

NSE

THE OCTOBER 1937

25^c

RADIO INDEX

The All-wave Radio Log



All the Broadcasting Stations
with Names of Owners
Aerial Construction Data
Tuning Foreign Stations
Shortwave Schedules

No. 112

RADIO AMATEUR CALL BOOK

LATEST EDITION

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

We pay the postage,



\$1.25

TIME CONVERTER

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

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

The price is only

25c

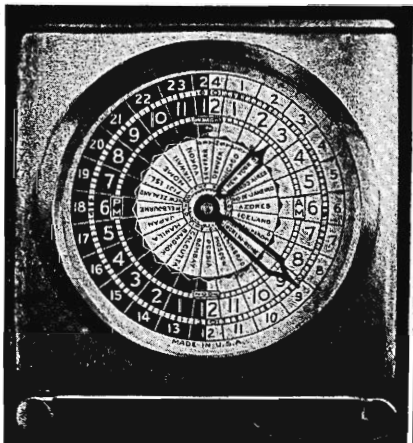
(26c In Ohio)

Tells time like an ordinary clock and automatically shows authentic time in every other zone around the world.

Actual size is 5 1/2 inches high
by 4 1/4 inches wide.

Has A. M. and P. M. divided dial and 24-hour dial.
40-hour movement.

Just wind it and set it for the correct time. No further adjustment nor calculation is required.



Modernistic Design of Brushed Brass

What DXers Have Always Wished For!

AN INTERNATIONAL CLOCK

PRICE

\$4.95

Order all these items from

THE RADEX PRESS

14717 Detroit Ave.,

Cleveland, Ohio

FOR BETTER RECEPTION

The Perfect Phone Adapter makes it easy to attach headphones to any radio set. Anyone can install it, without tools, in no time at all.

IDEAL FOR THE HARD-OF-HEARING

Those who are very hard of hearing can enjoy radio reception by using our new HOH Model Adapter. The speaker can be silenced if desired.

In ordering be sure to give make and model of receiver and a list of the tubes used.

The HOH Model Phone Adapter.....\$3.95

We pay the postage on all orders

If you live in Ohio add 3% for Sales Tax



THE RADEX PRESS
14717 Detroit Ave., Cleveland, Ohio

ACCESSORIES

- 6-Foot extension cord with connector 50c
- Distant Volume Control**, for regulation of volume of set from a distance \$2.00
- Trimm Featherweight Headphones.** Precision built, combining ultra-sensitivity with rugged construction. Weigh 4 $\frac{1}{4}$ ounces complete. 24,000 ohms.... \$8.50
- Trimm Professional Headphones**, the choice of countless users. Professional type. 4000 ohms \$4.00
- Trimm Dependable Headphones**, long a favorite with amateur operators. The best in the world for the money. 2000 ohms \$3.25

Prices on single-unit or special 'phones on request.

We pay the postage on all orders

If you live in Ohio add 3% for Sales Tax

THE RADEX PRESS
14717 Detroit Ave., Cleveland, Ohio

OCTOBER 1, 1937



RADIO INDEX



Reg. U. S. Patent Office

ELIZABETH S. BUTLER

Publisher

PAGE TAYLOR

Editor

ASSOCIATE EDITORS

B. FRANCIS DASHIELL, *Technical*

CARLETON LORD, *Broadcast*

FOURTEENTH YEAR

NUMBER 112

CONTENTS

Cover Girl—Sally Vass, of the Increasingly Popular Vass Family

	PAGE
The Radio Codes Explained	3
A RADEX Call-o-Gram	8
Overseas Broadcasting Notes	9
Universal DX Club Corner	11
Readers Ask About Aerials, <i>by B. Francis Dashiell</i>	13
Night Life of the Radexers, <i>by Carleton Lord</i>	20
Tuning the Amateurs, <i>by Bernard Ahman, Jr.</i>	26
Amateur Calls Heard	28
Leaves From a DXer's Scrapbook, <i>by Count de Veries</i>	30
The Shortwaves in Review	34
SWL Trading Post	39
New Radio Shows for Fall, <i>by "Betty"</i>	40
Month's Changes in Station Data	43

\$1.75 Per Year

25c Per Copy

See Subscription Blank on Page 96

Published Monthly Excepting July and August

THE RADEX PRESS

14717 Detroit Avenue

Cleveland, Ohio

Entered as second-class matter April 23, 1931, at the postoffice at Cleveland, Ohio,
under the act of March 3, 1879.

Printed in U. S. A.

The Radio Codes EXPLAINED

• • • For New Dxers.

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

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

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

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

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

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



Finis Barton, young Australian actress, has appeared in "Columbia Workshop" dramatizations over the CBS. Prior to entering the broadcasting field she was engaged in Shakespearean stock company presentations on the Pacific Coast.

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

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

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

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

Wavelengths—Frequencies

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

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

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

The abbreviations for these various forms of measurement are, the

Greek letter "L" (similar to an inverted Y) for wavelength. "Kcs." for "kilocycles per second." "Megs." for "megacycles per second."

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

Power

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

Time

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

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

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

utes slower than Greenwich, but the standard time differs by exactly five hours.

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

A Time Conversion Table is printed every month in RADEX, showing EST by the 24-hour clock, GMT, and a third time zone which is changed every month. Last month this was EST by the 12-hour clock; this month we show Central Standard Time and next month Mountain Standard Time will be shown in the table.

Radio Districts

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

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

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

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

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

Fifth District (W5—) includes the States of Arkansas, Louisiana, Mis-

issippi, New Mexico, Oklahoma and Texas.

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

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

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

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

K4 includes Puerto Rico and the Virgin Islands.

K5 includes the Canal Zone.

K6 includes Guam, Hawaii and Samoa.

K7 includes Alaska.

International Prefixes

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

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

The Spanish Alphabet

Familiarity with the pronunciations of the letters of the Spanish

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

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

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

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

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

Amateur Lingo

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

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

To save the trouble of sending a

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

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

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

A QSO is communication between two stations.

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

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

A QRA is a station's address.

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

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

QSA and R Codes

The R code describes the volume with which a signal is heard.

- R1 is a signal that is barely perceptible.
- R2 is a very weak signal.
- R3 is a weak signal.
- R4 are signals of fair volume.
- R5 are fairly good signals.
- R6 are good signals.
- R7 are moderately strong signals.
- R8 are strong signals.
- R9 are extremely strong signals.

The QSA Code is used to describe the understandability of a station's signal.

QSA1 is a signal that is unreadable.
QSA2 is one that is barely perceptible. A word can be understood now and then.
QSA3 is understandable with difficulty.
QSA4 is a signal that can be understood with practically no difficulty.
QSA5 is perfectly understandable.

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

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

These symbols are written like this:

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

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

Reply Coupons

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

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

Arthur Godfrey, popular announcer, owns every modern means of conveyance except a locomotive engine.

Antenna Wrinkle

By Carrol Weyrich

DURING the summer I have been doing a little experimenting with antennas. Out of curiosity an eight foot antenna of the type which is used on automobiles was purchased, just to see what it would do on a regular home set. The results have been very satisfactory.

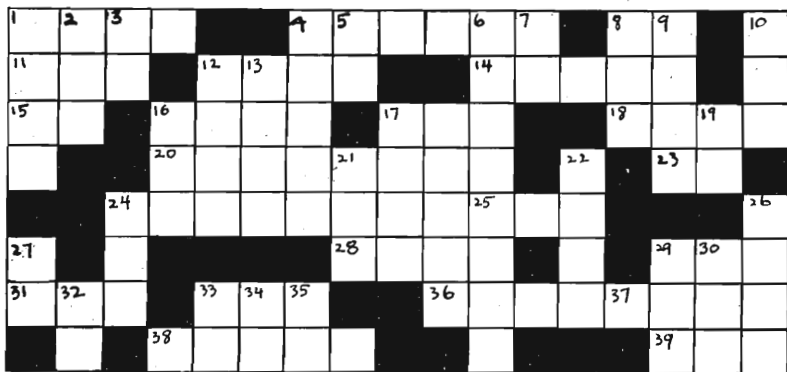
I also have an inverted L type aerial 45 feet long, running east and west. Using a 1938 Hallicrafters Super Sky rider, which is equipped with an R meter, I have made tests switching from one aerial to the other, and have found that the 8-foot vertical increased signal strength anywhere from 1 to 3 R units, both on the broadcast band and shortwaves.

I can recommend this type aerial to anyone who has no facilities for erecting a long antenna, and am sure they will receive results at least equal to my own. I have found the vertical so much superior that I am now using it exclusively.

The reason for this unusual performance, I can attribute only to the fact that the aerial is non-directional, and perhaps the additional fact that it has more surface than a strand of wire.

