	Okmulgee, Okla.	1410 KGNC	Amarillo, Texas, new Blue
1240 XEAY	Mexico City, D. F.	1420 WJBO	Baton Rouge, La., new Blue
1310 WGTM	Wilson, N. C.	1430 WNBR	Memphis, Tenn., new Blue
	Fresno, Calif.	1440 KXYZ	Houston, Texas, new Blue
	Lufkin, Texas	WSAN	Allentown, Pa., new Blue
	Pittsfield, Mass.	CALLS	
1340	Dubuque, Iowa	950 WHAL	Saginaw, Mich., from WJOY
1370	Lawrence, Mass.	1080 XEDP	Mexico City, D. F., from XEXM
1420 KLBM	La Grande, Ore.	1100 WBIL	New York, N. Y., from WLWL
	St. Cloud, Minn.	REINSTATED	
	Sioux City, Iowa	1210 WLMU	Middlesboro, Ky.
	Centralia, Wash.	DELETED	
1440	Miami Beach, Fla.	1200 WNRI	Newport, R. I.
1500 WKAT	Owensboro, Ky.	1400 WARD	Brooklyn, N. Y.
		WLTH	Brooklyn, N. Y.
		1500 KYCA	Prescott, Ariz.
580 WILL	Urbana, Ill., from 890	OWNERS	
850 CMCN	Havana, Cuba, from 1500	1010 WNOX	Scripps-Howard Radio, Inc., Knoxville.
1080 XEDP	Mexico City, D. F., from 610 (XEXM)	1050 KFBI	Farmers & Bankers Brdcastg. Corp., Abilene
1210 KALB	Alexandria, La., from 1420	1080 XEDP	Departamento de Publicidad y Propaganda, Mexico City
1260 CMOK	Havana, Cuba, from 1470	1100 WBIL	Arde Bulova, New York
	Chico, Calif., from 950	1140 WAPI	Ala. Polytechnic Institute, Uni- versity of Ala. State College, Birmingham
1370 KRMC	Jamestown, N. Dak., from 1310	1200 WCPO	Scripps-Howard Radio, Inc., Cincinnati
1390 KRLC	Lewiston, Idaho, from 1420	1210 WSIX	WSIX, Inc., Nashville
1410 KMED	Medford, Ore., from 1310	1310 KHUB	Anna Atkinson, Watsonville
1420 KATE	Albert Lea, Minn., from 1200	1370 KIUP	San Juan Brdcastg. Co., 2800 Main St., Durango
1450 WTFI	Atlanta, Ga., from Athens	CONSTRUCTION PERMIT TO CHANGE FREQUENCY	
LOCATION		1190 WATR	Waterbury, Conn., to 1290
POWER		1210 WMBG	Richmond, Va., to 1350
580 KMJ	Fresno, Calif., 1000 from 500	1310 KIT	Yakima, Wash., to 1250
590 WOW	Omaha, Nebr., 1000 from 5000	WOL	Washington, D. C., to 1230
880 WQAN	Scranton, Pa., 1000 from 250	1420 WJBO	Baton Rouge, La., to 1120
920 WPEN	Philadelphia, Pa., 1000 from 250	CONSTRUCTION PERMIT TO CHANGE POWER	
WRAX	Philadelphia, Pa., 1000 from 250	560 KSFO	San Francisco, to 5000
WWJ	Detroit, Mich., 5000 from 1000	590 WKZO	Kalamazoo, to 250
1000 KFVD	Los Angeles, Calif., 1000 from 250	780 WTR	Norfolk, to 1000
1200 KOOS	Marshfield, Ore., 100 from 250	880 WCOC	Meridian, to 1000
1210 WJTN	Jamestown, N. Y., 100 from 50	900 KGBU	Ketchikan, to 1000
1260 KRGV	Weslaco, Texas, 1000 from 500	WLBL	Stevens Point, to 5000
1330 KRIS	Corpus Christi, Texas, 500 from 250	950 WRC	Washington, D. C., to 1000
1370 KTEM	Temple, Texas, 250 from 100	1010 CKCK	Regina, to 1000
1390 KRLC	Lewiston, Idaho, 250 from 100	1200 WJRD	Tuscaloosa, to 250
1500 KNEL	Brady, Texas, 250 from 100	1210 WMBG	Richmond, to 500
KPLT	Paris, Texas, 250 from 100	1340 WCOA	Pensacola, to 1000
NETWORK		1420 WJBO	Baton Rouge, to 500
560 KFDM	Beaumont, Texas, new Blue	1440 WMBD	Peoria, to 1000
630 WGBF	Evansville, Ind., new Blue	1490 WCKY	Covington, to 10000
880 WGBI	Scranton, Pa., new CBS	CONSTRUCTION PERMIT TO CHANGE LOCATION	
890 KARK	Little Rock, Ark., new Blue	560 KSFO	San Francisco, to Oakland, Calif.
1110 KSOO	Sioux Falls, S. Dak., new Blue	570 KGKO	Wichita Falls to Ft. Worth, Texas
1180 KOB	Albuquerque, N. Mex., new Blue	880 WRNL	Petersburg to Richmond, Va.
1200 WAIM	Anderson, S. C., new CBS	1500 WGFI	Corpus Christi to Brownsville, Texas
1210 KANS	Wichita, Kans., new Blue		
KGLO	Mason City, Iowa, new CBS		
WJTN	Jamestown, N. Y., new Blue		
WMBG	Richmond, Va., Red from CBS		
1250 WDSU	New Orleans, La., new Blue		
1260 KRGV	Weslaco, Texas, new Blue		
1310 WBOW	Terre Haute, Ind., new Blue		
WOL	Washington, D. C., new MBS		
WROL	Knoxville, Tenn., new Blue		
WSGN	Birmingham, Ala., new Blue		
1320 WORK	York, Pa., new Blue		

What Is a DX CLUB?

• • • By "POOKY"

There aren't many members of any DX club who know how the darn thing runs. To most members, headquarters is a postal address and the officers of the club are names. They know that the thing does run, because they receive their bulletins on time. But only the men who put out those bulletins, and answer letters and run contests and keep ledgers and cut mimeograph stencils and arrange specials and buy stamps, know what a DX club really is.

This issue of RADEX is dedicated to the Universal DX Club, whose chief officer is Alfred J. Stansfield, whose headquarters are at 345 Maple Ave., Oradell, N. J. It's not the oldest DX club in the country, nor quite the largest, nor, perhaps, the best, but DX'ers should be proud to call it representative.

And if you'd like to know what a DX club really is, accept our invitation and travel in your imagination to the headquarters of this club and see with your own eyes how the thing runs. You may be disillusioned, but that's all right. The true background of a club is more interesting than any false front.

Suppose you turn back the clock and time your visit to a night last winter, in the height of the DX season. Make it a night near the middle or the end of the month, just before the club's twice-monthly bulletin comes out. And make it some ungodly hour of the morning.

Oradell is a village of only 3000 souls, and you won't have much trouble finding Maple Avenue. All the houses along the street are dark—it's a respectable village!—but you know that there must be DX'ers somewhere about. And at last you see the light in 345, a light stream-

ing out over the snow, from the basement window of a modest white frame house.

You know you're welcome, so tiptoe around to the back and go down cellar. Over to the left, under a bulb suspended from the ceiling, there's a small printing press, for this club prints all its own stationery at true cost. Beside it, there's a mimeograph machine. There seems to be no one about at the moment. The lady of the house would have fits if she could see the light burning.

But there's the sound of typing at the far end of the cellar, behind that door. Go over to it. What was that that slapped you in the face? Well, that was the laundry that has been hung in front of the furnace to dry.

Open the door, and there you are!

Yes, this is the center of the world for the members of the Universal DX Club, this small, crowded, smoke-filled room under a bay window. The members have heard about the catches of those two radios in the corner. Their letters to headquarters have been answered on those two typewriters. Their dollars (a complete membership in this club costs only a dollar a year) are in that box on that ledger. Their hobby is in the hands of those four tired, perspiring, worried men.

Last winter you would have found Allan Hoppenstedt there, the man of the house, aged 24, by day a member of an exporting firm in New York City, by night the Contest Editor of the bulletin. You would have found his brother Elbert there, aged 21, a clerk in a bookstore, and Managing Editor of the bulletin. You would have found Dave Owen there, aged 24, a writer and general cut-up, then BCB Edi-

tor of the bulletin. And always you would have found Al Stansfield, as the President, as Editor-in-Chief, and as guiding force and spirit of the club.

Elbert is cutting the mimeograph stencil of the first page of the bulletin, which will appear under the printed Old English "Universal News," and the blue seal of the club. This club takes more than ordinary pains with its bulletin and this first page must be perfect. Elbert is sitting hunched over the typewriter with his shoes off, his face a mask of concentration, meticulously tapping out the lines with two fingers. This is the SW column he's doing, sent in to headquarters from out of town by the SW Editor, garnered by him from members all over the world, checked and classified by him and made into clear, worth-while reading. There will be three neat white pages of it—if Elbert holds out.

Dave is kneeling on the floor, rearranging his BCB column for the last time. He's typed out each item on a separate slip of paper and it's a deadly serious game with him to line up those slips on the floor to make the best reading. He has a tip on an 8-watt rig in Quebec. He has the explanation of a new Mexican that's been causing confusion. He has the complete schedule of all the Scandinavian stations, worked out by the Norwegian Representative. He has a list of four new Aussies, sent up from down under. There will be three blue pages of these, and FCC data, and scheduled DX programs, and puns,—if Dave can arrive at a really artistic arrangement.

"Hoppy," as Contest Editor, is sprawled on the sofa, writing furiously, muttering under his breath. There were four UDXC contests last season, designed for all kinds and stages of DX, and they were all a

trial to "Hop." He's writing up the Singleton and Eliminator Contest now, for which the prize is a year's subscription to RADEX. He's finished his work on the new Universal BCB Contest, for which the prize is nothing less than a silver trophy. He has still to comment on the Junior BCB Contest, for which the prize is a bushel basket of early tomatoes sent postpaid from the farm of a member in Texas! And then he has to look over the Universal SW Contest—another silver trophy. There will be two yellow pages of contest material—if "Hop" can win his own contest with the heat from the furnace and the smoke from Elbert's cigar and the time on the wall.

And Al—Al is doing a dozen things at once, from deciding the future policy of the club to stamping envelopes. Mostly he's watching the time on the wall and worrying. This isn't an unusual night for him. He's seen dozens of bulletins born. But he can't help feeling, each time a new one goes into print, that he's entirely responsible for it. Now he's addressing envelopes to DX'ers who want to see a sample. Now he's writing an editorial and greetings to members and comment on the doings of the DX world, that will appear on one white page, the last page—without an "if."

Elbert hits the wrong key and nearly swallows his cigar. "Hoppy" finishes the S & E Contest and wearily tosses it onto the desk. Al makes a dive for it. Dave below, picks up his scattered slips, and thoughtfully rearranges them again.

The "Universal News" will go out on time. Before the date changes some of the members will have it in their hands. Within a few days members from Newfoundland to Nicaragua will be reading it. With-

(Please turn to Page 47)

Our Readers' RADIO PROBLEMS

• • • By B. Francis Dashiell

Beat Oscillator

I am the owner of a Crosley radio type 7H1. This set is now being used with a converter for the short waves below 160 meters. Can you tell me the intermediate frequency of this set? I am planning to use a beat oscillator with the set to help in locating weak signals, and would like to have some information on beat oscillation as a means of picking up weak and code signals.

The Crosley receiver which you have is a set with 7 tubes, one of which is a rectifier. Its intermediate frequency is 456 kilocycles.

Many receivers which will pick up modulated radio signals such as voice and music are silent when it comes to C. W. or continuous wave signals, such as much of the unmodulated code now in the air on the short waves. Therefore, a beat oscillator is always a part of any amateur or short-wave superheterodyne set. These oscillators are similar in principle to those used for the frequency conversion in the set to match the intermediate frequency circuits, or 456 kilocycles, in your case. The beat oscillator however is tuned very closely to this intermediate frequency. The output of the oscillator may be coupled to the second detector. One of the most common methods is to use a small bypass or coupling condenser—.0005 mfd. The B. O. output from its plate is connected by means of shielded wire to the output from the I. F. transformer leading to the second detector. Or the plate of a type 58 tube, for instance, in a simple oscillator circuit can be attached to the screen grid of the second detector tube by means of a short, shielded wire. There are many methods of attaching the beat oscillator

output, and your service man can easily assist you in making the arrangement. Or you may purchase a small B. O. unit at slight cost. This c. w. beat oscillator is switched on so as to provide a separate carrier wave signal in the second detector, and this heterodyning effect, if the B. O. frequency is close to that of the receiver's I. F., will break up the c. w. signals and make them audible.

Recording Signals

I have a phonograph pick-up and turn table, and also have a home recording disc. Is there any way by which I can record on the disc by running the pickup over it with the turn table and operate it all from my radio set? I have tried recording with an ordinary phonograph but this does not reproduce sufficient volume from my radio loud speaker to do the work.

We are sorry but it is not practicable to make recordings using an ordinary phonograph pickup on the home recording disc. The construction of the pickup is such that it merely takes the tiny vibrations from a record played on the phonograph and converts these vibrations into weak pulsations of electric current. This current in turn is stepped up by a transformer and fed into the audio circuit of the radio set where it is greatly amplified for the loud speaker. There is no method by which strong currents from the output of a radio set can be fed back into a pickup through the transformer circuit so it will set the pickup into vibrations which in turn will cut the recording disc. The construction of the pickup is such that it will not work. It is like talking into a telephone receiver and ex-

pecting to hear sound come from the transmitter.

The only practicable method of making home recordings of radio receptions is to use a special disc cutting unit. The cutter is similar to a telephone receiver and attaches to the output of the radio set and cuts its signals into the disc so they may be reproduced at will. This device is rather expensive. No doubt many of our readers have arranged similar devices, and we shall be glad to hear from them and publish such reports as may be of interest.

20-Meter Antenna

I am planning the erection of a 20-meter antenna, of the doublet type, but do not know whether the distance between the two halves of the doublet is important. Should these two halves be separated by a distance of four inches the same as the transposition leadin wires and blocks? Is it necessary that the two spaced leadins be vertical, and may they be brought directly to the set?

The distance between the ends of the two halves of the doublet antenna is not critical, but it seems to be the general opinion that approximately 4 inches is correct. A doublet receives best the signals that have wavelengths just twice the total length in meters of the two wires making up the horizontal flat top of the antenna, *including* the open space between the ends at the center. Therefore, it is expedient for us to make this open gap as short as practicable.

The two spaced vertical leads which should be transposed every two or three feet tend to eliminate the noise that is picked up, as well as signals, between the flat top antenna and the radio receiver. This line may be as long as desired but should hang free of the building wall or other objects by at least two

feet. It may drop down in a vertical line, or run at different angles. It should be guyed carefully where necessary to prevent swaying and twisting. Or a twisted transmission line may be run down from the doublet to the set. In any case a piece of twisted lead-in wire should be used to attach the ends of the two transposed leadins just outside the house, to the radio set indoors. A lightning arrestor must be installed outdoors at the end of the transposed leadin.

Phonograph Oscillator

I have purchased a crystal pickup for use with my model 60T Stromberg Carlson receiver. Would the use of a phonograph oscillator make enough difference in quality of reproduction to prove worthwhile?

The usual phonograph pickup is connected directly into the radio set. This is always more or less troublesome and usually a job for a good service man. But when the oscillator is utilized, all internal connections are eliminated to a great extent. The device is really a tiny radio receiver that obtains its power from the receiver unit, and is modulated by the phonograph pickup. Its installation requires but a few minutes. The modulated signal from your pickup coil is fed directly to the antenna connections of the receiver, and the set itself then handles the signal just as it would any intercepted radio signal. The volume control of the set provides all the volume control that is needed. This is a very simple arrangement and gives good tone, volume and is easily operated. The greatest objection to it is the additional expense over the older method of hookup.

Because of the high resistance of your crystal pickup it can be attached between many points in the circuit without the use of matching

or setup transformers. Usually the crystal pickup is connected between the control grid of the second detector tube and the chassis or negative B side of the following audio tube. Other positions are very satisfactory and your service man can quickly make the installation, and this is always to be recommended.

Night Distortion

I have a Philco 45, and reception is very good during the day, but at night the signals seem blurred and distorted until I move the dial off about 10 kilocycles to one side of the station being received. It clears up for a short time and the trouble is again noticed, after which I return the dial to its original setting and the poor reception starts all over again. What do you think may be wrong?

At night the signals being received are much stronger than during the daytime. This additional energy or volume can be distorted in a number of ways. Frequently there is a bad tube involved. Some tubes do not show this defect, so we suggest that the type 6A7 be replaced as a test method.

This set may be aligned by ear, but the use of an oscillator is recommended. If you do the work by ear turn the volume control down so low that signals can hardly be heard. In this way you can distinguish easily between low and stronger sounds. You might also try the plate bypass condenser in the plate lead of the type 75 tube. The voltage on all tubes should be tested to see if it is at the proper working potential. Of course, proper alignment and balancing of a set, by a competent service man, should eliminate most distortion due to broad tuning of strong signals at night.

Short-Wave Set

I feel the need of a good communication short-wave set that will



This clock-watcher is no other than Alexander Woollcott, the famous "Town Crier" of the Columbia network. Here he is shown waiting for the last few tense moments just before his broadcast while he prepares to ring the deep-toned bell which is almost as integral a part of the program as Woollcott himself.

really do the work on the high frequencies without bothering about the longer or broadcast waves. Local static is bad, and I wonder whether reception will be better using one of this better class instruments. Can you advise me about a good set?

It is obvious for several reasons why we cannot definitely recommend one particular short wave receiver. First, there are a number that are excellent. The cost of a good short-wave communications receiver is, of course, quite high when compared by the selling price of smaller all-wave receivers that cover the same wave bands. Many of these fine short-wave receivers utilize crystal control, band, spreading and other features that are considered necessary, and all of this adds to the cost.

Of the concerns making communication receivers we might mention for your information, the National Co., of Malden Mass., The Hammarlund Co., of 424 West 33rd St., New

York, N. Y., The Hallicrafters, of 2617 Indiana Ave., Chicago, Ill., the Radio Corporation of America, Camden, N. J., and there are a few others who deal with the communication and amateur market. We think, if you write to these manufacturers, mentioning RADEX, they will gladly give you much information which you can compare to your own satisfaction.

The problem of interference will remain to a certain degree regardless of the set you may own. Some of the finer sets with sharp tuning and crystal control, although such hair-line work may cut down the quality of the tone of voice broadcasts in the short waves, will, of course, cut out considerable of the static noise. This is particularly noticeable when receiving code on CW emission. The use of a good doublet antenna high on your roof, with a long twisted leadin, should help you considerably.

More Short Waves

Please tell me if there is an efficient radio set that will cover only the bands between 5 and 20 megacycles (5,000 to 20,000 kilocycles). I think that a set of this range will be just what I need, if it does not cost too much.

There are many sets that embrace the tuning limits you have mentioned, but they also cover other frequencies as well. If you are interested in just the short waves and desire the highest efficiency on these bands, a communications or short wave amateur or commercial receiver will give excellent results. However, these are expensive sets, and even then do not cover just the limits you have mentioned. They will usually range farther down into the short waves. Some sets, such as those made by the National Company, utilize interchangeable coils and it is then possible to procure a set of coils that will take in prac-

tically the limits you have defined. See the answer to the query above.

On Again—Off Again

I have had my set since 1929. The tubes test nicely, but I just had two replaced as they were weak. I am using one weak tube at this time but it seems to be pretty good. The set will play one day and go silent for two, and then play again for two days and quit for another two or so. My service man says the weak tube cannot cause this trouble. I can not think what causes the set to be playing well and then suddenly to drift away, but play nicely again the next morning. Can the one weak tube be the cause of this trouble?

This trouble, often called intermittent reception, can be caused by a weak tube or one that has defective elements that short circuit and render the set dead for a time until it is turned off and becomes cool. Heating or warping of some of the parts within the tube can cause this. A new tube, when one is not up to standard, is always indicated in any set, whether it works well or not.

Intermittent reception may be due to poor prong contacts between the tubes and sockets; a short circuit in the tube or its socket; a broken or burned out coil in the audio circuit or even in the loud speaker voice coil; bad connections somewhere in the circuit, or poorly soldered contacts to the chassis. It seems to us that heat causes some expansion of a part and that in turn causes the circuit to open. In this respect you can look for trouble in a resistor or coupling or bypass condenser. The only remedy is a careful check of all parts and wires of the circuit, sometimes resoldering all the contacts. However, we think the trouble is due to some part of the circuit opening after the set heats up, and that this is due to

a break or short circuit. Repairs should be inexpensive. But since you did not mention the make of your set we cannot help you other than in this general way.

Broad Tuning

I have a little midjet set, but there is a local radio station that comes in all over the dial between 1180 to 1500, although the station operates on 1280 kilocycles. Why is this?

Broad tuning or poor selectivity may be due to the set, which, if it is not sufficiently built with selector circuits, may allow a strong nearby station to come in over much of the dial. Corrective measures consist of a careful alignment of the tuning parts and checking and testing of the r. f. coils and tuning units or condensers. A defective tube in a set of this kind can cause poor selectivity. A good service man should be able quickly to correct this fault if it is not inherent in the set. On the other hand, the frequency of a radio station and that used in the i. f. of the set, may be such that a certain amount of the signal will be forced through the tuning circuit over a wide portion of the dial. In this case there is little that can be done with a tiny set of this type.

Tube Action

How does the current flow through a radio tube? Does it flow from the filament to the plate? That seems to be the way electricity flows, yet from what I can understand the current flows from the plate to the filament, and this would be contrary to the flow of electricity from a negative electrode.

The movement of electrons—bits of negative electricity is *always* from the negative to the positive terminal. This drifting of electrons makes up the electric current. If the plate of the tube is attached to the positive terminal of a battery, the cloud of electrons will be at-

tracted to the plate. But, while a circuit is completed, and electrons flow from the cathode or filament to the anode or plate, the current from the battery flows from the plate to the filament. This is because the *internal* flow of electricity in a battery is from the cathode to the anode, or from negative to positive. But when a circuit is completed, the current enters the *external* circuit from the anode, flows through the circuit, which in our case consists of the ionized space between the plate and the filament, and back to the other external battery terminal or negative cathode. The flow is continued with the cycle beginning again anew *through* the interior or electrolyte material of the battery. The movement of the electrons within the tube has little to do with the actual movement of current through the radio circuit. However, there is at present some debate about this flow, and some students feel that the electronic flow from the filament to the tube plate is continued out through the plate circuit and back again into the tube and its cathode. When a battery is attached to a tube, however, it is difficult to conceive of anything other than that which has been described above.

Vertical Antenna

Will you please explain something about the vertical antenna system and its advantages. I understand that many radio stations are using the vertical radiator antenna.

The vertical antenna is of greater interest to transmitting station operators and amateurs than the average radio listener. It has many technical virtues, of course, but is not so popular in general. It is a simple antenna. It is effective in reception when nearby signals that are vertically polarized are picked up. It is not directional, like the

(Please turn to Page 47)

DX Notes from FOREIGN Representatives

• • • Of the UDXC

Broadcast Band DX in New Zealand

NEW Zealand is claimed by scientists to be the best country in the world for radio reception, as it is the farthest country from the magnetic pole, and this latter may have much to do with good reception.

In the winter, between May and August, one can begin DX'ing at 2:30 p. m. The first country one hears is South America. At 3:30 p. m. the Mexicans, Cubans and higher powered EST, USA stations; and then at 4:30 p. m. USA stations from east to west are heard. Several of the higher powered Australian stations can be heard also throughout the entire day during the winter, but this country is always best received at about 5:30 p. m. At 9:30 p. m. the Japanese stations are heard and these are followed by Chinese, Siamese and Indian stations. At approximately 7 a. m. Europeans appear and can be heard up to 8:30 a. m. The most prominent of these are the French stations. We can say down here that one can DX practically every hour of the day.

During the summer months the Australians are much weaker and the USA stations are at their best. Quite a few of these, including the Canadians, can be heard from 11 p. m. and on, up to 3 a. m. the following morning, broadcasting their early morning programs, with EST stations being the first heard and the PST the last. At 4:30 a. m. the Hawaiian stations open up.

October and February are the two best months for Europeans, these being heard between 3:30 and 5 a. m. Almost any country on the

European continent can be heard during this period.

—By Robert Newton, New Zealand Representative, UDXC.

All Wave DX in England

Reception of Asiatic (except Jerusalem), Australasian, or South African medium-wave stations in England is very rare. North and South American broadcasters can be heard almost nightly during the winter and frequently in the summer.

American signals have been picked up as early as 9:30 p. m. GMT, and as late as 9 a. m. but the most popular listening period is after 11:30 p. m. during the winter. In the summer North American signals do not commence to arrive until about 2:30 a. m., although the South Americans are receivable sometime before that. WCAU, WTIC, WBZ, and WOR are about the best NA's and LR1, followed by LR3-5-6, LS2 and PRE8 are the SA headliners. SA's are more consistent, but except LR1, are less powerful signals than NA's.

All the USA shortwave stations except W4XB and W9XAA come over quite regularly, with W2XAD and W2XAF about the pick. DX stations regularly received include VK2ME, whichever of the Japanese stations carries the European Hour, Bandoeng and a multitude of Latin Americans. These Latins, however, are not usually receivable until late at night or early in the morning. Heard occasionally but not well are VPD, ZTJ, VQ7LO, Radio Colombo, etc.

Ultra shortwave trans-Atlantic reception is erratic but sometimes bet-

ter than might be expected. W9XAZ seems to be the most widely heard of these stations, but audible at times are W8XWJ, W3XEJ, W8XAI and others.

—By R. A. Stansfield, *English Rep.*, UDXC.



Henny Youngman, comedian with Kate Smith, proved an instantaneous success in his first appearance on the "Bandwagon" program, and won a regular spot on this hour. He made some kind of a record when a careful check of one of his monologues revealed that he provoked mirth 38 times in five minutes and ten seconds.

All Wave DX in France

During the daytime England, Belgium, Luxembourg and Germany are received perfectly on the broadcast band. As soon as night comes on, all principal European stations, as well as Algiers and Rabat are heard very well. In the winter and very late at night, several of the most powerful USA stations can be heard faintly.

On the shortwaves all continents are received, although at different times and different seasons. In the mornings from October to April from 7 to 9 a. m., GMT, Australia is heard—the ultimate in DX for us. Moscow is generally well received at

all hours. Toward noon the first USA stations break through on 13 meters, then later on 16 and 19 meters, and in the evening on 25, 31 and 49 meters. During the afternoon Hong Kong, Macau and Bandoeng are sometimes heard, but this is true in the fall and winter only. In the evening, everything on the American Continent from Canada to Chile is received. Cuba is the best.

Northern Africa is heard very well, but South Africa is heard very infrequently, it being the most difficult to receive of all countries. The shorter waves of 19 meters make it possible to hear Asia very easily all during the day in the summer time.

—By Robert A. Muguet, *French Rep.*, UDXC.

Shortwave DX in Algeria

As a rule, DX'ing is not particularly good in Algeria, especially in Algiers, which is located exactly in the center of French North Africa.

In Algiers there are many amateurs with powerful transmitters and receivers, and they work all of Europe very easily on 'phone; yet, real DX is very hard. Other hams located in Casablanca (Morocco) easily work America and they have no better equipment. The very same thing applies to Tunis. It is also true that there are not many USA hams who have worked Algeria—Algiers in particular.

European shortwave stations are heard equally well all during the day and at night. Outstanding are the German and British stations, on all bands—13, 19, 25, 31 and 49 meters. The only countries that are not well heard are Denmark, Sweden, Norway, Australia and Iceland.

First among real DX stations to break through are W2XE on 13 meters and YDC on 19 meters, both coming in at 12 noon, with 2XE continuing until 3 p. m. GMT, some-

times with an R9 signal, and YDC increasing to R8 at 3:30 p. m. Between 3 and 3:30 p. m. PMN on 29 meters is also heard but not well. Japanese stations JVH, JZI and JVM are heard regularly on transmissions intended for Europe (7:30 to 8:30 p. m.), and may be compared to local stations. Actually YDC (and YDB), PMN and the Japanese are the only consistent Asians, as HS8PJ in Siam produced a powerful signal only last October, November and December and has been inaudible ever since. The same applies to VUB Bombay.

After 10 p. m. all of America comes in, numerous stations being heard from South, Central and North America. The best countries are the USA, Colombia, Venezuela, Cuba, Brazil, Dominican Republic and Costa Rica. The poorest are Canada, Panama, Mexico and Argentina. The writer has never heard Guatemala, Peru, Ecuador, Bolivia and Uruguay.

The best wavelengths in the winter are 31 and 49 meters, many R9 signals being the product of these bands around 2 and 3 a. m. This good reception continues until 8 a. m. in the winter season. The summer reception on these bands continues until 6 a. m. In the spring the 25 meter band is good, W8XK being outstanding between midnight and 2 a. m.

A strange fact is the bad propagation between North and South Africa. The writer has never heard a South African station except the Capetown commercial on 15 meters, and this on only one occasion. We are told, incidentally, that North Africa is seldom heard in South Africa.

—By Rene Pleiber, *Algerian Rep.*,
UDXC.

New Stamp Issues

IT SEEMS that the stamp collecting and radio hobbies go hand in hand. Stamp collecting, often called the "King of hobbies and the hobby of kings," is an enjoyable and sometimes profitable pastime, and radio listeners who receive mail from overseas countries quickly form the nucleus of a good general collection by saving the stamps they get on their correspondence.

So many readers have expressed an interest in stamps that we have decided to include a few items each month in RADEX on new stamp issues. Our observations will be limited to the current issues of those countries where radio stations exist.

The UNITED STATES is fast becoming one of the most prolific of stamp-issuing countries. The most recently issued USA stamps, still available at most postoffices, are listed below:

The 3c Northwest Territory, first issued from Marietta, Ohio on July 13, bears a map of the Northwest Territory and portraits.

On August 18 the Virginia Dare 5c stamp was released at Roanoke Island, N. C., in commemoration of the first white child born in America.

A miniature sheet honoring the SPA Convention was issued at Asheville, N. C. on Aug. 26th. This consists of a single copy of the 10c National Parks (Great Smoky) stamp, printed in green, in the center of the sheet.

Later this year the Territorial issue is expected. This will consist of four stamps, honoring Hawaii, Puerto Rico, the Virgin Islands and Alaska.

The DOMINICAN REPUBLIC has a new 10c Airpost stamp. Deep green and light green in color, it depicts a seaplane base.

An interesting commemorative

has been issued by FRANCE honoring the philosopher Descartes. The title page of his most famous book, "Discours de la Methode" is shown at the left of the panel, but in error the first stamps were engraved reading "Discours sur la Methode." Both varieties were issued and collectors should look for them.

Japan's General Nogi, who committed hari-kari when his emperor died in 1912, is shown on the new 2s red issue of JAPAN. Japanese collectors are displeased with this issue because the design is too Germanic or Scandinavian in type to suit them.

The 5c brown Mexican current issue showing the Tower of Los Remedios has been reissued in a smaller size.

British Coronation stamps, and new regular issues bearing the portrait of King George VI, are beginning to trickle in. Thanks to thoughtful overseas correspondents, RADEX has received mail franked with Coronations from New Zealand, Australia, Gt. Britain, Canada, Newfoundland and the Union of South Africa. All together, 45 of the Crown Colonies and 14 Dominions issued Coronation stamps.

Two dollar and \$5 values have been added to the current CHINA Airpost series for the trans-Pacific airmail service. The design shows a monoplane flying over the Great Wall.

Provisional issues from SPAIN are so numerous that the catalogers are even having difficulty keeping up with them and it is probable that a lot of these stamps will never be cataloged. Radio listeners should contact Spanish amateurs if possible, especially those in rebel territory, and try to get some of these interesting adhesives. We have a cover from Cadiz which we value very highly, despite the fact it is only

tentatively recognized by the Scott Catalog.

Cautions

Postage stamps are worthless if they are in damaged condition. If you intend to start a collection with the stamps you have already accumulated from your foreign mail, be careful not to damage them when removing them from the envelopes. Do not pull them off, and do not steam them off. The only correct way to remove them is to soak them in lukewarm water. A few minutes' soaking will separate the stamp from the envelope, and they will dry out quickly if laid out on a blotter. Before soaking, however, remove the part of the envelope which contains the address, as the ink may run and discolor the stamps.

Stamps should be mounted with stamp hinges (never pasted down in a book). Hinges can be purchased for 10c a thousand from most stationers or stamp dealers, but be



Ray Noble, whose suave strains captivated dancing America when he first arrived in the United States, came up from Cambridge to become one of England's smartest composers and arrangers.

sure the hinges you buy are the peelable kind. Suitable albums for your stamps are available at prices ranging from fifty cents to many dollars.

Two books are recommended to help collectors to classify their stamps. The United States government has published a booklet illustrating and describing all the United States stamps which sell for 25c a copy. Address the Superintendent of Documents, Washington, D. C.

The other book is the Scott Standard Postage Stamp Catalog, \$2.50 a copy from all book and stamp dealers. This book will cost \$3 a copy in 1938. The Scott Catalog illustrates, describes, and prices every stamp ever issued by all the countries in the world.

Correspondents Wanted

"I am 16 years old and go to a radio-television school in Detroit. I would like to correspond with steady pen-pals from anywhere." Raymond Skidmore, 2311 Pasadena Ave., Detroit, Mich.

Jerome Roberts, 1573 Packard Ave., Racine, Wis., wishes corries.

"I would like to exchange SQL cards and post cards with anyone in the world," Austin Roquemore, 119 E. Hazel Ave., Ponca City, Okla.

"I would like to meet a few of the local amateurs if possible and will be glad to have them call in person any evening." Wm. J. Wood, 817½ Lake St., Oak Park, Ill.

"I would like to hear from anyone using a Sky Buddy receiver. I SWL 100%. Especially would like to hear from YL's." Joe F. Szabat, 120 Clarion St., Oil City, Pa.

H. Wilcox, 623 W. 40th Place, Los Angeles, Calif., wishes to exchange SWL cards with anyone interested in the amateurs.

"I will be glad to exchange SWL

cards with anyone. I have been DXing for nearly two years with a Silvertone 7-tube 3-band set." Walton Knight, Belinda P.O., Acco County, Va.

Miss Anna Uster, 2310 Pasadena Ave., Detroit, Mich., who is 19 years old and works at radio station WJR, would like to correspond with RADEXers.

Gerald R. Hobbs, 4348 8th, N.E., Seattle, Wash., who counts 1209 stations in his log, desires to correspond.



"This is the way we do it at CBS," says Bob Gibson, page boy singer, as he adjusts the mike for his sister, Freddie, vocalist on "Your Hit Parade," heard over the Columbia on Saturdays. Bob's singing ambitions have already landed him sustaining spots on the same network.

The Broadcast Division of the FCC has directed that a modification of license be issued to KALB, Alexandria, La., to change the frequency from 1420 to 1210 kcs., and the hours from daytime only to unlimited, using 100 watts power.

For SHORTWAVE Addicts

• • • *Written by Themselves*

THIS section of RADEX is completely written by our readers. It is a composite tabulation of all the reports received from shortwave fans, and every station mentioned herein was actually heard by someone who reads RADEX.

It is hoped that the system of classifying shortwave news by countries will meet with favor among our readers, but whether favorable or not, we shall be glad to have opinions. As these columns are prepared exclusively from information sent in by readers it naturally follows that the amount of information given depends upon the number of reports received. All s.w. listeners are urged to contribute.

From A. I. Breen of Dunedin, New Zealand comes information concerning a number of stations on the other side of the world. VPB in Colombo, Ceylon, he says, is still working on 6060 kcs. with 300 watts power, although they continue to announce as 6160 kcs. The Secretary of the Penang Wireless Society, controlling ZHJ, writes that the government station at Rangoon, Burma, is testing on various frequencies in the 6 megacycle band, but so far no definite frequency has been decided upon. ZGD in Kuala Lumpur, Malaya, was heard by Mr. Breen on a frequency near 13 megs. They were calling PLQ Bandoeng at the time. The S. S. "Awatea," ZMBJ, was heard frequently at 4 am. EST. on its 4.4 meg. frequency working with Wellington.

Broadcasts from 9MI, on the S. S. "Kanimbria" are radiated on the first Thursday of each month, and every Sunday and Wednesday, between the hours of 7 and 7:15 am.

Est. Each broadcast is sent to a different AWA station in Australia for rebroadcast. On Sept. 2 the transmission will be relayed to 2GN at Goulburn. On that day the ship will be between Mackey and Brisbane. 9MI transmits on 6.01 megs.

Argentina

LRU has returned to the air, operating daily from 8 to 10 am. After a silence of a half hour the broadcasting is taken over by LRX, from 10:30 a.m. until 12:30 a.m. the following morning, EST. Both these stations are operated by "Radio el Mundo," Calle Maipu 555. Verification cards bear the letters LRI, which is the broadcast band station they relay.

Australia

The new station, VK6ME, at Perth, is being heard more or less regularly on 9590 kcs. until 8 a.m. daily except Sundays. This station is owned by Amalgamated Wireless, (A/sia), Ltd.

VK2ME, 3ME and 3LR continue to come through on their regular schedules, as given in our indices. 3LR seems to be the best heard of the trio, with 3ME a close second.

Austria

The Vienna experimental station OER2 on 11800 kcs. transmits from 1 a.m. to 5 p.m. on Mondays through Fridays, and until 6 p.m. on Saturdays. This 1.5 kw. station announces as "Radio Wien."

Bolivia

According to a Bolivian amateur there are no s.w. broadcasting stations in Bolivia, but our South American representatives advises up that CP1, La Paz, transmits on 9800 kcs. and is frequently heard.

Bulgaria

"Radio Sofia," that elusive Bulgarian shortwaver, has been reported on frequencies between 14920 and 14940 kcs. You will have to tune for this station in the afternoons as they sign off before 5 pm.

Canada

CJRX, the 11 meg. transmitter of James Richardson & Sons, Winnipeg, use a vertical antenna for their 11 megacycle rig now, which probably accounts for the improved reception noticed in many parts of the country.

The Maritime Broadcasting Co., Ltd., operators of VE9HX at Halifax, announce that their 6130 kcs. station transmits from 6 to 12 p.m. daily except Saturday and Sunday.

CFRX of Rogers Batteryless, Toronto transmits on 6090 kcs. on weekdays from 7:45 a.m. to 5 p.m. on Saturdays from 11 a.m. to 5 p.m.

Ceylon

The Globe Circlers DX Club states that VPB in Colombo transmits daily from 6:30 to 10 a.m. EST. on 6160. Mr. Breen advises us, however, that the correct frequency is 6060 kcs. The Broadcasting Office is located in Torrington Square, Colombo.