The Department of Transport, Ottawa, announces the addition of a new station. It is CHLT, located at Sherbrooke, Quebec, and works on 1210 kcs. with 100 watts. The licensee is La Tribune, Ltd.

Two DXers "Down Under" desire to exchange their SWL cards for yours. They are Ron Daniels, 95 Fargo St., Bundaberg, Qsld., Australia, and G. M. Anselme, 16 Hartley St., Rozelle, NSW, Australia.



The RADEX CALL-O-GRAM

● ● ● By Lloyd J. French

Horizontal

1. Wonderful North Carolina.
4. Make of radio.
8. Symbol of the Mystic Knights of the Dial.
11. Owned by McClatchey Newspapers.
12. We Kill Blues Instantly.
14. The Pine Tree State.
15. Canadian Province (abbr.).
16. Former call for WCOL.
17. In St. Louis.
18. Bridgeport (reversed).
20. Read this when you have finished.
23. Western State (abbr.).
24. Same as 20.
28. Deleted Canadian Nat'l. Railway's station in Ottawa.
29. 900 kcs. in the 46th State.
31. Has a sister station on 1180.
33. F.D.R. probably listens to this.
36. In western Florida.

37. Quebec on 960.
38. In South America.
39. On 760.

Vertical

1. Kansas on 1370.
2. NBC Red in Memphis.
3. A State (abbr.)
5. Laughter.
6. In Santiago, Cuba.
7. Identifies Peru.
8. N. C. at Duke University (last 3 letters).
9. One of two 10 watters in Mexico.
10. On 760.
12. Shares with WCBA.
13. Checks 2nd Thurs. at 5 a.m.
16. Formerly synchronized with WOC.
17. Arkansas on 1500.
19. Preposition.
21. This rules the air waves.
22. Texan formerly on 1290.
24. Cuban—third most powerful.
25. Cuban on s.w., relays CMQ.
26. KPJM used to be where this one is now.
27. Twenty-five stations begin this way.
29. Broadcasts all games of the Indians.
30. The Voice of Paramount Pictures.
32. Southern State (abbr.).
34. Inaudible.
35. Middle letters of Enid, Okla. call.

Special Program From WJBO

Mr. Wilbur T. Golson, Chief Engineer of WJBO, Baton Rouge, La. informs us that WJBO will transmit special programs on the first and fourth Sunday morning of every month from 2 to 4 EST. The first hour of each broadcast will be presented from the studios located at the campus of the Louisiana State University, with an all-student cast of entertainers from the School of Broadcasting. The second hour of

the broadcasts will be conducted by Mr. Golson, with DX News, answers to DX mail and musical selections requested by DXers.

WJBO is now working on its new frequency of 1120 kilocycles with 500 watts power.

Former stenographers who have made good on the air are Betty Caine, star of "A Tale of Today"; Lucille Manners, Carol Deis, and Dorothy Lamour.

Overseas BROADCASTING Notes

RECENT revisions in the Australian stations are given below:

960 kcs, 5DN, Hume Broadcasters, Ltd., Adelaide, increased power to 500 w. Station 5KA of the Sport Radio Brdcastg. Co., Ltd., Richards Bldgs., Currie St., Adelaide, transmitting on 1200 kcs, boosted its power to 500 watts. 5AD on 1310, Advertiser Newspapers, Ltd., Weymouth St., Adelaide, also jumped to 500 watts.

Changes in Ownership: 6AM of Northam, 980 kcs., has been acquired by the 6AM Brdcasters., Ltd., St. George's Terrace, Perth. 3YB of Warrnambool, 1210 kcs., was taken over by the Argus Brdcastg. Services, Pty., Ltd., and the same firm has also acquired 3SR, Shepparton, on 1260 kcs. The Irrigation Area Newspapers, Ltd. have purchased 2RG, Griffith, on 1470 kcs.

7HT, 1080 kcs., Metropolitan Broadcasters, 44 Elizabeth St., Hobart, Tas., shifted its frequency from 1330. This station's transmitter is situated at Rosny Hill. 3SH, Swan Hill Brdcastg. Co., Campbell St., Swan Hill, moved from 1130 to 1330 kcs. 4WK, Warwick Brdcastg. Co., King and Albion Sts., Warwick, moved from 1360 to 1340 kcs.

The Australian Broadcasting Co., Ltd., now has a network of twelve stations in three states in Australia. This network is now in operation. The twelve member-stations are as follows:

Sydney, NSW, 2UW
Wagga, NSW, 2WG
Melbourne, Vic., 3UZ
Shepparton, Vic., 3SR
Warrnambool, Vic., 3YB
Warragul, Vic., 3UL
Brisbane, Qsld., 4VC
Maryborough, Qsld., 4MB
Rockhampton, Qsld., 4RC

Toowoomba, Qsld., 4GR
Kingaroy, Qsld., 4SB (under construction).

Roma, Qsld., 4ZR.

Of this group, the Commonwealth Broadcasting Corp. owns or controls seven and the Nilsen's Broadcasting Service, Pty., Ltd., owns four.

Station 7ZL at Hobart, Tas., is wandering around the dial again. It has shifted from 620 to 680, then finally to 650 kcs. As this happens to be the frequency used by 1YA in Wellington, reception of 1YA has been ruined in parts of New Zealand.

The new Australian station 6PM was opened on April 22nd this year. 2PM is operated by 6AM and 6PM Broadcasters, Ltd., and is situated on the eastern boundary of Fremantle, only 7½ miles from Perth. The frequency is 1390 kcs and 100 watts power is radiated.

New Australian stations on the air, according to information direct from the Postmaster-General's Department, are 2CR, Central Regional station at Cumnock, NSW, on 550 kcs with 10 kw in the aerial, and 7QT, Queenstown, Tasmania on 900 kcs with only 100 watts. 7QT is owned by the West Coast Broadcasters, Pty., Ltd., 21 Paterson St., Launceston, Tas.

In New Zealand

Alan Hutchinson, 15 Embo St., Dunedin, N. Z., reports five new stations on the air. They are 2CR, Cumnock, NSW., 550 kcs; 2YD Wellington, 990 kcs; 3UL Warragul, Vic., 1000 kcs; 7HT Hobart, Tas., 1080 kcs., and 2ZB Wellington, 1120 kcs.

According to a writer in the New Zealand Radio Record, the operators of the new 2YD in Wellington must have been listening to KFI Los Angeles, because the N. Z. station is specializing in light drama,

variety, thrills, rhythm, new features and new personalities. And, instead of the usual dignified announcements, 2YD will have snappy announcements. 2YD was opened on Sunday, April 25, and transmits on 990 kcs. from 7 to 10 pm nightly, NZ Time (2:30 to 5.30 am EST).

"The government is now attempting to take over all the B stations but four of the locals, 4ZB, 4ZO, 4ZM and 4ZL' have refused to sell at the price offered," reports A. I. Breen of Dunedin. Mr. Breen states that they will not be forced to sell unless they are satisfied, so the position is still quite indefinite. He says he has reason to believe, however, that 4ZR at Balclutha will sell and close down shortly, and that 4ZL in Dunedin will most likely also disappear. 3ZM was one of the stations sold, and was deleted as of August 1st. At that time the new commercial station 3ZB came on the air.

Contrary to former notices, 2YB at New Plymouth, will remain on 760 kcs and not shift to 1060.

The New Zealand government has announced a new station of 5 kw capacity will be erected in Hawkes Bay and Southland.

In China

Recent revisions in Chinese stations have been brought to our attention by Mr. A. I. Breen of Dunedin, New Zealand. XLJA, Nanchang, 1430 kcs with 20 watts is one of the new broadcasters. Others are: XOCL, Tsinan, 1500 kcs., 150 watts; XGOM, Tientsin, 730 kcs., 15 watts; XGOY, Kunming, works on 7500 kcs with 100 watts during the day only and on 776 kcs with 250 watts at night.

XLHM at Shanghai on 1480 kcs transmits with 50 watts from midnight until noon, from 7 to 9 pm and from 11 pm to midnight, EST.

XLHG, Shanghai on 800 kcs works from 6 to 11:15 p.m EST daily with 100 watts.

XGOV in Changsha is now on 790



Walter and Irene Wicker, one of radio's most successful husband-and-wife combinations, offer living proof that marriage and careers may be mingled without harm to either. Irene is best known as NBC's Singing Lady, while Walter acts, writes and produces. He is co-author and a member of the cast of Today's Children.

kcs with 10,000 watts power. The operating hours are 10:30 pm to midnight and 4 am to 10 am, EST.

XGOF in Tsinan on 805 transmits with 500 watts from 7 to 11 pm and 5:30 to 11 am, EST.