China

A Chinese station so far unreported is XGOY at Kunming, which broadcasts on 7500 kcs., using 100 watts.

Colombia

Cards from HJ1ABP state that this station relays HJ1ABP on 1400 kcs. The shortwave unit, known as "Radiodifusora Cartagena" employs 1000 watts power on 9600 kcs.

Costa Rica

TIVL, San Jose, assigned 6700 kcs., has been heard on 6618.

Perry Girton, operating in the 20 meter amateur band, was heard to mention that he is building a broadcasting station to work in the 25-meter band. Mr. Girton is the own-



"Charlie McCarthy" is telling Edgar Bergen about the trouble he had getting away from the bar last night without paying his bill. Bergen, radio's only ventriloquist, was first introduced by Rudy Vallee to radio. Prior to that he had traveled extensively here and abroad with his famous dummy.

er-operator of TIPG on 6.410 megs.

Jerome Roberts of Racine, Wis. has a verification from TILS in San Jose which gives the frequency as 5800 kcs. and the address as Apartado 3.

Cuba

Emisoras Grau, owned by the Grau Brothers, Apartado 137, Santiago, say that their stations carry only the programs of the manufacturers of Baccardi Rum. Their stations are COKG on 6200 kcs. and CMKG on 1160 kcs. The studios are located at Sagarra, alta 26, and the transmitters at Loma de Quintero.

COCD, "La Voz del Aire," Box 2294, Havana, broadcasts daily from 7 a. m. to 1 a.m. on 6120 kcs.

A new Cuban is reported just as we are about to go to press. It is CO9BZ, Havana, announcing the frequency as 9070 kcs. The address was given as Box 866.

Curacao

It is reported that the name of this Dutch possession will be changed to Nederlandsche Antillen (Netherland Antilles.)

Czechoslovakia

The present transmitting schedule of the Prague shortwave station is

outlined herewith:

Trans. I, daily 2 to 2:15 p.m., EST., OLR5A, 15230 kcs. (news in Czech).

Trans. Ia, Monday and Thursday from 7 to 9:10 p.m., OLR4A, 11840 kcs. (news and music).

Trans. II, daily 9:25 to 11:20 a.m., OLR5A, 15230 kcs. (for the Orient).

Trans. III, daily 2:30 to 4:30 p.m., OLR4A, 11840 kcs. (for Europe and Africa).

Dominican Republic

HI3U, La Voz del Comercio, Santiago, according to Director Moises Franco y Franco, has three programs every day; one from 7:30 to 9:30 a.m., another from noon to 2:30 p.m. and the third from 5 to 7:30 p.m. On Monday nights from 8 to 9 p.m. a Scientific-Cultural Hour is presented. Recordings are never used, and music is always the typical music of the Dominican people. HI3U transmits on 6015 kcs.

HI2X in Trujillo City, on 11960 kcs., operates daily except Sundays from 8:10 to 10:10 p.m., EST.

HIL, Trujillo, 6500 kcs is heard between 6 and 8 p.m. HI2D, "La Voz Catolica," Trujillo, is heard on 6900 kcs. HI3C in La Romana is reported on 6730 kcs. in the early evening.

Federated Malay States

The Globe Circulers DX Club states that ZGE in Kuala Lumpur is heard on 6130 kcs. on Sundays, Tuesday and Fridays from 6:40 to 8:40 a.m. Est.

Fiji Islands

VPD2 continues to transmit daily except Sundays from 5:30 to 7 a.m. on 9540 kcs. This station is owned by Amalgamated Wireless, (A/sia), Ltd.

Hong Kong

R. P. Morris, Secretary of the Hong Kong Broadcasting Committee, P. O. Box 200, gives the fre-

quency of station ZBW as 9525 kcs. Other frequencies assigned to this station are 6090, 15190, and 15755 kcs. The choice of frequencies is made according to conditions prevailing. Programs are transmitted from 11:30 p.m. to 1 a.m.; 4 to 10 a.m., on weekdays, and on Saturdays from 9 p.m. to 1 a.m. Sunday. Sundays they can be heard between 3 and 9:30 a.m.

ZBW, it is understood, no longer verifies reports, but Stanley La Rue, 309 So. Bedford Drive, Beverly Hills, Calif., has arranged to monitor their transmissions and will verify reports for a small fee. Those interested are asked to get in touch with Mr. La Rue.

Hungary

The schedule of HAT4 is now 7 to 8 p.m. Sundays and Wednesdays, and 6 to 7 p.m. on Saturdays. HAT4, Budapest, uses the 9125 kcs. frequency.

Japan

Transmissions to the eastern part of the United States from the Japanese shortwave stations now commence at 4:30 p.m. EST., while the broadcast for the west coast starts at 12:30 a.m. The transmitters have also been changed. Eastern USA programs are radiated over JZK on 15160 kcs. and JZJ on 11800 kcs., while JZK is used for the west coast programs.

JVT, 6750 kcs., has been reported at 6 a.m. JVM, 10740 kcs., transmits the European programs 2:30 to 3:30 p.m. JVH on 14640 is heard between 4 and 5 pm.

Kenya

VQG, Nairobi, on 19620, 'phones GAD London every day from 7 to 8 a.m. EST.

Martinique

The schedule of the Martinique station, "Radio Fort de France," is 11 to 12 a.m. and 5:15 to 6:15 p.m., EST. daily. 9450 kcs. is the frequency.

Mexico

.XETM, Villahermosa, Tabasco, is heard on 11525 but announces as 11730, and XEWB, Guadalajara, Jal., is heard on 11370 while announcing as 11710.

XEYU, National University of Mexico, claims to be on 9600 kcs. but it is actually a little higher in frequency. It works from 7 to 10 p.m. nightly.

Overdue verifications are now coming in from XEPW. Their correct address is Carpio 137 altos, Mexico City. They broadcast on 6110 kcs. during the late evening hours and relay the programs of XEJW.

XEXA, Mexico City, works on 11880 daily except Sundays from 8 to 11:30 a.m., 3 to 5 p.m. and 6 to 11 p.m. EST.

The operators of stations XED and XEDQ Guadalajara, have been making tests and corrections in an attempt to stabilize the frequency of their s.w. station. XEDQ has been frequently reported on 9510 but the correct freq. is 9520. This station, which commenced broadcasting on Jan. 1st of this year, transmits on 1160 kcs. (XED) with 10 kw. and on 9520 kcs. (XEDQ) with 500 watts.

Netherlands East Indies

Some of the shortwave broadcasting stations of the *NIROM* operate on frequencies which are not suitable for reception in North America. A list of these stations is given here for reference, however, and dialers who are interested should preserve this list as it will not be repeated.

YDA2, Batavia-Centrum, 2385 kcs., 150 w.

YDA3, Buitenzorg, 1640 kcs., 25 w.

YDA4, Soekaboemi, 1550 kcs. 25 w.

YDA5, Bandoeng, 2500 kcs. 75 w.

YDA6, Cheribon, 2870 kcs., 15 w.

YDA7, Pekalongan, 3270 kcs., 15 w.

YDB2, Semarang, 2450 kcs., 150 w.

YDB3, Djokja, 1660 kcs., 100 w.

YDB4, Tjepoe, 1615 kcs., 25 w.

YDB5, Solo, 1595 kcs., 25 w.

YDB6, Malang, 1570 kcs., 100 w.

YDB7, Sourabaya, 111, 1530 kcs., 75 w.

*YDD2, Bandoeng, 1630 kcs., 25 w.

*YDD3, Batavia-Centrum, 1585 kcs., 50 w.

*YDE3, Semarang, 2710 kcs., 15 w.

*YDE4, Sourabaya, 2415 kcs., 75 w.

*YDE5, Djokja, 2350 kcs., 25 w.

*Broadcast native music (Javanese).

The balance of the *NIROM* stations are shown in our index.

The Javan station on 4.810 megs. is YDL2, owned and operated by Solosche Radio Vereeniging, Soerakarta, Solo. When the *Nirom* native programs are radiated the call YDE2 is used.

YDG3 on 4865, YDP3 on 4895 and YDA on 3040 kcs. are being heard consistently in New Zealand, and it is felt that, when cooler weather comes, they should be heard on this continent. These stations generally play American recordings.

A very strong Javan station has been heard near 9415 kcs. relaying PLP regularly.

New Zealand

The Prime Minister of New Zealand, Mr. M. J. Savage, has suggested the erection of a shortwave broadcasting station there to transmit programs in several languages for the purpose of advertising the products and attractions of that Dominion.

Plans for this station, which will be of high power, are nearing completion, and it is expected the station will be on the air within the next twelve months.

Panama

HP5I, "La Voz del Interior," Aguadulce, Panama, transmits on 11895 daily from 7:30 to 9:30 p.m. EST.

HP5L is heard daily from 1 to 1:30 am EST broadcasting recordings and announcing in Spanish, and commencing at 1:30 it contacts Latin amateur stations. HP5L transmits on 11710 kcs.

A new Panamanian is HP5A, 11700 kcs., Panama City, transmitting between 8 and 10:30 pm, EST.

Papua

A. C. Tarr of Seattle is the first to report reception of VK8XI at Port Moresby, Papua, on 6990 kcs.

Peru

The correct call sign of "Radio Nacional" at Lima is OAX4T, according to information from Peru.

One new Peruvian is chronicled this month, OAX4M, "Radio Record," on about 29 meters with 155 watts on an irregular schedule. This station relays the programs of OAX4Q, 1470 kcs., 150 watts. The owners are Cortes & Cia., Huacho, Peru.

The frequency of OAX4J, Lima, has been shifted to 9330 kcs. from 9520. With a power of 200 watts, this station relays OAX4I, "La Voz de Lima." The postal address is Apartado 1166.

OAX4J is on the air from noon to 3 p.m. and from 5 p.m. to 1 a.m. daily.

OAX4H is owned by Radio Davila, Filipinas 554. OAX4C and OAX4D are owned by Difusora Universal, S. A. (Radio DUSA).

Portugal

The studio address of CT1AA has been changed to Av. Antonio Augusto d'Aguiar 136. Their verification card states they work on Tuesday, Thursday and Saturday from 4 to 7 p.m. EST. on 9650 kcs. The power is 2 kilowatts. The three cuckoo calls easily identify the station, as well as the slogan, "Radio Colonial."

Southern Rhodesia

ZEC in Salisbury operates on 5800 kcs. Sunday from 3 to 5 a.m., and on Tuesdays and Fridays from

1:15 to 3:15 p.m. EST.

Siam

HS8PJ is operating on 9350 kcs. exclusively now. The schedule is Mondays and Thursday from 8 to 10 a.m. EST. Reports are to be addressed to the Post and Telegraph Dept., Bangkok.

Spain

A number of stations have been logged which have no call letters, and in some cases even their locations are not known. We are listing them under "Spain" because their broadcasts consist of propaganda about that country, although it is believed that some of the stations are in Italy or France.

"Radio Requete" has been heard working east coast USA amateurs between the hours of 6 p.m. and midnight. This station is heard on the low-frequency end of the 20-meter band.

Another station has been heard on 7250 kcs., announcing also as "Radio Requete," and giving its location as San Sebastian, Spain.

The "Italian Communistic Station," giving a Paris address, was located and destroyed by French authorities, but another has popped up to take its place. It works on 10620 kcs. at various hours during the day, but gives no call letters nor location.

"Radio Libertad," believed to be in Milan, Italy, another Communistic station, has been heard on 7380, 7400, and 9520 kcs.

The frequency of EAR (formerly EAQ2) was announced over the air as 9510 kcs., and the power as 20 kw. The slogan "The Voice of Madrid" was heard, and the address was given as Box 951. This is the old EAQ with only new call letters and new frequency.

Spanish Morocco

"Radio Guardia Civil" is now working on 6508 kcs. from 7 to 8 p.m. EST.

Switzerland

The Secretariat of the League of Nations transmits League programs on stations HBP and HBL, 7797 and 9595 kcs. respectively, on Saturday afternoons from 5:30 to 6:30 p.m. Mr. Michael Barkway requests that reports on these programs be addressed to him, Office of the Secretary-General, League of Nations, Geneva.

Programs arranged by the government of Switzerland for Swiss residents abroad are transmitted on Saturdays from 6:45 to 8 p.m. EST. on station HBJ, 14535 kcs., and HBO, 11402 kcs.

HB9BG, operating on 7294 kcs., broadcasts musical selections with announcements in German, English, French and Italian every Friday from 4 to 5 p.m.

USSR

The September schedule of the Moscow stations is given in our s.w. index. Three frequencies will be in use during September, RNE on 12000 kcs., RAN on 9595 and RKI on 15040 kcs. Reports on these broadcasts are to be sent to Radio Centre, Solianka 12, Moscow.

United States

Regular daily program service, especially designed for listeners of Europe and the British Isles, is now maintained by the CBS new high power international shortwave broadcast transmitter.

The new station, with a peak power of 40 kw., employs directional antennas pointing towards Europe, and the schedules enable European audiences to hear programs during their afternoon and evening hours. The schedule follows:

- 6120 kcs., for South and Central America, not used at present.
- 11830 kcs., for South America, 7 p.m. to midnight, EST. daily.
- 15270 kcs., for Europe, 1 to 4 p.m.



Airing the family's troubles is the business of Sedley Brown and Allie Lowe Miles, conductors of the NBC forum, Husbands and Wives. In their programs they question men and women on problems ranging from whether in-laws should live with young married people, to how to keep a husband from gambling away the family purse.

- EST. Sunday only.
- for Europe, 3 to 6 p.m. EST., daily exc. Sunday
- for South America, 5 to 6 p.m. EST., Sunday only.
- 17760 kcs., for Europe, not used at present.
- 21520 kcs., for Europe, 7:30 to 10 a.m. EST., daily except Sunday.
- for Europe, 8 to 10 a.m. EST., Sunday only.

The General Electric Co. short-wave station W2AXF at Schenectady, N. Y. was granted a Construction Permit to increase power to 100 kw., and to erect an aerial array directional towards South America and Europe.

WNYF of the New York Fire Dept. is now on the air on 1630 kcs., and serves as a two-way telephone communication between nine fireboats and fire department headquarters.

Ultra high frequency station W1XDT, owned by the City of Manchester, N. H. Police Dept., works on frequencies of 30100, 33100 and 40100 kcs., unlimited time. The transmitter is located at 351 Chestnut St. Two way communication is maintained with six police cars. This UHF station has been heard in England, on the west coast, and commonly in central USA.

Venezuela

Sr. Jose A. Higuera M., owner of "Radio Popular," Maracaibo, advises us that his shortwave rig YV1RL works on 5930 kcs. and relays the entertainment of YV1RK on 1250 kcs. The power and schedule is not given, but the address is Apartado 247.

YV5RJ works on 6250 in the late evening hours with announcements in English. The sked is approximately 7 to 10 p.m.

Choosing a Set

(Continued from Page 7)

and selectivity. A twelfth tube for automatic volume control would be an added feature. And yet such a set would hardly please the ears of a music lover, since little attention was paid to the audio stages.

Another twelve-tube set could have three or four tubes in the a.f. stages, a cathode ray "Magic Eye," a pair of rectifiers, perhaps a ballast tube, and be a fine job for the quality of its reproduction. Yet, because it had but two i.f. stages and no r.f. at all, it would have little to recommend it the DXer who wanted sensitivity and selectivity.

Only recently attention was called to a ten-tube set which sells for twenty dollars. If one considered the number of tubes, this should be a fine performer and a real bargain. However, inspection showed that there were two rectifier tubes and three ballast tubes, so the purchaser

could expect only "six-tube performance."

Therefore, the customer should investigate the functions of the tubes in the models which he is considering. If he wants real quality of reproduction, he should be sure that the audio stages have received proper attention. If he wants sensitivity and selectivity, he should see that the set has sufficient r.f. and i.f. stages. If he wants all three qualities, the receiver needs additional tubes.

What's In A Name?

As one final consideration, Mr. Average Listener should pay attention to the name and reputation of the manufacturer. As a general rule, it is well to stick close to familiar advertised models.

The smaller, unknown companies seldom are able to turn out sets which are as well designed and engineered as those marketed by the familiar organizations. Their production facilities probably aren't as good, while their help is less experienced. Testing and tuning-up before shipment is less exact, less careful.

Parts and receivers may look pretty much alike, but standard products usually work better and last longer. Frequently inexpert construction leads to danger of electrical shock and even fire hazard. Replacement parts for unknown brands are always difficult to find, while service charges are higher when circuit diagrams cannot be obtained.

There is a definite "pride of ownership" in a fine receiver with a famous name on the dial. This becomes more important when the time comes for a trade-in and the standard product receives an allowance greater than could be made for an unknown brand.

Prospective purchasers may be

able to use some of these points to advantage and select a better receiver. For those who like to be guided still further, it is planned to publish from time to time performance reports on prominent models.

A DX Competition

The Globe Radio DXer's Association of Australia has begun a series of competitions for both the short-wave and broadcast band DXers of United States and Canada. The contest is for the reception of Australian stations only.

The winning trophy is an inscribed silver map of Australia mounted on Australian polished timber, and a special trophy will be awarded to each section for the most outstanding single verification.

Membership in this organization is \$1.00 for Life Membership. Further particulars can be obtained from Leo Herz, 730 Roscoe St., Chicago, Ill., Wm. Ansell, 168 Wascana St., Regina, Sask., Canada, or from the Secretary, Arthur H. Preece, 61 Lipson St., Pt. Adelaide, S. A. Australia.

News Programs for South America

Inauguration of two new series of Press Radio News broadcasts to South America over station W3XAL, Bound Brook, N. J., was announced by the National Broadcasting Co. Both series are heard daily except Sundays.

One of the programs, directed especially to Brazil, is broadcast from 6:15 to 6:30 EST. Press Radio News reports are given in Portuguese by Pinto Tameirao, a Brazilian who was recently added to the NBC staff.

The other broadcast is heard in Spanish from 6:00 to 6:15 pm. EST, announced by Martin Viale of Argentina.

GOSSIPING about the Stars

• • • By "Betty"



Versatile is the word for Elinor Harriot. She's that small crowd of women characters that is invading the Amos 'n' Andy program. The voices of Mrs. Amos Jones, Arbadella and Mrs. Kingfish are in her repertoire on this famous program.

FERDE GROFE started his musical career by playing the piano at the age of five. At 16 he composed a march, and before he was 20 he was viola player in the Los Angeles Symphony Orchestra. In San Francisco he met Paul Whiteman, then almost unknown. Became Whiteman's pianist and arranger in 1919, continuing with him until 1933. His arrangement of Gershwin's "Rhapsody in Blue" contributed to the fame of Grofe, Whiteman and Gershwin.

ROBERT L. RIPLEY turned to drawing cartoons after a broken arm spoiled his chance to develop a career as a pitcher in big league



Bob Hope, Cleveland boy who made good, has introduced several "Honeychiles" to radio, only to have them taken away from him by the screen or the stage. He is taking no chances with his latest "Honeychile", but has signed her for a long-term contract. The daughter of a South Carolina newspaper editor, "Honeychile" was active in college dramatics and has done modeling in New York.

baseball. He did, however, pitch his first major league game for the New York Giants.

EDDIE CANTOR made his debut as the star of his own radio show in 1931, following a guest appearance with Rudy Vallee which established him as a microphone favorite. He introduced a new informality which endeared him to the listening audience. He was the first comedian to kid the sponsors, was the first to give the orchestra leader lines to speak, and was the first to give the announcer an active part in the show.

Many prominent entertainers owe their present radio eminence to Eddie Cantor's knack for spotting talent. Through his encouragement and guidance RUBINOFF became, instead of just another orchestra

leader, a definite ether personality. JIMMY WALLINGTON traces his top ranking radio position to his first meeting with Cantor in 1931. In rapid succession Gracie Allen, Parkyakarkus, Bobby Breen, Danna Durbin and more recently, Saymore Saymore made their big-time radio debuts on his Sunday night broadcasts.

Who's Who on "Watch the Fun Go By"

AL PEARCE: A big, friendly Westerner, and a jovial entertainer who has used his experience as a farmer, roofing and diamond salesman and musician as a background for the human down-to-earth type of entertainment he presents. Eight years ago he entered radio because the depression wiped out his real estate earnings. His start was modest, but sponsors took notice soon. Born in San Jose, Calif., July 25, 1908. Married. Likes to fish and hunt.

ARLENE HARRIS: The "Human Chatterbox" started her rapid fire monologues at home to amuse husband and friends. It was a diversion to the doctor-husband after a hard day at the hospital. Later she tried an audition at a Los Angeles radio station in 1932, and clicked. Guest appearance with the "Gang" led to a permanent engagement. Prior to that she had worked in vaudeville and stock. Born in Canada and educated in Canada and England. Fond of rummy, poker and bridge.

BILL COMSTOCK: "Tizzie Lish," radio's female impersonator and purveyor of impossible recipes, began his entertainment career as a drummer in vaudeville pits. Later he built comedy acts around his high-pitched voice, and the fame of "Tizzie" soon spread. Born and educated at Syracuse, N. Y., where he attended the University. He is just past forty.

NICK LUCAS: The "Singing Troubador" is a comparative recent addition to the "Gang," but was a successful radio veteran in his own right. First went on the air from Chicago in 1922. Later on, a recording company scout heard him and he was soon known all over the country. Engagements in London's Cafe de Paris and Kit Kat Club soon were followed by Broadway musical comedy roles and prominent parts in such elaborate motion picture productions as the original "Gold Diggers of Broadway." Born in Newark, N. J., August 22, 1897.

BILL WRIGHT: The "Eb" of the "Eb and Zeb" acts, has been with Al Pearce on and off for seven years. Al plays the part of Zeb.

IF

IF Robert Ripley can find time to visit about 40 more countries, he will have been in every country known to the world, since he already has visited 178.

IF Gracie Allen hadn't gone to Union Hill, N. J., to watch a girl friend try out a new act, she might never have met the front half of the song and dance act headlining there, known as "George Burns and Billy Lorraine."

IF Morton Downey, who had tried about 20 different jobs and liked none, hadn't been coaxed by a friend to sing in Brooklyn at an Elk's banquet, he says it never would have occurred to him to sing for a living—he thought singing was "just for fun."

IF business had not been too slow, as he says, Arthur Godfrey, radio announcer and commentator, might still be in Chicago selling cemetery lots.

Once Upon a Time

PHIL SPITALNY, aged ten, tried teaching piano lessons to two other boys with whom he had grown up

in Odessa, Russia. He was studying with a grown-up teacher—and he kept just one lesson ahead of his own pupils.

AL JOLSON introduced the song which became the first outstanding hit-song of George Gershwin—"Swanee."

EDDIE CANTOR acted as foil for the Great Arthur & Bedini, whose juggling act was then a nation-wide sensation in the vaudeville circuits.

MORTON DOWNEY once sent an unkempt stage-hand as his "personal manager" to fool a backstage caller. The visitor stormed out, taking with him a bona-fide offer to sing at a banquet, with a fee of \$1200.

The Vass Family has been signed to appear with Ben Bernie for a period of thirteen weeks. The sponsor was well pleased with their trial appearance on this show and the contract was their award.

Amos 'n' Andy have signed with Campbell Soup to do their broadcast for three years, commencing Monday, Jan. 3, 1938. There will be no change in the story, the hours or the stations, except some Canadian stations will be added to the chain.

For people who want to talk on the Husbands and Wives program and don't want friend wife or husband to guess their identity, Sedley Brown has collaborated with radio engineers on a "Voice disguiser." It has already been used several times with success—nobody recognized the voice. And now Brown keeps it in reserve for use whenever an embarrassing question like "How can a husband cure a nagging wife?" comes up. The disguiser introduces several filters into the microphone circuit which take certain tones out of the voice and alter its quality completely.

DX Club

(Continued from Page 26)

in a week a chap in France will be pouring over it with the aid of a dictionary. Within a month a fellow in New Zealand will be sitting down in the summer evening to enjoy it.

But not many will realize that there is, and must be, such a place as the basement of 345 Maple Ave., and such men as Stansfield and the Hoppenstedts. Not many will realize that somewhere, in some room devoted to DX, someone devoted to DX has lost his sleep and a little more of his hair, for their sake. Someone has to run a club.

Along about dawn the light in the basement will go out, and the four men will trudge off to bed, or to work. There'll be a smudge of mimeograph ink on a shirt in front of the furnace.

Yes, that's what a DX club is.

Radio Problems

(Continued from Page 31)

horizontal or doublet antenna. The single conductor is erected vertically with its leadin taken off the bottom. The length of the lead plus that of the antenna gives the total effective length of antenna that can be used. The top should be at least 30 feet or more above the earth. It picks up signals equally as well from all directions, and when used as a radiator it transmits to all directions of the compass with uniform intensity.

The New Tubes

Please tell me something about the tubes having Octal bases. It seems that some are glass, some metal, and others I do not quite understand how they are constructed.

The octal base means that the base is fitted with eight contacts. Two of these contacts are for the heater or filament wires, one for the cathode, one for the plate, one for the shell to be grounded, and the balance for the various grid or plate connections within the tubes. These sockets will take any of the newer metal or corresponding glass tubes.

The metal tubes have a sealed metal shell. While the tube has many good features there are some who believe that they still are experimental since metal is slightly porous and is apt to permit air to be slowly admitted through it and the welded seams, and fill the vacuum within. Then there are glass tubes that are interchangeable with the metal tubes, and these are generally designated "G" after the type number. And some of these glass tubes are similar to the older glass tubes. We find that type 6K7G, for instance, is a type 78 tube fitted with the octal base. Or a 6A8G is merely a type 6A7 with octal base. In some cases a metal shield or glove can be slipped down over the glass tube and it becomes similar to an all-metal tube, such as the 6K7 or the 6A8, respectively. The metal-glass tubes, with these metallic gloves, are designated with the same type number as the metal tubes, except the letters MG are added to the type number. There are some cases where glass tubes, metal tubes, and metal-glass tubes, are all similar, and similar to the same type of old glass tube. This is noticed in the old type 75, for instance. Its interchangeable or corresponding tubes in the octal bases are: 6F5G (glass), 6F5MG (metal-glass), and 6F5 (metal). The type 42 has equivalents in types 6F6G, 6F6MG, and 6F6. Type 80 rectifier is similar to types 5Y3 (glass) and 5Z4MG (metal-glass), but there is no metal equivalent.

Scrapbook

(Continued from Page 23)

On all foreign reception, planned tuning brings the best results. If, for example, the DXer gets up early some cool November morning and decided for a try at the TP's, he should study a station list and pick out a few of the more powerful stations. He will then dial the frequency of one of them and stick around awhile. If a signal is heard immediately, he is very lucky. Usually, the station will be in the middle of a fade-out, so he will have to wait for the signal to pick up strength. Thus, if he had tuned away when at first he had heard no signal, he would have missed the station entirely.

If he is able to log the first station attempted, he can go on to another powerful transmitter and follow the same procedure. If it should develop that the larger stations are coming in at all well, he can refer to the log and try a few of the less powerful broadcasters. But in every case, the wise DXer will try for a *definite station on a definite frequency*. And he will stay on that frequency several minutes to allow for a possible period of fading.

Dialing European and South American stations in the early evening requires the same general procedure, only this type of tuning must allow for fading on the part of the interfering station as well as the one which is being sought. Reports in RADEX and in the various club bulletins tell which of these stations are being heard in various parts of the country, so the DXer will know where to try. And again the important idea is to try for specific stations on definite frequencies.

DX Notes

(Continued from Page 15)

many different conditions in one house and in a few minutes of time, might it not be possible to have DXers in different locations, using different equipment, actually hear what they report?"

It is admitted that Readers Foerster and Oxrieder have struck a vital point in the matter of varying reports. It is impossible to deny that receivers, aerials and locations play an important part in the manner in which any station is received. It is granted that the five listeners in question probably reported KVI exactly as they heard it.

But even when conceding that the KVI incident may have been unduly stressed, it is impossible to overlook the fact that many DXers are notoriously poor reporters. There are too many letters of protest from stations to ignore the fundamental necessity of submitting a clear and accurate report of reception. Whether the listener is careless, ignorant or is attempting to wheedle a veri by means of undeserved compliments, he should remember that the station deserves and expects an honest report.

And in passing, one cannot overlook the very nature of the arguments put forth. If different receivers, aerials and locations can make so much difference in the way a given station is received, that may be the reason why some listeners have outstanding DX records and others complain about poor reception conditions, sunspots and the like.

WMBS on 1420 kcs., Uniontown, Pa., has completed its tests and will soon be on the air, we are informed by Erick R. Johnson, Perth Amboy, N. J. This new station will verify all correct reports if a three cent stamp is enclosed, otherwise no verification can be expected.

WHAT'S ON THE AIR TONIGHT

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

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

Time: ED Eastern Daylight; E Eastern; C Central; M Mountain.

For Pacific Time subtract one hour from Mountain.

Due to change to Daylight Saving Time on April 25, some of the stations will be unable to carry particular features.

MONDAY

ED-6:35 p.m., E-5:35, C-4:35, M-3:35
C — Baseball Resume

KFH KGKO KLRA KMBC KNOW
 KOMA KRLL KRNT KSCJ KTRH
 K TSA KTUL WAUC WACO WADC
 WAIM WALA WBBM WBIG WBNS
 WBRC WBT WCAU WCHS WCOA
 WCOG WDAE WDBJ WDBO WDNC
 WDOE WDRC WEEI WFAM WFBM
 WFEA WGBI WGH WGST WHIO
 WHP WIBX WJAS WJNO WJRW
 WJSV WKBB WKBH WKBW WKRC
 WLAC WMAS WMAZ WMBD
 WMBR WMMN WNAX WNOX
 WORC WORC WPAR WPRO WQAM
 WREC WRVA WSFA WSJS

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

CRCT KDKA WRAL WBZ WBZA
 WFLA WIOD WJAX WJZ WLW
 WMAL WOOD WRVA WSYR WTAM
 WNYZ

ED-7:00 p.m., E-6:00, C-5:00, M-4:00
C — Poetic Melodies: Jack Fulton
 WABC WADC WBT WCAO WCAU
 WDRC WEAN WEEI WFBI WGR
 WHBC WHK WJAS WJR WJSV
 WKRC WOKO WSPD WTOG WVVV

R — Amos 'n' Andy
 KYW WBBN WCAE WCHS WFAE
 WEEI WFBR WGY WJAR WLW
 WRC WTAG WTIC

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
R — Uncle Ezra's Radio Station
 KARK KFYR KGBX KGNC KPRC
 KSTP KTBS KTHS KVOO KYW
 WRAP WBBN WCAE WCKY WCOL
 WCHS WDAE WDAY WFAE WFCB
 WFAA WFBR WGRF WGY WHO
 WIBA WIRE WJAR WKY WMAQ
 WNAC WQAI WOOD WOV WRC
 WTAG WTAM WTIC WTMJ

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
B — Lum and Abner
 WBZ WBZA WENR WJZ WLW
 WMC WSM WSYR

ED-7:45 p.m., E-6:45, C-5:45, M-4:45
C — Beako Carter
 KMBC KMOX KOMA KRLL WABC
 WBBM WBT WCAU WCCO WDRC
 WEAN WFLB WGR WHAS WHK
 WJAS WJR WJSV WKRC WNAC

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

C — Horace Heidt and Orchestra
 KDB KERN KFAB KFBK KFH
 KFPY KFRC KGB KHJ KLRA KLZ
 KMBC KMJ KMOX KOIN KOL
 KRLL KRNT KSL KTRH K TSA
 KTUL KVI KWG WABC WBBM
 WBRC WBT WCAO WCAU WCCO
 WDRC WFBL WFBM WGR WGST
 WHAS WHK WJAS WJR WJSV
 WKRC WLAC WMBR WNAC WNAX
 WOKO WREC WWL

R — Burns and Allen
 CRCT KYW WBBN WCAE WCSC
 WCHS WFAE WFBR WFLA WGY
 WHO WIOD WIRE WIS WJAR
 WJAX WLW WMAQ WNAC WPTF
 WRC WRVA WSOE WTAG WTAM
 WTAR WTIC WWJ

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

C — Pick and Pat
 KFAB KMBC WABC WADC WBBM
 WBT WCAO WCAU WDRC WEAN
 WFBL WGR WGST WHEC WHK
 WHP WICC WJAS WJR WJSV
 WKRC WLBB WMAS WNAC WOKO
 WORC WSPD

R — Voice of Firestone
 CFCE CRCT KFYR KPRC KSD
 KSTP KTBS KVOO KYW WAVE
 WBBN WCAE WCSC WCHS WDAF
 WDAY WFAE WFCB WEEI WFAA
 WFCB WFBR WFLA WGY WHO
 WIBA WIOD WIRE WIS WJAR
 WJAX WJDX WKY WMAQ WMC
 WQAI WOV WPTF WRC WRVA
 WSB WSM WSMB WSOE WTAG
 WTAM WTAR WTIC WTMJ WWJ
 WWNC

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

R — Fibber McGee and Molly
 KFYR KPRC KSD KSTP KTBS
 KVOO KYW WAVE WBBN WCAE
 WCOL WCHS WDAF WDAY WFAE
 WFCB WFAA WFBR WFLA WGY
 WHO WIBA WIOD WIRE WIS
 WJAR WJAX WJDX WLW WMAQ
 WMC WNAC WQAI WOOD WOV
 WPTF WRC WSB WSM WSMB
 WSOE WSUN WTAG WTAM WTAR
 WTIC WTMJ WWJ WWNC

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

R — Phil Spitalny's Girl Orchestra
 CFCE CRCT KDYL KFI KGIL

KGIR KGO KGW KHQ KOA KOMO
 KPRC KSD KSTP KVOO KYW
 WAVE WBBN WCAE WCHS WDAF
 WFAE WFAA WFBR WFLA WGY
 WHO WIBA WIOD WIRE WIS
 WJAR WJAX WKY WLW WMAQ
 WMC WNAC WQAI WOV WPTF
 WRC WRVA WSB WSM WSMB
 WTAG WTAM WTAR WTIC WTMJ
 WWJ

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

R — Contented Program
 CFCE CRCT KDYL KFI KGW KHQ
 KOA KOMO KPO KPRC KSD KYW
 WBBN WCAE WCHS WDAF WFAE
 WEEI WFBR WFLA WGY WHO
 WIOD WIS WJAR WJAX WKY
 WMAQ WMC WQAI WOV WPTF
 WRC WRVA WSB WSM WTAG
 WTAM WTAR WTIC WWJ WWNC

C — Wayne King and Orchestra

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

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

R — Burns and Allen
 KARK KDYL KFBK KFI KFYR
 KFBX KHGL KGIR KGNC KGO
 KGW KHQ KMJ KOA KOMO KPO
 KPRC KSD KSTP KTAR KTBS
 KVOO KWG WAVE WDAF WDAY
 WFCB WFAA WIBA WJDX WKY
 WMC WQAI WOV WWSB WSMB
 WTMJ

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

C — Poetic Melodies: Jack Fulton
 KERN KFAB KFBK KFPY KFRC
 KGB KHJ KLRA KLZ KMBC KMOX
 KOIN KOL KOMA KRLL KRNT
 KSL KTRH K TSA KVI WBBM
 WBRC WCCO WFBM WGST WLAC
 WREC WWL

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO
 KPO KPRC KSD WBAF WDAF
 WHO WKY WLW WMC WQAI WOV
 WSB WSM WSMB WTAM WWJ

MONDAY (Continued)

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C — Boake Carter
KFY KLZ KNX KOIN KOL KSFO
KSL KVI

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Pick and Pat
KFY KKKO KLRA KLZ KMOX
KNX KOIN KOL KOMA KRLL
KRNT KSCJ KSFO KSL KTRH
KVI KWKH WACO WBRG WCCO
WFBM WHAS WLAC WREB

TUESDAY

ED-6:35 p.m., E-5:35, C-4:35, M-3:35
C — Baseball Resume, See Monday

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

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

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

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

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Mark Warnow Orchestra
CFRB KFAB KFH KFPY KGVO
KLRA KLZ KMBC KMOX KNOW
KNX KOIN KOL KOMA KRLL
KRNT KSCJ KSFO KSL KTRH
KTSa KTUL KVI WABC WADC
WBMM WBNS WBRG WBT WCAO
WCAU WDAE WDBJ WDNC WDRG
WEEI WFIL WFBM WGR WGST
WHAS WHEC WHK WIBX WJAS
WJR WJSV WKRC WLBB WNAZ
WOKO WORC WPRO WQAM WREB
WVWL

R — Johnny with Russ Morgan
KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBAP
WBEN WCAE WCHS WDAF WDAY
WEAF WEBC WFBF WFLA WGY
WHO WJBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOV WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTC
WTMJ WTVJ WUNC

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

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
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 WJBA WIRE WJAR
WJDX WKY WMAQ WMC WOA
WOW WRC WSB WSM WSMB
WTAG WTAM WTC 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

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

CFRB CKAC KFAB KFH KGKO
KLRA KMBC KMOX KOMA KRLL
KRNT KSCJ KTRH KTSa KTUL
KWKH WABC WACO WADC WALA
WBMM WBIG WBNS WBRG WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOD WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBN WKWB WKRC
WLAC WLBB WMAZ WMBD WMBG
WMBR WMN WNAZ WNAZ
WNBZ 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 WFBF
WGY WHO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTC
WWJ

B — Ben Bernie and Orchestra
KDKA KDYL KFI KFSD KFYR
KGR KIQ KKO KOIL KOMO KPO
KPRC KSO KSTP KTAR KTBS
KVOO KWK WAVE WHAL WBAP
WBZ WBZA WDAY WEBC WFIL
WFLA WGAR WHAM WJBA WIOD
WIS WJAX WJDX WJZ WKY WLS
WLW WMAL WMC WMT WOA
WPTF WREN WRVA WSB WSM
WSMB WSOC WSYR WTAR WTMJ
WUNC WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Benny Goodman Orchestra
KFAB KFH KFPY KGKO KLRA
KLZ KMBC KMOX KNX KOIN KOL
KOMA KRLL KRNT KSCJ KSFO
KSL KTRH KTSa KTUL KVI KVR
KWKH WABC WACO WADC WALA
WBMM WBIG WBNS WBRG WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOD WDRG WEEI
WFBL WFBM WGST WHAS WHEC
WHIO WHK WHP WIBW WIBX
WISN WJAS WJR WJSV WKBN
WKBR WKRC WLAC WLBB WMAZ
WMBD WMBG WMBR WNAZ
WSBF WNOX WOC WOKO WORC
WOWO WPG WPRO WQAM WREC
WSBT WSFA WSJS WTOC WWL

R — Packard Program
CRCT KDYL KFI KFYR KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTHS KVOO KYW
WAVE WBAP WBEN WCAE WCKY
WCHS WDAF WDAY WEAF WEBC
WCHS WDAF WDAY WFBF WFLA
WGY WHO WJBA WIRE WJAR
WJAX WJDX WJZ WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSM WSMB WSOC WTAG WTAM
WTAR WTC WTMJ WWJ WUNC

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

ED-10:45 p.m., E-9:45, C-8:45, M-7:45
R — Vic and Sade
KDYL KFI KGW KHQ KOA KOMO
KPO KSD KSTP KYW WCAE WCHS

WDAF WEAF WFBF WGY WHO
WIRE WLW WMAQ WNAZ WOV
WRC WTAG WTAM WTC WWJ

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

WEDNESDAY

ED-6:35 p.m., E-5:35, C-4:35, M-3:35
C — Baseball Resume, See Monday

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

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

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

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

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

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Cavalcade of America
KDB KERN KFAB KFBK KFPY
KPRC KGH KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KRNT
KSL KVI KWG WABC WBBM
WBNS WCAU WCCO WDRG WEAN
WFBL WFBM WGR WHAS WHEC
WHK WJAS WJR WJSV WKRC
WLAC WMBG WNAZ WOKO WTOC
WWL

R — One Man's Family
KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KTBS KTHS KVOO KYW
WAVE WBAP WBEN WCAE
WCHS WDAF WDAY WEAF WEBC
WEEI WFAA WFBF WFLA WGY
WHO WJBA WIOD WLW WMAQ
WJAX WJDX WKY WLV WPTF
WRC WRVA WSB WSM WSMB
WSUN WTAG WTAM WTAR WTC
WTMJ WWJ WUNC

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C — Ken Murray; Shirley Ross

CFRB CKAC KFAB KFH KLRA
KMBC KMOX KOMA KRLL KRNT
KSCJ KTRH KTSa KTUL KWKH
WABC WADC WBMM WBNS WBRG
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRG WEEI WFBL
WFBM WGR WGST WHAS WHEC
WHIO WHK WHP WIBW WIBX
WJAS WJR WJSV WKRC WLAC
WLBB WMAZ WMBD WMBG
WMBR WNAZ WNOX WOKO WORC
WOWO WPG WPRO WQAM WREC
WVWL

R — Wayne King, See Tuesday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Kotelanetz

KDB KERN KFAB KFBK KFH
KFPY KPRC KGH KGKO KGMB
KHJ KLKA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSa
KTUL KVI KVR KVG KWKH
WABC WACO WADC WALA WBMM
WBG WBNS WBRG WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRG WEAN

Wednesday (Continued)

WFBL WFPM WFEA WGST WHAS
WHCC WHK WHF WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBW WKRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WNAC WNAX WNRW WNOX WOC
WOKO WORC WOWO WPG WQAM
WREC WWSA WSJS WSPD WTCC
WVL

R — Town Hall Tonight

KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBEN
WCAE WCSH WDAF WDAY WFAF
WIBC WEEL WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC WSB
WSM WSMB WSOX WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

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

C — Jessica Dragonette

KDB KERN KFAB KFBK KFH
KFFY KPRC KGB KGMB KHJ
KLRA KLZ KMBC KMJ KMOX
KOKN KOL KOMA KRLD KRNT
KSL KTRH KTSa KTUL KVI KWG
KWKH WABC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFPM WGST WHAS WHCC WHK
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WOHC WOWO
WQAM WREC WTCC WVL

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

C — Crime Crusade: Phil Lord

KDB KERN KFAB KFBK KFH
KFFY KPRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOKN KOL
KOM A KRLD KRNT KSL KTRH
KTSa KTUL KVI KWG KWKH
WABC WACO WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFPM WGST WHAS WHCC WHK
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WOHC WOWO
WQAM WREC WTCC WVL

R — Your Hit Parade

KDYL KEX KFI KFYR KOHL
KGR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR KTBS
KTHS KVOO KYW WAVE WCAE
WCSH WCSH WDAF WDAY WFAF
WIBC WFAA WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOAI WOW WPTF
WRC WRVA WSB WSM WSMB
WSOC WSN WSYR WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

C — Boake Carter, See Monday

THURSDAY

ED-5:35 p.m., E-5:35, C-4:35, M-3:35

C — Baseball Resume, See Monday

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

B — Lum and Abner, See Monday

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

R — Rudy Vallee's Variety Hour

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBEN WCAE
WCSH WDAF WDAY WFAF WIBC
WEEL WFBR WGY WHO WJAR
WLW WMAQ WOW WRC WTAM
WTIC WTMJ WWJ

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

M — Guy Lombardo Orchestra

CKLW KDB KDON KPFL KPRC
KFXM KGB KGDM KHJ KPMC
KSO KVQOE KWK KXO WAHY WBAL
WFIL WGAR WKBW WMT WOL
WOR WSAI WSYR WWSW
Also on Canadian Network

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

C — Major Bowes' Amateurs

CFRB CKAC KDB KERN KFAB
KFBK KFH KFFY KPRC KGB
KGKO KLRA KLZ KMBC KMJ
KMOX KOKN KOL KOMA KRLD
KRNT KRCJ KSL KTRH KTSa
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOE WDRC WEAN
WFBL WFPM WFEA WGST WHAS
WHCC WHK WHF WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBW WKRC WKRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WMMN WNAC WNAX WOC WOKO
WORC WOWO WPG WQAM WREC
WFAA WSJS WSPD WTCC WVL

R — Maxwell House Show Boat

KDYL KFI KFSD KFYR KGH
KGR KWK KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KYW WAPI WAVE WDAY WBEN
WCAE WCSH WDAF WDAY WFAF
WIBC WEEL WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSM WSMB
WSOC WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

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

C — Your True Adventures

KFAB KFH KFFY KLRA KLZ
KMBC KMOX KNX KOKN KOL
KOM A KRLD KRNT KSFO KSL
KTRH KTSa KTUL KVI KWKH
WABC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDRC WEEL WFBL WFPM
WGST WHAS WHCC WHIO WHK
WISN WJAS WJR WJSV WKBW
WKRC WLAC WLBZ WMBG WMBR

WOKO WORC WPRO WQAM WREC
WTCC WVL

R — Bob Burns

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVOO KYW WAVE WDAY WBEN
WCAE WCSH WDAF WDAY WFAF
WIBC WEEL 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

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

C — March of Time

KFAB KFFY KLZ KMBC KMOX
KNX KOKN KOL KOMA KRNT
KSFO KSL KVI WABC WBBM
WBNS WCAO WCAU WCCO WDRC
WEEL WFBL WFPM WGST WHAS
WHCC WHK WJAS WJR WJSV
WKBW WKRC WOKO WPRO WVL

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

FRIDAY

ED-6:35 p.m., E-5:35, C-4:35, M-3:35

C — Baseball Resume, See Monday

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

R — Uncle Ezra, See Monday

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

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

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

C — Hammerstein Music Hall

KDB KERN KFAB KFBK KFFY
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KOKN KOL KOMA KRNT
KSL KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDRC WEAN WFBL WFPM
WFBR WGST WHAS WHK WJAS
WJR WJSV WKRC WMA WMBG
WNAC WOKO WVL

R — Cities Service Concert

CRCT CFYR KOA KPRC KSD
KSTP KTBS KTHS KVOO KYW
WAP WDAY WFAE WIBC WDAF
WDAY WFAE WIBC WDAY WFAE
WFBR WGY WHO WIBA WIOD
WJAR WKY WMAQ WOAI WOW
WRC WRVA WSAI WTAG WTAM
WTIC WTMJ WWJ

B — Irene Rich; Drama

KDKA KDYL KFI KGW KHQ KOOL

FRIDAY (Continued)

KOMO KPO KSO KTAR KWK WAVE
WBAL WHZ WBZA WCKY WFIL
WGAR WHAM WIRE WJZ WLS
WMAL WMC WMT WREN WSB
WSM WSYR WXYZ

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

C — Hal Kemp

KFAB KFH KGKO KLRA KMBC
KMOX KOMA KRLL KRNT KSCJ
KTRH KTSa KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDDO WDRC WEEI WFBL
WFBM WFEA WGR WGST WHAS
WHFC WHIO WHK WHP WJWB
WIBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLZ WMAS
WMBD WMBG WMBR WMNN
WNAK WNEF WNOX WOC WOKO
WORC WOWO WPG WPRO WQAM
WREC WSFA WSJS WSPD WTOC
WVWL

B — Death Valley Days

KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KSO KWK WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

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

C — Hollywood Hotel

CFRB CKAC KDB KERN KFAB
KFBB KFH KFY KFRG KGB
KIJH KLRA KLZ KMBC KMOX KMOX
KOLN KOL KOMA KRLL KRNT
KSCJ KSL KTRH KTSa KTUL KVI
KYOR KVG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDRC WEAN WFBL WFBM
WFEA WGST WHAS WHFC WHK
WHP WJWB WJWB WJWB WJWB
WJSV WKBW WKRC WLAC WLZ
WMAS WMBD WMBG WMBR
WNAK WNAK WNOX WOKO WORC
WPG WQAM WREC WSPD WVL

R — Frank Munn: Bernice Claire

KSD KYW WBN WCAE WCHS
WDAF WDAF WEEI WFBW WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WWJ

B — "Believe It or Not" Ripley

KANS KDKA KFYR KGNC KLO
KOLK KPC KSO KVOD KWK WAPI
WAYE WBAL WBAW WBZ WBZA
WDAY WEAN WECB WEEB WFAA
WFBC WFIL WGAR WHAM WIBA
WICC WJZ WKY WLS WLW WMAL
WMC WMT WOA WOOD WPTF
WREN WRD WSB WSM WSMB
WSOC WSPD WSYR WTAR WTCN
WTMJ WXYZ

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

R — True Story Court

KSD KYW WBN WCAE WCHS
WEAF WEEI WFBW WGY WHO
WHIO WJAR WMAQ WOW WRC
WTAG WTAM WVIC WWJ

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

C — Ferde Grofe Orchestra

KLRA KLZ KMBC KMOX KOL

KRLD KRNT KSL KTRH KTUL
KVI WABC WBBM WCAU WDBJ
WDOD WEEI WFBL WFBM WGST
WHAS WHEC WHIO WHK WISN
WJAS WJR WKBW WKRC WMBD
WMBR WNEF WOKO WPRO WSBT
WTOC WWL

R — First Nighter; Drama

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTSB KTHS KYW WAVE WBN
WCAE WCHS WDAF WDAY WEAF
WECB WEEI WFAA WFBW WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WVIC WTMJ WWJ WVNC

B — Morton Bowe

KDKA KECA KFSD KGA KGO
KJR KLO KOIL KSO KWK WABY
WBAL WBZ WBA WCKY WCOL
WEAN WEBR WENR WFIL WFLA
WGAR WHAM WICC WIOD WIS
WJAX WJZ WMAL WMT WOOD
WPTF WREN WRVA WSOC WSUN
WSYR WTAR WWNC WXYZ

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

R — Jimmy Fidler

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KSTP KYW WBN
WCAE WCHS WDAF WDEL WEAF
WFBW WGY WIBA WIRE WJAR
WLW WMAQ WNAK WOW WRC
WTAG WTAM WVIC WTMJ WWJ

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

R — Amos 'n' Andy, See Monday

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

C — Boake Carter, See Monday

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

C — Hal Kemp

KFBB KFYR KGMB KGVO KLZ
KNX KOH KOIN KOL KSFO KSL
KVI KYOR

SATURDAY

ED-6:35 p.m., E-5:35, C-4:35, M-3:35

C — Baseball Resume, See Monday

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

C — Saturday Swing Club

KFBB KFH KFYR KGKO KGVO
KLZ KNOW KOH KOL KOMA KRLL
KSCJ KSFO KSL KTRH KTSa KVI
KYOR KWKH WABC WACO WADC
WBIG WBNS WBT WCAO WCAU
WCCO WDAE WDBO WDRC WEEI
WFBL WGR WHEC WHK WHP
WIBW WIBX WISN WJAS WLZ
WMAS WMBD WMBG WNEF WOC
WOKO WORC WPRO WSJS WYVA

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

C — Phil Duesy; 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 WNEF WOC
WOKO WPRO WSBT WYVA

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

C — Prof. Quiz

KDB KEIN KFAB KFBK KFPY
KFRG 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 WDRC WEAN WFBL WFBM
WJAS WJR WJSV WKBW WKRC
WMBR WOKO WQAM WREC WSPD
WVWL

B — National Barn Dance

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

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

C — Your Hit Parade

KERN KFAB KFBB KFH KFYR
KFRG KGB KGKO KGMB KHJ
KLRA KLZ KMBC KMOX KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSa
KTUL KVI KYOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGT WHTS
WHEC WHK WHP WJWB WIBX
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLZ WMAS
WMBD WMBG WMBR WNAK
WNAK WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSFA
WSJS WSPD WTOC WVL WYVA

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

CBC — The Northern Messenger

CFAC CFCH CFCC CFJC CFPL
CFQC CFWK CJAT CJCA CJXC
CJKL CJOC CJRM CJRO CJRX
CKBI CKCK CKGB CKOC CKOV
CKPR CKCO CKTB CKX CKY
CRCK CHCM CRCT CRCS CRCT
CRCV CRCW CRXC

B — National Barn Dance

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

SUNDAY

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

C — Major Bowes' "Family"

CFRB KEIN KFAB KFBB KFBK
KFH KFYR KFRG KGB KGVO
KMBC KOH KOL KRLL KSL KTRH
KTSa KVI KYOR KWG KWKH
WABC WACO WADC WALA WBNS
WBRC WCAO WCCO WDAE WDBJ
WDBO WDNC WEGO WFBL WFEA
WHAS WHK WIBX WJAS WJR
WKRC WLZ WMBD WMBR
WMNN WOC WOKO WORC WPG
WQAM WSBT WSJS WSPD WTOC

SUNDAY (Continued)

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

C — Salt Lake Tabernacle Choir
CFRB KFAB KFBB KFBB KFHF KFH
KFFY KFRC KGB KIZ KOH KOL
KRLD KSL KTRH KTSK KVI KVOR
KWG WABC WACO WADC WALA
WBIG WBNS WBRC WCAO WCCO
WDAE WDBJ WDBO WESG WFBL
WFEA WGR WHAS WICG WJAS
WJR WKRC WLBC WMBR WMMN
WOC WOKO WORC WQAM WSBT
WSJS WTOC WTCC

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

C — Church of the Air
KFBB KFH KFFY KFRC KGB
KHJ KMOX KOH KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSK KVI
KVOR KWG WABC WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDRC WESG WFBL WFBM
WGR WHAS WHF WIBX WJAS
WJSV WKBN WKRC WLAC WLBZ
WMBR WNBW WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD WTOC WVVVA

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

B — Magic Key of RCA
CFCF CRCT KDKA KDYL KFI
KFYR KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP KTBS
KTHS KVoo KWK WAPI WAVE
WBAL WBZ WBZA WCKY WDAY
WIBC WENR WFAA WFIL WFLA
WGAH WHAM WHIO WIFB WIOD
WIRE WIS WJAX WJDX WJZ WKY
WMAL WMC WMOI WOAJ WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WUNC
WXYZ

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

R — Thatcher Colt Mystery
KDYL KFI KGW KHQ KOA KOMO
KPO KSD KSTP KYW WBBN
WBOW WCAE WCSH WDAF WFAF
WGR WGBF WGY WHO WIRE
WJAR WMAQ WNAC WORK WOW
WRC WSAI WTAG WTAM WTIC
WWJ

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

C — Everybody's Music
CFRB CKAK KFAB KFBB KFH
KGKO KGVO KLRA KLZ KMBC
KMOX KNOW KOL KRLD KSCJ
KSL KTRH KTSK KWKH WABC
WADC WALA WBNS WBT WCAO
WCCO WCHS WDAE WDBJ WDBO
WDRC WLEI WESG WFBL WFBM
WHAS WHK WHP WIBW WIBX
WJAS WJR WJSV WKBB WKBN
WKBB WKRC WLAC WLBZ WMAS
WMBD WMBG WMBR WMMN
WNBW WOC WOKO WORC WPAR
WPRO WQAM WSBT WSJS WTAQ
WTOC WWL

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

C — Guy Lombardo and Orchestra
KFH KMBC KMOX KOMA KTUL
WAAB WABC WBNS WCAO WCAU

WDRC WEAN WFBL WFBM WGR
WHAS WHEC WHK WIBX WICC
WJR WJSV WMAS WOKO WORC
WSPD WVVVA

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

M — Ray Knight; Arnold Johnson
CKLW KHJ KWK WAAB WBAL
WFIL WGAR WGN WLW WOR

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

R — A Tale of Today
WBEN WFAF WGR WJAR WMAQ
WOW WRC WTAM

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

C — Columbia Workshop
KFAB KFBB KFH KFFY KGKO
KGVO KNOW KOH KOIN KOL
KOMA KRLD KRNT KSCJ KSPD
KTRH KTSK KTUL KVI KVOR
KWKH WABC WACO WADC WALA
WBNS WBNS WBRC WBT WCAO
WCCO WCOA WDAE WDBO WDNC
WFBL WFBM WGR WGST WHEC
WHIO WHK WHF WIBX WISN
WJAS WJNO WKRC WLBZ WMAS
WMBG WMMN WNOX WOKO
WORC WPG WREC WSBT WSJS
WSPD WTOC

R — Jello Program
KSD KYA KYW WBEN WCAE
WCHS WDAF WFAF WFBW WGY
WHO WJAR WLW WMAQ WNAC
WOW WRC WTAG WTAM WTIC
WWJ

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

C — Oscar Bradley Orchestra
KLRA KLZ KRLD KTRH KTSK
KTUL KWKH WABC WACO WADC
WALA WBIG WBNS WBRC WBT
WCAO WCAU WCOA WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGR WGST
WHAS WHEC WHK WHP WIBX
WICC WJAS WJR WJSV WKBN
WKRC WLAC WLBZ WMAS WMBR
WNAC WNOX WOKO WORC WQAM
WREC WSBT WSAF WSJS WSMK
WSPD WTOC WWL WVVVA

R — Fireside Recitals
KSD KYW WBEN WCAE WCHS
WDAF WFAF WFBW WGY WIRE
WJAR WMAQ WOW WRC WSAI
WTAG WTAM WTIC WWJ

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

R — Sunset Dreams; Morin Sisters
CFCF CRCT KSD KYW WBEN
WCAE WCHS WDAF WFAF WFBW
WGY WHO WIRE WJAR WLW
WMAQ WOAJ WOOD WOW WRC
WTAG WTAM WTIC WWJ

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

C — Gillette Program
KFAB KFH KFFY KLRA KLZ
KMBC KMOX KNX KOIN KOL
KOMA KRLD KRNT KSCJ KSPD
KSL KTRH KTSK KTUL KVI
KWKH WABC WACO WADC WALA
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDRC
WFEI WFBL WFBM WGR WGST
WHAS WHEC WHIO WHK WHP
WIBX WJAS WJR WJSV WKBN
WKRC WLAC WLBZ WMAS WMBG

WMBR WNAX WNBW WNOX WOKO
WORC WPRO WQAM WREC WSBT
WWL WVVVA

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 WCHS
WDAF WDAY WFAF WIBC WFAA
WFBW WFLA WGY WHO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WNAC WOAJ WOW WPTF WRC
WRVA WSB WSM WSMB WSOB
WSUN WTAG WTAM WTAR WTIC
WTMJ WWJ WUNC

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

C — Texaco Program
KFAB KFH KGKO KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH KTSK KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDDO WDRC WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHK WHP WIBW WJAS
WICC WISN WJAS WJR WJSV
WKBN WKRC WLAC WLBZ WMAS
WMBD WMBR WMMN WNAX
WNOX WOC WOKO WORC WQAM
WREC WSBT WSAF WSJS WSMK
WSPD WTOC WWL WVVVA

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

B — Frank Parker; Shep Fields
KDKA KECA KFSD KGA KGHL
KGIR KGO KJR KLO KOIL KSO
KTAR KWK WBAL WBZ WBZA
WIBC WEBR WENR WFIL WGAR
WHAM WICC WJZ WLW WMAL
WMT WREN WSYR WXYZ

R — Manhattan Merry-Go-Round
CFCF KDYL KFI KFYR KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTHS KYW WAVE
WBEN WCAE WCKY WCHS WDAF
WDAY WFAF WIBC WEI WFAA
WFBW WFLA WGY WHO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAJ
WOW WPTF WRC WRVA WSB
WSM WSMB WSOB WTAG WTAM
WTAR WTIC WTMJ WWJ WUNC

C — Ford Universal Rhythm
CFRB CKAK KDB KERN KFAB
KFBB KFH KFFY KFRC KGB
KGKO KHJ KLRA KLZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSK KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBNS WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNC WDDO WDRC
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBN WKRC WLAC
WLBZ WMAS WMBD WMBR WNAC
WNAX WOC WOKO WORC WQAM
WREC WSBT WSAF WSJS WSPD
WTOC WWL WVVVA

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

R — Album of Familiar Music
CFCF CRCT KDYL KFI KFYR

SUNDAY (Continued)

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

B — Walter Winchell

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

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

R — James Melton

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

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

R — Sunset Dreams; Morin Sisters

KDYL KFI KFSD KGW KHQ KOA

KOMO KPO KPRC KTAR KTBS
KTBS WBAP WDAF WKY

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

B — Walter Winchell

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

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

B — Frank Parker; Shep Fields

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

International SHORTWAVE Tests

THE Columbia Broadcasting System, through its new high-power international shortwave transmitter W2XE at Wayne, N. J., is collaborating with the British Broadcasting Corp. in a series of important shortwave tests which will serve as a basis for recommendations to the 1938 meeting of the International Consulting Committee on Radio at Cairo, Egypt. At this meeting, the governments of the world will draft new standards for international telecommunication.

The effectiveness of directional antennas in preventing interference between two or more countries employing the same frequency is one of the most important points on which the tests are expected to throw light. The other principal purpose of the tests is to determine the necessary frequency separation which should exist between shortwave broadcasting stations in various transmission bands. During the tests the signals transmitted by W2XE and the BBC Empire stations at Daventry will be simultaneously observed in Argentina. Signals are transmitted first on identical frequencies, then on different fre-

quencies in close proximity. The tests are conducted on frequencies of 21520, 15270 and 11830 kcs.

The technical committee of the International Broadcasting Union, under whose auspices the tests are conducted, decided on the new experimental program after consideration of a report by the engineering delegate representing the British Broadcasting Corp. For the past two years, at Columbia's request, the BBC's receiving station at Tatsfield, Surrey, has observed W2XE's signals and sent in weekly reports on them.

The ultimate purpose of these tests is to reduce overcrowding in the shortwave bands. The trans-Atlantic tests may make possible a more efficient usage of the limited number of wavelengths utilized.

Italian radio listeners breathed a long sigh of relief on July 1st, date on which the Italian Broadcasting System banned all advertising from its programs. Henceforth, the lover of operas and symphonies in Italy will no longer face the nerve-racking strain of being brought suddenly face to face with toothpaste or tomatoes at the end of an act of La Traviata or Aida.

"I do my DXing for my own amusement and am quite satisfied simply to hear the stations, so do not verify. I use a seven-tube RCA with a double-doublet aerial and one hundred feet of twisted pair for lead-in," preambles Edward Burton, 106 W. Broad St., Tampa, Fla. "My reception of stations in Europe, South America and Australia has been very good. I listen to the fifteen minute news broadcasts in English from I2RO in Rome at 6 pm EST six times a week.

VK3ME in Melbourne is nicely received near 7 am, and sometimes I can hear VK2ME and VK6ME but they are generally weak.

"During electrical storms I detach the aerial from the radio and drop this wire out the window to the ground, and connect the radio to the bedsprings with a piece of insulated wire. Believe it or not, my reception on this hook-up is sometimes superior to the more conventional aerial. Australia has been heard many times on my bed-spring aerial."

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Daylight

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

CONCERTS

Everybody's Music, 3 p.m. Sun., C
 Frank Black, 2 p.m. Sun., B
 Rosario Bourdon, 8 p.m. Fri., R
 G. M. "Prom" Concert, 8 p.m. Sun., B
 Radio City Music Hall, 12:30 p.m. Sun., B
 Don Voorhees, 8 p.m. Wed., C

DANCE BANDS

Ben Bernie, 9 p.m. Tues., B
 Bunny Berigan, 8 p.m. Sat., C
 Oscar Bradley, 7:30 p.m. Sun., C
 Rex Chandler, 9 p.m. Sun., C
 Jimmie Dorsey, 10 p.m. Thurs., R
 Tommy Dorsey, 10 p.m. Fri., B
 Shep Fields, 9 and 11:30 p.m. Sun., B
 Lud Gluskin, 8:30 Wed., C
 Al Goodman, 9 and 11:15 p.m. Thurs., R
 Benny Goodman, 9:30 p.m. Tues., C
 Johnny Green, 9:30 p.m. Tues., R
 Phil Harris, 7 and 11:30 p.m. Sun., R
 Horace Heidt, 8 p.m. Mon., C
 Arnold Johnson, 6 p.m. Sun., M
 Hal Kemp, 8:30 and 11:30 p.m. Fri., C
 Wayne King, 8:30 p.m. Tues. and Wed., R; 10 p.m. Mon., C

Andre Kostelanetz, 9 p.m. Wed., C
 Guy Lombardo, 5:30 p.m. Sun., C; 8:30 Thurs., M
 Abe Lyman, 8:30 p.m. Mon., B; 9 p.m. Fri., R; 10 p.m. Wed., R
 Russ Morgan, 8:30 and 11:30 p.m. Sat., C; 8 p.m. Tues., R
 Ray Noble, 8 p.m. Mon., R
 Raymond Paige, 9 p.m. Fri., C
 Jacques Renard, 8:30 and 11 p.m. Sun., C
 Andy Sanelia, 9 p.m. Sun., R
 Phil Spitalny, 9:30 Mon., R
 Rudy Vallee, 8 p.m. Thurs., R
 Peter Van Steeden, 9 p.m. Wed., R
 Don Voorhees, 5:30 p.m. Sun., B

DIALOG

Amos 'n' Andy, 7 and 11 p.m. daily, except Sat. and Sun., R
 Bob Burns, 10 p.m. Thurs., R
 Burns and Allen, 8 p.m. Mon., R
 Easy Aces, 7 p.m. Tues., Wed., Thurs., B
 Ray Knight, 6 p.m. Sun., M
 Beatrice Lillie, 8 p.m. Wed., B

Lum and Abner, 7:30 p.m. daily except Sat. and Sun., B
 Ken Murray, 8:30 Wed., C
 Pick and Pat, 8:30 and 11:30 p.m. Mon., C
 Uncle Ezra's Radio Station, 7:15 p.m. Mon., Wed., Fri., R

DRAMA

Columbia Workshop, 7 p.m. Sun., C
 Death Valley Days, 8:30 p.m. Fri., B
 First Nighter, 10 p.m. Fri., R
 Gang Busters, 10 p.m. Wed., C
 Hollywood Hotel, 9 p.m. Fri., C
 It Can Be Done, 8:30 Tues., B
 Phillips Lord, 10 p.m. Wed., C
 One Man's Family, 8 p.m. Wed., R
 Irene Rich, 8 p.m. Fri., B
 Tale of Today, 6:30 p.m. Sun., R

POPULAR PROGRAMS

Album of Familiar Music, 9:30 p.m. Sun., R
 Major Bowes, 11:30 a.m. Sun. and 9 p.m. Thurs., C
 Broadway Merry-Go-Round, 8 p.m. Wed., B
 Cavalcade of America, 8 p.m. Wed., C
 Chesterfield Program, 9 p.m. Wed., C
 Cities Service Concert, 8 p.m. Fri., R
 Contented Program, 10 p.m. Mon., R
 Fireside Recitals, 7:30 p.m. Sun., R
 Fleischmann Variety Hour, 8 p.m. Thurs., R
 Hit Parade, 10 p.m. Wed., R; 10 p.m. Sat., C
 Hollywood Hotel, 9 p.m. Fri., C
 Husbands and Wives, 8 p.m. Tues., B
 Magic Key of RCA, 2 p.m. Sun., B
 Manhattan Merry-Go-Round, 9 p.m. Sun., R
 March of Time, 10:30 p.m. Thurs., C
 Maxwell House Show Boat, 9 p.m. Thurs., R
 National Barn Dance, 9 and 11:30 p.m. Sat., B
 Packard Hour, 9:30 p.m. Tues., R
 Palmolive Hour, 9:30 p.m. Wed., C
 Paramount on Parade, 12 noon Sun., R
 Al Pearce and His Gang, 9 p.m. Tues., C
 Professor Quiz, 9 p.m. Sat., C
 Studebaker Champions, 10 p.m. Mon., B
 True Adventures, 10 p.m. Thurs., C
 Voice of Firestone, 8:30 p.m. Mon., R
 Vox Pop, 9 p.m. Tues., R
 Waltz Time, 9 p.m. Fri., R
 Watch The Fun Go By, 9 p.m. Tues., C

SINGERS

Kenny Baker, 7 and 11:30 p.m. Sun., R
 Richard Bonelli, 7:30 and 10:45 p.m. Sat., C

Morton Bowe, 10 p.m. Fri., B
 Bobby Breen, 8:30 and 11 p.m. Sun., C
 Rachel Caralay, 9 p.m. Sun., R
 Jessica Dragonette, 8 p.m. Fri., R; 9:30 p.m. Wed., C
 Phil Ducey, 8 and 11:30 p.m. Tues., R; 8:30 Sat., C
 Mary Eastman, 9:30 p.m. Sat., C
 Nelson Eddy, 8 p.m. Sun., R
 Jack Fulton, 7 and 11 p.m. Mon. thru Thurs., C
 Helen Jepson, 9 and 11:15 p.m. Thurs., R
 Jones and Hare, 10 p.m. Sun., C
 Frances Langford, 9 p.m. Fri., C
 Shirley Lloyd, 7:30 p.m. Sun., B
 Lullaby Lady, 10 p.m. Mon., R
 Elizabeth Lennox, 8 p.m. Fri., C
 Nick Lucas, 9 p.m. Tues., C
 Lucille Manners, 8 p.m. Fri., R
 Helen Marshall, 7:30 p.m., Sun., R
 Lucy Monroe, 9:30 p.m. Sun., R
 Morin Sisters, 7:45 and 11 p.m. Sun., R
 Frank Munn, 9:30 p.m. Sun. and 9 p.m. Fri., R; 8:30 p.m. Mon., B

Dorothy Page, 10:30 p.m. Sat., R
 Frank Parker, 9 and 11:30 p.m. Sun., B
 Jan Pearce, 6:30 p.m. Sun., C
 Carmella Ponselle, 8 p.m. Fri., C
 Virginia Rea, 6:30 p.m. Sun., C
 Lanny Ross, 9 p.m. Thurs., R
 Shirley Ross, 8:30 p.m. Wed., C
 Margaret Speaks, 8:30 and 11:30 p.m. Mon., R
 Gladys Swarthout, 10 p.m. Sun., R
 Conrad Thibault, 9:30 p.m. Tues., R
 Kay Thompson, 8:30 and 11:30 p.m. Fri., C
 Trudy Woods, 9:30 p.m. Tues., R

TALKS
 Boake Carter, 7:45 and 11:15 Mon., Wed., Fri., C
 Jimmy Fidler, 10:30 p.m. Tues., R
 Floyd Gibbons, 10 p.m. Thurs., C
 Eddie Guest, 8:30 p.m. Tues., B
 Bob Ripley, 7:30 p.m. Sun., B
 Sidewalk Interviews, 9 p.m. Tues., R
 Lowell Thomas, 6:45 p.m. Mon. thru Fri., B
 Walter Winchell, 9:30 and 11:15 p.m. Sun., B

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.

Time Conversion Table on Page 62

1.715 to 2.000	Amateur Stations.	6.005	CFCX	Montreal, P. Q. (.075).	0700-2400.
2.500	XEXP	Monterrey, N. L. (.03).	HP5K	Colon, Panama.	1800-2300.
3.500 to 4.000	Amateur Stations.		VE9DN	Montreal, P. Q. (6.).	
3.040	YDA	Tandjong Priok, Java, N.E.I. (10.).	6.010	COCO	Havana, Cuba. (.3). Sun. 2000-2200.
4.273	RV15	Khabarovsk, USSR (Siberia). (20.).		OLR2A	Weekdays 1030-1300; 1600-2000.
		0100-1000.			Prague, Czechoslovakia. (35.).
4.600	HC2ET	Guayaquil, Ecuador. Wed., Sat.,			Mon., Wed., Fri., 1600-1630.
		2100-2230.	6.012	HJ3ABH	Bogota, Colombia. (1.2). 1800-2300.
4.795	VE9BK	Vancouver, B. C. (.25).	6.015	HI3U	Santiago de los Caballeros, D. R.
4.810	YDE2	Solo, Java, N.E.I. (1.).			(.025). Mon. 2000-2100. Daily 0730-
5.415	PMY	Bandoeng, Java, N.E.I. (.45). 0530-			0930; 1200-1430; 1700-1930.
		1000.	6.020	DJC	Berlin, Germany. (8.). 1135-1630.
5.500	TI5HH	San Ramon, Costa Rica. (.2). 2000-		XEUW	Veracruz, Ver. (.02). 1800-2400.
		2330.	6.025	HJ1ABJ	Santa Marta, Colombia. (.05).
5.710	TG5	Guatemala City, Guat. (.2). Wed.,			1800-2230.
		Thurs., Sat., 1800-2100.	6.030	HJ4BP	Medellin, Colombia. (2.5). 1800-
		San Cristobal, Venez. 1800-2330.			2300.
5.720	YV2RA	Khabarovsk, USSR (Siberia). (20.).		HP5B	Panama City, Panama. (.1). 1700-
	RV15	0100-1000.			2200.
5.725	HC1PM	Quito, Ecuador. Sat., 2100-2300.		OLR2B	Prague, Czecho. (35.).
5.758	YNOP	Managua, Nicaragua. 2000-2130.		VE9BJ	St. John, N. B. (.05).
5.780	OAX4D	Lima, Peru. (3.5). Mon., Wed.,		XEBQ	Mazatlan, Sin. (.05).
		Sat., 2100-2330.	6.035	CXA2	Montevideo, Uruguay. (.5).
5.800	YV5RC	Caracas, Venez. (1.). Sun., 0830-	6.040	PRA8	Pernambuco, Brazil. (3.). 1500-
		2330. Weekdays 0700-2130.			2000.
5.820	TIGPH	San Jose, Costa Rica. 1100-1300;		W1XAL	Boston, Mass. (10.). Mon., 1800-
		1500-2200.			2000.
5.850	YV1RB	Maracaibo, Venez. Sun., 1145-1245.		W4XB	Miami, Fla. (5.).
		Weekdays 0845-0945; 1115-1215;		YDA	Tandjong Priok, Java, N.E.I. (10.).
		1645-2145.	6.042	HJ1ABG	Barranquilla, Colombia. (.15).
5.855	HI1J	San Pedro de Macoris, D. R. (.04).			1100-2300.
		1200-1400; 1830-2100.	6.050	GSA	Daventry, Gt. Britain. (20.).
5.875	HRN	Tequigalpa, Honduras. (.4). Sun.,	6.060	HJ3ABD	Bogota, Colombia. (.05). 1930-2400.
		2030-2130. Weekdays 2030-2200.		Q71 O	Nairobi, Kenya. 1100-2430.
5.880	YV3RB	Barquisimeto, Venez. 1800-2200.		W3XAU	Philadelphia, Pa. (10.). 1900-2200.
5.885	H19B	Santiago, D. R. 1800-2300.		W8XAL	Cincinnati, Ohio. (10.). 0500-1900;
5.905	TI1S	San Jose, Costa Rica. 1800-2300.			2300-0100.
5.930	HH2S	Port-au-Prince, Haiti. 1900-2200.	6.062	SBG	Motala, Sweden. (.5). 1330-1700.
	YV4RH	Valencia, Venez. 1700-0100.	6.070	CFRX	Toronto, Ont. (1.). 1000-2300.
5.925	PJC1	Willemstad, Curacao, N.W.I. (.15).		HJ3ABF	Bogota, Colombia. (.05). 1900-2230.
		1835-2035.	6.070	YV1RD	Maracaibo, Venez. 1900-2400.
5.930	YV1RL	Maracaibo, Venez. (.3). 1700-2230.	6.075	Y3MR	Georgetown, Brt. Guiana. 1700-
5.940	TG2X	Guatemala City, Guat. (.2). Sun.,			2100.
		1300-1400; Mon., Thurs., Sat., 1600-		XEBW	Guadalajara, Jal. (.045).
		1800; 2200-2400.		DJM	Berlin, Germany. (8.).
5.970	HJ4ABD	Medellin, Colombia. 2000-2230.	6.080	HP5F	Colon, Panama.
5.980	HJ2ABD	Bucaramanga, Colombia. (.67).		OAX4Z	Lima, Peru. (.15). 1930-2230.
		1900-2300.		VE3CS	Vancouver, B. C. (.01). 1400-2400.
6.000	OAX5C	Ica, Peru. (.1).		W9XAA	Chicago, Ill. (20.). 1800-2400.
	XEBT	Mexico City, D. F. (1.). 1800-2400.			