A "powerful little 5-watter," XGKE, is now on the air on 1000 kcs. This Nanchang station transmits from the same location as 300 watt XGOC on 1130 kcs. It is not expected that XGKE will blast our loudspeakers this winter, but we are keen to report *all* the news and our Chinese readers at least will be glad to have it.

In South America

A new Uruguayan station, known as "Radio el Mundo," CX38, is now transmitting on 1290. The studios are located at Ibicuy 1285, Montevideo.

CX42, also in Montevideo, has changed its name to "Tribuna Son-

ora." The frequency of 1370 and the address, Av. Italia 3646, remain the same.

LRA, Radio Municipal, Buenos Aires, was officially opened on July 6. LS11, Radio Provincia de Buenos Aires, is planning to replace its present transmitter with German-built equipment of the same type as used by DJA, DJB, etc. LR2 will increase its power to 125 kw., using new Philips units to be brought from the Netherlands. LR3 commenced on July 9 to relay their programs over shortwave stations in Colonia, Uruguay, and the programs of LR2 will be heard through CXA2 in Montevideo. Our South American reporter believes, however, that the Argentine government will find these shortwave rebroadcasts illegal and they may be terminated.

Most of the Brazilian stations have boosted power, the most important being the following:

The station at Joao Pessoa on 640 kcs., to 10 kw.; PRA4, 1090, 10 kw; PRA5, 1260, 5 kw; PRA8, 730, to 25 kw; PRB7, 900, 5 kw; PRC2, 680, to 5 kw; PRC5, 670, to 2 kw; PRC8, 1360, 5 kw; PRE2, 1430, 5 kw; PRE4, 1340, 5 kw; PRE8, 980, 20 kw; PRE9, 1320, 2 kw; PRG3, 1280, 25 kw; PRG9, 1100, 20 kw; PRH3, 1160, 5 kw; PRH4, 1320, 2 kw; PRH6, 1300, 3 kw; PRH9, 840, 5 kw; and PRI3, 880, to 22 kw.

New stations for Chile are either under construction or already in operation on 630, 680, 730, 960, 1270, 1330 and 1500 kcs. On 630 is CA63, Iquique, a 250 watt station owned by Antonio Cajiao. Known as "La Voz del Norte," its studios and transmitter are located at Cavan-cha.

CB68 on 680 kcs, is now on the air. Situated at Valparaiso, this one kilowatt job, known as "Metro," is owned by Renard y Garcia, Tello. CB73 at Santiago is also on the air,

(Please turn to Page 48)

Universal DX

Club Corner

• • • By "Pooky"



YOU know, friends, material of strictly secondary importance like this column, must be submitted to RADEX a full month before publication. As this is being written, the September issue of RADEX, containing the grand announcement of the UDXC Mysterious Contest, has not appeared on the stands! For this once, we have really a good excuse for the lack of entries.

In these straits we appealed to some of our members to help us out and Mr. Floyd L. Hammond, Pleasant Street, Dexter, Maine, turned up with a very creditable little article. We print it below, first because we think you'll be interested in it, and secondly because it's a good example of the kind of thing that will win our Eight Mysterious Prizes away from us. The article is not eligible for a prize, and we want particularly to thank Floyd for his kindness. If you don't agree with Floyd's conclusions—friends, you have no excuse for not writing a refutation of them and entering it in the contest.

Address entries, queries, suicide notes: "Pooky", UDXC Headquarters, 345 Maple Avenue, Oradell, New Jersey.

A PLEA FOR THE VERTICAL ANTENNA

"Lately the Vertical Antenna seems to have been discarded in favor of more elaborate and expensive

antennas. Someone has sold us on the idea of the doublets and double-doublets (Pooky says: a fellow up in Ontario has even experimented successfully with quintuplets) and we seem to have forgotten how much can be done with a single straight vertical wire. It has advantages that no other aerial can have.

"The Vertical Antenna in my opinion is inherently less noisy than almost any other type of aerial, especially in crowded locations. I do not say that it raises the signal level (the theorists claim that it lowers it slightly) but I do say emphatically that it lowers the noise level a great deal, and that, practically, is the same thing. Suppose, for instance, that you are listening to the radio while your XYL is vacuuming the living-room rug; when she turns off her vacuum cleaner your signals seem to be twice as loud and clear as before, although there has been no change in their actual strength. The Vertical Antenna, by virtue of its design and without benefit of shielding or gadgets, reduces noise and so improves reception.

"The Vertical Antenna has one other advantage that in some locations makes it worth all the others put together, and that is the fact that it takes up almost no room. A Vertical Antenna 30 ft. high is more than the equal of an Inverted L 30 ft. long and you need only a few square inches of surface to erect it.

Think that over, you fellows in apartment houses in the city, where the roofs are a maze of wires. If you put up any other kind of aerial it will be severely limited in length and in direction, and every other aerial on the roof will be dumping interference onto it. If you put up a Vertical Antenna you will have all the room you can possibly use, all to yourself. Literally, the sky's the limit.

"I recommend a single stout pole 30 to 35 ft. high, erected securely on the roof. At the top of this you should place (Pooky says: beforehand) a horizontal arm about four feet in length, projecting from the pole at right angles. The aerial wire is simply suspended from an insulator at the end of the horizontal arm and run down to your set. Run it directly as possible, with as few bends as possible. Don't have it come to your set at a gradual angle, as this tends to destroy the noise-free effect. Keep it at least three feet away from the wall and all large objects as long as possible. In an apartment house you should be able to erect the pole on the edge of the roof with the arm projecting over the wall directly above your radio. This aerial is non-directional, of course.

"I think I have tried them all, all the formulas and all the gadgets, and I will stack the old Vertical up against any of them, particularly in the city. It is a simple, logical antenna that gives you the results you pay for and don't get in the elaborate and complicated commercial models. (Pooky says: Floyd, you don't mean the Philco aerial we're giving as one of the prizes!) (Floyd says: yes, I do!) (Pooky says: aw, shucks! — well anyhow, thanks, OM.)"

Three Canadian stations have increased power, according to the Dept. of Transport at Ottawa. CKCK, the Leader-Post, Ltd., Regina, Sask., working on 1010 kcs., is now using 1000 watts. The Manitoba Telephone System station at Brandon, CKX, increased to 1000 watts on 1120 kcs. CFCF in Montreal, The Candian Marconi Co., increased from 400 to 500 watts.

Our Readers Ask About AERIALS

• • • By The Technical Editor

Indoor Antenna

I HAVE a General Electric, model A-83 receiver with 8 metal tubes, and wish to use this in my home with an inside antenna. Will you please tell me how the best type of indoor aerial can be constructed?

While a set of the above type will pick up radio signals with almost no antenna, because of its sensitivity, a good aerial is half the pleasure of owning a set. In our opinion, the best antenna is that which is erected outdoors, as high as practicable, and of the correct length to provide resonance over the major important wave bands. This, in effect, calls for an aerial of the noise-reducing type, such as the doublet or newer straight-line kinds.

All this, however, does not preclude the use of a good indoor antenna. Indeed excellent results have been obtained simply by using a small wire surface within the home—a bed spring, for instance, or a window screen. If the house has a good open attic, so much the better. It is not wise to attempt the erection of a doublet antenna in the attic. The length necessary to stretch out the two wires is not available. Instead of this, an antenna, such as the new RCA Magic Wave, can be utilized in an attic because its length of wire may be stretched around two or three sides of the attic walls under the roof. However, much of the effect is lost if the roof is metallic. These antennas use coupling transformers at the upper and lower ends of the leadin wires, and tend to eliminate much of the electrical and static noises picked up within the home. The leadin wires can be run to any point in the house regardless of distance.

A simple type of "L" antenna, in which the leadin wire also figures as length, is to stretch a single wire diagonally across the attic, so as to get it as long as possible, and continue one end of it down to the radio set. This provides a single wire of one length, and it is wise to cut this total wire to a length that is equal to one half of the length (in meters) of the most used short-wave band on the receiver. There is little difference in the relationship between antenna length and wave length when the ordinary broadcast band is used. Other indoor antennas may consist of wires looped around a room, under the rug or carpet or attached to picture moulding. A new type, more limited in its scope, is the telescopic whip antenna having a maximum height of about 8 feet. The insulator base is attached to the window sill outdoors, and the aerial rod or "whip" is projected out from the window at an angle that is adjusted experimentally until best reception is noted. One example of this type is the new ICA (Insuline Corp. of America) "Windo-Pole" aerial. It solves the antenna problem in homes and apartments where it is inconvenient to install roof or indoor antennas, and is quite efficient for both short-wave and standard broadcast reception.