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

6.085	HJ5ABD	Call, Colombia. 1900-2200.			
6.090	CRXC	Toronto, Ont. (1.). 1100-1900.			
	HJ4ABC	Ibague, Colombia. 2000-2200.			
	XECU	Guadalajara, Jal.			
	ZBW	Hong Kong. (2.5). Sat. 2100-2400. Sun. 0000-0100; 0300-0930. Other days 0400-1000; 2330-0100.			
6.097	HJ4ABE	Medellin, Colombia. (1.). 1800-2230.			
6.100	W3XAL	Bound Brook, N. J. (35.). 1900-2200.			
	W9XF	Chicago, Ill. (10.). 2200-0100.			
	.....	Belgrade, Jugoslavia. (1.). 1200-1700.			
6.108	HJ4ABB	Manizales, Colombia. 1800-2400.			
6.110	GSL	London, Gt. Britain. (20.).			
6.115	HJ1ABB	Barranquilla, Colombia. (.3).			
	OLR2C	Prague, Czecho. (35.).			
6.118	XEUZ	Mexico City, D. F. (5.). 2300-0300.			
6.120	W2XE	New York, N. Y. (10.).			
	XEFT	Veracruz, Ver. (.012).			
	XEPW	Mexico City, D. F. 2100-2400.			
	YDA5	Bandoeng, Java, N.E.I. (1.5).			
6.122	HJ3ABX	Boqota, Colombia. 1730-2230.			
	OAX4P	Huancayo, Peru. (.25).			
	OAX6A	Arequipa, Peru. (1.).			
6.125	CXA4	Montevideo, Uruguay. (1.). 1600-2145.			
6.128	OAX7A	Cuzco, Peru. (1.).			
6.130	COCD	Havana, Cuba. (.35). 1700-0100.			
	VE9HX	Halifax, N. S. (.5). 1700-2300.			
6.137	CR7AA	Lourenco Marques, Port. East Africa. Sun. 0600-0900. Weekdays 0500-0700.			
6.138	HJ4ABD	Medellin, Colombia.			
6.140	W8XK	Pittsburgh, Pa. (40.). 2000-2400.			
6.145	HJ4ABU	Pereira, Colombia. 1800-2200.			
6.150	CB615	Santiago, Chile.			
	CJRO	Winnipeg, Man. (2.). 1800-2400.			
	H15N	Ciudad Moca, D. R. (1.). 1900-2000.			
	OAX1A	Chiclayo, Peru. (.2). 2000-2300.			
	VPB	Colombo, Ceylon. (.3). 0700-1030.			
6.158	YV5RD	Caracas, Venez. 1030-1330; 1530-2200.			
6.174	XEXA	Mexico City, D. F. 1700-2100.			
6.190	H11A	Santiago de los Caballeros, D. R. (.05). Weekdays 2000-2200.			
6.200	COKG	Santiago, Cuba. (.05). Daily exc. Sat. 0900-2300.			
	H18Q	Trujillo, D. R. 1700-1900.			
6.210	YV1RI	Coro, Venez. (.15). 1700-2200.			
6.215	TG2	Guatemala City, Guat.			
6.230	OAX4G	Lima, Peru. (.4). 1900-2130.			
	YV1RG	Valera, Venez. 1730-1930.			
6.235	HC2RL	Guayaquil, Ecuador.			
	HRD	La Ceiba, Honduras. (.25). 2000-2300.			
6.243	H1N	Trujillo, D. R. (.75).			
6.250	YV5RI	Caracas, Venez.			
6.270	YV5RP	Caracas, Venez. (1.2).			
6.280	COHB	Sancti-Spiritus, Cuba. (.15). 2100-2300.			
	H1G	Trujillo, D. R. (.05).			
6.300	YV4RD	Maracaib, Venez. 1700-2300.			
6.315	H1Z	Trujillo, D. R. (1.).			
6.340	H11X	Trujillo, D. R. (.5). Tues., Fri., 2000-2200.			
	HRP1	San Pedro Sula, Honduras.			
6.360	YV1RH	Maracaibo, Venez. 1900-2400.			
6.380	YV5RF	Caracas, Venezuela.			
6.400	YV5RH	Caracas, Venezuela.			
6.410	T1PG	San Jose, Costa Rica. (1.). 1800-2230.			
6.416	YV6RC	Bolivar, Venez.			
6.420	H11S	Santiago, D. R. (.02). 1800-2300.			
6.425	OAX4K	Lima, Peru. (.2).			
	W3XL	Bound Brook, N. J. (100.). Irreg.			
6.450	H14V	San Francisco de Macoris, D. R. (.025).			
6.479	H18A	Trujillo, D. R.			
6.500	H1L	Trujillo, D. R. (.05).			
6.508	Radio	Guardia Civil, Tetuan, Sp. Morocco. 1900-2000.			
6.520	YV4RB	Valencia, Venezuela. 1700-2200.			
6.534	EDR4	Palma, Majorca, Balearic Isl.			
6.540	YN1GG	Managua, Nicaragua.			
6.545	YV6RB	Bolivar, Venez. 2100-2300.			
6.555	H14D	Trujillo, D. R. (.025). 1700-2000.			
6.620	Prado	Riobamba, Ecuador. Thur. 2100-2300.			
6.630	H1T	Trujillo, D. R. (.2). Weekdays, 1800-2100.			
6.690	T1EP	San Jose, Costa Rica. 1600-2300.			
6.700	T1VL	San Jose, Costa Rica.			
6.730	H13C	La Romana, D. R. 1745-2000.			
6.750	JVT	Nazaki, Japan. (50.).			
6.775	H1H	San Pedro de Macoris, D. R. (.15). 1900-2000.			
6.800	H17P	Trujillo, D. R. 1930-2100.			
6.820	XGOX	Nanking, China. (.5). 0530-0900.			
6.850	T1OW	Puerto Limon, Costa Rica. (.4). Sun., 1600-1700. Daily 1200-1300.			
6.990	VK8XI	Port Moresby, Papua.			
7.000	to 7.300	Amateur stations.			
7.034	EA9AH	Tetuan, Sp. Morocco. 1500-1700.			
7.100	F08AA	Papeete, Tahiti. (.2). Tues., Fri., 2300-2400.			
7.200	YNAM	Managua, Nicaragua. 2000-2400.			
7.380	XECR	Mexico City, D. F. (20.). Sun., 1800-2000.			
.....		Radio Liberte. 1900-2000.			
7.797	HBP	Geneva, Switz. (20.). Sat., 1730-1830.			
8.400	HC2CW	Guayaquil, Ecuador.			
8.650	YN1PR	Managua, Nicaragua.			
8.664	COJK	Camaguey, Cuba. (2.4). 1800-0100.			
8.950	HCJB	Quito, Ecuador. (.15). Mon., Wed., Sat., 0200-0400; 1300-1500.			
9.125	HAT4	Budapest, Hungary. (20.). Sun., Wed., 1900-2000. Sat., 1800-1900.			
9.330	OAX4J	Lima, Peru. (.2). 1200-1500; 1700-0100.			
9.345	HBL	Geneva, Switz. (20.).			
9.350	HS8PJ	Bangkok, Siam. Mon., 0730-1000.			
9.363	COBC	Havana, Cuba.			
9.415	PLV	Bandoeng, Java, N.E.I. (80.). 1000-1100.			
9.428	COCH	Havana, Cuba. (.15). 0700-0100.			
9.445	HC2RA	Guayaquil, Ecuador. Sun. 1600-2200. Daily 2100-2200.			
9.450	HC20DA	Guayaquil, Ecuador. 2100-2200.			
	TGWA	Guatemala City, Guat. (.2). Sun. 0000-0600. Daily 2000-2400.			
.....		Fort de France, Martinique. 1100-1200; 1700-1800.			
9.460	XGOX	Nanking, China. (.5).			
9.470	PJC1	Willemsd, Curacao, N.W.I. (.15). Sun. 1035-1235.			
9.480	EAR	Madrid, Spain. (20.). Mon. at 2000; Tues., Fri. at 2100.			
	XEDQ	Guadalajara, Jal. 1900-0100.			
9.500	EAC	Madrid, Spain.			
	HJ1ABE	Cartagena, Colombia. 1700-1800; 2000-2230.			
	VK3ME	Melbourne, Australia. (5.). Daily exc. Sun. 0400-0700.			
	XEWV	Mexico City, D. F. (10.). 0800-2400.			
9.501	PRF5	Rio de Janeiro, Brazil. (60.). 1645-1745.			
9.504	OLR3B	Prague, Czecho. (35.).			
9.505	T1LS	San Jose, Costa Rica.			
	XEFT	Veracruz, Ver. (.02). 1930-2400.			
9.510	GSB	Daventry, Gt. Britain. (20.). 1215-1800; 1820-2030; 2330-0145.			
	HJU	Buenaventura, Colombia. Mon., Wed., Fri. 2000-2300.			
9.520	HJ4ABH	Armenia, Colombia. (1.). 0800-1100; 1800-2200.			
	XEME	Merida, Yuc. (.015).			

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

9.525	.....	Radio Liberte. 1900-2000. Hong Kong. (2.5). Sat. 2100-2400. Sun. 0000-0100; 0300-0930. Other days 0400-1000; 2330-0100.	11.720	CJRX TPA4	Africa. (.2). Sun. 0530-0700. Other days 0430-0630. Winnipeg, Man. (2.). 1800-2400. Pontoise, France. 0615-1300.
9.530	LKJ1 W2XAF	Jeloy, Norway. (1.). 0500-0800. Schenectady, N. Y. (40.). 1600-2400.	11.730	PHI XETM	Hilversum, Netherlands. (23.6). Villahermosa, Tab.
9.535	JZ1	Nazaki, Japan. (50.).	11.740	HP5L	David, Panama. (.35).
9.540	DJN	Berlin, Germany. (8.). 0005-0515; 0555-1100; 1650-2245.	11.750	GSD	Davenport, Gt. Britain. (20.). 2330- 0145; 1215-1600; 1820-2030; 2100- 2300.
	VPD2	Suva, Fiji. 0530-0700.	11.760	OLR4B	Prague, Czecho. (35.).
9.550	OLR3A	Prague, Czecho. (35.).	11.770	DJD	Berlin, Germany. (8.). 1135-1630; 1650-2245.
9.560	DJA	Berlin, Germany. (8.). 0005-0515; 1650-2245.	11.780	OER2	Vienna, Austria. (1.5). Daily exc. Sun. 0900-1800.
	HJ1ABB	Barranquilla, Colombia. (.3).	11.790	W1XAL	Boston, Mass. (10.). Sun. 1530-1800 Other days 1600-1730.
9.562	OAX4T	Lima, Peru. (10.).	11.795	DJO	Berlin, Germany. (8.).
9.565	VUB	Bombay, India. (4.5).	11.800	COGF JZJ	Matanzas, Cuba. 0700-2400. Nazaki, Japan. (50.). 1500-1600; 1630-1730; 0800-0900.
	YV3RB	Barquisimeto, Venez.		OAX5A	Ica, Peru. (1). 1600-2230.
	W1XK	Boston, Mass. (10.). 0630-2400.	11.810	I2R0	Rome, Italy. (25.). Sun. 0645-1800. Mon., Wed., Fri. 0645-1930. Tues., Thurs., Sat. 0645-1945.
	W8XK	Pittsburgh, Pa. (40.). (Not used)	11.820	GSN	Davenport, Gt. Britain. (
9.575	HJ2ABC	Cucuta, Colombia. (.25).	11.830	XEBR	Hermosillo, Son. (.15). 2100-2400.
9.580	GSC	Davenport, Gt. Britain. (20.). 2100- 2300.	11.840	W2XE W9XAA CSW OLR4A	New York, N. Y. (10.). 1800-2300. Chicago, Ill. (20.). Lisbon, Portugal. (5.). Prague, Czecho. (35.). Mon., Thurs., 1900-2100. Daily 1430-1630. Berlin, Germany. (8.). Davenport, Gt. Britain. (20.).
	VK3LR	Melbourne, Australia. (.5). 0100- 0945.	11.855	DJP	Soerabaja I, Java, N.E.I. (1.).
9.585	VK2ME	Sydney, Australia. (20.). Sun. 0000- 0200; 0500-0900; 1130-1330.	11.860	GSE	Pittsburgh, Pa. (40.). 1700-2000.
9.590	PCJ	Huizen, Netherlands. (20.). Sun. 1400-1500. Mon. 1900-2000. Tues. 1330-1500. Thurs. 1900-2200.	11.875	YDB	Prague, Czecho. (35.).
	VK6ME	Perth, Australia. (.5). Weekdays 0600-0800.	11.880	XEXA	Mexico City, D. F. (2.).
	W3XAU	Philadelphia, Pa. (10.). 1100-1900.	11.885	TPA3	Pontoise, France. 0000-0500; 1215- 1800.
	W8XAL	Cincinnati, Ohio. (10.). (Under construction).	11.895	HP5I	Aguadulce, Panama. 1930-2130.
9.595	HLB	Geneva, Switzerland. (18.). Sat. 1730-1830.	11.900	OLR4D	Prague, Czecho. (35.).
	RAN	Moscow, USSR. 1900-2115.	11.900	XEW1	Mexico City, D. F. (.25). 1930-2400.
9.600	CB960	Santiago, Chile. 1800-1930.	11.955	IUC	Addis Ababa, Ethiopia.
	XEYU	Mexico City, D. F. 1900-2200.	11.970	HIXZ	Trujillo, D. R. (.5). Tues., Fri., 2000-2200.
9.605	HP5J	Panama City, Panama. (1.). 1830- 2300.	12.000	RNE	Moscow, USSR. (20.). Sun. 1000- 1100. Sun., Wed., 0600-0700. Sun., Mon., Wed., Fri., 1600-1700.
9.610	YDB	Soerabaja I, Java, N.E.I. (1.).	12.120	.....	Algiers, Algeria.
9.618	HJ1ABP	Cartagena, Colombia. (.75). 1700- 2300.	12.235	TFJ	Reykjavik, Iceland. (7.5). Sun., 1345-1430.
9.635	I2R0	Rome, Italy. (25.).	12.290	GBU	Rugby, Gt. Britain.
9.645	HH3W	Port-au-Prince, Haiti. (.03). 1300- 1400; 1900-2000.	12.295	CB615	Santiago, Chile.
9.650	CT1AA	Lisbon, Portugal. (2.). Tues., Thurs., Sat., 1600-1900.	13.635	SPW	Warsaw, Poland. (10.). Mon., Wed., Fri., 1230-1330.
9.660	CR6AA	Lobite, Angola, Port. West Africa. (.5). Wed., Sat., 1445-1645.	14.000	to 14.000	Amateur Stations.
	LRX	Buenos Aires, Argentina. (5.). 1030-2430.	14.358	HBJ	Geneva, Switz. Sat. 1845-2100.
9.670	TI4NRH	Heredia, Costa Rica. 2100-2200; 2330-2400.	15.040	RKI	Moscow, USSR. 1900-2115.
9.750	COCQ	Havana, Cuba. 0700-0100.	15.116	OLR5E	Prague, Czecho. (35.).
9.860	EAQ	Madrid, Spain. (20.).	15.120	HVJ	Vatican City. (10.). 1000-1030.
9.940	CSW	Lisbon, Portugal. (5.). 1900-2000.	15.140	GSF	Davenport, Gt. Britain. (15.). 1215- 1600; 2100-2300.
10.065	CQN	Macau, Portuguese China.	15.150	YDC	Bandoeng, Java, N.E.I. (3.).
10.070	.....	Communist Station	15.160	JZK	Nazaki, Japan. (50.). 0030-0130; 0800-0900; 1500-1600; 1630-1730.
10.260	PMN	Bandoeng, Java, N.E.I. (1.5). 0530- 1100.	15.175	RV96	Moscow, USSR.
10.330	ORK	Brussels, Belgium. (11.). 1330-1500.	15.180	GSO	Davenport, Gt. Britain. 2330-0145; 0545-0855; 0915-1200; 1215-1600; 1820-2030.
10.370	EAJ43	Santa Cruz de Tenerife, Canary Isl. Sat. 1700-1800.	15.190	ZB4W	Hong Kong. (2.5). Sat. 2100-2400. Sun. 0000-0100; 0300-0930. Other days 0400-1000; 2330-0100.
10.430	.....	Pirate station announcing "Radio Milan."	15.200	DJB	Berlin, Germany. (8.). Sun. 1110- 1225. Daily 0005-0515; 0555-1100; 1650-2245.
10.660	JVN	Nazaki, Japan. (50.).	15.210	W8XK	Pittsburgh, Pa. (40.). 0700-1700.
10.670	CEC	Santiago, Chile. (4.).	15.220	PCJ	Huizen, Netherlands. (20.). Tues. 0430-0600.
10.740	JVM	Nazaki, Japan. (50.).			
10.955	H58PJ	Bangkok, Siam. (5.).			
11.000	PLP	Bandoeng, Java, N.E.I. (1.5).			
11.040	CSW	Lisbon, Portugal. (5.). 1500-1900.			
11.402	HBO	Geneva, Switz.			
11.450	COCX	Havana, Cuba. Sun. 1800-2100. Other days 0800-2400.			
11.698	SBG	Motala, Sweden. (.5). 0100-0130.			
11.710	XEWB	Guadalajara, Jal.			
11.718	CR7BH	Lourenco Marques, Port. East			

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

15.230	OLR5A	Prague, Czecho. (35.).	0930-1130.	17 775	PHI	Hilversum, Netherlands. (23.6). Sun., 0725-1035. Mon., Tues., Thurs., Fri., 0825-1000. Wed., 0800- 1100. Sat. 0825-1040.
15.243	TPA2	Pontoise, France.	0600-1100.	17 780	W3XAL W8XK W9XAA W9XF W9XG	Bound Brook, N. J. (35.). 0630-1830 Pittsburgh, Pa. (40.). Chicago, Ill. (5.). Chicago, Ill. (10.).
15.250	W1XAL	Boston, Mass. (10.).	1500-1600.	17 790	GSG	Davenport, Gt. Britain. (15.). 2330- 0145; 0545-0855; 0915-1200; 1215- 1800.
15.260	GSI	Davenport, Gt. Britain.	1215-1600; 2100-2300.	19.020	HS8PJ	Bangkok, Siam.
15.270	H13X W2XE	Trujillo, D. R. (.5). Sun.,	0800-1100. New York, N. Y. (10.). Sun.	21.450	OLR6A	Prague, Czecho. (35.).
15.280	DJQ	Berlin, Germany. (8.). Sun.	1110- 1225. Daily 0005-0515; 0600-0800; 0815-1100; 1650-2245.	21.460	W1XAL	Boston, Mass. (10.).
12.290	LRU	Buenos Aires, Arg. (.5).	0800-1000.	21.470	GSH	Davenport, Gt. Britain. 0545-0855; 0915-1200.
15.300	XEBM	Mazatlan, Sin. 1000-2300.		21.480	W2XAD	Schenectady, N. Y. (25.).
15.310	GSP	Davenport, Gt. Britain.	1820-2030.	21.520	W2XE	New York, N. Y. (10.). Sun., 0700- 0900. Weekdays 0630-0900.
15.320	OLR5B	Prague, Czecho. (35.).		21.530	GSJ	Davenport, Gt. Britain. 0545-0855; 0915-1200.
15.330	W2XAD	Schenectady, N. Y. (25.).	1000-2000.	21.540	W8XK	Pittsburgh, Pa. (40.). 0445-0700.
15.340	DJR	Berlin, Germany. (8.).	0800-0900; 1650-2245.	21.550	GST	Davenport, Gt. Britain.
15.370	HAS3	Budapest, Hungary. (20.).	Sun. 0900-1000.	26.100	GSK	Davenport, Gt. Britain.
15.440	XEBM	Mazatlan, Sin. (.05).	1000-2300.	28.000 to 30.000		Amateur Stations.
17.310	W3XL	Bound Brook, N. J. (20.).				
17.760	DJE	Berlin, Germany. (8.).	Sun. 1110- 1225. Daily 0005-0515; 0555-1100.			
	W2XE	New York, N. Y. (10.).				

POLICE STATIONS OF NORTH AMERICA

The power in kilowatts is given in parentheses.

	1.610						
WQPC	Chicago, Ill. (1.)	WMP	Framingham, Mass. (1.)	.....	Hartford, Md. (.26)		
WQPD	DuQuoin, Ill. (1.)	WPFL	W. Bridgewater, Mass. (1.)	.....	W. Palm Beach, Fla. (.25)		
WQPF	Effingham, Ill. (1.)	WPEV	Portable in Mass. (.05)	.....	Portable in Md. (.25)		
WQPG	Sterling, Ill. (1.)	WPEW	Northampton, Mass. (1.)		1.706		
WQPM	Macomb, Ill. (1.)	.....	Nantucket, Mass. (.02)	KGPC	St. Louis, Mo.		
WQPP	Pontiac, Ill. (1.)	.....	Oak Bluffs, Mass. (.02)	KOHZ	Portable in Ore. (.01)		
WQPS	Springfield, Ill. (1.)			WKDU	Cincinnati, Ohio		
WQPX	Portable in Ill. (.5)			WPET	Lexington, Ky.		
.....	1.626				1.710		
	Charlestown, W. Va. (1.)	KGHK	1.674	CZ6F	Hamilton, Ont., Canada		
WEY	1.630	KGZT	Palo Alto, Calif. (.02)		1.712		
	Boston, Mass. (Fire)	KIUK	Santa Cruz, Calif. (.1)	COL2	Havana, Cuba		
WKDT	Detroit, Mich. (Fire)	WSP	Jefferson, Mo. (2.5 kw day, 1 kw nite)	KACU	Longview, Texas (.25)		
WNYF	New York, N. Y. (.5) (Fire)			KADM	Gainesville, Texas (.05)		
WPHE	1.634			KADT	Marshall, Texas (.05)		
	Marion County, Ind. (1.)	KACC	1.682	KGHY	Whittier, Calif. (.05)		
WPHS	Culver, Ind. (1.)	KACD	Fairfield, Iowa (.5)	KGJX	Pasadena, Calif. (.04)		
WPHU	Jasper, Ind. (1.)	KAPI	Atlantic, Iowa (.5)	KGJZ	Waco, Texas		
WQFE	Seymour, Ind. (1.)	KGHO	Grass Valley, Cal.	KNFJ	San Bernardino, Calif. (.05)		
WQFW	Columbia City, Ind. (1.)	KNFN	Des Moines, Iowa	KNFJ	Pomona, Calif. (.05)		
.....	Reno, Nev. (1.)	KNFO	Waterloo, Iowa (.4)	KNGE	Cleburne, Texas (.05)		
WRDH	1.642			KNGL	Galveston, Texas (.05)		
	Houghton Hghts., Mich. (5 kw day, 1 kw nite)	WQFT	Storm Lake, Iowa (.4)	KNGX	Los Angeles, Calif. (portable)		
WRDP	Paw Paw, Mich. (1.)						
WRDS	E. Lansing, Mich. (5 kw day, 1 kw nite)						
KNHD	1.658						
	Redwood Falls, Minn. (.4)						
KSW	Berkeley, Calif.						
WPGC	S. Schenectady, N. Y. (5 kw day, 1 kw nite)						

POLICE STATIONS OF NORTH AMERICA

KNHF	Denton, Texas (.05)	KACO	Tracy, Calif. (.015)	WPDR	N. Y. (.135)
KSBC	San Bernardino, Calif. (.5)	KACS	Bakersfield, Calif. (.5)	WPDW	Rochester, N. Y.
KVP	Dallas, Texas (.5)	KACV	Walla Walla, Wash. (.05)	WPFU	Washington, D. C.
VYR	Montreal, P. Q. (.4)	KADL	Port Orchard, Wash. (.05)	WPHU	Portland, Me.
WAKF	Everett, Mass. (.06)	KAPH	Stockton, Calif. (.5)	WPHB	Nashua, N. H. (.05)
WAKV	Fall River, Mass. (.05)	KAPL	Hoquiam, Wash. (.05)	.....	Willows, Calif. (.05)
WMPH	Newport, R. I. (.05)	KGHS	Spokane, Wash. (.1)	.....	2.430
WPDB	Chicago, Ill.	KGHW	Centralia, Wash. (.05)	KGPB	Minneapolis, Minn. (.5)
WPDC	Chicago, Ill.	KGPA	Seattle, Wash.	KGZJ	Phoenix, Ariz.
WPDD	Chicago, Ill.	KGPF	Santa Fe, N. Mex. (.025)	KNGP	Shreveport, La. (.1)
WPDU	Pittsburgh, Pa.	KGPS	Bakersfield, Calif. (.05)	KNHG	Prescott, Ariz. (.01)
WPED	Arlington, Mass.	KGZA	Fresno, Calif. (.5)	WAKH	Bloomfield, N. J. (.05)
WPEH	Somerville, Mass.	KGZM	El Paso, Texas	WAME	Baton Rouge, La. (.05)
WPEI	E. Providence, R. I.	KGZN	Tacoma, Wash.	WBRP	Baton Rouge, La. (.25)
WPPA	Newton, Mass.	KGZO	Santa Barbara, Calif.	WCPD	Charleston, S. C. (.05)
WPFN	Fairhaven, Mass.	KGZV	Aberdeen, Wash. (.125)	WFDI	Columbus, Ohio
WPGF	Providence, R. I.	KGZX	Albuquerque, N. Mex.	WFDM	Dayton, Ohio
WPGU	Cohasset, Mass.	KNFA	Clovis, N. Mex. (.05)	WPDFS	St. Paul, Minn.
WPGV	Boston, Mass. (.5)	KNFI	Mt. Vernon, Wash. (.05)	WPEK	New Orleans, La. (.25)
WPHG	Medford, Mass. (.05)	KNFP	Everett, Wash. (.05)	WPFDD	Highland Park, Ill.
WPIA	Warren, R. I. (.04)	KNGU	Yakima, Wash. (.1)	WPFK	Hackensack, N. J. (.5)
WQFL	Oak Park, Ill. (.05)	KNGY	Lodi, Calif. (.04)	WPGI	Portsmouth, Ohio (.1)
WQFX	Waukegan, Ill. (.1)	WAKN	Herkimer, N. Y. (.05)	WPHO	Zanesville, Ohio (.05)
.....	Brockton, Mass. (.05)	WCK	Detroit, Mich.	WQFO	Lancaster, Ohio (.05)
.....	2.318	WMO	Highland Park, Mich.	WSAG	Ashland, Ky. (.2)
CYQ	Toronto, Ont. (.4)	WPDA	Tulare, Calif. (.15)	.....	Rock Hill, S. C. (.05)
.....	2.366	WPDJ	Passaic, N. J.	.....	2.442
CZ50	Ottawa, Ont.	WPDX	Detroit, Mich.	KASD	San Angelo, Tex. (.05)
WAKC	Freehold, N. J. (.1)	WPDY	Atlanta, Ga. (.4)	KGHU	Austin, Texas (.1)
.....	2.382	WPHH	Baltimore, Md.	KGPP	Portland, Ore.
KGHT	Brownsville, Tex. (.025)	WPHI	Columbus, Ga. (.05)	KGPN	Denver, Colo.
KGHV	Corpus Christi, Tex. (.05)	WPGH	Albany, N. Y. (.3)	KGZH	Klamath Falls, Ore.
KNFE	Duluth, Minn.	WPGJ	Utica, N. Y. (.1)	KGZR	Salem, Ore. (.05)
KNHB	Green Bay, Wis. (.1)	WPGM	La Grange, Ga. (.05)	KNHM	Fargo, N. Dak. (.1)
WAKE	Oshkosh, Wis. (.1)	WQFB	Macon, Ga. (.05)	WAKO	Ft. Lauderdale, Fla. (.05)
WMPE	Eikhorn, Wis. (.1)	WQFJ	Oneonta, N. Y. (.05)	WAMB	Connersville, Ind. (.04)
WPDN	Auburn, N. Y.	WQFY	Augusta, Ga. (.25)	WAMG	Kalamazoo, Mich. (.1)
WPEA	Syracuse, N. Y.	WRDR	Grosse Pointe, Mich.	WMDZ	Indianapolis, Ind.
WPFM	Birmingham, Ala. (.4)	.....	Modesto, Calif. (.25)	WPDE	Louisville, Ky.
WPGW	Mobile, Ala. (.4)	.....	Waycross, Ga. (.05)	WPDF	Flint, Mich.
.....	2.390	.....	2.422	WPDH	Richmond, Ind.
CGZ	Vancouver, B. C. (.4)	KACA	Atchison, Kans. (.05)	WPDL	Lansing, Mich.
CJW	St. John, N. B. (.015)	KACI	Eureka, Calif. (.1)	WPFB	Grand Rapids, Mich. (.5)
CJZ	Verdun, P. Q. (.02)	KADS	Marysville, Calif. (.05)	WPES	Saginaw, Mich.
.....	2.396	KGPE	Kansas City, Mo.	WPFK	Muskegon, Mich.
VYW	Winnipeg, Man. (.6)	KGPG	Vallejo, Calif.	WPFH	Reading, Pa.
.....	2.406	KGZC	Topeka, Kans.	WPIG	Jacksonville, Fla.
KGHZ	Little Rock, Ark.	KNGF	Sacramento, Calif. (.5)	WPIH	Lakeland, Fla. (.05)
KGPW	Salt Lake City, Utah	KNGV	Salina, Kans. (.05)	WPIX	Palm Beach, Fla. (.05)
KNBE	Fort Smith, Ark. (.1)	WNJ	Buffalo, N. Y. (.5)	WPFY	Yonkers, N. Y. (.4)
.....	2.414	WNFP	Niagara Falls, N. Y.	WPFZ	Miami, Fla. (.5)
KACE	Olympia, Wash. (.05)	.....		WPL	Binghamton, N. Y. (.4)
KACJ	Wenatchee, Wash. (.25)	.....		WPGP	Muncie, Ind. (.1)
KACK	Hellingham, Wash. (.05)	.....		.....
KACN	Ventura, Calif.	.....		.....

POLICE STATIONS OF NORTH AMERICA

WPHM Orlando, Fla. (.05)	WASB Decatur, Ill. (.1)	WQFF Monessen, Pa. (.05)
WQFM Wilkes-Barre, Pa. (.1)	WPDG Youngstown, O. (.25)	WQFU Sharon, Pa. (.05) 2.490
WQFQ Lafayette, Ind. (.05)	WPDO Akron, Ohio (.25)	KACQ Kalaloch, Wash. (.01)
..... Anderson, Ind. (.1)	WPDV Charlotte, N. C. (.25)	KADI Oceanside, Calif. (.0375)
..... Elwood, Ind. (.05)	WPF5 Asheville, N. C. (.5)	KADQ Brea, Calif. (.05)
..... Miami, Fla. (.04)	WPGD Rockford, Ill.	KGHD Seattle, Wash. (.05)
..... York, Pa. (.04) 2.450	WPHD Steubenville, O. (.1)	KGHE Snoqualmie Pass, Wash.
KACF Chickasha, Okla. (.05)	WQFZ Ottawa, Ill. (.5)	KGHQ Chinook Pass, Wash.
KACL Aitkus, Okla. (.05)	WRBH Cleveland, Ohio	KGHX Santa Ana, Calif. (.4)
KACP Ponca City, Okla. (.05)	..... Clinton, Ill. (.04)	KGZD San Diego, Calif. (.05)
KACR Seminole, Okla. (.05)	..... Urbana, Ill. (.04) 2.466	KGZU Lincoln, Nebr. Port Angeles, Wash.
KADQ Hilo, Hawaii (.1)	KGOZ Cedar Rapids, Iowa (.05)	KNFG Olympia, Wash. (.05)
KAPB Cushing, Okla. (.05)	KGPD San Francisco, Calif.	KNFK Bellingham, Wash. (.05)
KAPC Drumwright, Okla. (.05)	KGPI Omaha, Nebr. (.4)	KNFM Compton, Calif. (.025)
KAPD Eldorado, Kans. (.05)	KGPK Sioux City, Iowa	KNFX Ellenburg, Wash. (.01)
KAPE Norman, Okla. (.1)	KGPM San Jose, Calif.	KNGA Satus Pass Camp, Wash.
KAPF Okmulgee, Okla. (.05)	KGPN Davenport, Iowa	KNGB Yakima, Wash. (.05)
KARD Ardmore, Okla. (.05)	KGZG Des Moines, Iowa	KNGC Vancouver, Wash. (.05)
KGHN Hutchinson, Kans. (.05)	WAKB New London, Conn. (.05)	KNGD Walla Walla, Wash. (.01)
KGHP Lawton, Okla. (.05)	WAKG Clearwater, Fla. (.05)	KNGJ El Centro, Calif. (.05)
KGPH Oklahoma City, Okla.	WPEC Memphis, Tenn.	KNGN Norfolk, Nebr. (.025)
KGPO Tulsa, Okla.	WPEM Woonsocket, R. I.	KNGQ Wenatchee, Wash. (.05)
KGpz Wichita, Kans. (.25)	WPFV Pawtucket, R. I.	KNGR Spokane, Wash. (.05)
KGZF Chanute, Kans. (.25)	WPFW Bridgeport, Conn. (.05)	KNGZ Ephrata, Wash. (.01)
KGZP Coffeyville, Kans. (.025)	WPGA Bay City, Mich.	WAKA Huntington, Ind. (.05)
KNGK Duncan, Okla. (.05)	WPGB Port Huron, Mich.	WAKK Frankfort, Ind. (.05)
KNGM Rapid City, S. Dak. (.05)	WPGK Cranston, R. I. (.05)	WAMI Bluffton, Ind. (.05)
KNGT Muskogee, Okla. (.05)	WPGX Worcester, Mass. (.1)	WAMJ Natchez, Miss. (.1)
KNHC Ada, Okla. (.05)	WPHA Fitchburg, Mass. (.05)	WAMK Jackson, Miss. (.05)
KVPB Huron, S. Dak. (.04)	WPHN Tampa, Fla. (.1)	WPDPT Kokomo, Ind.
KWCM Shawnee, Okla. (.1)	WPHP Jackson, Mich. (.05)	WPDZ Fort Wayne, Ind.
WPKD Milwaukee, Wis.	WQFA New Haven, Conn. (.1)	WPPP Clarksburg, W. Va.
WPEE Brooklyn, N. Y.	WQFC Gainsville, Fla. (.05)	WPGN South Bend, Ind. (.1)
WPEF Bronx, N. Y.	WQFK Clearwater, Fla. (.05)	WPGO Huntington, N. Y. (.025)
WPEG New York, N. Y.	..... Waterbury, Conn. (.05) 2.474	WPGS Mineola, N. Y.
WPEP Kenosha, Wis. (.1)	KNHG Las Vegas, Nev. (.05)	WPHI Charleston, W. Va. (.05)
WPHF Richmond, Va. (.15)	EGHM Reno, Nev. (.05)	WPHJ Fairmont, W. Va. (.1)
WQFG Roanoke, Va. (.1)	KNFH Garden City, Kans. (.05)	WPHQ Parkersburg, W. Va. (.05)
WQFH Lynchburg, Va. (.05)	KNGH Dodge City, Kans. (.05)	..... Bluefield, W. Va. (.05)
WQFI Petersburg, Va. (.25) 2.458	WAKI Sandusky, Ohio (.05)	..... Greenville, Miss. (.05)
KACM Big Spring, Texas (.05)	WDPD Philadelphia, Pa.	..... Marion, Ind. (.05)
KADR Abilene, Texas (.04)	WPF0 Knoxville, Tenn.	..... Portable in Wash. (.05)
KGZI Wichita Falls, Texas (.2)	WPFQ Swarthmore, Pa.	
KGZW Lubbock, Texas (.15)	WPF5 Asheville, N. C. (.5)	
KNFB Idaho Falls, Idaho (.5)	WPGZ Johnson City, Tenn. (.05)	
KNGW Brownwood, Texas (.05)	WPHY Elizabethton, Tenn. (.1)	
WAMN Lorain, Ohio (.05)	WQFY Mansfield, Ohio (.05)	
	WRDQ Toledo, O. (.4) 2.482	
	KGZE San Antonio, Tex.	
	WPGT New Castle, Pa. (.05)	
	WPHZ Oil City, Pa. (.05)	

Time Conversion Table

The time given in our indices is Eastern Standard by the 24-hour clock. Our chart this month shows Eastern Standard Time converted to the EST 24-hour clock, and GMT.

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

For times throughout the entire world consult the RADEX Time Converter

W1XAL, Educational Broadcaster

The world at large knows that the Rockefeller interests are responsible for the largest monument to radio, namely, Radio City, but few people are aware of another radio venture of the Rockefellers.

Arthur Godfrey, announcer and commentator on the Professor Quiz Show, revealed that the shortwave station W1XAL of Boston is financed and owned by the Rockefellers. This station presents nothing but educational features and classical music on its programs. It was the first station in this country to start a definite movement to give the American public full day courses by the country's foremost college professors. No commercial programs or announcements are carried.

One of the many features of this station is the broadcast of the various lectures on the curriculum of

Harvard University, direct from the lecture hall into the homes of listeners.

Sept. 26, 1937 has been set as the date when station WHK Cleveland will join the NBC as a member of the Basic Blue Network, replacing WGAR. WHK is owned by the Radio Air Service Corp., an affiliate of the Cleveland Plain Dealer and the Cleveland News. It operates full time on a regional channel of 1390 kcs with a daytime power of 2500 watts and 1000 watts at night.

The WRAX Broadcasting Co., operators of WRAX, and the Wm. Penn Broadcasting Co., operators of WPEN, both at Philadelphia, have been given special authority to increase their power to one kilowatt to counteract interference caused by CMX Havana, WWJ Detroit and KPRC Houston.

The Merrimac Broadcasting Co., Inc. of Lowell, Mass. has been granted special experimental authority to erect a satellite station at Lawrence, Mass. to operate on 1370 kcs. with from 10 to 100 watts power, unlimited time synchronously with WLLH at Lowell, Mass.

"Last June I completed one year of DXing," submits Wm. Buchanan, 189 Park St., Sydney, N. S. "I didn't know before that there could be so much fun in life. The first verification I received was from RNE, and since then I have verified all continents except Africa. Thirty-one countries are verified all together. I wonder if any other DXers received a verification from EAH in Spain. Latest cards received here are HJ4ABU, JZJ and PRF5."

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 parenthesis in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

Second Column Symbols

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

- n Weather or time only.
 - z No information available.
- ### Fourth Column Symbols
- B National "Blue" network.
 - C Columbia network.
 - D Day time only.
 - Dn Day time with occasional evening hours.
 - F Canadian Brdctg. Corp.
 - M Mutual Brdctg. Sys.
 - N National "Red" and "Blue" networks.
 - P Has construction permit only.

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

540 kcys. (555.2)

CJRM ak 1000 F Regina, Sask.

—J. Richardson & Sons, Ltd.

550 kcys. (545.1)

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

- James S. Neill & Sons.
- Evangelical Luth. Synod.
- Meyer Brdctg. Co.
- State Agricultural Col.
- St. L. Post-Dispatch.
- KTSA Brdctg. Co.
- Chas. B. Adams, Adm.
- Buffalo Brdctg. Corp.
- Columbia Brdctg. Sys.
- Shenandoah Valley Brdctg. Corp.
- Julio Molina Font.

560 kcys. (535.4)

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

- Sabine Brdctg. Co., Inc.
- KLZ Brdctg. Co.
- Associated Brdcters, Inc.
- Ozarks Brdctg. Co.
- WFIL Brdctg. Co.
- Johnson-Kennedy Radio Corp.
- Station WIS, Inc.
- Miami Brdctg. Co.

570 kcys. (526.0)

- CMCX z 150 ... Havana, Cuba
- KGKO ak 250 C Y (1) Wichita Falls, Tex.
- KMTR ak 1000 F Los Angeles, Calif.
- KVI ak 1000 C (5) Tacoma, Wash.
- WKBN ak 500 C I Youngstown, Ohio
- WMCA ak 1000 ... New York, N. Y.
- WNAX ak 1000 C (5) Yankton, S. Dak.
- WOSU ak 750 1 (1) Columbus, Ohio
- WSYR ak 1000 B (WSYU) Syracuse, N. Y.
- WWNC ak 1000 N Asheville, N. C.

- Calle Maceo 7, Guanabacoa
- Ft. Worth Star-Telegram.
- KMTR Radio Corp.
- Puget Sound Brdctg. Co.
- WKBN Brdctg. Corp.
- Knickerbocker Brdctg. Co.
- WNAX Brdctg. Co.
- Ohio State University
- Central N. Y. Brdctg. Corp.
- Citizen-Times Co., Inc.