Separate Antennas

My receiver has 11 tubes and seems very satisfactory. But my aerial is an ordinary "L" type with leadin about 38 feet in length. The flat top portion is horizontal, about 49 feet long, and is supported between poles a distance of 47 feet above the ground. The set has four wave bands in the short-wave section—1.5 to 3.6, 3.6 to 7.2, 7.2 to 14.0,

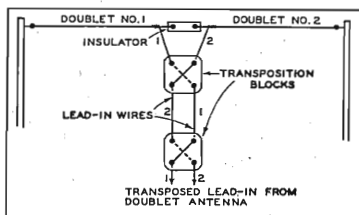
and 14.0 to 22.5 megacycles, respectively. Can you tell me the length of the flat top antenna that will be best for these bands and using a leadin of 38 to 40 feet? Can I use two aerials with a switch in the house so as to obtain maximum efficiency?

We do not lean favorably toward the "L" type of antenna when there is sufficient outdoor space to erect an aerial of some different kind. While the "L" antenna is quite directional, provided the leadin is very short, it should be remembered that the leadin wires of this system are important since they pick up signals just the same as the flat-top portion overhead. This, then always makes it difficult to consider antenna length when an "L" type is to be designed to operate efficiently over all the short-wave bands incorporated in the set.

The Radio Corporation of America has recently developed a new "L" type antenna, and the length of the flat top may be varied from 20 to 120 feet to suit the space available. The lead in wire can also be varied to suit. This is an innovation in antenna design, and is made possible by a system of antenna and set-matching transformers. These make it possible to match the leadin to the antenna and then to the receiver, so that losses will be at a minimum. This aerial covers the entire all-wave band equally well from 530 to 23,000 kilocycles, embracing your requirements.

It is known that the length of antenna bears a direct relationship to the length of the waves picked up. An aerial that is cut to one half the length of the wave to be picked up intercepts a maximum amount of energy, but we cannot have a lot of wires of different lengths for all portions of the wave bands on the dial. If we utilize a double-doublet, such as the one designed some time ago by RCA, we reach a happy medium.

This is particularly true on the shorter waves; the broadcast band not being so critical. Also, good response will be obtained at some of the harmonics or multiples of the waves being received. A doublet having a total length of 60 feet (two halves each of 30 feet), will respond well to signals having a wave length of 120 feet or about 31 meters. But in the 19 megacycle band this antenna will give only weak signals, for then its total length should be approximately 40 feet. The double-doublet has two antennas, one with an over-all length of 58 feet and one with a total length of 33 feet. The shorter antenna is erected under the longer. Both are specially connected together and to the leadin line. A set-matching transformer is used at the lower end of the transmission line

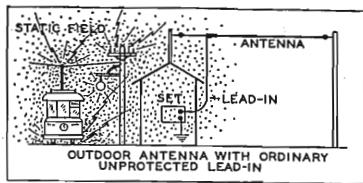


to match the impedances of the two. This transformer covers a range from 540 to 18,000 kilocycles. The transmission line is 80 feet long and must not be cut. Any excess line is coiled up behind the radio, and if more is required an additional 80-foot line must be attached. If you desire to erect separate antennas for each of the wave bands, compute the average for each band in meters, divide by two and erect antennas of these different lengths. This is not entirely satisfactory unless you use doublets with twisted transmission lines carefully matched to the input impedance of the receiver.

Railroad Interference

My home is between an electric car line and a railroad. Over the house is a power line that runs heavy machinery in a nearby shop. I can erect my antenna about 50 feet in the air, above the railroad lines with a long lead-in wire. How can I get away from this interference so I can pick up some of the short waves and get better reception?

The widespread popularity of short waves and the fact that these signals usually come from great distances and have become weakened, brings out the fact that man-made interference is a problem of the first magnitude. How to eliminate this noise and static is holding the attention of radio's greatest minds. Noise reducing aerials with lead-ins that do not pick up local interference seem so far the only solution. When one is placed in a spot such as yours, the problem becomes doubly acute, and surely you have the sympathy of a legion of short-wave fans. Perhaps there will be many who will tell you how they solved some similar situation.



We think that a good doublet antenna, erected as high as practicable, and *parallel* to the wires that give off the interfering static waves, together with the best transmission line that you can procure, will be your best attempt to overcome the trouble. If you use a single wire antenna, such as an "L" or "T" type, you must then erect it *across*, or at right angles to, the power lines. It is well to use a special

down lead, such as the Lynch "Giant Killer" transmission line, and which we can recommend as excellent for the purpose. The new RCA antenna, mentioned elsewhere in these answers, is worthy of study in your case.

Any remaining trouble is in the flat-top portion of the antenna. Here the interfering signals are picked up along with the radio waves. There is little that can be done to prevent it, unless the wires are erected as high and far away as possible from the static sources. The length of lead-in is of little concern, for you can use up to 300 feet, without appreciable loss of energy. If you are sure that the interference reaches the set through the antenna, then a study of aerials is in order. However, some noise may come to you through the wiring of the home which also acts as an aerial and picks up stray electrical waves and carries them into your receiver. In this case it will be well to consider a good type of power-line noise filter, such as a small Tobe model.

When you erect the antenna use two or three good glass insulators between its supports and the end of the doublet wires, placing about 6 inches of wire between insulators. This is important if your supports happen to be made of pipe. It is possible for nearby metal to re-radiate interference waves to the adjacent antenna wires. A ground lead too can cause trouble, and frequently outside interference is reduced by removing the ground wire entirely and depending upon the doublet lead-in only. If you can construct a ground by driving one or two 6-foot lengths of new $\frac{1}{2}$ -inch pipe down into moist earth at least 10 feet or more from any gas or water pipes, and connect together with heavy copper wire, well soldered, you will improve your ground and find it less noisy. This, of course, in case your set needs a

ground, and a good doublet cannot be used.

Short Antenna

I wish to erect a new antenna on 20-foot iron pipes above the roof of my two-story house. At the top I expect to use a short doublet, which cannot be stretched out because there is not sufficient length, and lower down there will be an "L" type aerial. Can these antennas be switched to the set at will?

It is unfortunate that frequently the good qualities of a doublet type of antenna cannot be utilized in full because lack of space prevents the full length of the wire from being stretched between the two supports. As soon as you cut down the length, which must be removed in equal sections from both extreme ends of the doublet wires, you change the whole balance of the system and prevent it from resonating on the frequencies to which it is tuned. Then, too, coils and transformers sometimes must be used to load the antenna and bring it back to its peak. All these things add additional and energy wasting parts in the circuits.

Place at least two insulators at the ends of the aerial wires, so as to keep the wire ends at least two feet from each iron pipe. You should have no trouble with the "L" antenna, and any good doublet with loading coils, such as RCA's World Wide type, will be satisfactory. However, we should like to call your attention to the new RCA antenna, called the "Magic Wave," which is not critical as to length, and in fact, may vary between 20 feet to 120 feet in distance between ends. This antenna is really an "L" type, but there is a new transmission line and special antenna and set-coupling transformers. We think you could use this type in the limited space available, erected at the top so as to be as high as possible, and without the lower "L" type aerial which

you mention as desiring. This system tunes uniformly between 530 and 23,000 kilocycles. If you address the RCA Manufacturing Co., at Camden, N. J., and mention RADEX, they will mail you data on this new system so you may decide whether it is suitable to your conditions.

Using Two Antennas

I have a spider web antenna up now, pointing east and west, and it brings in north and south stations very nicely. I have a G. E. single V doublet also, and do you think I could put it up running north and south for east-west stations, and have both leadin lines attached to the receiver, which is a RCA Victor 15K? At one place these two antennas would be about 5 feet apart.

Since the two antennas, one pointing north and south, and the other east and west, should cover the four points of the compass broadside to the line of the antennas, it is practicable to use them both with one set. To do this we suggest that you procure a porcelain base 110-volt double-pole double-throw knife switch. This has six connections. The two contacts in the center, which attach to the two blades, should be connected to the two terminals of the receiver with a very short length of twisted wire—not more than a few inches. The twisted leadin or transmission line from one antenna should connect to the pair of contacts at one side of the switch, and the other line to the two at the opposite end. Moving or throwing the switch from one side to the other will connect either aerial to the set in an instant. If you use a set transformer for matching the impedance of the transmission line, it should be connected between the switch knives and the set. If you use two transformers, each should be connected at the switch terminals for the two leadins.

Local Noises

I am a patient in a sanatorium, equipped with every modern electrical device, and I naturally pick up these noises on my bedside Crosley 5-tube all-wave set. What about a noise eliminator? Are they expensive? Also what antenna will help me? The building is equipped with a central receiving set and headphones for every patient. Is it possible that this system causes interference?