580 kcys. (516.9)

- CFPR ak 50 ... Prince Rupert, B. C.
- CHRC ak 100 ... Quebec, P. Q.
- CKCL ak 100 F Toronto, Ont.
- CKUA ak 500 ... Edmonton, Alta.
- KMJ ak 1000 N Fresno, Calif.
- KSAC ak 500 2 (1) Manhattan, Kans.
- WCHS ak 500 C (1) Charleston, W. Va.
- WDBO ak 1000 C Orlando, Fla.
- WIBW ak 1000 2C (5) Topeka, Kans.

- Felix E. Batt.
- CHRC, Ltd.
- Dominion Battery Co., Ltd.
- University of Alta.
- McClatchey Brdctg. Co.
- State College of Agriculture.
- Charleston Brdctg. Co.
- Orlando Brdctg. Co., Inc.
- Topeka Brdctg. Ass'n., Inc.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WILL	ak	1000	D	Urbana, Ill.	—University of Ill.
WTAG	ak	1000	R	Worcester, Mass.	—Telegram Pub. Co., Inc.

590 keys. (508.2)

KHQ	ak	1000	R (5)	Spokane, Wash.	—Louis Wasmer, Inc.
WEEL	ak	1000	C (5)	Boston, Mass.	—Columbia Brdcastg. Sys.
WKZO	ak	1000	BDX	Kalamazoo, Mich.	—WKZO, Inc.
WOW	ak	1000	R (5)	Omaha, Nebr.	—Woodmen of the World

600 keys. (499.7)

CFCF	ak	400	FN	Montreal, P. Q.	—Can. Marconi Co., Ltd.
CJOR	ak	500	....	Vancouver, B. C.	—G. C. Chandler
CMW	ak	1400	....	Havana, Cuba	—Troncoso y Gil
CRCW	ak	500	F (1)	Windsor, Ont.	—Can. Brdcastg. Corp.
KFSD	ak	1000	B	San Diego, Calif.	—Airfan Radio Corp., Ltd.
WCAO	ak	500	C (1)	Baltimore, Md.	—Monumental Radio Co.
WICC	ak	500	BM (1)	Bridgeport, Conn.	—Yankee Network, Inc.
WMT	ak	1000	BM (5)	Cedar Rapids, Iowa	—Iowa Brdcastg. Co.
WREC	ck	1000	C (5)	Memphis, Tenn.	—WREC, Inc.

610 keys. (491.5)

KFRC	c	1000	M (5)	San Francisco, Cal.	—Don Lee Brdcastg. Sys.
WDAF	ak	1000	R (5)	Kansas City, Mo.	—Kansas City Star Co.
WIP	ak	1000	....	Philadelphia, Pa.	—Penn. Brdcastg. Co.
WJAY	ak	500	D	Cleveland, Ohio	—Cleve. Radio Brdcastg. Corp.

620 keys. (483.6)

KGW	ak	1000	R (5)	Portland, Ore.	—Oregonian Pub. Co.
KTAR	ak	1000	N	Phoenix, Ariz.	—KTAR Brdcastg. Co.
WFLA	ak	1000	Na (5)	Clearwater, Fla.	—Chamber of Commerce.
WHJB	ak	250	CD	Greensburg, Pa.	—Pitt. Radio Sup. House.
WLBZ	ak	500	CM (1)	Bangor, Maine	—Maine Brdcastg. Co., Inc.
WSUN	ak	1000	Na (5)	St. Petersburg, Fla.	—Chamber of Commerce
WTMJ	ak	1000	N (5)	Milwaukee, Wis.	—The Journal Co.

630 keys. (475.9)

CFCO	ak	100	F	Chatham, Ont.	—John Beardall
CFCY	ak	1000	F	Charlottetown, P.E.I.	—Island Radio Brdcastg. Co.
CJRC	ak	500	F (1)	Winnipeg, Man.	—Jas. Richardson & Sons.
CKOV	ak	100	F	Kelowna, B. C.	—Okanagan Brdcasters, Ltd.
KFRU	ak	500	I (1)	Columbia, Mo.	—KFRU, Inc.
KGFX	ak	200	D	Pierre, S. Dak.	—Mrs. Ida A. McNeil
WGBF	ak	500	B1 (1)	Evansville, Ind.	—Evans. on the Air, Inc.
WMAL	ak	250	B (5)	Washington, D. C.	—NBC, Inc.
WPRO	ak	500	C (1)	Providence, R. I.	—Cherry & Webb Brdcastg. Co.
XEZ	z	500	....	Merida, Yuc.	—Jorge L. Falomeque.

640 keys. (468.5)

CMCB	ak	150	....	Havana, Cuba	—El Progreso Cubana
KFI	ak	50000	R	Los Angeles, Calif.	—Earle C. Anthony, Inc.
WGAN	z	500	DP	Portland, Maine	—Port. Brdcastg. Sys., Inc.
WHKC	ak	500	....	Columbus, Ohio	—Associated Brdcastg. Corp.
WOI	ak	5000	D	Ames, Iowa	—State Col. of Agriculture
XEBX	z	250	Sabinas, Coah.	—Benito Garza Orregon

650 keys. (461.3)

WSM	ak	50000	MN	Nashville, Tenn.	—Nat'l. Life & Accident
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660 keys. (454.3)

WAAW	ak	500	D	Omaha, Nebr.	—Omaha Grain Exchange
WEAF	ak	50000	R	New York, N. Y.	—NBC, Inc.
XEAL	z	1000	....	Mexico City, D. F.	—Cia. Pan-Americana de Radio
XEAO	ak	250	Mexicali, B. Cfa.	—Luis L. Castro

670 keys. (447.5)

WMAQ	ak	50000	R	Chicago, Ill.	—NBC, Inc.
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

680 kcys. (440.9)

CMGG	ak	1000	Havana, Cuba	—La Onda, S. A.
KFEQ	ak	2500	D	St. Joseph, Mo.	—KFEQ, Inc.
KPO	ak	50000	R	San Francisco, Cal.	—NBC, Inc.
VAS	akn	2000	685	Glace Bay, N. S.	—Can. Marconi Co., Inc.
VOWR	ck	500	681	St. John's, Nfld.	—Wesley United Church
WPTF	ak	1000	N(5)	Raleigh, N. C.	—WPTF Radio Co.
.....	z	1000	DP	Lawrence, Mass.	—Hildreth & Rogers Co.

690 kcys. (434.5)

CFRB	ak	10000	C	Toronto, Ont.	—Rogers Radio Brdctg. Co.
CJ CJ	ak	100	F	Calgary, Alta.	—Albertan Publishers, Ltd.
XET	ak	5000	Monterrey, N. L.	—El Pregonero del Norte

700 kcys. (428.3)

WLW	ak	500000	MN(W8XO)	Cincinnati, O.	—Crosley Radio Corp.
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710 kcys. (422.3)

KIRO	ak	1000	Seattle, Wash.	—Queen City Brdctg. Co.
KMPC	ak	500	Beverly Hills, Calif.	—B. Hills Brdctg. Corp.
WOR	ak	50000	M	Newark, N. J.	—Bamberger Brdctg. Serv.. Inc.

720 kcys. (416.4)

WGN	ak	50000	M	Chicago, Ill.	—WGN, Inc.
XEH	ak	250	....	Monterrey, N. L.	—Constantino de Ternava

730 kcys. (410.7)

CFPL	ak	100	F	London, Ont.	—London Free Press
CJCA	ak	1000	F	Edmonton, Alta.	—Taylor & Pearson Brdctg. Co.
CKAK	ak	5000	C	Montreal, P. Q.	—La Presse Pub. Co.
CKPR	ak	100	F	Fort William, Ont.	—Dougall Motor Car Co.
CMK	ak	3000	....	Havana, Cuba	—Cia. Nacional de Radic
XEBC	ak	5000	....	Agua Caliente, B. Cfa.	—Cia. Mexicana del A. C.
XEPN	ak	100000	....	Piedras Negras, Coah.	—P. N. Brdctg. Co.

740 kcys. (405.2)

KMMJ	ak	1000	D	Clay Center, Nebr.	—KMMJ, Inc.
KTRB	ak	250	D	Modesto, Calif.	—McTammany & Bates.
WHEB	ak	250	D	Portsmouth, N. H.	—Granite State Brdctg. Corp.
WSB	ak	50000	N	Atlanta, Ga.	—Atlanta Journal Co.

750 kcys. (399.8)

CMCW	dk	150	....	Havana, Cuba	—"Radio Pilot."
KGU	aj	2500	N	Honolulu, Hawaii	—Advertiser Pub. Co., Ltd.
WJR	ak	50000	C	Detroit, Mich.	—The Goodwill Station
XEAM	z	25	....	Matamoros, Tams.	—Manuel Salines.

760 kcys. (394.5)

CMHX	ak	200	....	Cienfuegos, Cuba	—F. Chavarry.
KXA	ak	250	(.5)	Seattle, Wash.	—Am. Radio Tel. Co.
WBAL	ak	2500	BMSy	Baltimore, Md.	—WBAL Brdctg. Co.
WEW	ak	1000	D	St. Louis, Mo.	—St. Louis University
WJZ	ak	50000	BSy	New York, N. Y.	—NBC, Inc.
XEOK	ak	2500	....	Tijuana, B. Cfa.	—Carlos de la Serra

770 kcys. (389.4)

CMBS	ak	150	....	Havana, Cuba	—"Radio Grunow"
KFAB	ak	10000	CSy	Lincoln, Nebr.	—KFAB Brdctg. Co.
WBBM	ak	50000	CSy	Chicago, Ill.	—Columbia Brdctg. Sys.

780 kcys. (384.4)

CHWK	dk	100	F	Chilliwack, B. C.	—Chil. Brdctg. Co., Ltd.
CKSO	ak	1000	F	Sudbury, Ont.	—Sudbury Star

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CMJK	ak	250	.....	Camaguey, Cuba	—Cla. Nacional de Radio
KEHE	ak	1000	(5)	Los Angeles, Calif.	—Hearst Radio, Inc.
KFDY	ak	1000	D	Brookings, S. Dak.	—S. Dak. State College
KFQD	ck	250	.....	Anchorage, Alaska	—Anchorage Radio Club, Inc.
KGHL	ak	1000	N (5)	Billings, Mont.	—N. W. Auto Supply Co.
WEAN	ak	1000	BM	Providence, R. I.	—Yankee Network, Inc.
WMC	ak	1000	N (5)	Memphis, Tenn.	—M. Commercial Appeal Co.
WTAR	ak	500	NX (1)	Norfolk, Va.	—WTAR Radio Corp.
XEL	z	1000	.....	Mexico City, D. F.	—Plaza de San Juan 15.

790 kcys. (379.5)

CMGH	ak	500	.....	Matanzas, Cuba	—"Rialto."
KGO	ak	7500	B	San Francisco, Cal.	—NBC, Inc.
KOAM	z	1000	DP	Pittsburg, Kans.	—Pittsburg Brdcastg. Co.
WGY	ak	50000	R	Schenectady, N. Y.	—General Electric Co.

800 kcys. (374.8)

WBAP	ak	50000	Na	Fort Worth, Texas	—Ft. Worth Star-Telegram
WFAA	ak	50000	Na	Dallas, Texas	—A. H. Belo Corp.
WTBO	ak	250	D	Cumberland, Md.	—Associated Brdcastg. Corp.

810 kcys. (370.2)

CMCF	ak	600	.....	Havana, Cuba	—Oscar Gutierrez
WCGO	ak	50000	C	Minneapolis, Minn.	—Columbia Brdcastg. Sys.
WNYC	ak	1000	D	New York, N. Y.	—City of N. Y.
XEXC	z	350	.....	Aguascalientes, Ags.	—Gobierno del E. de Ags.

820 kcys. (365.6)

CMHW	ak	100	.....	Glennfuegos, Cuba	—Ramon Gonzales
WHAS	ak	50000	C	Louisville, Ky.	—Louisville Times Co.
XEBG	z	1000	.....	Tijuana, B. Cfa.	—Angel B. Fernandez

830 kcys. (361.2)

CMJX	ak	500	.....	Camaguey, Cuba	—Teatro Principal
KOA	ak	50000	N	Denver, Colo.	—NBC, Inc.
WEU	ak	1000	D	Reading, Pa.	—Berks Brdcastg. Co.
WHDH	ak	1000	Dn	Boston, Mass.	—Matheason Radio Co., Inc.
WRUF	ak	5000	Dn	Gainesville, Fla.	—University of Fla.

840 kcys. (356.9)

CFQC	ak	1000	F	Saskatoon, Sask.	—A. A. Murphy & Sons.
CRCT	ak	5000	FN	Toronto, Ont.	—Can. Brdcastg. Corp.
VOGY	ak	400	.....	St. John's, Nfld.	—Newfoundland Hotel
XERA	ck	350000	.....	Villa Acuna, Coah.	—Brinkley Hospital

850 kcys. (352.7)

CMCN	z	.....	.....	Havana, Cuba	—Marianao
KIEV	ak	250	D	Glendale, Calif.	—Cannon System, Ltd.
WESG	ak	1000	CD	Elmira, N. Y.	—Cornell University
WKAR	ak	1000	D	E. Lansing, Mich.	—Mich. State College
WWL	ak	10000	C	New Orleans, La.	—Loyola University.

860 kcys. (348.6)

WABC	ak	50000	C (WBOQ)	New York, N. Y.	—Columbia Brdcastg. Sys.
WHB	ak	1000	DM	Kansas City, Mo.	—WHB Brdcastg. Co.
XEMO	ak	5000	.....	Tijuana, B. Cfa.	—Box 202, San Diego, Calif.
XENC	z	50	.....	Mexico City, D. F.	—Ignacio Barrueta

870 kcys. (344.6)

WENR	ak	50000	Ba	Chicago, Ill.	—NBC, Inc.
WLS	ak	50000	Na	Chicago, Ill.	—Agricultural Brdcastg. Co.
XEFB	ak	200	.....	Monterrey, N. L.	—Jesus Quintanilla.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

880 keys. (340.7)

CFJC	ak	100	F	Kamloops, B. C.	—Review Pub. Co.
CMO	ak	500	.....	Havana, Cuba	—La Casa de las Medias
CRCO	ak	1000	F	Ottawa, Ont.	—Can. Brdcastg. Corp.
KFKA	ak	500	2M (1)	Greeley, Colo.	—Mid-Western Radio Corp.
KLX	ak	1000	.....	Oakland, Calif.	—Tribune Bldg. Co.
KPOF	ak	500	2	Denver, Colo.	—Pillar of Fire
WGOC	ak	500	CX (1)	Meridian, Miss.	—Miss. Brdcastg. Co., Inc.
WGBI	ak	500	CI (1)	Scranton, Pa.	—Scranton Brdcsters, Inc.
WQAN	ak	1000	1	Scranton, Pa.	—Scranton Times
WPHR	ak	500	D	Petersburg, Va.	—WLBG, Inc.
WSUI	ak	500	(1)	Iowa City, Iowa	—State Univ. of Iowa.

890 keys. (336.9)

KARK	ak	500	B (1)	Little Rock, Ark.	—Ark. Radio & Equip. Co.
KFNF	ak	500	2 (1)	Shenandoah, Iowa	—KFNF, Inc.
KFPY	ak	1000	C (5)	Spokane, Wash.	—Symons Brdcastg. Co.
KUSD	ak	500	2	Vermillion, S. Dak.	—Univ. of S. Dak.
WBAA	ak	500	(1)	W. Lafayette, Ind.	—Purdue University
WGST	ak	1000	C (5)	Atlanta, Ga.	—Ga. School of Technology
WJAR	ak	1000	R	Providence, R. I.	—Outlet Co.
WMMN	ak	500	C (1)	Fairmont, W. Va.	—Monongahela Valley Brdcastg. Co.
XEW	ak	50000	.....	Mexico City, D. F.	—Cadena Radiodifusora Mex.

900 keys. (333.1)

KGBU	ak	500	X	Ketchikan, Alaska	—Aaa. Radio & Serv. Co.
KHJ	ak	1000	M (5)	Los Angeles, Calif.	—Don Lee Brdcastg. Sys.
KSEI	ak	250	(1)	Pocatello, Idaho	—Radio Serv. Corp.
WBEN	ak	1000	R (5)	Buffalo, N. Y.	—WBEN, Inc.
WELI	ak	500	D	New Haven, Conn.	—City Brdcastg. Corp.
WFMD	ak	500	D	Frederick, Md.	—Monocacy Brdcastg. Co.
WJAX	ak	1000	N (5)	Jacksonville, Fla.	—City of Jacksonville.
WKY	ak	1000	N (5)	Oklahoma City, Ok.	—WKY Radiophone Co.
WLBL	ak	2500	DX	Stevens Point, Wis.	—State of Wis.
WTAD	ak	1000	D	Quincy, Ill.	—Ill. Brdcastg. Corp.

910 keys. (329.6)

CJAT	ak	1000	F	Trail, B. C.	—Kootenay Brdcastg. Co.
CKY	ak	15000	F	Winnipeg, Man.	—Man. Telephone Sys.
CRCM	ak	5000	F	Montreal, P. Q.	—Can. Brdcastg. Corp.
XENT	ak	150000	.....	Nuevo Laredo, Tams.	—Box 410, Laredo, Texas

920 keys. (325.9)

CMX	ak	1000	.....	Havana, Cuba	—Casa Lavin
KFEL	ak	500	Ma	Denver, Colo.	—Eugene P. O'Fallon, Inc.
KOMO	ak	1000	R (5)	Seattle, Wash.	—Fishers Blend Station, Inc.
KPRC	ak	1000	N (5)	Houston, Texas	—Houston Ptg. Corp.
KVOD	ak	500	Ba	Denver, Colo.	—Colo. Radio Corp.
WAAP	ak	1000	D	Chicago, Ill.	—Drivers Journal Pub. Co.
WORL	ak	500	D	Boston, Mass.	—Brdcastg. Serv. Org., Inc.
WFEN	ak	1000	1	Philadelphia, Pa.	—Wm. Penn Brdcastg. Co.
WRAX	ak	1000	1	Philadelphia, Pa.	—WRAX Brdcastg. Co.
WSPA	ak	1000	D	Spartanburg, S. C.	—Voice of S. C.
WWJ	ak	5000	R	Detroit, Mich.	—Evening News Ass'n.
XEAA	ak	200	.....	Mexicali, B. Cfa.	—Box 714, Calexico, Calif.

930 keys. (322.4)

CFAC	ak	100	F	Calgary, Alta.	—Taylor, Pearson & Carson
CFCH	ak	100	F	North Bay, Ont.	—Northern Brdcastg. Co., Ltd.
CFLC	ak	100	.....	Prescott, Ont.	—Radio Ass'n. of Prescott
CHNS	ak	1000	F	Halifax, N. S.	—Maritime Brdcastg. Co., Ltd.
CKPC	ak	100	F	Brantford, Ont.	—Telephone City Brdcastg. Ltd.
KMA	ak	1000	(5)	Shenandoah, Iowa	—May Seed and Nursery Co.
KROW	ak	1000	.....	Oakland, Calif.	—Educational Brdcastg. Corp.
WBRK	ak	1000	C	Birmingham, Ala.	—Birm. Brdcastg. Co., Inc.
WDBJ	ak	1000	C (5)	Roanoke, Va.	—Times World Corp.
XEBH	ak	500	.....	Hermosillo, Son.	—Carlos Halderamma

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

940 kcys. (319.0)

KOIN	ak	1000	C (5)	Portland, Ore.	—KOIN, Inc.
VOAS	ak	100		St. John's, Nfld.	—Ayre & Sons, Ltd.
WAAT	ak	500	D	Jersey City, N. J.	—Bremer Brdcstg. Corp.
WAVE	ak	1000	N	Louisville, Ky.	—WAVE, Inc.
WCSH	ak	1000	R (2.5)	Portland, Maine	—Congress Sq. Hotel Co.
WDAY	ak	1000	N (5)	Fargo, N. Dak.	—WDAY, Inc.
WHIA	ak	5000	D	Madison, Wis.	—University of Wis.
WICA	z	250	DP	Ashtabula, Ohio	—Ash. Star-Beacon
XEFO	ak	5000		Mexico City, D. F.	—Radio Nacional
XEYO	z	500		Mexico City, D. F.	—Partido Nac. Revolucionaria

950 kcys. (315.6)

CJOC	ak	100	F	Lethbridge, Alta.	—Lethbridge Brdcstg. Co.
CMCD	ak	250		Havana, Cuba	—"La Voz del Aire," S. A.
CRCS	ak	100	F	Chicoutimi, P. Q.	—Can. Brdcstg. Corp.
KFWB	ak	1000	(5)	Hollywood, Calif.	—Warner Bros. Brdcstg. Corp.
KMBC	ak	1000	C (5)	Kansas City, Mo.	—Midland Brdcstg. Co.
WHAL	z	500	DP	Saginaw, Mich.	—Gross & Shields
WRC	ak	500	RX (1)	Washington, D. C.	—NBC, Inc.

960 kcys. (312.3)

CFRN	ak	100	F	Edmonton, Alta.	—Sunwapta Brdcstg. Co.
CHNC	ak	1000	F	New Carlisle, P. Q.	—Gaspesian Radio Co.
XEAW	c	50000		Reynosa, Tams.	—Cia. Int. Difusora Reynosa

970 kcys. (309.1)

CMBY	z	150		Havana, Cuba	—Calle Infanta 132
KJR	ak	5000	B	Seattle, Wash.	—Fishers Blend Sta., Inc.
WCFL	ak	5000	B	Chicago, Ill.	—Chi. Fed. of Labor.
WIBG	ak	100	D	Glenside, Pa.	—Seaboard Radio Bc. Corp.

980 kcys. (306.0)

KDKA	ak	50000	B	Pittsburgh, Pa.	—Westinghouse Elec.
XEAC	ak	250		Tijuana, B. Cfa.	—Aurelio Mateus
XEFE	z	25		Nuevo Laredo, Tams.	—"Voice of the Border."

990 kcys. (302.8)

WBZ	ak	50000	BSy	Boston, Mass.	—Westinghouse Elec. Co.
WBZA	ak	1000	BSy	Springfield, Mass.	—Westinghouse Elec. Co.
XEAF	ak	750		Nogales, Son.	—Francisco G. Elias
XEK	ak	100		Mexico City, D. F.	—Arturo Martinez
XES	ak	250		Tampico, Tams.	—Fernando Sada

1000 kcys. (299.8)

CMBZ	ak	500	(1)	Havana, Cuba	—Manuel y G. Salas
KFVD	ak	1000	Dn	Los Angeles, Calif.	—Standard Brdcstg. Co.
VOCM	z	200	1006	St. John's, Nfld.	—St. John's Eve. Telegram
WHO	ak	50000	R	Des Moines, Iowa	—Central Brdcstg. Co.
XEB1	ak	25		Aguascalientes, Ags.	—Alejandro Diaz
XEBK	ak	100		Nuevo Laredo, Tams.	—"Indo Latin Voice."
XEXS	z	100		Portable in Mexico	—Dpto. de Salubridad Publica

1010 kcys. (296.9)

CHML	ak	100	F	Hamilton, Ont.	—Maple Leaf Radio Co., Ltd.
CKCD	ak	100	1	Vancouver, B. C.	—Van. Daily Province
CKCK	ak	500	FX	Regina, Sask.	—Leader-Post, Ltd.
CKCO	ak	100	F	Ottawa, Ont.	—Dr. G. M. Geldert
CKIC	ak	50		Wolfville, N. S.	—Acadia University
CKWX	ak	100	F1	Vancouver, B. C.	—Western Brdcstg. Co.
CMJA	ak	300		Camaguey, Cuba	—Rafael Valdez
KGGF	ak	1000	2	Coffeyville, Kans.	—Powell & Platz
KQW	ak	1000		San Jose, Calif.	—Radio Station KQW
WHN	ak	1000	(5)	New York, N. Y.	—Marcus Loew Booking Agency
WNAD	ak	1000	2	Norman, Okla.	—University of Okla.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WNOX ak 1000 C (5) Knoxville, Tenn. —Scripps-Howard Radio, Inc.
 XEU ak 250 Veracruz, Ver. —Fernando Pazos S.

1020 kcys. (293.9)

KYW ak 10000 R Philadelphia, Pa. —Westinghouse Elec. Co.
 WDZ ak 250 D Tuscola, Ill. —WDZ Brdcstg. Co.
 XEJ ak 1000 Juarez, Chih. —Juan G. Buttner

1030 kcys. (291.1)

CFCN ak 10000 Calgary, Alta. —Voice of the Prairies, Ltd.
 CKLW ak 5000 M Windsor, Ont. —West. Ont. Brdcstg. Co.
 CMCY ak 5000 Havana, Cuba. —Manuel D. Outran
 XEB ak 10000 Mexico City, D. F. —El Buen Tono, S. A.

1040 kcys. (288.3)

KRLD ak 10000 C Dallas, Texas —KRLD Radio Corp.
 KWJJ ak 500 Portland, Ore. —KWJJ Brdcstg. Co., Inc.
 KYOS z 250 D Merced, Calif. —Merced Star Pub. Co.
 WTIC ah 50000 R Hartford, Conn. —Travelers Brdcstg. Service

1050 kcys. (285.5)

CMKD ak 250 Santiago, Cuba —Radioemisora Oriental
 CRCK ak 1000 F Quebec, P. O. —Can. Brdcstg. Corp.
 KFBI ak 5000 Dn Abilene, Kans. —Farmers & Bankers Bc. Corp.
 KNX ak 50000 C Los Angeles, Calif. —CBS of Calif., Inc.
 WEAU z 1000 D Eau Claire, Wis. —Central Brdcstg. Co.
 WGVA z 1000 DP Indianapolis, Ind. —Glenn Van Auken

1060 kcys. (282.8)

KTHS ak 10000 N Hot Springs, Ark. —Chamber of Commerce
 VOAC z 40 1065 St. John's, Nfld. —St. John's Daily News
 WBAL ak 10000 BM Baltimore, Md. —WBAL Brdcstg. Co.
 WJAG ak 1000 D Norfolk, Nebr. —Norfolk Daily News
 W3XJ z 100 P College Park, Md. —McNary & Chambers
 XEAD ak 125 Guadalajara, Jal. —Alberto Palos Sauza
 XEMG z 100 Atzacapotzalco, D. F. —Humberto Garcia Ruiz

1070 kcys. (280.2)

CMBX ak 500 Havana, Cuba —Alberto Alvarez
 CMHA z 50 Sagua la Grande, Cuba —Abelardo Menocal
 KJBS ak 500 San Francisco, Calif. —Julius Brunton & Sons
 WCAZ ak 100 D Carthage, Ill. —Superior Brc. Serv., Inc.
 WTAM ak 50000 R Cleveland, Ohio —NBC, Inc.

1080 kcys. (277.6)

WBT ak 50000 C Charlotte, N. C. —Columbia Brdcstg. Sys.
 WCBD ak 5000 Dnl Chicago, Ill. —WCBD, Inc.
 WMBI ak 5000 Dnl Chicago, Ill. —Moody Bible Institute
 XEBA z 20 Guzman, Jal. —Javier Velasco
 XEDP ak 500 Mexico City, D. F. —Dpto. de Publicidad

1090 kcys. (275.1)

KMOX ak 50000 C St. Louis, Mo. —Columbia Brdcstg. Sys.
 XEAQ ak 1000 Rosarito, B. Cfa. —Radio Mexsa

1100 kcys. (272.6)

CMCJ ak 500 Havana, Cuba. —Radio Emisora Comercial
 CRGV ak 5000 F Vancouver, B. C. —Can. Brdcstg. Corp.
 KGDM ak 1000 DM Stockton, Calif. —E. F. Peffer
 KWKH c 10000 C Shreveport, La. —Internat'l. Brc. Corp.
 WBIL ak 5000 I New York, N. Y. —Arde Bulova
 WPG ak 5000 CI Atlantic City, N. J. —City of Atlantic City

1110 kcys. (270.1)

KSOO ak 2500 BDn Sioux Falls, S. Dak. —S. F. Brdcstg. Ass'n.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WRVA	ak 5000	CM	Richmond, Va.	—Larus & Bros. Co.
XELO	ak 50000		Pied. Negras, Coah.	—Pied. Neg. Brdcstg. Co.

1120 keys. (267.7)

CHLP	ak 100	F	Montreal, P. Q.	—La Patrie Pub. Co.
CHSJ	ak 500	F (1)	St. John, N. B.	—N. B. Brdcstg. Co.
CKOC	ak 500	F (1)	Hamilton, Ont.	—Westworth Radio Brdcstg. Co.
CKX	ak 100	F	Brandon, Man.	—Man. Telephone System
CMGF	dk 150		Matanzas, Cuba	—Grnl. Betancourt No. 51
CMKM	ak 200		Manzanillo, Cuba	—Merchan P. Figeredo
KFIO	ak 100	D	Spokane, Wash.	—Spokane Brdcstg. Corp.
KFSG	ak 500	a (2.5)	Los Angeles, Calif.	—Echo Park Evan. Ass'n.
KRKD	ak 500	a (2.5)	Los Angeles, Calif.	—Radio Brdcsters., Inc.
KRSC	ak 250		Seattle, Wash.	—Radio Sales Corp.
WCOP	ak 500	D	Boston, Mass.	—Mass. Brdcstg. Corp.
WDEL	ak 250	R (5)	Wilmington, Del.	—WDEL, Inc.
WISN	ak 250	C (1)	Milwaukee, Wis.	—Hearst Radio, Inc.
WTAW	ak 500		College Sta., Tex.	—Agri. & Mechanical Col.
.....	z 1000	DP	Austin, Texas	—State Capitol Brdcstg. Assn.

1130 keys. (265.3)

CMJI	ak 150	.....	Ciego de Avila, Cuba	—Gilberto Gesse Lopez
KSL	ak 50000	C	Salt Lake City, Ut.	—Radio Service Corp.
WJJD	ak 20000	Dn	Chicago, Ill.	—WJJD, Inc.
WOV	ak 1000	D	New York, N. Y.	—Internat'l. Brc. Corp.
XEJP	z 100	.....	Mexico City, D. F.	—Salvador Monterrubio

1140 keys. (263.0)

CMBC	z 200	.....	Havana, Cuba	—John L. Stowers
KVOO	ak 25000	NI	Tulsa, Okla.	—Southwestern Sales Corp.
WAPI	ak 5000	NI	Birmingham, Ala.	—Ala. Polytechnic Inst.
WSPR	ak 500	DM	Springfield, Mass.	—Conn. Valley Brdcstg. Co.

1150 keys. (260.7)

CMJF	z 200	.....	Camaguey, Cuba	—John L. Stowers
WHAM	ak 50000	B	Rochester, N. Y.	—Stromberg-Carlson Co.
XEC	ak 100	.....	Tijuana, B. Cfa.	—Luis F. Encicso
XEDW	z 20	.....	Minatitlan, Ver.	—Hector Silva Canto

1160 keys. (258.5)

CMHJ	ak 175	.....	Cienfuegos, Cuba	—Romualdo Ugalde
CMKG	z .....	.....	Santiago, Cuba	.....
WOWO	ak 10000	BI	Fort Wayne, Ind.	—Westinghouse Radio Station
WWVA	ak 5000	CI	Wheeling, W. Va.	—W. Va. Brdcstg. Corp.
XEAS	ak 50	.....	Saltillo, Coah.	—“La Voz del Comercio.”
XEBJ	z 20	.....	Merida, Yuc.	—Hidalgo Franco
XEBZ	ad 100	.....	Mexico City, D. F.	—Refugio Esperza Vda.
XED	ak 2500	.....	Guadalajara, Jal.	—Cla. Radiofonografica
XEP	ak 500	.....	Juarez, Chih.	—Apartado 89

1170 keys. (256.3)

CMBD	ak 500	.....	Havana, Cuba	—Luiz Perez Garcia
WCAU	ak 50000	C	Philadelphia, Pa.	—WCAU Brdcstg. Co.

1180 keys. (254.1)

CMJO	ak 50	.....	Ciego de Avila, Cuba	—B. Ildefonso
KEX	ak 5000	B2	Portland, Ore.	—Oregonian Pub. Co.
KOB	ak 10000	B2	Albuquerque, N. M.	—Albuquerque Brdcstg. Co.
WDGJ	ak 1000	Dn (5)	Minneapolis, Minn.	—Dr. Geo. W. Young
WINS	ak 1000	.....	New York, N. Y.	—Hearst Radio, Inc.
WMAZ	ak 1000	C	Macon, Ga.	—Southeastern Brdcstg. Co.
XEFA	z 500	.....	Tacuba, D. F.	—Eduardo Limon Segui

1190 keys. (252.0)

CMKX	z .....	.....	Santiago, Cuba	.....
KTKC	z 250	DP	Visalia, Calif.	—Tulare-Kings Counties

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

VONF	ak	500	1195	St. John's, Nfld.	—Dominion Brcdstg. Co.
WATR	ak	100	DXZ	Waterbury, Conn.	—WATR Co., Inc.
WOAI	ak	50000	N	San Antonio, Tex.	—Southland Industries, Inc.
WSAZ	ak	1000	....	Huntington, W. Va.	—WSAZ, Inc.

1200 kcys. (249.9)

CHAB	ak	100	F	Moose Jaw, Sask.	—CHAB, Ltd.
CKNX	dk	50	....	Wingham, Ont.	—Wingham Radio Club
CKTB	ak	100	F	St. Catharines, Ont.	—Silver Spire Brcdstg. Station
CMCO	ad	250	....	Havana, Cuba	—Enrique Lasanta
KADA	ak	100	DM	Ada, Okla.	—C. C. Morris
KBTM	ak	100	D	Jonesboro, Ark.	—W. J. Beard
KDNC	z	100	(.25) P	Lewistown, Mont.	—Democrat-News Co.
KELO	z	100	P	Sioux Falls, S. Dak.	—S. F. Brcdstg. Ass'n.
KFJB	ak	100	(.25)	Marshalltown, Ia.	—Marshall Elec. Co., Inc.
KFXD	ak	100	(.25)	Nampa, Idaho	—Frank E. Hurt
KFFXJ	ak	100	(.25)	Grand Junc., Colo.	—Western Slope Brcdstg. Co.
KGDE	c	100	(.25)	Fergus Falls, Minn.	—Charles L. Jaren
KGEK	ak	100	....	Sterling, Colo.	—Elmer G. Beehler
KGJF	ak	100	....	Los Angeles, Calif.	—Ben S. McGlashan
KGHI	ak	100	(.25)	Little Rock, Ark.	—Ark. Brcdstg. Co.
KGLV	z	100	DP	Greenville, Texas	—Hunt Brcdstg. Assn.
KMLB	ak	100	(.25)	Monroe, La.	—Liner's Brcdstg. Station
KOOS	ak	100	(.25)	Marshfield, Ore.	—Pacific Radio Corp.
KSUN	c	100	(.25)	Lowell, Ariz.	—Copper Elec. Co., Inc.
KVCV	z	100	....	Redding, Calif.	—Golden Empire Brcdstg. Co.
KVEC	z	250	D	San Luis Obispo, Calif.	—Valley Elec. Co.
KVOS	dk	100	N	Bellingham, Wash.	—KVOS, Inc.
KWG	ak	100	N	Stockton, Calif.	—McClatchey Brcdstg. Co.
KWNO	z	100	DP	Winona, Minn.	—Winona Radio Service.
WABI	ak	100	(.25)	Bangor, Maine	—Community Brcdstg. Serv.
WAIM	ak	100	C	Anderson, S. C.	—Wilton E. Hall
WAYX	ak	100	C	Waycross, Ga.	—Waycross Brcdstg. Co.
WBBZ	ak	100	M (.25)	Ponca City, Okla.	—Adealde L. Carrell
WBHP	z	100	P	Huntsville, Ala.	—Wilton Harvey Pollard
WBNO	ak	100	1	New Orleans, La.	—Coliseum Place Bap. Church
WCAT	ak	100	D	Rapid City, S. Dak.	—S. Dak. State School of Mines
WCAX	ak	100	(.25)	Burlington, Wt.	—Bur. Daily News, Inc.
WCLO	ak	100	(.25)	Janesville, Wis.	—Gazette Ptg. Co.
WCPO	ak	100	(.25)	Cincinnati, Ohio	—Scripps-Howard Radio, Inc.
WDSM	z	100	P	Superior, Wis.	—Fred A. Baxter
WEST	ak	100	3 (.25)	Easton, Pa.	—Associated Brcdstrs., Inc.
WFAM	ak	100	8	South Bend, Ind.	—South Bend Tribune
WFTC	ak	100	(.25)	Kinston, N. C.	—Jonas Weiland
WHBC	ak	100	(.25)	Canton, Ohio	—Edw. P. Graham
WHBY	ak	100	(.25)	Green Bay, Wis.	—WHBY, Inc.
WIBX	ak	100	C (3)	Utica, N. Y.	—WIBX, Inc.
WIL	ak	100	(.25)	St. Louis, Mo.	—Mo. Brcdstg. Corp.
WJBC	ak	100	6 (.25)	Bloomington, Ill.	—Kaskaskia Brcdstg. Co.
WJBL	ak	100	6	Decatur, Ill.	—Commodore Brcdstg. Co.
WJBW	ak	100	1	New Orleans, La.	—Chas. C. Carlson
WJNO	ak	100	G (.25)	W. Palm Beach, Fla.	—Hazelwood, Inc.
WJRD	c	100	DX	Tuscaloosa, Ala.	—James R. Doss, Jr.
WKBO	ak	100	3 (.25)	Harrisburg, Pa.	—Keystone Brcdstg. Corp.
WLVA	ak	100	(.25)	Lynchburg, Va.	—Lynchburg Brcdstg. Corp.
WMFR	ak	100	D	High Point, N. C.	—Station WMFR, Inc.
WMPC	ak	100	(.25)	Lapeer, Mich.	—1st Methodist Church
WOLS	z	100	DP	Florence, S. C.	—O. Lee Stone
WRBL	ak	100	(.25)	Columbus, Ga.	—WRBL Radio Station, Inc.
WTHH	ak	100	M	Hartford, Conn.	—Hartford Times, Inc.
WWAE	ak	100	8	Hammond, Ind.	—Hammond-Calumet Brcdstg. Corp.
.....	z	250	DP	Salisbury, Md.	—Frank M. Stearns
.....	z	100	DP	Toledo, Ohio	—Community Brcdstg. Co.

1210 kcys. (247.8)

CJCS	ak	50	....	Stratford, Ont.	—M. I. Higgins
CJCU	z	50	....	Aklavik, N.W.T.	—Dr. J. A. Urquhart
CKBI	ak	100	F	Prince Albert, Sask.	—CKBI, Ltd.
CKCH	ak	100	F	Hull, P. Q.	—CKCH Hull Brcdstg. Co., Ltd.
CKMC	ak	50	....	Cobalt, Ont.	—R. L. MacAdam
CMHI	ak	150	....	Santa Clara, Cuba	—Lavis y Paz
KALB	ak	100	....	Alexandria, La.	—Alexandria Brcdstg. Co.
KANS	ak	100	B	Wichita, Kans.	—KANS Brcdstg. Co.
KASA	c	100	M	Elk City, Okla.	—E. M. Woody
KDLR	ak	100	....	Devils Lake, N. D.	—KDLR, Inc.
KDON	z	100	M	Monterrey, Calif.	—Mont. Peninsula Brcdstg. Co.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFJI	ak	100	....	Klamath Falls, Ore.	—KFJI Brcdsters, Inc.
KFOR	ak	100	CM(.25)	Lincoln, Nebr.	—Cornbelt Brcdstg. Corp.
KFPW	ak	100	....	Fort Smith, Ark.	—Southwestern Hotel Co.
KFVS	ak	100	6 (.25)	Cape Girardeau, Mo.	—Hirsch Battery & Radio Co.
KFXM	ak	100	M9	San Bernardino, Cal.	—Lee Bros. Brcd. Co.
KGLO	z	100	C	Mason City, Iowa	—Mason City Globe Gazette
KGY	ak	100	....	Olympia, Wash.	—KGY, Inc.
KHBG	z	100	DP	Okmulgee, Okla.	—Okmulgee Brcdstg. Corp.
KIUL	ak	100	....	Garden City, Kans.	—Garden City Brcdstg. Co.
KLAH	ak	100	....	Carlsbad, N. Mex.	—Carlsbad Brcdstg. Co.
KOCA	z	100	....	Kilgore, Texas	—Oil Capital Brcdstg. Ass'n.
KPFA	z	100	P (.25)	Helena, Mont.	—Peoples Forum of the Air
KPPC	ak	100	9	Pasadena, Calif.	—Pas. Presb. Church
KPRO	ak	100	D	Sacramento, Calif.	—Royal Miller
KVSO	ak	100	M	Ardmore, Okla.	—Ardmoreite Pub. Co.
KWTN	ak	100	....	Watertown, S. Dak.	—Greater Kampeska Radio Corp.
WALR	ak	100	....	Zanesville, Ohio	—WALR Brcdstg. Corp.
WBAX	ak	100	....	Wilkes-Barre, Pa.	—John H. Stenger, Jr.
WBBL	ak	100	S	Richmond, Va.	—Grace Presb. Church
WBLV	ak	100	D	Lima, Ohio	—Herbert Lee Bly
WBRB	ak	100	3	Red Bank, N. J.	—Monmouth Brcdstg. Co.
WCOL	ak	100	N	Columbus, Ohio	—WCOL, Inc.
WCRW	ak	100	4	Chicago, Ill.	—Clinton R. White
WEBR	ak	100	6 (.25)	Harrisburg, Ill.	—Harrisburg Brcdstg. Co.
WEDC	ak	100	4	Chicago, Ill.	—Emil Denemark
WFAS	ak	100	3	White Plains, N. Y.	—Westchester Brcdstg. Corp.
WFAY	z	100	....	St. Augustine, Fla.	—Fountain of Youth Properties
WGBB	ak	100	3	Freeport, N. Y.	—Harry H. Carman
WGCM	ak	100	(.25)	Gulfport, Miss.	—WGCM, Inc.
WGNV	ak	100	3	Newburgh, N. Y.	—Peter Goelet
WHBF	ak	100	(.25)	Rock Island, Ill.	—R. I. Brcdstg. Co.
WHBU	ak	100	(.25)	Anderson, Ind.	—Anderson Brcdstg. Corp.
WIBU	ak	100	(.25)	Poyntette, Wis.	—Wm. C. Forrest
WJBY	ak	100	....	Gadsden, Ala.	—Gadsden Brcdstg. Co.
WJBJ	ak	100	D	Hagerstown, Md.	—Hagerstown Brcdstg. Co.
WJIM	ak	100	(.25)	Lansing, Mich.	—Harold G. Gross
WJTN	ak	100	B (.25)	Jamestown, N. Y.	—James Brcdstg. Co., Inc
WJW	ak	100	(.25)	Akron, Ohio	—WJW, Inc.
WKOK	ak	100	....	Sunbury, Pa.	—Sunbury Brcdstg. Corp.
WLUM	z	100	P (.25)	Middlesboro, Ky.	—Lincoln Mem. University
WMBG	ak	100	RXZ(.25)	Richmond, Va.	—Havens & Martin
WMFC	ak	100	(.25)	Hibbing, Minn.	—Head of the Lakes Brcdstg. Co.
WMFN	ak	100	....	Grenada, Miss.	—P. K. Ewing
WOMT	ak	100	....	Manitowoc, Wis.	—Francis M. Kadow
WPAX	ak	100	D	Thomasville, Ga.	—H. Wimpy
WSAY	z	100	D	Rochester, N. Y.	—Brown Radio Serv.
WSBC	ak	100	4 (.25)	Chicago, Ill.	—WSBC, Inc.
WSIX	ak	100	....	Nashville, Tenn.	—WSIX, Inc.
WSNJ	z	100	DP	Bridgeton, N. J.	—Eastern States Brcdstg. Corp.
WSOC	ak	100	N (.25)	Charlotte, N. C.	—WSOC, Inc.
WTAX	ak	100	....	Springfield, Ill.	—WTAX, Inc.
XEAT	ak	250	....	Parral, Chih.	—Box 90.
XEE	ak	50	....	Durango, Dgo.	—Alejandro Stevens, Jr.
XEFV	ak	100	....	Juarez, Chih.	—Jose Onofre Meza
XETH	ak	100	....	Puebla, Pue.	—Ramon Huerta G.

1220 kcys. (245.8)

CMJE	z	50	....	Camaguey, Cuba	—Manuel Fernandez Hnos.
KFKU	ak	1000	a (5)	Lawrence, Kans.	—University of Kans.
KTMS	z	500	P	Santa Barbara, Cal.	—News Press Pub. Co.
KTW	ak	1000	S2	Seattle, Wash.	—First Presb. Church
KWSC	ak	1000	2 (5)	Pullman, Wash.	—State College of Wash.
WCAD	ak	500	D	Canton, N. Y.	—St. Lawrence University
WCAE	ak	1000	MR (5)	Pittsburgh, Pa.	—WCAE, Inc.
WDAE	ak	1000	C (5)	Tampa, Fla.	—Tampa Times Co.
WREN	ak	1000	Ba(5)	Lawrence, Kans.	—WREN Brcdstg. Co.
XEBL	z	50	....	Mazatlan, Sin.	—Ignacio L. Saiz
XEDA	z	200	....	Gra. Anaya, D. F.	—Augusta Garcia Diaz
XETF	ak	30	....	Veracruz, Ver.	—Jose R. Lopez

1230 kcys. (243.8)

KGBX	ak	500	....	Springfield, Mo.	—Springfield Brcdstg. Co.
KGGM	ak	1000	....	Albuquerque, N. M.	—N. Mex. Brcdstg. Co.
KYA	ak	1000	(5)	San Francisco, Cal.	—Hearst Radio, Inc.
WFBM	ak	1000	C (5)	Indianapolis, Ind.	—Ind. Power & Light Co.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WNAC ak 1000 R (5) Boston, Mass. —Yankee Network, Inc.
 XEFJ ak 100 Monterrey, N. L. —Rodolfo Junco de la Vega

1240 kcys. (241.8)

CJCB ak 1000 F Syndey, N. S. —N. Nathanson
 CMHB z 50 Sancti Spiritus, Cuba —V. E. Weiss y Cia.
 KGCU ak 250 1 Mandan, N. Dak. —Mandan Radio Ass'n.
 KLPK ak 250 1 Minot, N. Dak. —John B. Cooley
 KTAT ak 1000 M Fort Worth, Texas —Tarrant Brdcstg. Co.
 KTFI ak 1000 Twin Falls, Idaho —Radio Brdcstg. Corp.
 WKAQ ak 1000 San Juan, P. R. —Radio Corp. of P. R.
 WXYZ ak 1000 B Detroit, Mich. —King-Trendle Brdcstg. Corp.
 XEAY z 100 Mexico City, D. F. —Fernando Magallanes
 XEKL z 500 Leon, Guan. —Cla. Radio del Bajío
 XELA z 50 Saltillo, Coah. —Enrique Gomez

1250 kcys. (239.9)

CMCK ak 150 Santiago, Cuba —J. A. Saco
 KFOX ak 1000 Long Beach, Calif. —Nichols & Warinner, Inc.
 WAIR ak 250 D Winst.-Salem, N. C. —Radio Station WAIR
 WCAL ah 1000 2 (2.5) Northfield, Minn. —St. Olaf College
 WDSU ak 1000 B New Orleans, La. —WDSU, Inc.
 WHBI ak 1000 a (2.5) Newark, N. J. —May Radio Brdcstg. Corp.
 WLB ak 1000 2 Minneapolis, Minn. —University of Minn.
 WNEW ak 1000 a (2.5) New York, N. Y. —Wodaam Corp.
 WTCN ak 1000 2B (5) Minneapolis, Minn. —Minn. Brdcstg. Corp.
 XEXH z 250 San Luis Pot., S.L.P. —Ayuntamiento S.L.P.

1260 kcys. (238.0)

CMOK z 150 Havana, Cuba —Del Valle, Valdez y Cia.
 KGVO ak 1000 C Missoula, Mont. —Mosby's, Inc.
 KHSL ak 250 Chico, Calif. —Golden Empire Brdcstg. Co.
 KOIL ak 1000 BM(2.5) Omaha, Nebr. —Central States Brdcstg. Co.
 KPAC ak 500 D Port Arthur, Texas —Port Arthur College
 KRGV ak 1000 B Weslaco, Texas —KRGV, Inc.
 KUOA ak 2500 D Siloam Spgs., Ark. —KUOA, Inc.
 KVOA ak 1000 Tucson, Ariz. —Ariz. Brdcstg. Co., Inc.
 WHIO ak 1000 C (5) Dayton, Ohio —Dayton Daily News
 WNBX ak 1000 Springfield, Vt. —WNBX Brdcstg. Corp.
 WTOC ak 1000 C Savannah, Ga. —Savannah Brdcstg. Co.

1270 kcys. (236.1)

CMHD dk 250 Caibarien, Cuba —Manuel Alvarez M.
 KGCA ak 100 2D Decorah, Iowa —Chas. W. Greenley
 KOL ak 1000 C (5) Seattle, Wash. —Seattle Brdcstg. Co.
 KVOR ak 1000 C Colo. Springs, Colo. —Out West Brdcstg. Co.
 KWLC ak 100 2D Decorah, Iowa —Luther College
 WASH ak 500 DaNX Grd. Rpds., Mich. —King-Trendle Brdcstg. Corp.
 WFBR ak 500 R (1) Baltimore, Md. —Balt. Radio Show, Inc.
 WJDX ak 1000 N (2.5) Jackson, Miss. —Lamar Life Insurance Co.
 WOOD ak 500 NaX Gd. Rapids, Mich. —King-Trendle Brdcstg. Corp.
 XEXB ak 50 Jalapa, Ver. —Gobierno del E. de Ver.

1280 kcys. (234.2)

CMCU ak 500 Havana, Cuba —
 CMKO z Holguin, Cuba —
 KFBB ak 1000 C (2.5) Great Falls, Mont. —Buttrey Brdcstg. Co.
 KLS ak 250 Oakland, Calif. —Warner Bros.
 WCAM ak 500 1 Camden, N. J. —City of Camden
 WCAP ak 500 1 Ashbury Park, N. J. —Radio Industries Brdcstg. Co.
 WDDO ak 1000 C (5) Chattanooga, Tenn. —WDDO Brdcstg. Corp.
 WIBA ak 1000 N (5) Madison, Wis. —Badger Brdcstg. Co.
 WORC ak 500 C Worcester, Mass. —Alf. E. Kleindienst
 WRR ak 500 M Dallas, Texas —City of Dallas
 WTNJ ak 500 1 Trenton, N. J. —WOAX, Inc.
 XEMX z 100 Mexico City, D. F. —Alfonso Traslosheros A.

1290 kcys. (232.4)

KDYL ak 1000 RX Salt Lake City, Ut. —Intermountain Brdcstg. Corp.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KLGN	ak	100	D	Blytheville, Ark.	—C. L. Lintzenich
KTRH	ak	1000	C (5)	Houston, Texas	—KTRH Brdcastg. Co.
WBCB	ak	1000	N (5)	Duluth, Minn.	—Head of the Lakes Brdcastg. Co.
WJAS	ak	1000	C (5)	Pittsburgh, Pa.	—Pitt. Radio Supply House
WNBZ	ak	100	D	Saranac Lake, N. Y.	—Smith & Mace
WNEL	ak	1000	(2.5)	San Juan, P. R.	—Juan Piza, Box 1252

1300 keys. (230.6)

KALE	ak	500	C	Portland, Ore.	—KALE, Inc.
KFAC	ak	1000	.....	Los Angeles, Calif.	—L. A. Brdcastg. Co., Inc.
KFHH	ak	1000	C (5)	Wichita, Kans.	—Station KFHH
WBRR	ak	1000	1	Brooklyn, N. Y.	—People's Pulpit Ass'n.
WEVD	ak	1000	1	New York, N. Y.	—Debs Memorial Radio Fund
WFAB	ak	1000	1	New York, N. Y.	—5th Ave. Brdcastg. Corp.
WFBC	ak	1000	N (5)	Greenville, S. C.	—Greenville News-Piedmont Co.
WHAZ	ak	500	X1	Troy, N. Y.	—Rensselaer Polytechnic Inst.
WHBL	ak	250	.....	Sheboygan, Wis.	—Press Pub. Co.
WIOD	ak	1000	N	Miami, Fla.	—Isle of Dreams Brdcastg. Corp.

1310 keys. (228.9)

CHCK	ak	50	.....	Charlottetown, P.E.I.	—Burke & Gesner.
CKKL	ak	100	F	Kirkland Lake, Ont.	—Northern Brdcastg. Co.
CJLS	ak	100	.....	Yarmouth, N. S.	—Laurie L. Smith
CKCV	ak	100	F	Quebec, P. Q.	—CKCV, Ltd.
KAND	z	100	D	Corsicana, Tex.	—Navarro Brdcastg. Ass'n.
KCKN	ak	100	.....	Kansas City, Kans.	—KCKN Brdcastg. Co.
KCRJ	ak	100	DX	Jerome, Ariz.	—Chas. C. Robinson
KFPL	dk	100	(.25)	Dublin, Texas	—C. C. Baxter, Box 176
KFXR	ak	100	(.25)	Oklahoma City, Okla.	—Exchange Ave. Bap. Church
KFWO	ak	100	(.25)	Lubbock, Texas	—Plains Radio Brdcastg. Co.
KGZ	ak	100	.....	Kalispell, Mont.	—Donald C. Treloar
KGEW	ak	100	.....	Keafney, Nebr.	—Cent. Nebr. Brdcastg. Corp.
KHUB	z	250	D	Watsonville, Calif.	—Anna Atkinson
KINY	ak	100	.....	Juneau, Alaska	—Edwin A. Kraft
KIT	ak	100	XZ(.25)	Yakima, Wash.	—Carl E. Haymond
KPDN	ak	100	D	Pampa, Texas	—R. C. Holles
KPRM	ak	100	(.25)	Shreveport, La.	—KRMD, Inc.
KROC	ak	100	.....	Rochester, Minn.	—So. Minn. Brdcastg. Co.
KROA	ak	100	.....	Santa Fe, N. Mex.	—J. Laurance Martin
KRRV	z	250	D	Sherman, Texas	—Red River Valley Brdcastg. Corp.
KSRO	z	250	DP	Santa Rosa, Calif.	—Press-Democrat Pub. Co.
KSUB	z	100	P	Cedar City, Utah	—Johnson & Perry
KTSM	ak	100	(.25)	El Paso, Texas	—Tri-State Brdcastg. Co.
KVOL	ak	100	.....	Lafayette, La.	—Evangeline Brdcastg. Co.
KVOX	z	100	P	Moorhead, Minn.	—Robert K. Herbst
KWOS	z	100	D	Jefferson City, Mo.	—Tribune Ptg. Co.
KXRO	ak	100	.....	Aberdeen, Wash.	—KXRO, Inc.
WAML	ak	100	.....	Laurel, Miss.	—New Laurel Radio Station
WBEO	ak	100	D	Marquette, Mich.	—Lake Superior Brdcastg. Co.
WBOW	ak	100	B (.25)	Terre Haute, Ind.	—Banks of the Wabash, Inc.
WBRE	ak	100	.....	Wilkes-Barre, Pa.	—Louis G. Baltimore
WCLS	ak	100	.....	Joliet, Ill.	—WCLS, Inc.
WCMI	ak	100	(.25)	Ashland, Ky.	—Ashland Brdcastg. Co.
WDAH	ak	100	S (.25)	El Paso, Texas	—Tri-State Brdcastg. Co.
WEBR	ak	100	B (.25)	Buffalo, N. Y.	—WEBR, Inc.
WEMP	ak	100	D	Milwaukee, Wis.	—Milwaukee Brdcastg. Co.
WEXL	ak	50	.....	Royal Oak, Mich.	—Royal Oak Brdcastg. Co.
WFBG	ak	100	3	Altoona, Pa.	—Gable Brdcastg. Co.
WFDF	ak	100	.....	Flint, Mich.	—Flint Brdcastg. Co.
WGHH	z	100	(.25)	Newport News, Va.	—Hampton Roads Brdcastg. Corp.
WGTM	z	100	DP	Wilson, N. C.	—H. W. Wilson and Ben Farmer
WHAT	ak	100	4	Philadelphia, Pa.	—Independence Brdcastg. Co.
WJAC	ak	100	3 (.25)	Johnstown, Pa.	—WJAC, Inc.
WLAK	z	100	.....	Lakeland, Fla.	—Lake Region Brdcastg. Co.
WLBC	ak	100	(.25)	Muncie, Ind.	—Donald A. Burton
WLNH	ak	100	M	Laconia, N. H.	—Northern Brdcastg. Co.
WMBO	ak	100	.....	Auburn, N. Y.	—WMBO, Inc.
WMFF	ak	100	(.25)	Plattsburg, N. Y.	—Plattsburg Brdcastg. Corp.
WNBH	ak	100	M (.25)	New Bedford, Mass.	—E. Anthony & Sons, Inc.
WOL	ak	100	MXZ	Washington, D. C.	—American Brdcastg. Co.
WRWA	ak	100	.....	Reading, Pa.	—Reading Brdcastg. Co.
WRWL	ak	100	B (.25)	Knoxville, Tenn.	—Stuart Brdcastg. Corp.
WSAJ	ak	100	.....	Grove City, Pa.	—Grove City College
WSGN	ak	100	B (.25)	Birmingham, Ala.	—Birmingham News Co.
WSJS	ak	100	C	Winston-Salem, N. C.	—W.-S. Journal Co.
WTAL	ak	100	.....	Tallahassee, Fla.	—Fla. Capital Brdcasters, Inc.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WTEL	c	100	4	Philadelphia, Pa.	—Foulkrod Radio Eng. Co.
WTJS	ak	100	(.25)	Jackson, Tenn.	—Sun Pub. Co., Inc.
WTRC	ak	100	(.25)	Elkhart, Ind.	—Truth Pub. Co., Inc.
XEAG	z	10	.....	Cordoba, Ver.	—Diodora Zuniga
XFCW	ak	10	.....	Mexico City, D. F.	—Ma. Elena Bravo de Cordero
XEFW	ak	250	.....	Tampico, Tams.	—Jose Expedito Martinez
XETB	ak	125	.....	Torreón, Coah.	—P. O. Box 225
XEX	ak	125	.....	Monterrey, N. L.	—L. F. Petit Jean.
.....	z	100	P	Fresno, Calif.	—George Harm
.....	z	100	DP	Lufkin, Texas	—Red Lands Brdctg. Assn.
.....	z	100	P (.25)	Pittsfield, Mass.	—Harold Thomas.

1320 kcys. (227.1)

CMOX	ak	200	.....	Havana, Cuba	—.....
KGHF	am	500	B	Pueblo, Colo.	—Curtis P. Ritchie
KGMB	ak	1000	CM	Honolulu, Hawaii	—Honolulu Brdctg. Co.
KID	ak	500	(1)	Idaho Falls, Idaho	—KID Brdctg. Co.
KRNT	ak	1000	C (5)	Des Moines, Iowa	—Iowa Brdctg. Co.
WADC	ak	1000	C	Akron, Ohio	—Allen T. Simmons
WORK	ak	1000	B	York, Pa.	—York Brdctg. Co.
WSMB	ak	1000	N	New Orleans, La.	—WSMB, Inc.

1330 kcys. (225.4)

CMHK	z	250	.....	Cruces, Cuba	—Virgilio Villanueva
KGB	ak	1000	M	San Diego, Calif.	—Don Lee Brdctg. Sys.
KMO	ak	1000	.....	Tacoma, Wash.	—KMO, Inc.
KRIS	z	500	BP	Corpus Christi, Tex.	—Gulf Coast Brdctg. Co.
KSCJ	ak	1000	C (5)	Sioux City, Iowa	—Sioux City Journal
WDRG	ak	1000	C (5)	Hartford, Conn.	—WDRG, Inc.
WSAI	ak	1000	MR(2.5)	Cincinnati, Ohio	—Crosley Radio Corp.
WTAQ	ak	1000	C	Green Bay, Wis.	—WHBY, Inc.

1340 kcys. (223.7)

CMAB	z	.....	.....	Pinar del Rio, Cuba	—Hotel Ricardo
CMJL	z	75	.....	Camaguey, Cuba	—M. Caymares, Republica 181
KGDY	ak	250	D	Huron, S. Dak.	—Voice of S. Dak., Inc.
KGIR	ak	1000	N (2.5)	Butte, Mont.	—KGIR, Inc.
KGNO	ak	250	.....	Dodge City, Kans.	—Dodge City Brdctg. Co.
WGOA	ak	500	CX	Pensacola, Fla.	—Pensacola Brdctg. Co.
WFEA	ak	500	BM(1)	Manchester, N. H.	—N. H. Brdctg. Co.
WSPD	ak	1000	B (5)	Toledo, Ohio	—The Fort Industry Co.
XEXD	z	350	.....	Jalapa, Ver.	—Gobierno del E. de Ver.
.....	z	500	DP	Dubuque, Iowa	—Telegraph Herald

1350 kcys. (222.1)

CMCA	ak	450	.....	Havana, Cuba	—Testar y Gonzales
CMKW	z	.....	.....	Santiago, Cuba	—Reperto Vista Alegre
KIDO	ak	1000	B (2.5)	Boise, Idaho	—Boise Brdctg. Station
KWK	ak	1000	BM(5)	St. Louis, Mo.	—Thomas Patrick, Inc.
WAWZ	ak	500	1 (1)	Zarephath, N. J.	—Pillar of Fire
WBNX	ak	1000	1	New York, N. Y.	—WBNX Brdctg. Co.

1360 kcys. (220.4)

CMJH	dk	50	.....	Ciego de Avila, Cuba	—Luis Maraauri H.
KCRC	ak	250	M	Enid, Okla.	—Enid Radiophone Co.
KGER	ak	1000	.....	Long Beach, Calif.	—Consolidated Brdc. Corp.
WCSC	ak	500	N (1)	Charleston, S. C.	—S. C. Brdctg. Co.
WFBL	ak	1000	C (5)	Syracuse, N. Y.	—Onondaga Radio Brdctg. Corp.
WGES	ak	500	1 (1)	Chicago, Ill.	—Oak Leaves Brdctg. Sta.
WQBC	ak	1000	D	Vicksburg, Miss.	—Delta Brdctg. Co., Inc.
WSBT	ak	500	1	South Bend, Ind.	—South Bend Tribune

1370 kcys. (218.8)

CKCW	ak	100	F	Moncton, N. B.	—Moncton Brdctg. Co.
CMGE	ak	150	.....	Cardenas, Cuba	—Genaro Sebater
KAST	ak	100	D	Astoria, Ore.	—Astoria Brdctg. Co.
KCMO	ak	100	.....	Kansas City, Mo.	—KCMO Brdctg. Co.
KEEN	ak	100	1	Seattle, Wash.	—KVL, Inc.
KELD	z	100	.....	El Dorado, Ark.	—Radio Enterprises, Inc.
KERN	ak	100	B	Bakersfield, Calif.	—McClatchey Brdctg. Co.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFGO	ak	100	D	Boone, Iowa	—Boone Biblical College
KFJZ	ak	100	(.25)	Fort Worth, Texas	—Pt. Worth Brdcasters, Inc.
KFRO	ak	250	D	Longview, Texas	—Voice of Longview
KGAR	ak	100	(.25)	Tucson, Arizona	—Tucson Motor Service
KGFL	ak	100	4	Roswell, N. Mex.	—KGFL, Inc.
KGKL	ak	100	(.25)	San Angelo, Texas	—KGKL, Inc.
KICA	ak	100	4	Clovis, N. Mex.	—Western Brdcasters., Inc.
KIUP	ak	100	.....	Durango, Colo.	—San Juan Brdcastg. Co.
KLUF	ak	100	.....	Galveston, Texas	—Geo. R. Clough
KMAC	ak	100	5 (.25)	San Antonio, Tex.	—W. W. McAllister
KOBH	ak	100	.....	Rapid City, S. Dak.	—Black Hills Brdcastg. Co.
KOKO	z	100	P	La Junta, Colo.	—Southwest Brdcastg. Co.
KONO	ak	100	5	San Antonio, Tex.	—Mission Brdcastg. Co.
KRE	ak	100	(.25)	Berkeley, Calif.	—Cent. Calif. Brdcs., Inc.
KRKO	ak	50	1	Everett, Wash.	—Lee Mudgett
KRMC	z	100	(.25)	Jamestown, N. D.	—Roberts McNab Co.
KSLM	ak	100	.....	Salem, Ore.	—Oregon Radio, Inc.
KTEM	z	250	D	Temple, Texas	—Bell Brdcastg. Co.
KTOK	bk	100	M	Oklahoma City, Ok.	—Okla. Brdcastg. Co.
KUJ	ak	100	.....	Walla Walla, Wash.	—KUJ, Inc.
KVGB	z	100	.....	Great Bend, Kans.	—Ernest Edward Ruehlen
KWYO	ak	100	(.25)	Sheridan, Wyo.	—Big Horn Brdcastg. Co.
WABY	ak	100	B	Albany, N. Y.	—Adirondack Brdcastg. Co.
WAGF	ak	250	D	Dothan, Ala.	—Dothan Brdcastg. Co.
WATL	ak	100	(.25)	Atlanta, Ga.	—Atlanta Brdcastg. Co.
WBLK	ak	100	D	Clarksburg, W. Va.	—The Exponent Corp.
WBNY	ak	100	2 (.25)	Buffalo, N. Y.	—Roy L. Albertson
WBTM	ak	100	(.25)	Danville, Va.	—Piedmont Brdcastg. Corp.
WGBM	ak	100	(.25)	Baltimore, Md.	—Baltimore, Brdcastg. Co.
WDAS	ak	100	(.25)	Philadelphia, Pa.	—WDAS Brdcastg. Station, Inc.
WDWS	ak	100	D	Champaign, Ill.	—Champ. News-Gazette, Inc.
WEOA	z	100	(.25)	Evansville, Ind.	—Evans. on the Air, Inc.
WFOR	ak	100	.....	Hattiesburg, Miss.	—Forrest Brdcastg. Co.
WGL	ak	100	.....	Fort Wayne, Ind.	—Westinghouse Radio Sta., Inc.
WGRC	ak	250	D	New Albany, Ind.	—North Side Brdcastg. Corp.
WHBO	ak	100	.....	Memphis, Tenn.	—WHBO, Inc.
WHDF	ak	100	(.25)	Calumet, Mich.	—Upper Mich. Brdcastg. Corp.
WHLB	ak	100	.....	Virginia, Minn.	—Head of the Lakes Brdcastg. Co.
WIBM	ak	100	(.25)	Jackson, Mich.	—WIBM, Inc.
WLLH	ak	100	MSy(.25)	Lowell, Mass.	—Merrimac Brdcastg. Co.
WMBR	ak	100	C (.25)	Jacksonville, Fla.	—Fla. Brdcastg. Co.
WMFD	ak	100	D	Wilmington, N. C.	—Richard A. Dunlea
WMFO	ak	100	D	Decatur, Ala.	—James R. Doss, Jr.
WMIN	ak	100	(.25)	St. Paul, Minn.	—WMIN Brdcastg. Co.
WOC	ak	100	C (.25)	Davenport, Iowa	—Tri-City Brdcastg. Co.
WPAY	ak	100	.....	Portsmouth, Ohio	—Yeehee Corp.
WPRA	z	100	(.25) P	Mayaguez, P. R.	—P. R. Advertising Co.
WRAK	ak	100	(.25)	Williamsport, Pa.	—WRAK, Inc.
WRDO	ak	100	M	Augusta, Maine	—WRDO, Inc.
WRJN	ak	100	(.25)	Racine, Wis.	—Racine Brdcastg. Corp.
WSAU	z	100	D	Wausau, Wis.	—Northern Brdcastg. Co.
WSVS	ak	50	2D	Buffalo, N. Y.	—Seneca Voc. High School
XECZ	z	100	.....	San L. Pot., S.L.P.	—Zeferino Z. Jimenez
XEI	ak	125	.....	Morelia, Mich.	—Carlos Gutierrez M.
XELZ	z	100	.....	Mexico City, D. F.	—Aureliano Mirabel
.....	z	10-100	SyP	Lawrence, Mass.	—Merrimac Brdcastg. Co.

1380 keys. (217.3)

KOH	ak	500	C	Reno, Nevada	—The Bee, Inc.
KQV	ak	500	C1	Pittsburgh, Pa.	—KQV Brdcastg. Co.
WALA	ak	500	C (1)	Mobile, Ala.	—Pape Brdcastg. Co.
WKBH	ak	100	C	La Crosse, Wis.	—WKBH, Inc.
WNBC	ak	250	D	New Britain, Conn.	—State Brdcastg. Corp.
WSMK	ak	200	C1	Dayton, Ohio	—WSMK, Inc.

1390 keys. (215.7)

CJGJ	ak	100	F	Yorkton, Sask.	—J. Richardson & Sons, Ltd.
CMJC	z	150	.....	Camaguey, Cuba	—Felix Sanchez
KLRA	ak	1000	C (5)	Little Rock, Ark.	—Ark. Brdcastg. Co.
KOY	ak	1000	C	Phoenix, Ariz.	—Salt River Brdcastg. Co.
KRLC	ak	250	.....	Lewiston, Idaho	—H. E. Studebaker
WHK	ak	1000	C (2.5)	Cleveland, Ohio	—Radio Air Corp.
WQDM	dk	1000	D	St. Albans, Vt.	—Regan & Bostwick

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1400 kcs. (214.2)

CMGC	ad	150	....	Matanzas, Cuba
CKKR	z	100	....	Santiago, Cuba
KHBC	ak	250	CM	Hilo, T. H.
KLO	ak	500	B	Ogden, Utah
KTUL	ak	500	C (1)	Tulsa, Okla.
WBBC	ak	500	2 (1)	Brooklyn, N. Y.
WHDL	ak	250	D	Olean, N. Y.
WIRE	ak	1000	MR (5)	Indianapolis, Ind.
WFWF	ak	500	2	Brooklyn, N. Y.

- Oscar Mechoso
- Jaime Nadal
- Honolulu Brdcastg. Co., Ltd.
- Interstate Brdcastg. Corp.
- Tulsa Brdcastg. Co., Inc.
- Brooklyn Brdcastg. Corp.
- WHDL, Inc.
- Indianapolis Brdcastg., Inc
- Paramount Brdcastg. Co.

1410 kcs. (212.6)

CKFC	ak	50	5	Vancouver, B. C.
CKMO	ak	100	5F	Vancouver, B. C.
CMCO	ak	250	....	Havana, Cuba
KFJM	ak	500	(1)	Grand Forks, N. D.
KGNC	ak	1000	(2.5) B	Amarillo, Texas
KMED	ck	250	....	Medford, Ore.
WAAB	ak	500	M (1)	Boston, Mass.
WBCM	ak	500	X	Bay City, Mich.
WHIS	ak	500	(1)	Bluefield, W. Va.
WROK	ak	500	(1)	Rockford, Ill.
WSFA	ak	500	C (1)	Montgomery, Ala.

- Standard Brdcastg. System, Ltd.
- British Columbia Brdcastg., Ltd.
- Calle Vista Alegre 90
- University of N. Dak.
- Plains Radio Brdcastg. Co.
- Mrs. W. J. Virgin
- Yankee Network, Inc.
- James E. Davidson
- Daily Telegraph Ptg. Co.
- Rockford Broadcasters, Inc.
- Montgomery Brdcastg. Co., Inc.

1420 kcs. (211.1)

CKGB	ak	100	F	Timmins, Ont.
CRCY	ak	100	F	Toronto, Ont.
KABC	ak	100	(.25)	San Antonio, Texas
KABR	ak	100	....	Aberdeen, S. D.
KATE	z	250	DP	Albert Lea, Minn.
KBPS	ak	100	4	Portland, Ore.
KCMC	ak	100	(.25)	Texarkana, Tex.
KEUB	ak	100	....	Price, Utah
KFIZ	ak	100	....	Fond du Lac, Wis.
KGFF	ak	100	(.25) M	Shawnee, Okla.
WGCG	ak	100	....	San Francisco, Cal.
KGIV	ak	100	1	Alamosa, Colo.
KIDW	ak	100	1	Lamar, Colo.
KIUN	ak	100	....	Pecos, Texas
KLBM	z	100	(.25) P	La Grande, Ore.
KNET	z	100	D	Palestine, Texas
KORE	ak	100	....	Eugene, Ore.
KRBC	ak	100	(.25)	Abilene, Texas
KRLH	z	100	D	Midland, Texas
KUMA	ak	100	....	Yuma, Ariz.
KWBG	ak	100	....	Hutchinson, Kans.
KXL	ak	100	4 (.25)	Portland, Ore.
WACO	ak	100	C	Waco, Texas
WAGM	ak	100	....	Presque Isle, Me.
WAPO	ak	100	D	Chattanooga, Tenn.
WAZL	ak	100	2	Hazleton, Pa.
WCBS	ak	100	....	Springfield, Ill.
WCIV	ak	100	3 (.25)	Charlottesville, Va.
WEED	ak	100	3 (.25)	Rocky Mount, N. C.
WELL	ak	100	....	Battle Creek, Mich.
WGPC	ak	100	....	Albany, Ga.
WHFC	ak	100	(.25)	Cicero, Ill.
WILM	aj	100	2	Wilmington, Del.
WJBO	ak	100	BXZ	Baton Rouge, La.
WJBR	z	100	P	Gastonia, N. C.
WJMS	ak	100	....	Ironwood, Mich.
WLAP	ak	100	(.25)	Lexington, Ky.
WLEU	ak	100	(.25) B	Erie, Pa.
WMAS	ak	100	C (.25)	Springfield, Mass.
WMBC	ak	100	(.25)	Detroit, Mich.
WMBH	ak	100	(.25)	Joplin, Mo.
WMSB	z	250	DP	Uniontown, Pa.
WMFJ	ak	100	....	Daytona Bch., Fla.
WMSD	ak	100	....	Sheffield, Ala.
WNNY	z	100	(.25) P	Watertown, N. Y.
WPAD	ak	100	(.25)	Paducah, Ky.
WPAR	ak	100	C	Parkersburg, W. V.