It is more than likely that you are picking up many noises through the power lines of the hospital. Where so many electrical devices are constantly used, switches are clicked on and off almost incessantly, cleaners and elevators always run, and not least, but most troublesome, are the radio therapy machines and x-rays. Noise entering the receiver by way of the electric power line usually can be suppressed by the insertion of a filter device between the outlet plug and the set. If the filter has a ground terminal, do not connect it to the ground terminal of the set, but connect it to the conduit of the wiring system or the metal plate around the wall socket outlet. Do not use a filter that is too small, but procure one that has a combination of condensers and coils, for capacity and inductance is what is needed to do a proper job of filtering. A good one should cost approximately five dollars.

In addition to the noise that comes to your set by way of the power lines there is a certain amount that is picked up by the aerial and leadin wire. We do not know whether this is your case, for you may be using a very good noise-eliminating aerial. Any reliable antenna, if equipped with a proper kind of twisted transmission line of the correct length and a set transformer to match the input impedance of the receiver, should cut

down noise pick-up between the antenna top and the set. However, what takes place up at the antenna is something no one can control. The only thing to see is that the horizontal wires are placed as far away as practicable from elevator housings, power wires and other sources of interference, as well as nearby antennas. In any case the doublet antenna must be erected parallel to nearby electric wires.

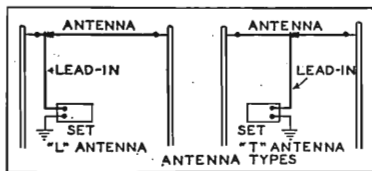
We doubt whether much interference is brought to you through the hospital system of radio reception. Of course, local noises may be picked up by the headphone wiring system and conducted to your set if it or its antenna wires pass very close to the headphone wires.

Grounded Aerial

What length should a grounded antenna be if it has a flat top inverted "L" and uses 38 feet of light insulated telephone wire for leadin? I wish it to work on the three wave bands indicated—3.7 to 7.2, 7.2 to 14.0, and 14.0 to 22.5 megacycles.

We might speak of the grounded type of antenna as the old type, since it was in fashion long before doublets and noise-reducing antennas were known. In the grounded antenna system the two terminals of the radio set are connected to the overhead antenna wire and to the ground. There are three important features to consider—the length, height and ground system. This type should be as high as practicable with a good ground contact. The ground may be made to a cold-water pipe where it enters the basement of the house. The ground lead should be as short as possible.

The antenna top usually is "L" or "T" shaped, with a single down lead wire. In the former type of antenna the leadin in particular adds to the effective length of the wire available for picking up signals. If a double leadin is used, then we get into noise-eliminating an-



tennas; the doublet type corresponds to the "T", and the so-called Zeppelin or "Zepp" type being similar to the "L" antenna. The antenna length should be approximately one half a wave length for the lowest frequency to be used in each wave band. Some experimenters believe that the length should be cut to one half a wave length for the average coverage of the band used. Thus, in your set, an average antenna on the 3.7 to the 7.2 megacycles limit (5.5 mcs. or 55 meters), should be 27.5 meters or 92 feet, including leadin, if the antenna is of the inverted "L" type. Since you use a 38-foot leadin the actual length of the flat-top should be 54 feet. Point the flat-top portion away from the set, and the leadin connection directly toward the station most desired. If a "T" type aerial is used, with single leadin wire directly from the mid-section, the total length of antenna should be twice that of an "L" antenna, as you really have two "L's", back to back. If you have two leadins from this double "L" or "T" aerial, you will then have a doublet. In this way you can experiment with different aerials and determine the one which best covers the wave lengths desired.

Why A Doublet?

Please explain to me why a doublet antenna is so widely advised. What is wrong with the older types of single-wire aerials, or is it that they will not work on the short waves?

The doublet antenna, or any antenna system that utilizes two twist-

ed or transposed wires in its leadin or transmission line is primarily designed to reduce electrical interference or man-made static noises. Otherwise the doublet has little or no advantage over any properly erected single-wire antenna, such as the inverted "L", "T", fan or spider-web antenna.

If you live in a community where man-made static is bad, and where automobiles, power lines and street cars pass up and down nearby thoroughfares, then undoubtedly a good doublet or noise-reducing antenna system is of great value. Not all noise-reducing aerials are doublets, of course, for there is the famous Zeppelin arrangement and the new RCA "Magic Wave" antenna, as well as others.

Should you be so fortunate as to reside in a quiet region associated with little or no electrical interference in the home, then a simple single-wire antenna is about as good as any. It may be short or it may be long. However, it is the opinion of many radio engineers that the length of the antenna should be one half wave. The total length of a "T" antenna should be twice that of the inverted "L", for the completed aerial is really two "L" antennas, back to back, with a common lead. Therefore, the "L" type should be one-half wave length long, and the "T" type should be a full wave length in length.

Whether you use a doublet or single wire antenna, depending upon local interference, you will be confronted with the problem of how long to make the wire. Naturally, in an all-wave set, say with three bands, you must arrive at some compromise since it is not always practicable to utilize three separate antennas, one for each wave band. In practice it is advisable to select the shortest wave length to which the receiver tunes, and make the an-

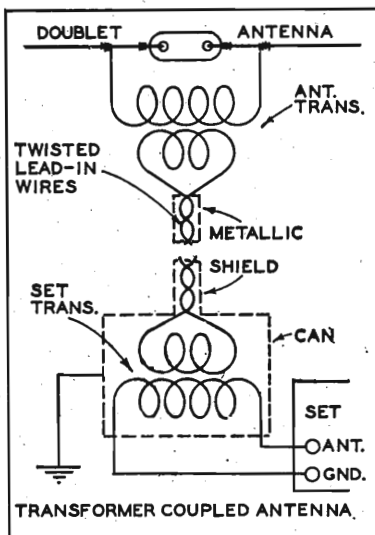
tenna just half of that length if it is a doublet or "L", with one or two leadin lines, and the full length if it is a conventional "T" type. This will provide an antenna that will respond with greatest pickup on the shortest waves, which usually come the greatest distances and are hardest to find. The pickup on the longer waves and the broadcast band is not so critical, particularly the latter band, and the antenna otherwise will be fairly sensitive throughout the range of the set.

If you have excessive local noise by all means use the doublet or other noise-reducing systems, or a shielded leadin on the ordinary antenna (which on short waves is not always satisfactory); otherwise a good horizontal No. 14 bare copper wire, well insulated at the ends, erected as high as possible, will give excellent results.

Antenna Transformers

One of the problems that arises in the use of modern antenna systems and which I do not understand, is why it is necessary to use transformers between the leadin and the radio receiver. Please explain this to me. Is it possible for the experimenter to make his own antenna system and the transformers that go with it?

When a doublet antenna is erected, or any other type using twisted or transposed leadin wires, there are certain complications which arise to prevent maximum signal strength being carried into the radio receiver. A leadin of this type has a certain amount of capacity, since the two wires are adjacent, like the plates of a condenser. If a shielded leadin is used, the capacity is even greater. When the capacity is high the impedance of the line is small, but when the wires are loosely twisted, as in most transmission lines, the capacity is small and the impedance is high. It is the combined effect of inductance,



capacity and resistance that creates a condition called impedance. It is natural to all electrical circuits, and particularly so in radio-frequency circuits, such as the antenna and pre-selector circuits of the radio receiver. Impedance is almost another way of saying resistance to the flow of an alternating current, especially at the high or radio frequencies.

If the transmission line connecting the antenna to the set is long then we must consider its resistance or impedance. The aerial, too, has some impedance; also the antenna coil of the radio receiver. Now we must match the impedance of the leadin to that of the antenna, as well as to the receiver. If the impedances are not carefully matched or balanced, we cannot obtain a maximum transfer of energy from the antenna to the receiver. In order to match these impedances we must use two small r-f transformers, one between the antenna and

(Please turn to Page 56)

Night Life of the RADEXERS

• • • By Carleton Lord

AS DXers on the North American continent stand by to blow the lid off another new season, indications are that a banner winter lies ahead of every midnight marauder.

The Federal Communications Commission has been dishing out construction permits right and left, and more than a score of new stations will be operating as potential targets by the time the season is well under way. Many of these are already listed in the schedule of monthly frequency checks, while many others will soon be heard on early-morning test broadcasts.

Listeners who are interested primarily in foreign reception will not be disappointed. General reception conditions may not be as favorable as a few years back, but improvements in transmitting and receiving equipment should make up for losses in signal strength. For those who point to unsatisfactory records during the last season, we refer to the July 26th issue of the CDXR bulletin which gives the final results of their foreign broadcast band contest.

Grand prize winner was R. H. Tomlinson, Port Chester, N. Y., and here are the stations which he reported and verified: LR1, LR3, LR5, LR8, LS2, LS8, LS9, LU7, CX26, PRF3, PRE8, HJ4ABN and YV1RF in South America; 1YA, 3YA, 4YA, 4BK, and 2NR in the Antipodes; KHBC and KGU in the Hawaiian Islands; Post de L'Ile (Paris), Rennes-Bretagne, Radio-Lyon, Radio Paris P.T.T., Bordeaux-Lafayette, Radio Cote d'Azur, Poste Parisien, Marseille P.T.T., Grenoble, Fecamp and Toulouse in France; Frankfurt, Leipzig, Stuttgart, Gleiwitz, Dresden,



Bernardine Flynn, who portrays the role of Sade in "Vic and Sade," NBC dramatic story which depicts everyday happenings in the lives of a typical American family. Only three actors are heard, Miss Flynn as "Sade," Art Van Harvey as "Victor Gook," and young Billy Idelson as "Rush," their son.

Munich, Kaiserlautern, Konigsberg, Saarbrucken and Koln, Germany; plus EAJ15, I1TP, I1MI, I1FI, I1BO, HAE4, OKB, OKK, RV36, Hilversum, Sottens, Beromunster, HAL, London Regional, West Regional, Belfast, Burghead, Vienna-Bisamberg, Klaipeda, Brussels No. 1, Bucharest, Vlaanderen and Bregenz.

Contrary to first opinion, the latter stations do not compose a list of European broadcasters. They are merely the stations which Mr. Tomlinson verified during what was generally considered an off year, and it must be remembered that each verification was inspected and approved by the CDXR contest judges.

If one listener is able to make

such an outstanding record in the course of one season, what is to keep other DXers from showing a fine log of foreign stations during the coming winter?

Courtesy Programs Work

Much has been said in recent years about the work of the various Courtesy Programs Committees. For a time, it appeared that the race between clubs to schedule the greatest number of dedicatory programs would be disastrous. It was obvious that DXers were physically unable to report on all the broadcasts dedicated to their clubs, with the result that the stations, disappointed by poor response, would soon lose interest.

"To a great extent," comments Arthur E. Foerster, 1213 Bosart Ave., Indianapolis, Ind., Vice-president and CPCer of the NNRC, "I think the Courtesy Programs Committee is a thing of the past. Many DXers have suggested that the CPC's confine themselves to stations which are not on the schedule of frequency checks, or admittedly hard to get. That idea is all right, but try to put it into practice.

"Several times I have found that stations which broadcast for the FCC once a month and are not difficult to hear, frequently want to give a series of DX broadcasts. I tried to discourage this 'series' business last season, but several stations insisted on giving weekly and semi-monthly programs.

"Then, too, other broadcasters will plan a series for the NNRC without effort on the part of the club. They merely work out the details and then notify the club when arrangements have been made. If I have failed to contact these stations, the club officers will think that I have been lax in my CPC work. On the other hand, the only way I can find out which stations want to DX for the

club, is to write to all broadcasters on my frequencies.

Personally, I think that the frequency checks have killed CPC work in the United States and that the real field in the future is in foreign broadcasts. Bill Applegate did notable work for several years with the Canadian stations, and last year did a fine job with the Mexicans."

Local Organizations

A note from George Poulain, 67 Mt. Pleasant St., Sydney, N. S., sets forth an idea which could bring added pleasure to thousands of DXers in every part of the country: "How about some of the fans down here getting together and forming a DX club? Some of the boys get good catches, and I think it would be swell to organize and be able to talk things over."

Perhaps one of the most beneficial angles of DXing is a regular meeting of DXers in one locality. Program tips are exchanged, reception kinks discussed, verifications compared. These personal contacts are far more enjoyable than any amount of correspondence, and yet they occur too seldom in the life of the average listener.

While the formation of local groups of DX enthusiasts is by no means a new idea, previous attempts frequently were sidetracked by the ambitions of the founders. Usually such organizations were in existence only a short time before they got "national" ideas. Bulletins were made to appeal to a nation-wide group of readers, members were enrolled from distant states, and the "local" club ceased to exist.

An example of what can be done by a compact group of listeners is afforded by the Toledo Radio Club, which was founded a few years ago. Under the able direction of its president, S. Raymond Lewis, it has shown a steady growth and includes in its membership many well-known

DXers, amateurs and radio servicemen. Maintaining strictly local ambitions, the club has followed a policy of serving listeners in its own territory. A bulletin is issued which covers reception in and around Toledo. Regular meetings provide for the exchange of tips and an opportunity to hear addresses by leaders in the radio field. At the time of the Ohio and Mississippi floods early this year, the club rendered conspicuous service during the emergency. The TRC now has its own club house and is making plans for the installation of a powerful amateur transmitter.

Perhaps one of the reasons why the Newark News Radio Club has maintained its position during the past ten years may be traced to its local activities. Members in and around Newark have an opportunity to get together at the regular monthly meetings, while chapters in Baltimore, Brooklyn, Indianapolis and other cities give the personal contacts which mean so much. Members from Connecticut to California attended the summer convention at Lansdale, Pa., last July and friendships, started through the mail, were sealed in person.

And so it would seem that there is an almost unlimited field for the organization of local groups in cities throughout the country.

WJRD Now Verifying

A most welcome bit of news comes out of the South to the effect that a change in management at WJRD and WMFO means verifications from these two holdouts. One of the first to receive a confirmation from the former was Jim Walker, Romney, W. Va., who writes:

"On Friday, May 7th, I heard WJRD test and announce that they would verify all reports accompanied by a self-addressed envelope or card. I sent an envelope with my report and the verification was back within a week. In answer to my question—

'Won't you please verify this report?'—Mr. Doss, the owner, wrote: 'Sure will, Old Boy. And many thanks!' "

"Like the Radexer who so reported in the Midsummer issue, I have been able to obtain a verification from KDKA," postcards George C. Canapp, 222 S. Carey St., Baltimore, Md. "I would like to receive letters from readers who use a Philco 116X and will guarantee to answer them all."

"I use different methods when reporting for verifications," supplies Sgt. A. W. Drummond, Box 56, Fort Douglas, Utah. "When a program is good and lasts at least a half hour, I write a complete report on the stationery of my radio club. When the program is good for only 15-minutes, I send out one of my proof of reception cards for the station to sign and return to me. In other words, the better the program, the more pains I take with my report."

"I do not ask for verifications very often," informs A. J. McBurney, Portneuf Station, Que., "although I do keep a log of times, dates and frequencies. After all, I never log a station until I have heard distinct announcements, so I am sure myself and that's all that matters to me."

Station News

As Radexers begin to spin the dials over the early-morning frequencies, they will find many changes from the set-up which they last heard in the Spring. The list of new stations in the September issue was unusually long while the changes in power and frequency will cause a certain amount of confusion at first.

From Cuba comes word that two popular stations have exchanged frequencies. The 5-KW CMCY has moved from 1030 to 570 keys and is now operating weekdays from 8:55 a.m. to midnight, EST, and on Sundays from 10 a.m. to 10 p.m. The

station is owned by Manuel D. Autran and the Westinghouse Electric Co. of Cuba, and its address is Avenida de los Presidentes 215, Vedado, Havana. CMCX has switched from 570 to 1030 kcys and is now operating with 150 watts power from 9 a.m. to 11 p.m., EST. The address: Calle Maceo 7, Guanabacoa., Havana.

"I have just received a verification from CMGF, Matanzas, Cuba," announced Kenneth Axelson, 5801 Dorchester Ave., Chicago, Ill. "The card shows their frequency to be 977 kcys and their power 100 watts, although you have previously listed them on 1120 kcys with 150 watts. You also listed them as verifying for ten cents in coin, but they sent me my confirmation in return for an International Reply Coupon. The proprietor of the station is Bernabe R. de la Torre, and the address is Gral. Betancourt 51, Matanzas, Cuba."

"There is a new local station down here," notifies Samuel A. Meyer, P. O. Box 754, Laredo Texas. "It is XEDF and operates on 810 kcys with 75 watts power. They are on the air from 11 a.m. to 3:15 p.m. and from 7 to 8:15 p.m., EST. The own-

er is Sr. Ruperto Villarreal and the engineer is Sr. Florencio Loyola. The other two locals, XEFE and XEBK, are still on the air. XEFE now uses 980 kcys with 150 watts power, while XEBK pushes its 50 watts out on the 1000 kcys channel."