- Northern Brdcastg. Co., Ltd.
- Canadian Brdcastg. Corp.
- Alamo Brdcastg. Co., Inc.
- Aberdeen Brdcastg. Co.
- Albert Lea Brdcastg. Corp.
- Benson Polytechnic School
- KCMC, Inc.
- Eastern Utah Brdcastg. Co.
- Reporter Printing Co.
- KGFF, Inc.
- Golden Gate Brdcastg. Co.
- Leonard E. Wilson
- Southwest Brdcastg. Co.
- J. H. Hawkins & B. H. Tubbs
- Harold M. Finley
- Palestine Brdcastg. Ass'n.
- Eugene Brdcastg. Station
- Reporter Brdcastg. Co.
- Clarence Scharbaur
- Dr. A. H. Schermann
- W. N. Greenwald
- KXL Broadcasters
- K TSA Brdcastg. Co.
- Aroostook Brdcastg. Corp.
- W. A. Patterson
- Hazleton Brdcastg. Serv., Inc.
- WCBS, Inc.
- Community Brdcastg. Corp.
- Wm. Averá Wynne, Box 221
- Equiuer News Co.
- Americus Brdcastg. Corp.
- WHFC, Inc., 6138 Cermak Rd.
- Delaware Brdcastg. Corp.
- Baton Rouge Brdcastg. Co., Inc.
- J. B. Roberts
- WJMS, Inc., St. James Hotel
- American Brdcastg. Corp.
- Leo J. Omelian, Commerce Bldg.
- WMAS, Inc., Hotel Stonehaven
- Michigan Brdcastg. Co.
- Joplin Brdcastg. Co.
- Fayette Brdcastg. Corp.
- W. W. Esch
- Muscle Shoals Brdcastg. Corp.
- Black River Valley Broadcasts, Inc.
- Paducah Brdcastg. Co., Inc.
- Ohio Valley Brdcastg. Corp.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

<p>WPRP z 100 (.25) Ponce, Puerto Rico z 100 (.25) P Sioux City, Iowa</p>	<p>—Julio M. Conesa —Sioux City Brdctg. Co.</p>
<h3>1430 keys. (209.7) </h3>	
<p>CMJP ak 75 Moron, Cuba KECA ak 1000 (5) B Los Angeles, Cal. KGNF ak 1000 D North Platte, Neb. KSO ak 500 BM(2.5) Des Moines, Iowa WBNS ak 500 C(1) Columbus, Ohio WHEC ak 500 C(1) Rochester, N. Y. WHP ak 500 C(1) Harrisburg, Pa. WNBR ak 500 (1) B Memphis, Tenn. WOKO ak 500 C(1) Albany, N. Y.</p>	<p>—Cesar Canall, Callejas 80 —E. C. Anthony, Inc. —Great Plains Brdctg. Co. —Iowa Brdctg. Co. —WBNS, Inc., 33 N. High St. —WHEC, Inc., 40 Franklin St. —WHP, Inc., 216 Locust St. —Memphis Commercial Appeal —WOKO, Inc., Hotel Ten Eyck</p>
<h3>1440 keys. (208.2) </h3>	
<p>CMOA z 150 Havana, Cuba KDFN ak 500 Casper, Wyo. KXYZ ak 1000 B Houston, Texas WBIG ak 1000 C Greensboro, N. C. WCBA aj 500 a Allentown, Pa. WMBD ak 500 C(1)X Peoria, Ill. WSAN aj 500 Ba Allentown, Pa. XEFI ak 250 Chihuahua, Chih. z 500 P Centralia, Wash.</p>	<p>—Juan Fernandez Duran —Donald Lewis Hathaway —Harris County Brdctg. Co. —N. C. Brdctg. Co., Inc. —B. B. Musselman —Peoria Brdctg. Co. —WSAN, Inc., 39 Tenth St. —Feliciano Lopez Isles —Central Brdctg. Corp.</p>
<h3>1450 keys. (206.8) </h3>	
<p>CFCT ak 50 Victoria, B. C. CHGS ak 50 F Summerside, P.E.I. CMHM z 100 Cienfuegos, Cuba KG CX ak 1000 Wolf Point, Mont. KIEM ak 500 Eureka, Calif. KTBS ak 1000 N Shreveport, La. WGAR ak 500 MB(1) Cleveland, Ohio WHOM ak 250 Jersey City, N. J. W SAR ak 1000 M Fall River, Mass. WTFI ak 500 B Atlanta, Ga. XEF ak 100 Juarez, Chih.</p>	<p>—Victoria Brdctg. Assn. —R. T. Holman, Ltd. —Hotel Union —E. E. Krebsbach —Redwood Brdctg. Co., Inc. —Tri-State Brdctg. System, Inc. —WGAR Brdctg. Co. —New Jersey Brdctg. Corp. —Doughty & Welch Elec. Co., Inc. —Liberty Brdctg. Co. —Box 70</p>
<h3>1460 keys. (205.4) </h3>	
<p>CMKF z 250 Holguin, Cuba KSTP ak 1000 R(25) St. Paul, Minn. WJSV ak 1000 C Washington, D. C.</p>	<p>—Manuel J. DeGongora —National Battery Brdctg. Co. —Columbia Brdctg. System</p>
<h3>1470 keys. (204.0) </h3>	
<p>KGA ak 5000 B Spokane, Wash. WLAC ak 5000 C Nashville, Tenn.</p>	<p>—Louis Wasmer —WLAC, Inc.</p>
<h3>1480 keys. (202.6) </h3>	
<p>KOMA ak 5000 CP Oklahoma City, Ok. WHIP z 5000 DP Hammond, Ind. WKBW ak 5000 C Buffalo, N. Y.</p>	<p>—Hearst Radio, Inc. —Hammond-Calumet Brdctg. Corp. —Buffalo Brdctg. Corp.</p>
<h3>1490 keys. (201.2) </h3>	
<p>KFBK ak 5000 N Sacramento, Calif. WCKY ak 5000 BX Covington, Ky.</p>	<p>—McClatchey Brdctg. Co. —L. B. Wilson, Inc.</p>
<h3>1500 keys. (199.9) </h3>	
<p>CJIC ak 100 S. S. Marie, Ont. KAWM z 100 Gallup, N. Mex. KBIX ak 100 M Muskogee, Okla. KBST z 100 Big Spring, Texas KDAL ak 100 Duluth, Minn. KDB ak 100 M(.25) Santa Barbara, Cal. KGFI ak 100 Y(.25) Corp. Christi, Tex. KGKB ak 100 (.25) Tyler, Texas KGKY ak 100 (.25) Scottsbluff, Neb.</p>	<p>—Hyland & Whitby —A. W. Mille —Muskogee Press —Big Spring Herald Brdctg. Co. —Red River Brdctg. Co., Inc. —Santa Barbara Brdcters., Ltd. —Eagle Brdctg. Co., Inc. —East Texas Brdctg. Co. —Hilliard Co., Inc.</p>

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KNEL	ak	250	D	Brady, Texas	—G. L. Burns, Box 1077
KNOW	ak	100	C	Austin, Texas	—KUT Brdcstg. Co.
KOTN	ak	100	D	Pine Bluff, Ark.	—Universal Brdcstg. Corp.
KOVC	ak	100		Valley City, N. D.	—KOVC, Inc.
KPLC	ak	100	(.25)	Lake Charles, La.	—Calcasieu Brdcstg. Co.
KPLT	z	250	D	Paris, Texas	—North Texas Brdcstg. Co.
KPQ	ak	100	(.25)	Wenatchee, Wash.	—Westcoast Brdcstg. Co.
KRNR	ak	100	(.25)	Roseburg, Ore.	—News-Review Co.
KROD	ak	100	P	El Paso, Texas	—Dorrence D. Roderick
KSAL	ak	100	(.25)	Salina, Kans.	—R. J. Laubengayer
KUTA	z	100	P	Salt Lake City, Ut.	—Utah Broadcasting Co.
KVOE	ak	100	M	Santa Ana, Calif.	—Voice of Orange Empire, Ltd.
KXO	ak	100		El Centro, Calif.	—F. M. Bowles, Box 140
WCNW	ak	100	1 (.25)	Brooklyn, N. Y.	—Arthur Faske
WDNC	ak	100	C	Durham, N. C.	—Durham Radio Corp.
WGAL	ak	100	(.25)	Lancaster, Pa.	—WGAL, Inc., 8 W. King St.
WHBB	ak	100		Selma, Ala.	—Selma Brdcstg. Co., Inc.
WHEF	ak	100	(.25)	Kosciusko, Miss.	—Attala Brdcstg. Corp.
WJBK	ak	100	(.25)	Detroit, Mich.	—Jas. F. Hopkins, Inc.
WKAT	z	100	P	Miami Beach, Fla.	—A. Frank Katzentine
WKBB	ak	100	(.25)	E. Dubuque, Ill.	—Sanders Bros., Hotel Julian
WKBY	ak	100	(.25)	Richmond, Ind.	—Knox Radio Corp.
WKBZ	ak	100	(.25)	Muskegon, Mich.	—Karl L. Ashbacher
WKUE	ak	100	D	Griffin, Ga.	—Station WKUE
WMBQ	ak	100	1	Brooklyn, N. Y.	—Metropolitan Brdcstg. Corp.
WMEX	ak	100	(.25)	Boston, Mass.	—The Northern Corp.
WNBF	ak	100	C(.25)	Binghamton, N. Y.	—Howitt-Wood Radio Co.
WNLC	ak	100	D	New London, Conn.	—Thames Brdcstg. Corp.
WOMI	z	100	P	Owensboro, Ky.	—Owensboro Brdcstg. Co.
WOPI	ak	100		Bristol, Tenn.	—Radiophone Station WOPI
WRDW	ak	100		Augusta, Ga.	—Augusta Brdcstg. Co., Inc.
WRGA	ak	100	(.25)	Rome, Ga.	—Rome Brdcstg. Corp.
WRTD	z	100	BP	Richmond, Va.	—Times Dispatch Pub. Co.
WSYB	ak	100		Rutland, Vt.	—Phillip Weiss Music Co.
WTMV	ak	100	(.25)	E. St. Louis, Ill.	—Miss. Valley Brdcstg. Co.
WWRL	ak	100	1 (.25)	Woodside, N. Y.	—Long Isl. Brdcstg. Co.
WWSW	ak	100	(.25)	Pittsburgh, Pa.	—Walker & Downing Radio Corp.

1510 keys. (198.6)

CFRC	ak	100	F	Kingston, Ont.	—Queen's University
CKCR	ak	100		Waterloo, Ont.	—K. W. Brdcstg. Co.

1530 keys. (196.0)

KXBY	ak	1000	.....	Kansas City, Mo.	—First Natl. Television Inc.
WBRY	ak	1000	M	Waterbury, Conn.	—American Republican, Inc.

1550 keys. (193.4)

KPMC	ak	1000	M	Bakersfield, Calif.	—Pioneer Mercantile Co.
WQXR	ak	1000		New York, N. Y.	—Interstate Brdcstg. Co.

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			Montgomery		Ketchikan		Yuma	
			WSFA	1410 500 C	KGBU	900 500	KUMA	1420 100
Birmingham								
WAPI	1140	5000 N						
WBRC	930	1000 C						
WSGN	1310	100 B						
Decatur								
WMFO	1370	100						
Dothan								
WAGF	1370	250						
Gadsden								
WJBY	1210	100						
Huntsville								
WBHP	1200	100						
Mobile								
WALA	1380	500 C						
Selma								
WHBB	1500	100'						
Sheffield								
WMSD	1420	100						
Tuscaloosa								
WJRD	1200	100						
ALASKA								
Anchorage								
KFOD	780	250						
Juneau								
KINY	1310	100						
ARIZONA								
Jerome								
KCRJ	1310	100						
Lowell								
KSUN	1200	100						
Phoenix								
KOY	1390	1000 C						
KTAR	620	1000 N						
Tucson								
KGAR	1370	100						
KVOA	1260	1000						
ARKANSAS								
Blytheville								
KLGN	1290	100						
El Dorado								
KELD	1370	100						
Fort Smith								
KFPW	1210	100						
Hot Springs								
KTHS	1060	10000 N						
Jonesboro								
KBTM	1200	100						

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Little Rock
KARK 890 500 B
KGHI 1200 100
KLRH 1390 1000 C
Pine Bluff
KOTN 1500 100
Siloam Springs
KUOA 1260 2500

CALIFORNIA

Bakersfield
KERN 1370 100 B
KPMC 1550 1000M
Berkeley
KRE 1370 100
Beverly Hills
KMPC 710 500
Chico
KHSL 1260 250
El Centro
KXO 1500 100
Eureka
KIEM 1450 500
Fresno
KMJ 580 1000 N
1310 100
Glendale
KIEV 850 250
Hollywood
KFWB 950 1000
Long Beach
KFOX 1250 1000
KGER 1360 1000
Los Angeles
KECA 1430 1000 B
KEHE 780 1000
KFAC 1300 1000
KFI 640 50000 R
KFSG 1120 500
KFVD 1000 1000
KGFJ 1200 100
KHJ 900 1000M
KMTR 570 1000
KNX 1050 50000 C
KRKD 1120 500
Merced
KYOS 1040 250
Modesto
KTRB 740 250
Monterrey
KDON 1210 100M
Oakland
KLS 1280 250
KLX 880 1000
KROW 930 1000
Pasadena
KPPC 1210 100
Redding
KVCV 1200 100
Sacramento
KFBK 1490 5000 N
KROY 1210 100
San Bernardino
KFXM 1210 100M
San Diego
KFSD 600 1000 B
KGB 1330 1000M
San Francisco
KFRC 610 1000M
KGGC 1420 100
KGO 790 7500 B
KJBS 1070 500
KPO 680 50000 R
KSFO 560 1000 C
KYA 1230 1000
San Jose
KQW 1010 1000

San Luis Obispo
KVEC 1200 250
Santa Ana
KVOE 1500 100M
Santa Barbara
KDB 1500 100M
KTMS 1220 500
Santa Rosa
KSRO 1310 250
Stockton
KGDH 1100 1000M
KWG 1200 100 N
Visalia
KTKC 1190 250
Watsonville
KHUB 1310 250

COLORADO

Alamosa
KGIW 1420 100
Colorado Springs
KVOR 1270 1000 C
Denver
KFEL 920 500M
KLZ 560 1000 C
KOA 830 50000 N
KPOF 880 500
KQOD 920 500 B
Durango
KIUP 1370 100
Grand Junction
KFJX 1200 100
Greeley
KFKA 880 500M
La Junta
KOKO 1370 100
Lamar
KIDW 1420 100
Pueblo
KGHF 1320 500 B
Sterling
KGEK 1200 100

CONNECTICUT

Bridgeport
WICC 600 500M
Hartford
WDRG 1330 1000 C
WTIC 1040 50000 R
WTHT 1200 100M
New Britain
WNBC 1380 250
New Haven
WELI 900 500
New London
WNLC 1500 100
Waterbury
WATR 1190 100
WBRY 1530 1000M

DELAWARE

Wilmington
WDEL 1120 250 R
WILM 1420 100

DISTRICT OF COLUMBIA

Washington
WJSV 1460 10000 C
WMAL 630 250 B
WOL 1310 100M
WRC 950 500 R

FLORIDA

Clearwater
WFLA 620 1000 N
Daytona Beach
WMFJ 1420 100
Gainesville
WRUF 830 5000
Jacksonville
WJAX 900 1000 N
WMBR 1370 100 C
Lakeland
WLAK 1310 100
Miami
WIOD 1300 1000 N
WQAM 560 1000 C
Miami Beach
WKAT 1500 100
Orlando
WDBO 580 1000 C
Pensacola
WCOA 1340 500 C
St. Augustine
WFOY 1210 100
St. Petersburg
WSUN 620 1000 N
Tallahassee
WTAL 1310 100
Tampa
WDAE 1220 1000 C
West Palm Beach
WJNO 1200 100 C

GEORGIA

Albany
WGPC 1420 100
Atlanta
WATL 1370 100
WGST 890 1000 C
WSB 740 50000 N
WTFI 1450 500
Augusta
WRDWA 1500 100
Columbus
WRBL 1200 100
Griffin
WKEU 1500 100
Macon
WMAZ 1180 1000 C
Rome
WRGA 1500 100
Savannah
WTOC 1260 1000 C
Thomasville
WPAX 1210 100
Waycross
WAYX 1200 100

HAWAII

Hilo
KHBC 1400 250M
Honolulu
KGMH 1320 1000 C
KGU 750 2500 N

IDAHO

Boise
KIDO 1350 1000 B
Idaho Falls
KID 1320 500
Lewiston
KRLC 1390 250

Nampa

KFXD 1200 100
Pocatello
KSEI 900 250
Twin Falls
KTFI 1240 1000

ILLINOIS

Bloomington
WJBC 1200 100
Carthage
WCAZ 1070 100
Champaign
WDWS 1370 100
Chicago
WAAF 920 1000
WBBM 770 50000 C
WCBN 1080 5000
WCFL 970 5000 B
WCRW 1210 100
WEDC 1210 100
WENR 870 50000 B
WGES 1360 500
WGN 720 50000M
WJDD 1130 20000
WLS 870 50000 N
WMAQ 670 50000 R
WMBI 1080 5000
WWSB 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 500 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 1480 1000

INDIANA

Anderson
W11BU 1210 100
Elkhart
WTRC 1310 100
Evansville
WEAO 1370 100
WGBF 630 500 B
Fort Wayne
WGL 1370 100
WOWO 1160 10000 B
Gary
WIND 560 1000
Hammond
WHIP 1480 5000
WWAE 1200 100

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p align="center">Indianapolis</p> WFBM 1230 1000 C WQVA 1050 1000 WIRE 1400 1000 R <p align="center">Muncie</p> WLBC 1310 100 <p align="center">New Albany</p> WGRG 1370 250 <p align="center">Richmond</p> WKBY 1500 100 <p align="center">South Bend</p> WFAM 1200 100 WSBT 1360 500 <p align="center">Terre Haute</p> WBOW 1310 100 B <p align="center">West Lafayette</p> WBAA 890 500	<p align="center">Wichita</p> KANS 1210 100 B KFHF 1300 1000 C <p align="center">KENTUCKY</p> <p align="center">Ashland</p> WCM1 1310 100 <p align="center">Covington</p> WCKY 1490 5000 B <p align="center">Lexington</p> WLAP 1420 100 <p align="center">Louisville</p> WAVE 940 1000 N WHAS 820 50000 C <p align="center">Middlesboro</p> WLMU 1210 100 <p align="center">Owensboro</p> WOM1 1500 100 <p align="center">Paducah</p> WPAD 1420 100 <p align="center">LOUISIANA</p> <p align="center">Alexandria</p> KALB 1210 100 <p align="center">Baton Rouge</p> WJBO 1420 100 B <p align="center">Lafayette</p> KVOL 1310 100 <p align="center">Lake Charles</p> KPLC 1500 100 <p align="center">Monroe</p> KMLB 1200 100 <p align="center">New Orleans</p> WBNO 1200 100 WDSU 1250 1000 B WJWB 1200 100 WSMB 1320 1000 N WWL 850 10000 C <p align="center">Shreveport</p> KRMD 1310 100 KTBS 1450 1000 N KWKH 1100 10000 C <p align="center">MAINE</p> <p align="center">Augusta</p> WRDO 1370 100M <p align="center">Bangor</p> WABI 1200 100 WLBZ 620 500 C <p align="center">Portland</p> WCSH 940 1000 R WGAN 640 500 <p align="center">Presque Isle</p> WAGM 1420 100 <p align="center">MARYLAND</p> <p align="center">Baltimore</p> WBAL 760 2500 B WBAL 1060 10000 B WCAO 600 500 C WCBM 1370 100 WFBR 1270 500 R <p align="center">College Park</p> W3XJ 1060 100 <p align="center">Cumberland</p> WTBO 800 250 <p align="center">Frederick</p> WFMD 900 500 <p align="center">Hagerstown</p> WJEF 1210 100 <p align="center">Salisbury</p> 1200 250	<p align="center">MASSACHUSETTS</p> <p align="center">Boston</p> WAAB 1410 500M WBZ 990 50000 B WCOP 1120 500 WEEI 590 1000 C WHDH 830 1000 WMEX 1500 100 WNAC 1230 1000 R WORL 920 500 <p align="center">Fall River</p> WSAR 1450 1000M <p align="center">Lawrenceville</p> 680 1000 1370 10-100 <p align="center">Lowell</p> WLLH 1370 100M <p align="center">New Bedford</p> WNBH 1310 100M <p align="center">Pittsfield</p> 1310 100 <p align="center">Springfield</p> WBZA 990 1000 B WMAS 1420 100 C WSPR 1140 500M <p align="center">Worcester</p> WORC 1280 500 C WTAG 580 1000 R <p align="center">MICHIGAN</p> <p align="center">Battle Creek</p> WELL 1420 100 <p align="center">Bay City</p> WBCM 1410 500 <p align="center">Calumet</p> WHDF 1370 100 <p align="center">Detroit</p> WJBK 1500 100 WJR 750 50000 C WMBC 1420 100 WWJ 920 5000 R WXYZ 1240 1000 B <p align="center">East Lansing</p> WKAR 850 1000 <p align="center">Flint</p> WFDF 1310 100 <p align="center">Grand Rapids</p> WASH 1270 500 N WOOD 1270 500 N <p align="center">Ironwood</p> WJMS 1420 100 <p align="center">Jackson</p> WIBM 1370 100 <p align="center">Kalamazoo</p> WKZO 590 1000 B <p align="center">Lansing</p> WJIM 1210 100 <p align="center">Lapeer</p> WMPK 1200 100 <p align="center">Marquette</p> WBEO 1310 100 <p align="center">Muskegon</p> WKBZ 1500 100 <p align="center">Royal Oak</p> WEXL 1310 50 <p align="center">Saginaw</p> WHAL 950 500 <p align="center">MINNESOTA</p> <p align="center">Albert Lea</p> KATE 1420 250 <p align="center">Duluth</p> KDAL 1500 100 WEBC 1290 1000 N	<p align="center">Fergus Falls</p> KGDE 1200 100 <p align="center">Hibbing</p> WMFG 1210 100 <p align="center">Minneapolis</p> WCCO 810 50000 C WDGY 1180 1000 WLB 1250 1000 WTCN 1250 1000 B <p align="center">Moorhead</p> KVOX 1310 100 <p align="center">Northfield</p> WCAL 1250 1000 <p align="center">Rochester</p> KRCC 1310 100 <p align="center">St. Cloud</p> 1420 100 <p align="center">St. Paul</p> KSTP 1460 10000 R WMIN 1370 100 <p align="center">Virginia</p> WHLB 1370 100 <p align="center">Winona</p> KWNO 1200 100 <p align="center">MISSISSIPPI</p> <p align="center">Grenada</p> WMFN 1210 100 <p align="center">Gulfport</p> WGCM 1210 100 <p align="center">Hattiesburg</p> WFOR 1370 100 <p align="center">Jackson</p> WJDX 1270 1000 N <p align="center">Kosciusko</p> WHEF 1500 100 <p align="center">Laurel</p> WAML 1310 100 <p align="center">Meridian</p> WCOC 880 500 C <p align="center">Vicksburg</p> WQBC 1360 1000 <p align="center">MISSOURI</p> <p align="center">Cape Girardeau</p> KFVS 1210 100 <p align="center">Columbia</p> KFRU 630 500 <p align="center">Jefferson City</p> KWOS 1310 100 <p align="center">Joplin</p> WMBH 1420 100 <p align="center">Kansas City</p> KCMO 1370 100 KMBC 950 1000 C KXBY 1530 1000 WDAF 610 1000 R WHB 860 1000M <p align="center">St. Joseph</p> KFEQ 680 2500 <p align="center">St. Louis</p> KFUP 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100 <p align="center">Springfield</p> KGBX 1230 500 KWTO 560 5000 <p align="center">MONTANA</p> <p align="center">Billings</p> KGHL 780 1000 N
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Butte KGIR 1340 1000 N Great Falls KFBB 1280 1000 C Helena KPFA 1210 100 Kalispell KGEZ 1310 100 Lewistown KDNC 1200 100 Missoula KGVO 1260 1000 C Wolf Point KGCX 1450 1000</p> <hr/> <p style="text-align: center;">NEBRASKA</p> <hr/> <p>Clay Center KMMJ 740 1000 Kearney KGFV 1310 100 Lincoln KFAB 770 10000 C KFOR 1210 100 C Norfolk WJAG 1060 1000 North Platte KGNF 1430 1000 Omaha KOIL 1260 1000 B WAAW 660 500 WOW 590 1000 R Scottsbluff 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 Manchester WFEA 1340 500 B Portsmouth WHEB 740 250</p> <hr/> <p style="text-align: center;">NEW JERSEY</p> <hr/> <p>Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WOR 710 50000M Red Bank WBRB 1210 100 Trenton WTNJ 1280 500 Zarephath WAWZ 1350 500</p> <hr/> <p style="text-align: center;">NEW MEXICO</p> <hr/> <p>Albuquerque KGGM 1230 1000 KOB 1180 10000 B</p>	<p>Carlsbad KLAH 1210 100 Clovis KICA 1370 100 Gallup KAWM 1500 100 Roswell KGFL 1370 100 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 Auburn WMBO 1310 100 Binghamton WBNF 1500 100 C Brooklyn WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WMBQ 1500 100 WVWF 1400 500 Buffalo WBEN 900 1000 R WBNY 1370 100 WEBR 1310 100 B WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 Canton WCAD 1220 500 Elmira WESG 850 1000 C Freeport WGBB 1210 100 Jamestown WJTN 1210 100 B Newburgh WGNV 1210 100 New York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WBOQ 860 50000 WEAF 660 50000 R WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WMCA 570 1000 WNEW 1250 1000 WNYC 810 1000 WOW 1130 1000 WOXR 1550 1000 Olean WHDL 1400 250 Plattsburg WMFF 1310 100 Rochester WHAM 1150 50000 B WHBC 1430 500 C WSAY 1210 100 Saranac Lake WNBZ 1290 100 Schenectady WGY 790 50000 R Syracuse WFBL 1360 1000 C WSYR 570 1000 B Troy WHAZ 1300 500</p>	<p>Utica WBX 1200 100 C Watertown WNNY 1420 100 White Plains WFAS 1210 100 Woodside WWRL 1500 100</p> <hr/> <p style="text-align: center;">NORTH CAROLINA</p> <hr/> <p>Asheville WWNC 570 1000 N Charlotte WBT 1080 50000 C WSON 1210 100 N Durham WDNC 1500 100 C Gastonia WJBR 1420 100 Greensboro WBIG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 1000 N Rocky Mount WEED 1420 100 Wilmington WMPD 1370 100 Wilson WGTM 1310 100 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 Devils Lake KDLR 1210 100 Fargo WDAY 940 1000 N Grand Forks KFJM 1410 500 Jamestown KRMC 1370 100 Mandan KGGC 1240 250 Minot KLPM 1240 250 Valley City KOVV 1500 100</p> <hr/> <p style="text-align: center;">OHIO</p> <hr/> <p>Akron WADC 1320 1000 C WJW 1210 100 Ashtabula WICA 940 250 Canton WHBC 1200 100 Cincinnati WGPO 1200 100 WKRC 550 1000 C WLW 700 500000 N WSAI 1330 1000 R WSXO 700 500000 Cleveland WGAR 1450 500 B WHK 1390 1000 C WJAY 610 500 WTAM 1070 50000 R</p>	<p>Columbus WBNS 1430 500 C WCOL 1210 100 N WHKC 640 500 WOSU 570 750 Dayton WHIO 1260 1000 C WSMK 1380 200 C Lima WBLY 1210 100 Portsmouth WPAY 1370 100 Toledo WSPD 1340 1000 B ... 1200 100 Youngstown WKBN 570 500 C Zanesville WALR 1210 100</p> <hr/> <p style="text-align: center;">OKLAHOMA</p> <hr/> <p>Ada KADA 1200 100M Ardmore KVSQ 1210 100M Elk City KASA 1210 100M Enid KCRC 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KFXR 1310 100 KOMA 1480 5000 C KTOK 1370 100M WKY 900 1000 N Okmulgee KHBG 1210 100 Ponca City WBBZ 1200 100M Shawnee KGGF 1420 100M Tulsa KTUL 1400 500 C KVOO 1140 25000 N</p> <hr/> <p style="text-align: center;">OREGON</p> <hr/> <p>Astoria KAST 1370 100 Corvallis KOAC 550 1000 Eugene KORE 1420 100 Klamath Falls KFJL 1210 100 La Grande KLBH 1420 100 Marshfield KOOS 1200 100 Medford KMED 1410 250 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 Roseburg KRNR 1500 100 Salem KSLM 1370 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

PENNSYLVANIA		SOUTH CAROLINA		Corpus Christi		Price	
Allentown		Anderson		KGFI 1500	100	KEUB 1420	100
WCBA 1440	500	WAIM 1200	100 C	KRIS 1330	500 B	Salt Lake City	
WSAN 1440	500 B	Charleston		Corsicana		KDYL 1290	1000 R
Altoona		WGSC 1360	500 N	KAND 1310	100	KSL 1130	50000 C
WBFG 1310	100	Columbia		Dallas		KUTA 1500	100
Easton		WIS 560	1000 N	KRLD 1040	10000 C		
WEST 1200	100	Florence		WFAA 800	50000 N		
Erie		WOLS 1200	100	WRR 1280	500M		
WLEU 1420	100 B	Greenville		Dublin			
Glenside		WFBC 1300	1000 N	KFPL 1310	100		
WIBG 970	100	Spartanburg		El Paso			
Greensburg		WSPA 920	1000	KROD 1500	100		
WHJB 620	250 C	SOUTH DAKOTA		KTSM 1310	100		
Grove City				WDAH 1310	100		
WSAJ 1310	100	Aberdeen		Fort Worth			
Harrisburg		KABR 1420	100	KFJZ 1370	100		
WHP 1430	500 C	Brookings		KTAT 1240	1000M		
WKBO 1200	100	KFDY 780	1000	WBAP 800	50000 N		
Hazleton		Huron		Galveston			
WAZL 1420	100	KGDY 1340	250	KLUF 1370	100		
Johnstown		Pierre		Greenville			
WJAC 1310	100	KGFX 630	200	KCVL 1200	100		
Lancaster		Rapid City		Houston			
WGAL 1500	100	KOBH 1370	100	KPRC 920	1000 N		
Philadelphia		WCAT 1200	100	KTRH 1290	1000 C		
KYW 1020	10000 R	Sioux Falls		KXYZ 1440	1000 B		
WCAU 1170	50000 C	KELO 1200	100	Kilgore			
WDAS 1370	100	KSOO 1110	2500 B	KOCA 1210	100		
WFIL 560	1000 B	Vermillion		Longview			
WHAT 1310	100	KUSD 890	500	KFRQ 1370	250		
WIP 610	1000	Watertown		Lubbock			
WPEN 920	1000	KWTN 1210	100	KFYO 1310	100		
WRAX 920	1000	Yankton		Lufkin			
WTEL 1310	100	WNAX 570	1000 C	Midland			
Pittsburgh		TENNESSEE		KRLH 1420	100		
KDKA 980	50000 B	Bristol		Palestine			
KOV 1380	500 C	WOPI 1500	100	KNET 1420	100		
WGAE 1220	1000 R	Chattanooga		Pampa			
WJAS 1290	1000 C	WAO 1420	100	KPDN 1310	100		
WWSW 1500	100 C	WDDO 1280	1000 C	Paris			
Reading		Jackson		KPLT 1500	250		
WEEU 830	1000	WTJS 1310	100	Pecos			
WRAW 1310	100	Knoxville		KIUN 1420	100		
Scranton		WNOX 1010	1000 C	Port Arthur			
WCBI 880	500	WROL 1310	100 B	KPAC 1260	500		
WOAN 880	1000	Memphis		San Angelo			
Sunbury		WHBQ 1370	100	KGKL 1370	100		
WKOK 1210	100	WMC 780	1000 N	San Antonio			
Uniontown		WNBR 1430	500 B	KABC 1420	100		
WMRS 1420	250	WREC 600	1000 C	KMAC 1370	100		
Wilkes-Barre		Nashville		KONO 1370	100		
WBAX 1210	100	WLAC 1470	5000 C	KTSA 550	1000 C		
WBRE 1310	100	WSIX 1210	100	WOAI 1190	50000 N		
Williamsport		WSM 650	50000 N	Sherman			
WRAK 1370	100	TEXAS		KRRV 1310	250		
WORK 1320	1000 B	Abilene		Temple			
PUERTO RICO		KRBC 1420	100	KTEM 1370	250		
Mayaguez		Amarillo		Texarkana			
WPRR 1370	100	KGNC 1410	1000 B	KCMC 1420	100		
Ponce		Austin		Tyler			
WPRP 1420	100	KNOW 1500	100 C	KGKB 1500	100		
San Juan		Beaumont		Waco			
WKAQ 1240	1000	KFDM 560	500 B	WACO 1420	100 C		
WNEL 1290	1000	Big Spring		Weslaco			
RHODE ISLAND		KBST 1500	100	KRGV 1260	1000 B		
Providence		Brady		Wichita Falls			
WEAN 780	1000M	KNEL 1500	250	KGKO 570	250 C		
WJAR 890	1000 R	College Station		UTAH			
WPRO 630	500 C	WTAW 1120	500	Cedar City			
				KSUB 1310	100		
				Ogden			
				KLO 1400	500 B		

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Wenatchee KPO 1500 100</p> <p>Yakima KIT 1310 100</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>WTAQ 1330 1000 C</p> <p>Janesville WCLO 1200 100</p> <p>LaCrosse WKBH 1380 1000 C</p> <p>Madison WHA 940 5000</p> <p>WIBA 1280 1000 N</p> <p>Manitowoc WOMT 1210 100</p> <p>Milwaukee WEMP 1310 100</p> <p>WISN 1120 250 C</p> <p>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 2500</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>Sheridan KWYO 1370 100</p>	<p>Lethbridge CJOC 950 100 F</p> <hr/> <p style="text-align: center;">BRIT. COLUMBIA</p> <hr/> <p>Chilliwack CIIWK 780 100 F</p> <p>Kamloops CFJC 880 100 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 CJOR 600 500</p> <p>CKGD 1010 100</p> <p>CKFC 1410 50</p> <p>CKMO 1410 100 F</p> <p>CKWX 1010 100 F</p> <p>CRCV 1100 5000 F</p> <p>Victoria CFCT 1450 50</p> <hr/> <p style="text-align: center;">MANITOBA</p> <hr/> <p>Brandon CKX 1120 100 F</p> <p>Winnipeg CJRC 630 500 F</p> <p>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</p> <p>CKOC 1120 500 F</p> <p>Kingston CFRC 1510 100 F</p> <p>Kirkland Lake CJKL 1310 100 F</p>	<p>London CFPL 730 100 F</p> <p>North Bay CFCH 930 100 F</p> <p>Ottawa CKCO 1010 100 F</p> <p>CRCO 880 1000 F</p> <p>Prescott CFLC 930 100</p> <p>St. Catharines CKTB 1200 100 F</p> <p>Sault Ste. Marie CJJC 1500 100</p> <p>Stratford CJCS 1210 50</p> <p>Sudbury CKSO 780 1000 F</p> <p>Timmins CKGB 1420 100 F</p> <p>Toronto CFRB 690 10000 C</p> <p>CKCL 580 100 F</p> <p>CRCT 840 5000 N</p> <p>CRCY 1420 100 F</p> <p>Waterloo CKKR 1510 100</p> <p>Windsor CKLW 1030 5000 M</p> <p>CRCW 600 500 F</p> <p>Wingham CKNX 1200 50</p> <hr/> <p style="text-align: center;">PRINCE EDWARD ISLAND</p> <hr/> <p>Charlottetown CFCY 630 1000 F</p> <p>CHCK 1310 50</p> <p>Summerside CHGS 1450 50 F</p> <hr/> <p style="text-align: center;">QUEBEC</p> <hr/> <p>Chicoutimi CRCS 950 100 F</p> <p>Hull CKCH 1210 100 F</p> <p>Montreal CFCF 600 400 N</p> <p>CHLP 1120 100 F</p> <p>CKAC 730 5000 C</p> <p>CRGM 910 5000 F</p> <p>New Carlisle CHNC 960 1000 F</p> <p>Quebec CHRC 580 100</p> <p>CKCV 1310 100 F</p> <p>CRCK 1050 1000 F</p> <hr/> <p style="text-align: center;">SASKATCHEWAN</p> <hr/> <p>Moose Jaw CHAB 1200 100 F</p> <p>Prince Albert CKBI 1210 100 F</p> <p>Regina CJRM 540 1000</p> <p>CKCK 1010 500 F</p> <p>Saskatoon CFQC 840 1000 F</p> <p>Yorkton CJGX 1390 100 F</p> <hr/> <p style="text-align: center;">NEWFOUNDLAND</p> <hr/> <p>St. John's VOAC 1065 40</p> <p>VOAS 940 100</p>	<p>VOCM 1006 200</p> <p>VOGY 840 400</p> <p>VONF 1195 500</p> <p>VOWR 681 500</p> <hr/> <p style="text-align: center;">MEXICO</p> <hr/> <p style="text-align: center;">AGUASCALIENTES</p> <hr/> <p>Aguaascalientes XEBI 1000 25</p> <p>XEXC 810 350</p> <hr/> <p style="text-align: center;">BAJA CALIFORNIA</p> <hr/> <p>Agua Caliente XEBC 730 5000</p> <p>Mexicali XEAA 920 200</p> <p>XEAO 660 250</p> <p>Rosario XEAQ 1090 1000</p> <p>Tijuana XEAC 980 250</p> <p>XEBG 820 1000</p> <p>XEC 1150 100</p> <p>XEMO 860 5000</p> <p>XEOK 760 2500</p> <hr/> <p style="text-align: center;">CHIHUAHUA</p> <hr/> <p>Chihuahua XEFI 1440 250</p> <p>Juarez XEFV 1210 100</p> <p>XEF 1450 100</p> <p>XEJ 1020 1000</p> <p>XEP 1160 500</p> <p>Parral XEAT 1210 250</p> <hr/> <p style="text-align: center;">COAHUILA</p> <hr/> <p>Piedras Negras XELO 1110 50000</p> <p>XEPN 730 100000</p> <p>Sabinas XEBX 640 250</p> <p>Saltillo XEAS 1160 50</p> <p>XELA 1240 50</p> <p>Torreón XETB 1310 125</p> <p>Villa Acuna XERA 840 350000</p> <hr/> <p style="text-align: center;">D. F.</p> <hr/> <p>Atzacapotzalco XEMG 1060 100</p> <p>Gra. Anaya XEDA 1220 200</p> <p>Mexico City XEAL 660 1000</p> <p>XEAY 1240 100</p> <p>XEB 1030 10000</p> <p>XEBZ 1160 100</p> <p>XECW 1310 10</p> <p>XEDP 1080 500</p> <p>XEFO 940 5000</p> <p>XEJP 1130 100</p> <p>XEK 990 100</p> <p>XEL 780 1000</p> <p>XELZ 1370 100</p> <p>XEMX 1280 100</p> <p>XENC 860 50</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

XEW 890 50000 XEYO 940 500 Tacuba XEFA 1180 500	SAN LUIS POTOSI San Luis Potosi XECZ 1370 100 XEXH 1250 250	YUCATAN Merida XEBJ 1160 20 XEFE 550 100 XEZ 630 500	CMCD 950 250 CMCF 810 600 CMCG 680 1000 CMCJ 1100 500 CMCN 850 CMCO 1200 250 CMCQ 1410 250 CMCU 1280 500 CMCW 750 150 CMCX 570 150 CMCY 1030 5000 CMK 730 3000 CMOA 1440 150 CMOK 1260 150 CMOX 1320 200 CMQ 880 500 CMW 600 1400 CMX 920 1000
DURANGO	SINALOA	CUBA	
Durango XEE 1210 50	Mazatlan XEBL 1220 50	Caibarien CMHD 1270 250	
GUANAJUATO	SONORA	Camaguey	
Leon XEKL 1240 500	Hermosillo XEBH 930 500	CMJA 1010 300	
JALISCO	Nogales XEAF 990 750	CMJC 1390 150	
Guadalajara XEAD 1060 125 XED 1160 2500	TAMAULIPAS	CMJE 1220 50	
Guzman XEBA 1080 20	Matamoros XEAM 750 25	CMJF 1150 200	
MICHOACAN	Nuevo Laredo XEBK 1000 100	CMJK 780 250	
Morelia XEI 1370 125	XEFE 980 25	CMJL 1340 75	
NUEVO LEON	XENT 910 150000	CMJX 830 500	
Monterrey XEFB 870 200 XEFJ 1230 100 XEH 720 250 XET 690 5000 XEX 1310 125	Reynosa XEAW 960 50000	Cardenas CMGE 1370 150	
PUEBLA	Tampico XEFW 1310 250 XES 990 250	Ciego de Avila CMJH 1360 50	
Puebla XETH 1210 100	VERACRUZ	CMJI 1130 150	
	Cordoba XEAG 1310 10	CMJO 1180 50	
	Jalapa XEXB 1270 50 XEXD 1340 350	Gienfuegos CMHJ 1160 175	
	Minatitlan XEDW 1150 20	CMHM 1450 100	
	Veracruz XETF 1220 30 XEU 1010 250	CMHW 820 100	
		CMHX 760 200	
		Havana	
		CMHK 1330 250	
		CMBD 1170 500	
		CMBG 1140 200	
		CMBS 770 150	
		CMBX 1070 500	
		CMBY 970 150	
		CMCZ 1000 500	
		CMCA 1350 450	
		CMCB 640 150	
		Holguin CMFK 1460 250 CMKO 1280	
		Manzanillo CMKM 1120 200	
		Matanzas CMGC 1400 150 CMGF 1120 150 CMGH 790 500	
		Moron CMJP 1430 75	
		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	

WWJ Detroit, Mich., owned by the Evening News Assn., has been granted special authorization to use 5 kw full time on 920 kcs. The license granted this station calls for 1 kw night and 5 kw days until local sunset.