"Our local CKCK has been granted permission to boost its power to 1000 watts on their present channel," reports Paul Sampson, 1820 College Ave., Regina, Sask. "Although licensed for 500 watts, their old transmitter had an output of only 200 watts and it is expected that the new equipment will be a great improvement for listeners in this territory. The new transmitter will be located a short distance from the city and should be in operation by Fall. Engineers expect that it will eliminate a lot of their short wave harmonics and repeat points, especially near WSM."

"In the near future WMBG will make some extensive changes," advises George Hurd, 509 Spalding St., Elmira, N. Y. "They are going to switch from 1210 to 1350 kcys and boost their power from 100 to 500 watts. Also, they will change from CBS to NBC. According to a letter of verification, the new equipment will include the latest RCA transmitter, the ground will have 6 1/2 miles of copper wire buried in five acres of earth, while the antenna will stretch 91 feet between two masts 216 feet high."

"Our new local station WSAU operates on 1370 kcys with 100 watts power," supplies R. E. Dahm, 625 Nina Ave., Wausau, Wis. "They are on the air from 6 a.m. to 7:15 p.m., CST, daily except Sunday, when they sign on at 8 a.m. Also, from 4:30 to 5 a.m. they broadcast test programs of recorded music. Their RCA high fidelity transmitter feeds a 178-foot vertical antenna, which has been erected on top of their building. Their chief engineer is



Three of radio's outstanding clowns are demonstrating here that they can sing as well as caper. Reading from left to right we have Judge Hugo Straight, played by Tommy Mack, Milton Berle in the center, and on the right, Bert Gordon, better known as Mischa Moody.

anxious for reports and promises to verify all which are correct."

Personal History

"It was a little over nine years ago that I first got interested in DXing," observes Frank Wheeler, 406 Eagle Point, Lakeside, Erie, Pa., "although I didn't know it by that name. My Dad had received a 6-tube Silvertone radio on his birthday in May 1928, and I began logging stations. I heard of other listeners hearing stations like KFI, but I couldn't catch them. During the next year and a half, I logged 148 stations with KOA the most distant.

"One day late in 1929, my cousin showed me the December RADEX of that year. On my way home I bought the same issue and really started DXing. On December 29th, I heard KFI for the first time and KNX, which I mistook for KMJ. Being a green DXer, I wrote to KMJ for a verie and reported the catch to RADEX. In the next issue, Ollie Ross came back and reprimanded me for saying I had received KMJ, when he lived only a hundred miles from them and couldn't hear them. He was right. I had heard KNX and not KMJ. That taught me a lesson, and I won't make that mistake again.

"My next thrill of DXing occurred on March 7, 1931, when I heard VAS. But little did I know that this was only a start. On January 23, 1932, I got what I had thought an impossibility for my 6-tube set—XEW, my first station out of the United States. After receiving 375 stations on this set, I purchased a 9-tube Silvertone in September of that year. On October 2nd, I was greatly surprised to hear YV1BC. They sent me a very nice confirmation and I still claim that it is my best broadcast band verie.

"While I had had many thrills from my DXing, I was still not entirely satisfied. I had read of many

listeners hearing stations across the Atlantic and Pacific, but no matter how hard I tried I never was able to hear one. It wasn't until February 18, 1935 that I heard a faint carrier on 650 keys. Was this 1YA? The next morning I tuned to that frequency and heard the station coming through about R4. I heard a definite announcement and was so thrilled that I pulled the other members of the family out of bed to hear it. My other thrills that year included reception of TGW, LR5, CX26, HHK and many others.

"With the BCB log showing 657 stations last October, I went out and bought another Silvertone—this one being a 12-tube all wave job. At this time, I had two goals for my DXing—to hear my first TA, and to verify KWYO so that I would have a verie from every state and province. Last January 3rd, I heard Radio Normandie and two weeks later I logged Paris P.T.T. On March 13th, I finally landed KWYO.

"And so looking back on seven years of real DXing, I find that I have logged 796 broadcast band stations, of which 169 are verified. Of the better catches, I include 1YA, TGW, Radio Normandie, Paris P.T.T., HIX, WKAQ, WNEL, HJN, YV1BC, CX26, LR5, LR1, HHK, and KGU.

"My present Silvertone may be used with either of two aerials. One is 145 feet long, 45 feet high, and runs North-South with the lead at the South end. The other is by far the better of the two. It consists of 185 feet of solid enameled copper wire and is 65 feet high."

Getting Into DXing

"When I first began DXing," recalls Thomas W. O'Neil, 300 S. Main St., Jersey Shore, Pa., I was using a 1931 Stewart-Warner receiver. After reading the reports in RADEX, I decided that if so-and-so could

get Australia on a four-tuber, I would buy a big machine and go in for some real DX. After much deliberation, I bought a 1937 Philco 116X and set out to startle the DX world.

"You can probably sympathize with me. I soon found that I had to learn to use a radio. I had to learn patience above all else. Today I have come to appreciate every new station I hear, to love every night that is good for reception and, most important of all, to honor every effort made to provide listeners with information on how to get a new catch. So upon my graduation to the 'veteran' class, I find DXing practically perfect. I have a swell receiver, I have a swell magazine (RADEX), and I have a swell time—but I *have not* a single station in Delaware."

We hear of the many great things that radio has done for humanity.



Irma Glen, NBC's well-known organist, organized her own girl's orchestra and took it to Buenos Aires when she was only sixteen. Since then she has been in vaudeville, a concert artiste, and a theater organist. She has been heard in well over 10,000 broadcasts.

We hear of help summoned to a sinking ship at sea or a grounded flier far from the beaten path. We know of the vast communications systems which connect the far corners of the earth. We know of countless other services rendered by radio, but one of the greatest is that which is given to isolated groups in remote sections of our own country.

"We lumberjacks get a lot out of radio," writes T. J. Sanders, Box 32, Bly, Ore. "During the long, cold winter the deep snow makes it impossible to go anywhere, but the many fine programs we hear on our radios keep us from getting lonesome."

Speaking of Receivers

"Purchasing a new receiver offers many difficulties," asserts Wesley Shoemaker, RFD 3, Hillsboro, Ohio. "To satisfy most listeners, a set must have appearance, tone, power and selectivity. Most modern receivers have these requirements, although they are perfected to a finer degree in some models. The receiver which I selected for my trip around the radio world is a 1937 Zenith 5-tube, 2-volt battery model. It has a beautiful six-inch airplane dial, calibrated in three wave bands, and the tone is very good.

"After tone and appearance, the listener looks for power, and my new set has shown its ability to pick up weak signals and present them loud and clear. Also it has a fine degree of selectivity, as evidenced by the fact that I have been able to separate KNX from high power stations on each side as early as 8:16 p.m. I have never been sorry that I purchased this Zenith."

"Much has been said about the Canadian stations being content to get along on low power," offers Ernest Law, 10439 69th Ave., Edmond.

(Please turn to Page 49)

Tuning the

AMATEURS

• • • By B. L. Ahman, Jr.

SEVERAL dozen readers of this column have sent us their SWL cards and have indicated that they desire to exchange cards with readers. A complete list of their names and addresses is given elsewhere in this issue of RADEX under the heading "SWL Trading Post."

A new Peak Pre-selector has been added to our Zenith 12-tube set, and reception, while not exceptionally brilliant, is increased 100% every time the pre-selector is turned on. The Australians and Europeans are fairly consistent, with the South and Central Americans running rampant as usual.

Noticeable on the 20 meter band has been the large number of new Southern neighbor stations, and the fact that most of them seem to be members of the Rueda del Oeste, the International ham and SWL organization mentioned several times before in this column. Members of this club are compelled to QSL, and failure to do so means suspension from the club. Recent cards from Rueda del Oeste amateurs include OA4C, CE3DW, CO2JM and YV5AZ.

A stab at the 40 meter band resulted in a bad earache, no other results being obtained because of the excessive static usually prevalent on this band.

On 10 meters Carroll Weyrich reports K6's in the afternoon, but K6's and W6's are about all that he can hear now. When this band is "open," however, the entire world can be logged easily.

Our most consistent west coast correspondent, Hadley Wilcox of Los Angeles, says that June is the best month he has had on 20 meters, but

generally that band has not been satisfactory for him. K4SA was heard R8, VK2AZ R7-8, VK2ABD R8 and K7FBE, R7-8. He reports hearing both sides of a two-way between VK2ABD (Australia) and TI2RC (Costa Rica).