When a nation-wide advertiser requested an option a few weeks ago on the first commercial television program to be broadcast by the NBC, the NBC turned down the application, pointing out that many similar requests had previously been received, and they were all considered simply as publicity stunts.

A group of Italian stations are successfully overcoming the great nuisance of fading by synchronizing their broadcasts on the same frequency. Turin in the north and Trieste in the northeast of Italy are at present both broadcasting the same programs, and will shortly be joined by Genoa in the northwest. They all transmit on 1149 kcs.

The Australian Broadcasting Co. has purchased a number of the scripts of the "Death Valley" programs for broadcasting in Australia. It is reported also that some of the Death Valley stories will be used in the movies.

NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930	100	CJKL 1310	100	CMBD 1170	500
Calgary, Alta.		Kirkland Lake, Ont.		Havana, Cuba	
CFCF 600	400	CJLS 1310	100	CMBG 1140	200
Montreal, Que.		Yarmouth, N. S.		Havana, Cuba	
CFCH 930	100	CJOC 950	100	CMBS 770	150
North Bay, Ont.		Lethbridge, Alta.		Havana, Cuba	
CFCN 1030	10000	CJOR 600	500	CMBX 1070	500
Calgary, Alta.		Vancouver, B. C.		Havana, Cuba	
CFCO 630	100	CJRC 630	500	CMBY 970	150
Chatham, Ont.		Winnipeg, Man.		Havana, Cuba	
CFCT 1450	50	CJRM 540	1000	CMBZ 1000	500
Victoria, B. C.		Regina, Sask.		Havana, Cuba	
CFCY 630	1000	CKAC 730	5000	CMCA 1350	450
Charlottetown, P.E.I.		Montreal, Que.		Havana, Cuba	
CFJC 880	100	CKBI 1210	100	CMCB 640	150
Kamloops, B. C.		Prince Albert, Sask.		Havana, Cuba	
CFLC 930	100	CKCD 1010	100	CMCD 950	250
Prescott, Ont.		Vancouver, B. C.		Havana, Cuba	
CFNB 550	500	CKCH 1210	100	CMCF 810	600
Fredericton, N. B.		Hull, Que.		Havana, Cuba	
CFPL 730	100	CKCK 1010	500	CMCG 680	1000
London, Ont.		Regina, Sask.		Havana, Cuba	
CFPR 580	50	CKCL 580	100	CMCJ 1100	500
Prince Rupert, B. C.		Toronto, Ont.		Havana, Cuba	
CFQC 840	1000	CKCO 1010	100	CMCN 850	.....
Saskatoon, Sask.		Ottawa, Ont.		Havana, Cuba	
CFRB 690	10000	CKCR 1510	100	CMCO 1200	250
Toronto, Ont.		Waterloo, Ont.		Havana, Cuba	
CFRC 1510	100	CKCV 1310	100	CMCQ 1410	250
Kingston, Ont.		Quebec, Que.		Havana, Cuba	
CFRN 960	100	CKCW 1370	100	CMCQ 1280	500
Edmonton, Alta.		Moncton, N. B.		Havana, Cuba	
CHAB 1200	100	CKFC 1410	50	CMCW 750	150
Moose Jaw, Sask.		Vancouver, B. C.		Havana, Cuba	
CHCK 1310	50	CKGB 1420	100	CMCX 570	150
Charlottetown, P.E.I.		Timmins, Ont.		Havana, Cuba	
CHGS 1450	50	CKIC 1010	50	CMCY 1030	5000
Summerstide, P.E.I.		Wolfville, N. S.		Havana, Cuba	
CHLP 1120	100	CKLW 1030	5000	CMCG 1400	150
Montreal, Que.		Windsor, Ont.		Matanzas, Cuba	
CHML 1010	100	CKMC 1210	50	CMGE 1370	150
Hamilton, Ont.		Cobalt, Ont.		Cardenas, Cuba	
CHNC 960	1000	CKMO 1410	100	CMGF 1120	150
New Carlisle, Que.		Vancouver, B. C.		Matanzas, Cuba	
CHNS 930	1000	CKNX 1200	50	CMGH 790	500
Halifax, N. S.		Wingham, Ont.		Matanzas, Cuba	
CHRC 580	100	CKOC 1120	500	CMHA 1070	50
Quebec, Que.		Hamilton, Ont.		Sagua la Grande, Cuba	
CHSJ 1120	500	CKOV 630	100	CMHB 1240	50
St. John, N. B.		Kelowna, B. C.		Sancti Spiritus, Cuba	
CHWK 780	100	CKPC 930	100	CMHD 1270	250
Chilliwack, B. C.		Brantford, Ont.		Calbarien, Cuba	
CJAT 910	1000	CKPR 730	100	CMHI 1210	150
Trail, B. C.		Port William, Ont.		Santa Clara, Cuba	
CJCA 730	1000	CKSO 780	1000	CMHJ 1160	175
Edmonton, Alta.		Sudbury, Ont.		Cienfuegos, Cuba	
CJCB 1240	1000	CKTB 1200	100	CMHK 1330	250
Sydney, N. S.		St. Catharines, Ont.		Cruces, Cuba	
CJCJ 690	100	CKUA 580	500	CMHM 1450	100
Calgary, Alta.		Edmonton, Alta.		Cienfuegos, Cuba	
CJCS 1210	50	CKWX 1010	100	CMHW 820	100
Stratford, Ont.		Vancouver, B. C.		Cienfuegos, Cuba	
CJCU 1210	50	CKX 1120	100	CMHX 760	200
Aklavik, N. W. T.		Brandon, Man.		Cienfuegos, Cuba	
CJGX 1390	100	CKY 910	15000	CMJA 1010	300
Yorkton, Sask.		Winnipeg, Man.		Camaguey, Cuba	
CJIC 1500	100	CMAB 1340		CMJC 1390	150
S. Ste. Marie, Ont.		Pinar del Rio, Cuba		Camaguey, Cuba	

NORTH AMERICAN B. C. STATIONS BY CALLS

CMJE 1220 50	KABR 1420 100	KEUB 1420 100
Camaguey, Cuba	Aberdeen, S. Dak.	Price, Utah
CMJF 1150 200	KADA 1200 100	KEX 1180 5000
Camaguey, Cuba	Ada, Okla.	Portland, Ore.
CMJH 1360 50	KALB 1210 100	KFAB 770 10000
Ciego de Avila, Cuba	Alexandria, La.	Lincoln, Neb.
CMJI 1130 150	KALE 1300 500	KFAC 1300 1000
Ciego de Avila, Cuba	Portland, Ore.	Los Angeles, Calif.
CMJK 780 250	KAND 1310 100	KFBB 1280 1000
Camaguey, Cuba	Corsicana, Texas	Great Falls, Mont.
CMJL 1340 75	KANS 1210 100	KFBI 1050 5000
Camaguey, Cuba	Wichita, Kans.	Abilene, Kans.
CMJO 1180 50	KARK 890 500	KFBK 1490 5000
Ciego de Avila, Cuba	Little Rock, Ark.	Sacramento, Calif.
CMJP 1430 75	KASA 1210 100	KFDM 560 500
Camaguey, Cuba	Elk City, Okla.	Beaumont, Texas
CMJX 830 500	KAST 1370 100	KFDY 780 1000
Camaguey, Cuba	Astoria, Ore.	Brookings, S. D.
CMK 730 3000	KATE 1420 250	KFEL 920 500
Havana, Cuba	Albert Lea, Minn.	Denver, Colo.
CMKC 1250 150	KAWM 1500 100	KFEQ 680 2500
Santiago, Cuba	Gallup, N. Mex.	St. Joseph, Mo.
CMKD 1050 250	KBIX 1500 100	KFGQ 1370 100
Santiago, Cuba	Muskogee, Okla.	Boone, Iowa
CMKF 1460 250	KBPS 1420 100	KFH 1300 1000
Holgün, Cuba	Portland, Ore.	Wichita, Kans.
CMKG 1160	KBST 1500 100	KFI 640 50000
Santiago, Cuba	Big Spring, Texas	Los Angeles, Calif.
CMKM 1120 200	KBTM 1200 100	KFIO 1120 100
Manzanillo, Cuba	Jonesboro, Ark.	Spokane, Wash.
CMKO 1280	KCKN 1310 100	KFIZ 1420 100
Holgün, Cuba	Kansas City, Kans.	Fond du Lac, Wis.
CMKR 1400 100	KCMC 1420 100	KFJB 1200 100
Santiago, Cuba	Texarkana, Texas	Marshalltown, Iowa
CMKW 1350	KCMO 1370 100	KFJI 1210 100
Santiago, Cuba	Kansas City, Mo.	Klamath Falls, Ore.
CMKX 1190	KCRC 1360 250	KFJM 1410 500
Santiago, Cuba	Enid, Okla.	Grand Forks, N. D.
CMOA 1440 150	KCRJ 1310 100	KFJZ 1370 100
Havana, Cuba	Jerome, Ariz.	Fort Worth, Texas
CMOK 1260 150	KDAL 1500 100	KFKA 880 500
Havana, Cuba	Duluth, Minn.	Greeley, Colo.
CMOX 1320 200	KDB 1500 100	KFKU 1220 1000
Havana, Cuba	Santa Barbara, Calif.	Lawrence, Kans.
CMQ 880 500	KDFN 1440 500	KFNF 890 500
Havana, Cuba	Casper, Wyo.	Shenandoah, Iowa
CMW 600 1400	KDKA 980 50000	KFOR 1210 100
Havana, Cuba	Pittsburgh, Pa.	Lincoln, Neb.
CMX 920 1000	KDLR 1210 100	KFOX 1250 1000
Havana, Cuba	Devils Lake, N. D.	Long Beach, Calif.
CRCK 1050 1000	KDNC 1200 100	KFPL 1310 100
Quebec, Que.	Lewistown, Mont.	Dublin, Texas
CRCM 910 5000	KDON 1210 100	KFPW 1210 100
Montreal, Que.	Monterrey, Calif.	Fort Smith, Ark.
CRCO 880 1000	KDYL 1290 1000	KFPY 890 1000
Ottawa, Ont.	Salt Lake City, Utah	Spokane, Wash.
CRCS 950 100	KECA 1430 1000	KFQD 780 250
Chicoutimi, Que.	Los Angeles, Calif.	Anchorage, Alaska
CRCT 840 5000	KEEN 1370 100	KFRC 610 1000
Toronto, Ont.	Seattle, Wash.	San Francisco, Calif.
CRCV 1100 5000	KEHE 780 1000	KFRO 1370 250
Vancouver, B. C.	Los Angeles, Calif.	Longview, Texas
CRCW 600 500	KELD 1370 100	KFRU 630 500
Windsor, Ont.	El Dorado, Ark.	Columbia, Mo.
CRCY 1420 100	KELO 1200 100	KFSD 600 1000
Toronto, Ont.	Stouffville, S. Dak.	San Diego, Calif.
KABC 1420 100	KERN 1370 100	KFSG 1120 500
San Antonio, Texas	Bakersfield, Calif.	Los Angeles, Calif.

NORTH AMERICAN B. C. STATIONS BY CALLS

KFUO 550 500	KGHI 1200 100	KIUL 1210 100
St. Louis, Mo.	Little Rock, Ark.	Garden City, Kans.
KFVD 1000 1000	KGHL 780 1000	KIUN 1420 100
Los Angeles, Calif.	Billings, Mont.	Pecos, Texas
KFVS 1210 100	KGIR 1340 1000	KIUP 1370 100
Cape Girardeau, Mo.	Butte, Mont.	Durango, Colo.
KFWB 950 1000	KGIW 1420 100	KJBS 1070 500
Hollywood, Calif.	Alamosa, Colo.	San Francisco, Calif.
KFXD 1200 100	KGKB 1500 100	KJR 970 5000
Nampa, Idaho	Tyler, Texas	Seattle, Wash.
KFXJ 1200 100	KGKL 1370 100	KLAH 1210 100
Graud Junction, Colo.	San Angelo, Texas	Carlsbad, N. Mex.
KFXM 1210 100	KGKO 570 250	KLBM 1420 100
San Bernardino, Calif.	Wichita Falls, Texas	La Grande, Ore.
KFXR 1310 100	KGKY 1500 100	KLCM 1290 100
Oklahoma City, Okla.	Scottsbluff, Neb.	Blytheville, Ark.
KFYO 1310 100	KGLO 1210 100	KLO 1400 500
Lubbock, Texas	Mason City, Iowa	Ogden, Utah
KFYR 550 1000	KGMB 1320 1000	KLPM 1240 250
Bismarck, N. D.	Honolulu, T. H.	Minot, N. D.
KGA 1470 5000	KGNC 1410 1000	KLRA 1390 1000
Spokane, Wash.	Amarillo, Texas	Little Rock, Ark.
KGAR 1370 100	KGNF 1430 1000	KLS 1280 250
Tucson, Ariz.	North Platte, Neb.	Oakland, Calif.
KGB 1330 1000	KGNO 1340 250	KLUF 1370 100
San Diego, Calif.	Dodge City, Kans.	Galveston, Texas
KGBU 900 500	KGO 790 7500	KLX 880 1000
Ketchikan, Alaska	San Francisco, Calif.	Oakland, Calif.
KGBX 1230 500	KGU 750 2500	KLZ 560 1000
Springfield, Mo.	Honolulu, T. H.	Denver, Colo.
KGCA 1270 100	KGVL 1290 100	KMA 930 1000
Decorah, Iowa	Greenville, Texas	Shenandoah, Iowa
KCCU 1240 250	KGVO 1260 1000	KMAC 1370 100
Mandan, N. D.	Missoula, Mont.	San Antonio, Texas
KGCX 1450 1000	KGW 620 1000	KMBC 950 1000
Wolf Point, Mont.	Portland, Ore.	Kansas City, Mo.
KGDE 1200 100	KGY 1210 100	KMED 1410 250
Fergus Falls, Minn.	Olympia, Wash.	Medford, Ore.
KGDM 1100 1000	KHBC 1400 250	KMJ 580 1000
Stockton, Calif.	Hilo, T. H.	Fresno, Calif.
KGDY 1340 250	KHBC 1210 100	KMLB 1200 100
Huron, S. D.	Okmulgee, Okla.	Monroe, La.
KGEK 1200 100	KHJ 900 1000	KMMJ 740 1000
Sterling, Colo.	Los Angeles, Calif.	Clay Center, Neb.
KGER 1360 1000	KHQ 590 1000	KMO 1330 1000
Long Beach, Calif.	Spokane, Wash.	Tacoma, Wash.
KGEZ 1310 100	KHSL 1260 250	KMOX 1090 50000
Kalispell, Mont.	Chico, Calif.	St. Louis, Mo.
KGFF 1420 100	KHUB 1310 250	KMPC 710 500
Shawnee, Okla.	Watsonville, Calif.	Beverly Hills, Calif.
KGFI 1500 100	KICA 1370 100	KMTR 570 1000
Corpus Christi, Tex.	Clovis, N. M.	Los Angeles, Calif.
KGfJ 1200 100	KID 1320 500	KNEL 1500 250
Los Angeles, Calif.	Idaho Falls, Idaho	Brady, Texas
KGFL 1370 100	KIDO 1350 1000	KNET 1420 100
Roswell, N. M.	Boise, Idaho	Palestine, Texas
KGFW 1310 100	KIDW 1420 100	KNOW 1500 100
Kearney, Neb.	Lamar, Colo.	Austin, Texas
KGFX 630 200	KIEM 1450 500	KNX 1050 50000
Pierre, S. D.	Eureka, Calif.	Los Angeles, Calif.
KGGC 1420 100	KIEV 850 250	KOA 830 50000
San Francisco, Calif.	Glendale, Calif.	Denver, Colo.
KGGF 1010 1000	KINY 1310 100	KOAC 550 1000
Coffeyville, Kans.	Juneau, Alaska	Corvallis, Ore.
KGGM 1230 1000	KIRO 710 1000	KOAM 790 1000
Albuquerque, N. M.	Seattle, Wash.	Pittsburg, Kans.
KGHF 1320 500	KIT 1310 100	KOB 1180 10000
Pueblo, Colo.	Yakima, Wash.	Albuquerque, N. M.

NORTH AMERICAN B. C. STATIONS BY CALLS

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

NORTH AMERICAN B. C. STATIONS BY CALLS

	KWOS 1310	100		WALA 1380	500		WBNY 1370	100
	Jefferson City, Mo.			Mobile, Ala.			Buffalo, N. Y.	
	KWSC 1220	1000		WALR 1210	100		WBOQ 860	50000
	Pullman, Wash.			Zanesville, Ohio			New York, N. Y.	
	KWTN 1210	100		WAML 1310	100		WBOW 1310	100
	Watertown, S. Dak.			Laurel, Miss.			Terre Haute, Ind.	
	KWTO 560	5000		WAPI 1140	5000		WBRB 1210	100
	Springfield, Mo.			Birmingham, Ala.			Red Bank, N. J.	
	KWYO 1370	100		WAPO 1420	100		WBRC 930	1000
	Sheridan, Wyo.			Chattanooga, Tenn.			Birmingham, Ala.	
	KXA 760	250		WARD 1400	500		WBRE 1310	100
	Seattle, Wash.			Brooklyn, N. Y.			Wilkes-Barre, Pa.	
	KXBY 1530	1000		WASH 1270	500		WBRY 1530	1000
	Kansas City, Mo.			Grand Rapids, Mich.			Waterbury, Conn.	
	KXL 1420	100		WATL 1370	100		WBT 1080	50000
	Portland, Ore.			Atlanta, Ga.			Charlotte, N. C.	
	KXO 1500	100		WATR 1130	100		WBTM 1370	100
	El Centro, Calif.			Waterbury, Conn.			Danville, Va.	
	KXRO 1310	100		WAVE 940	1000		WBZ 990	50000
	Aberdeen, Wash.			Louisville, Ky.			Boston, Mass.	
	KXYZ 1440	1000		WAWZ 1350	500		WBZA 990	1000
	Houston, Texas			Zarephath, N. J.			Springfield, Mass.	
	KYA 1230	1000		WAYX 1200	100		WCAD 1220	500
	San Francisco, Calif.			Waycross, Ga.			Canton, N. Y.	
	KYOS 1040	250		WAZL 1420	100		WCAE 1220	1000
	Merced, Calif.			Hazleton, Pa.			Pittsburgh, Pa.	
	KYW 1020	10000		WBAA 890	500		WCAL 1250	1000
	Philadelphia, Pa.			West Lafayette, Ind.			Northfield, Minn.	
	VAS 685	2000		WBAL 760	2500		WCAM 1280	500
	Glace Bay, N. S.			Baltimore, Md.			Caenden, N. J.	
	VOAC 1065	40		WBAL 1060	10000		WCAO 600	500
	St. John's, Nfld.			Baltimore, Md.			Baltimore, Md.	
	VOAS 940	100		WBAP 800	50000		WCAP 1280	500
	St. John's, Nfld.			Fort Worth, Texas			Asbury Park, N. J.	
	VOCM 1006	200		WBAX 1210	100		WCAT 1200	100
	St. John's, Nfld.			Wilkes-Barre, Pa.			Rapid City, S. Dak.	
	VOGY 840	400		WBBC 1400	500		WCAU 1170	50000
	St. John's, Nfld.			Brooklyn, N. Y.			Philadelphia, Pa.	
	VONF 1195	500		WBBL 1210	100		WCAX 1200	100
	St. John's, Nfld.			Richmond, Va.			Burlington, Vt.	
	VOWR 681	500		WBMM 770	50000		WCAZ 1070	100
	St. John's, Nfld.			Chicago, Ill.			Carthage, Ill.	
	WAAB 1410	500		WBRR 1300	1000		WCBA 1440	500
	Boston, Mass.			Brooklyn, N. Y.			Allentown, Pa.	
	WAAC 920	1000		WBZZ 1200	100		WCBD 1080	5000
	Chicago, Ill.			Ponca City, Okla.			Chicago, Ill.	
	WAAT 940	500		WBCM 1410	500		WCBM 1370	100
	Jersey City, N. J.			Bay City, Mich.			Baltimore, Md.	
	WAAW 660	500		WBEN 900	1000		WCBS 1420	100
	Omaha, Neb.			Buffalo, N. Y.			Springfield, Ill.	
	WABC 860	50000		WBEO 1310	100		WCCO 810	50000
	New York, N. Y.			Marquette, Mich.			Minneapolis, Minn.	
	WABI 1200	100		WBHP 1200	100		WCFL 970	5000
	Bangor, Maine			Huntsville, Ala.			Chicago, Ill.	
	WABY 1370	100		WRIG 1440	1000		WCHS 580	500
	Albany, N. Y.			Greensboro, N. C.			Charleston, W. Va.	
	WACO 1420	100		WBIL 1100	5000		WCHV 1420	100
	Waco, Texas			New York, N. Y.			Charlottesville, Va.	
	WADC 1320	1000		WBLK 1370	100		WCKY 1490	5000
	Akron, Ohio			Clarksburg, W. Va.			Covington, Ky.	
	WAGF 1370	250		WBLY 1210	100		WCLO 1200	100
	Dothan, Ala.			Lima, Ohio			Janesville, Wis.	
	WAGM 1420	100		WBNO 1200	100		WCLS 1310	100
	Presque Isle, Me.			New Orleans, La.			Joliet, Ill.	
	WAIM 1200	100		WBNS 1430	500		WCMI 1310	100
	Anderson, S. C.			Columbus, Ohio			Ashland, Ky.	
	WAIR 1250	250		WBNX 1350	1000		WCNW 1500	100
	Winston-Salem, N. C.			New York, N. Y.			Brooklyn, N. Y.	

NORTH AMERICAN B. C. STATIONS BY CALLS

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

NORTH AMERICAN B. C. STATIONS BY CALLS

WHFC 1420 Cicero, Ill.	100	WJAX 900 Jacksonville, Fla.	1000	WKY 900 Oklahoma City, Okla.	1000
WHIO 1260 Dayton, Ohio	1000	WJAY 610 Cleveland, Ohio	500	WKZO 590 Kalamazoo, Mich.	1000
WHIP 1480 Hammond, Ind.	5000	WJBC 1200 Bloomington, Ill.	100	WLAC 1470 Nashville, Tenn.	5000
WHIS 1410 Bluefield, W. Va.	500	WJBK 1500 Detroit, Mich.	100	WLAK 1310 Lakeland, Fla.	100
WHJB 620 Greensburg, Pa.	250	WJBL 1200 Decatur, Ill.	100	WLAP 1420 Lexington, Ky.	100
WHK 1390 Cleveland, Ohio	1000	WJBO 1420 Baton Rouge, La.	100	WLB 1250 Minneapolis, Minn.	1000
WHKC 640 Columbus, Ohio	500	WJBR 1420 Gastonia, N. C.	100	WLBC 1310 Muncie, Ind.	100
WHLB 1370 Virginia, Minn.	100	WJBW 1200 New Orleans, La.	100	WLBI 900 Stevens Point, Wis.	2500
WHN 1010 New York, N. Y.	1000	WJBY 1210 Gadsden, Ala.	100	WLBZ 620 Bangor, Me.	500
WHO 1000 Des Moines, Iowa	50000	WJDX 1270 Jackson, Miss.	1000	WLEU 1420 Erie, Pa.	100
WHOM 1450 Jersey City, N. J.	250	WJEJ 1210 Hagerstown, Md.	100	WLLH 1370 Lowell, Mass.	100
WHP 1430 Harrisburg, Pa.	500	WJIM 1210 Lansing, Mich.	100	WLMU 1210 Middlesboro, Ky.	100
WIBA 1280 Madison, Wis.	1000	WJJD 1130 Chicago, Ill.	20000	WLNH 1310 Laconia, N. H.	100
WIBG 970 Glenside, Pa.	100	WJMS 1420 Ironwood, Mich.	100	WLS 870 Chicago, Ill.	50000
WIBM 1370 Jackson, Mich.	100	WJNO 1200 W. Palm Beach, Fla.	100	WLVA 1200 Lynchburg, Va.	100
WIBU 1210 Poynette, Wis.	100	WJR 750 Detroit, Mich.	50000	WLW 700 Cincinnati, Ohio	500000
WIBW 580 Topeka, Kans.	1000	WJRD 1200 Tuscaloosa, Ala.	100	WMAL 630 Washington, D. C.	250
WIBX 1200 Utica, N. Y.	100	WJSV 1460 Washington, D. C.	10000	WMAQ 670 Chicago, Ill.	50000
WICA 940 Ashtabula, Ohio	250	WJTN 1210 Jamestown, N. Y.	100	WMAS 1420 Springfield, Mass.	100
WICC 600 Bridgeport, Conn.	500	WJW 1210 Akron, Ohio	100	WMAZ 1180 Macon, Ga.	1000
WIL 1200 St. Louis, Mo.	100	WJZ 760 New York, N. Y.	50000	WMBC 1420 Detroit, Mich.	100
WILL 580 Urbana, Ill.	1000	WKAQ 1240 San Juan, P. R.	1000	WMBD 1440 Peoria, Ill.	500
WILM 1420 Wilmington, Del.	100	WKAU 850 East Lansing, Mich.	1000	WMBG 1210 Richmond, Va.	100
WIND 560 Gary, Ind.	1000	WKAT 1500 Miami Beach, Fla.	100	WMSH 1420 Joplin, Mo.	100
WINS 1180 New York, N. Y.	1000	WKBB 1500 East Dubuque, Ill.	100	WMBI 1080 Chicago, Ill.	5000
WIOD 1390 Miami, Fla.	1000	WKBH 1380 LaCrosse, Wis.	1000	WMBJ 1310 Auburn, N. Y.	100
WIP 610 Philadelphia, Pa.	1000	WKBN 570 Youngstown, Ohio	500	WMBQ 1500 Brooklyn, N. Y.	100
WIRE 1400 Indianapolis, Ind.	1000	WKBO 1200 Harrisburg, Pa.	100	WMBR 1370 Jacksonville, Fla.	100
WIS 560 Columbia, S. C.	1000	WKBV 1500 Richmond, Ind.	100	WMBS 1420 Uniontown, Pa.	250
WISN 1120 Milwaukee, Wis.	250	WKBW 1480 Buffalo, N. Y.	5000	WMC 780 Memphis, Tenn.	1000
WJAC 1310 Johnstown, Pa.	100	WKBZ 1500 Muskegon, Mich.	100	WMCA 570 New York, N. Y.	1000
WJAG 1060 Norfolk, Neb.	1000	WKEU 1500 Griffin, Ga.	100	WMEX 1500 Boston, Mass.	100
WJAR 890 Providence, R. I.	1000	WKOK 1210 Sunbury, Pa.	100	WMFD 1370 Wilmington, N. C.	100
WJAS 1290 Pittsburgh, Pa.	1000	WKRC 550 Cincinnati, Ohio	1000	WMFF 1310 Plattsburg, N. Y.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

WMFG 1210	100	WOPI 1500	100	WRGA 1500	100
Hibbing, Minn.		Bristol, Tenn.		Rome, Ga.	
WMFJ 1420	100	WOR 710	50000	WRJN 1370	100
Daytona Beach, Fla.		Newark, N. J.		Racine, Wis.	
WMFN 1210	100	WORC 1280	500	WROK 1410	500
Grenada, Miss.		Worcester, Mass.		Rockford, Ill.	
WMFO 1370	100	WORK 1320	1000	WROL 1310	100
Decatur, Ala.		York, Pa.		Knoxville, Tenn.	
WMFR 1200	100	WORL 920	500	WRR 1280	500
High Point, N. C.		Boston, Mass.		Dallas, Texas	
WMIN 1370	100	WOSU 570	750	WRTD 1500	100
St. Paul, Minn.		Columbus, Ohio		Richmond, Va.	
WMMN 890	500	WOV 1130	1000	WRUF 830	5000
Fairmont, W. Va.		New York, N. Y.		Gainesville, Fla.	
WMPC 1200	100	WOW 590	1000	WRVA 1110	5000
Lapeer, Mich.		Omaha, Neb.		Richmond, Va.	
WMSD 1420	100	WOWO 1160	10000	WSAI 1330	1000
Sheffield, Ala.		Fort Wayne, Ind.		Cincinnati, Ohio	
WMT 600	1000	WPAD 1420	100	WSAJ 1310	100
Cedar Rapids, Iowa		Paducah, Ky.		Grove City, Pa.	
WNAC 1230	1000	WPAR 1420	100	WSAN 1440	500
Boston, Mass.		Parkersburg, W. Va.		Allentown, Pa.	
WNAD 1010	1000	WPAX 1210	100	WSAR 1450	1000
Norman, Okla.		Thomasville, Ga.		Fall River, Mass.	
WNAX 570	1000	WPAY 1370	100	WSAU 1370	100
Yankton, S. D.		Portsmouth, Ohio		Wausau, Wis.	
WNBC 1380	250	WPEN 920	1000	WSAY 1210	100
New Britain, Conn.		Philadelphia, Pa.		Rochester, N. Y.	
WNBF 1500	100	WPG 1100	5000	WSAZ 1190	1000
Binghamton, N. Y.		Atlantic City, N. J.		Huntington, W. Va.	
WNBH 1310	100	WPHR 880	500	WSB 740	50000
New Bedford, Mass.		Petersburg, Va.		Atlanta, Ga.	
WNBR 1430	500	WPRA 1370	100	WSBC 1210	100
Memphis, Tenn.		Mayaguez, P. R.		Chicago, Ill.	
WNBX 1260	1000	WPRO 630	500	WSBT 1360	500
Springfield, Vt.		Providence, R. I.		South Bend, Ind.	
WNBZ 1290	100	WPRP 1420	100	WSFA 1410	500
Saranac Lake, N. Y.		Ponce, P. R.		Montgomery, Ala.	
WNEL 1290	1000	WPTF 680	1000	WSGN 1310	100
San Juan, P. R.		Raleigh, N. C.		Birmingham, Ala.	
WNEW 1250	1000	WQAM 560	1000	WSIX 1210	100
New York, N. Y.		Miami, Fla.		Nashville, Tenn.	
WNLC 1500	100	WQAN 880	1000	WSJS 1310	100
New London, Conn.		Scranton, Pa.		Winston-Salem, N. C.	
WNNY 1420	100	WQBC 1360	1000	WSM 650	50000
Watertown, N. Y.		Vicksburg, Miss.		Nashville, Tenn.	
WNOX 1010	1000	WQDM 1390	1000	WSMB 1320	1000
Knoxville, Tenn.		St. Albans, Vt.		New Orleans, La.	
WNYC 810	1000	WQXR 1550	1000	WSMK 1380	200
New York, N. Y.		New York, N. Y.		Dayton, Ohio	
WOAI 1190	50000	WRAK 1370	100	WSNJ 1210	100
San Antonio, Texas		Williamsport, Pa.		Bridgeton, N. J.	
WOC 1370	100	WRAW 1310	100	WSOC 1210	100
Davenport, Iowa		Reading, Pa.		Charlotte, N. C.	
WOI 640	5000	WRAX 920	1000	WSPA 920	1000
Ames, Iowa		Philadelphia, Pa.		Spartanburg, S. C.	
WOKO 1430	500	WRBL 1200	100	WSPD 1340	1000
Albany, N. Y.		Columbus, Ga.		Toledo, Ohio	
WOL 1310	100	WRC 950	500	WSPR 1140	500
Washington, D. C.		Washington, D. C.		Springfield, Mass.	
WOLS 1200	100	WRDO 1370	100	WSUI 880	500
Florence, S. C.		Augusta, Me.		Iowa City, Iowa	
WOMI 1500	180	WRDW 1500	100	WSUN 620	1000
Owensboro, Ky.		Augusta, Ga.		St. Petersburg, Fla.	
WOMT 1210	100	WREC 600	1000	WSVA 550	500
Manitowoc, Wis.		Memphis, Tenn.		Harrisonburg, Va.	
WOOD 1270	500	WREN 1220	1000	WSVS 1370	50
Grand Rapids, Mich.		Lawrence, Kans.		Buffalo, N. Y.	
				WSYB 1500	100
				Rutland, Vt.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WSYR 570 1000 Syracuse, N. Y.	XEAG 1310 10 Cordoba, Ver.	XEJV 1210 100 Juarez, Chih.
WTAD 900 1000 Quincy, Ill.	XEAL 660 1000 Mexico City, D. F.	XEWF 1310 250 Tampico, Tams.
WTAG 580 1000 Worcester, Mass.	XEAM 750 25 Matamoros, Tams.	XEH 720 250 Monterrey, N. L.
WTAL 1310 100 Tallahassee, Fla.	XEOA 660 250 Mexicali, B. C.	XEI 1370 125 Morelia, Mich.
WTAM 1070 50000 Cleveland, Ohio	XEAQ 1090 1000 Rosarito, L. C.	XEJ 1020 1000 Juarez, Chih.
WTAQ 1330 1000 Green Bay, Wis.	XEAS 1160 50 Saltillo, Coah.	XEJP 1130 100 Mexico City, D. F.
WTAR 780 500 Norfolk, Va.	XEAT 1210 250 Parral, Chih.	XEK 990 100 Mexico City, D. F.
WTAW 1120 500 College Station, Tex.	XEAW 960 50000 Reynosa, Tams.	XEKL 1240 500 Leon, Guan.
WTAX 1210 100 Springfield, Ill.	XEAY 1240 100 Mexico City, D. F.	XEL 780 1000 Mexico City, D. F.
WTBO 800 250 Cumberland, Md.	XEB 1030 10000 Mexico City, D. F.	XELA 1240 50 Saltillo, Coah.
WTCN 1250 1000 Minneapolis, Minn.	XEBA 1080 20 Guzman, Jal.	XELO 1110 50000 Piedras Negras, Coah.
WTEL 1310 100 Philadelphia, Pa.	XEBC 730 5000 Agua Caliente, L. C.	XELZ 1370 100 Mexico City, D. F.
WTFI 1450 500 Atlanta, Ga.	XEBG 820 1000 Tijuana, B. Cta.	XEMG 1060 100 Atzacotalco, D. F.
WTHT 1200 100 Hartford, Conn.	XEBH 930 500 Hermosillo, Sonora	XEMO 860 5000 Tijuana, L. C.
WTIC 1040 50000 Hartford, Conn.	XEBI 1000 25 Aguascalientes, Ags.	XEMX 1280 100 Mexico City, D. F.
WTJS 1310 100 Jackson, Tenn.	XEBJ 1160 20 Merida, Yuc.	XENC 860 50 Mexico City, D. F.
WTMJ 620 1000 Milwaukee, Wis.	XEBK 1000 100 Nuevo Laredo, Tams.	XENT 910 150000 Nuevo Laredo, Tams.
WTMV 1500 100 East St. Louis, Ill.	XEBL 1220 50 Mazatlan, Sin.	XEOK 760 2500 Tijuana, L. C.
WTNJ 1280 500 Trenton, N. J.	XEBX 640 250 Sabinas, Coah.	XEP 1160 500 Juarez, Chih.
WTOC 1260 1000 Savannah, Ga.	XEBZ 1160 100 Mexico City, D. F.	XEPN 730 100000 Piedras Negras, Coah.
WTRC 1310 100 Elkhart, Ind.	XEC 1150 100 Tijuana, L. C.	XERA 840 350000 Villa Acuna, Coah.
WVFW 1400 500 Brooklyn, N. Y.	XECW 1310 10 Mexico City, D. F.	XES 990 250 Tampico, Tams.
WWAE 1200 100 Hammond, Ind.	XECZ 1370 100 San Luis Potosi, S.L.P.	XET 690 5000 Monterrey, N. L.
WWJ 920 5000 Detroit, Mich.	XED 1160 2500 Guadalajara, Jal.	XETB 1310 125 Torreon, Coah.
WWL 850 10000 New Orleans, La.	XEDA 1220 200 Gra. Anaya, D. F.	XETF 1220 30 Veracruz, Ver.
WWNC 570 1000 Asheville, N. C.	XEDP 1080 500 Mexico City, D. F.	XETH 1210 100 Puebla, Pue.
WWRL 1500 100 Woodside, N. Y.	XEDW 1150 20 Minatitlan, Ver.	XEU 1010 250 Veracruz, Ver.
WWSW 1500 100 Pittsburgh, Pa.	XEE 1210 50 Durango, Dgo.	XEW 890 50000 Mexico City, D. F.
WWVA 1160 5000 Wheeling, W. Va.	XEF 1450 100 Juarez, Chih.	XEX 1310 125 Monterrey, N. L.
WXYZ 1240 1000 Detroit, Mich.	XEFA 1180 580 Tacuba, D. F.	XEXB 1270 50 Jalapa, Ver.
W3XJ 1060 100 College Park, Md.	XEFB 870 200 Monterrey, N. L.	XEXC 810 350 Aguascalientes, Ags.
WSXO 700 500000 Cincinnati, Ohio	XEFC 550 100 Merida, Yuc.	XEXD 1340 350 Jalapa, Ver.
XEAA 920 200 Mexicali, B. C.	XEFE 980 25 Laredo, Tams.	XEXH 1250 250 San Luis Potosi, S.L.P.
XEAC 980 250 Tijuana, L. C.	XEFI 1440 250 Chihuahua, Chih.	XEXS 1000 100 Portable in Mexico
XEAD 1060 125 Guadalajara, Jal.	XEFJ 1230 100 Monterrey, N. L.	XEYO 940 500 Mexico City, D. F.
XEAF 990 750 Nogales, Son.	XEFO 940 5000 Mexico City, D. F.	XEZ 630 500 Merida, Yuc.

FOR BETTER RECEPTION

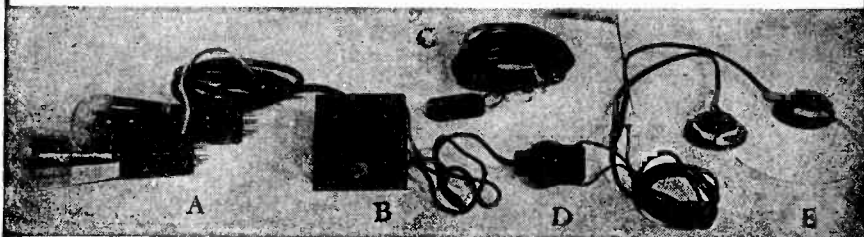
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WNBR, Memphis, will change its call letters to WMPS.

CXAS, 9505 and CXA14m 15170 kcs., Uruguay, relay the programs of LR3, "Radio Belgrano," Argentina.

ZP14, "Radio Cultura," Villarica, Paraguay, transmits from 11 am to 5 pm on 6312 kcs.

New Danish station heard on 11805 kcs. testing with directional aerials from 6:30 to 8:20 pm EST.

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