Another west coast reporter, Don Martinez of San Francisco, sends lots of dope on stations he is hearing. He reports that the Japanese can be heard in the PST Time Zone from 12 to 1 am and from 5 to 7 am. J2MI on 14075 is the most consistent while J2KJ on 14260, J2LU on 14035 and J6DP on 14230 are also heard. Don also reports three Malaysians at the same time, VS1AI on 14040, VS2AK on 14255 and VS3AE on 14240 kcs. The Javanese amateurs are very reliable between 3 and 6 am when the band opens up with PK6AJ on 14100. Others heard consistently are: 14010, PK3LC; 14020, PK3GD; 14040, PK1MO; 14050, PK1RR; 14080, PK6CI; 14090, PK1MX; 14090, PK1VM; 14146, PK4WS; 14260, PK1GL; 14265, PK2VD; 14280, PK1ZZ; 14310, PK3ST; 14374, PK1RI; 14374, PK4VR.

Don's list of Europeans causes us to hang our heads in shame, as he has most of us easterners beaten. British amateurs, he says, are always good. Continental stations come in between 7 and 10 pm, with ON4VK on 14076, CT1AY, HA3I and PAOWV leading the pack.

The antenna used by Mr. Martinez is a 60 foot single wire directed northeast and southwest. His receiver is a 6 tube Zenith. The balance of the stations shown in his report are given in our "Calls Heard" section. He gives the best time to tune for some of the continents as follows: South Africa between 5 and 7 am. Australians from 9:30 pm until the band closes down. Northern Africa near 8 pm. The Philippine Islands, always with R9

signals, in the early mornings. Two New Zealand amateurs are heard on 75 meters, ZL2BE and ZL2DO.

Readers are reminded that stations with the GM— call are the same stations listed with only G— calls in the old call books. Thus G6RG is now GM6RG. The GM— prefix was given to Scotland several months ago. GI— is assigned to Northern Ireland and GW— to Wales.

One of the most interesting stations in the 20 meter amateur band is W10XDA, on the Schooner "Effie Morrissey," which is now cruising in the vicinity of Greenland and in the Arctic Circle. W10XDA works frequently with American amateurs, and maintains regular schedules with W2OJ, which is owned by the Morrissey's operator, Clifton F. Foss, and operated by his wife during his absence. Reports should be sent in care of Mrs. Foss, W2OJ, 8214 Eleventh Ave., Brooklyn, N. Y.

Y12AB, Iraq, 14150 kcs, was logged by Frank W. Hoxie, So. Orrington, Maine, at 9 pm EST at R8. The address of this good catch is Messrs. Mellon & Norman, c/o Port Directorate, Basyra ya, Mirgil ya, Iraq.

Following are two Irish 'phones that will probably be heard this season. One is EI8G, Frank B. Whyte, East Bourne, Glenageary, County Dublin, and the other EI2J, N. Maddock, "Sherbro," Dartry Road, Dublin, S2, Irish Free State.

So far we have not been able to log an amateur in Paraguay. Have any of our readers heard Paraguayan 'phones? We would appreciate any tips so we can completely log the South American Continent.

Readers who have EA4BM cards should prize them highly, because it has been reported that the operator is a casualty of the Spanish War.

Julius Orosz' Log

"I began to log the 20 meter amateur stations in January of 1937,

and since that time have tuned this band exclusively," relates Julius Orosz, 12205 Parkhill Ave., Cleveland, Ohio. "Using a Philco 65OX, I have logged over 56 countries in this band alone. I used to keep a log by entering the stations in the order in which they were heard, but when I started to tune for amateurs only I decided to use a different system as the old method made it difficult to check back to see if I had already heard a certain station.

"My log is now kept in a Lefax loose-leaf notebook which takes 3% by 6% pages. Whenever a new country is heard a new sheet is inserted with the name of the country written on the top of the page and the stations heard listed underneath.

"I make it a practice to log only 20 meter 'phones heard outside of the USA and Canada. In order not to lose these two countries from the log, however, I keep track of the districts or prefixes heard, which so far are VE1— through VE5—, and VE9— in Canada, and W1— through W10— in the USA.

"As a means of comparing logs, I have devised the following system, which is very similar to that which was used to compute scores during the ARRL DX Amateur Contest. I simply multiply the stations heard by the number of countries heard.

"For example, ten stations from two countries would give a score of 20 points, whereas ten stations from ten countries would score 100 points. Using this system, my score is 322 stations times 56 countries, which amounts to 18,032 points. I believe it would be interesting to see some of the scores compiled by other DXers . . . some of them may have a score as high as forty or fifty thousand points."

Many thanks are extended to the readers who have written in. We are anxious to have more reports,

however, so we can compile a table showing the composite results of listeners in every state. We believe a log of this type will serve as a valuable guide to what kind of reception can be expected in any locality.

QRA's

The addresses of amateur stations mentioned in this column are given below:

CE3DW, Edmundo Guevara, Los Alerces 2741, Santiago, Chile.

CO2JM, Justo Mahia, Condesa 41, Havana, Cuba.

CT1AY, Manuel Dias Oliveira, Moreira da Maia, Pedras Rubias, Portugal.

K4SA, Richard Bartholomew, Barrio of Sabana Hoyos, Garrochales, P. R.

ON4VK, M. Koninckx, 47 Rue Juste-Lipse, Brussels, Belgium.

OQ5AA, Dr. G. Westcott, Tondo, via Irebu, Belgian Congo.

PAOWV, W. Vuyk, Eindhoven, Netherlands.

PK1VM, E. Th. Vermast, Riowstraat 77, Bandoeng, N. E. I.

PK2VD, A. C. W. Van Beutekom, Jogjakarta, Java, N. E. I.

PK3ST, J. H. A. Steenmekjer, S. F. Meritjan, Kediri, Java, N. E. I.

PK4VR, H. H. Vrouwes, N. P. M., Pladjoe, N. E. I.

PK6CI, E. R. Illing, Ambon, N.E.I.

TI2RC, Roberto Castro, Box 1065, San Jose, Costa Rica.

VK2ABD, C. C. Galbraith, 43 Bul-kara Road, Bellevue Hill, NSW, Australia.

VK2AZ, H. L. Day, 2 Robinson St., Kogarah, N.S.W., Australia.

VS3AE, His Highness Tunku Ahmad, State Commissioner of Muar Johore, Johore, Malaya.

YV5AZ, Ernesto Eduardo Diaz, Este 4 No. 129, Caracas, Venezuela.

Amateur CALLS HEARD

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

C

CE: 1AH (e); 1AO (ef); 1AR (e); 3DW (e). CN8AJ (c).

CO: 2HY (def); 2KL (f); 2MQ (f); 2OG (f); 2OK (def); 2RA (f); 2RH (ef); 2RS (f); 7AS (ef); 7CX (ef); 8EC (e); 8VZ (e); CT1AY (ce); CT1CV (e); CT1GU (f); CX1CC (e); CX2AK (e); CX2AL (f).

E

EA: 2BH (e); 3DQ (e); 8AE (e); 9AH (acde).

EI: 2J (ef); 2L (e); 3J (e).

F

FA3JY (c); F3HL (f); F3HM (f) F8DR (f); F8QD (f); F8WK (e).

G

G: 2AI (f); 2AK (f); 2AV (f); 2PU (efd); G5BM (f); 5JO (ef); 5LS (f); 5LU (ef); 5SS (f); 5TP (f); 5TZ (f); 6JF (ef); 6VX (ef); 6XN (e); 6XR (e); 8AN (e); 8IK (e); 8SB (e); G15QX (e); GM5NW (e); GM6RG (ef); GM6WD (e) GW5KJ (f).

H

HA3I (c); HC1FG (e); HC1RF (e); HC2CG (e); HB9A (e); HH2B (e); HH5PA (ef); HP1A (e); HR2A (e); HS1BJ (c).

J

J2KJ (c); J2LU (c); J2MI (cf); J6DP (c).

K

KA: 1AP (c); 1HS (c); 1ME (cdf); 1HS (f); 1MM (c); 1RB (c); 1YL (c).

K: 4SA (eg); 6BAZ (def); 6BNO (f); 6KMB (f); 6MVV (df); 6NTV (ef); 6NZQ (d); 6OLX (d); 7FBE (g); 7FST (f).

L

LU: 1QA (ef); 4BH (def); 4BL (f); 4KA (f); 5CZ (de); 6KE (ef); 7AZ (e); 8AB (f); NY2AE (e).

O

OA: 4AB (ef); 4AG (e); 4AI (ef); 4AK (e); 4AL (e); 4C (def); 4N (de); OE1CM (e); OE6PK (f).

ON: 4BG (e); 4MD (f); 4JAK (e); 4VK (ce); 4ZA (e); OQ5AA (ce).

P

PAO: EO (f); FB (e); FP (e); 1DW (e); MQ (e); UN (f); WN (e); WV (ce).

PK: 1GL (c); 1MO (c); 1MX (ce); 1RI (c); 1RR (c); 1VM (cf); 1ZZ (c); 2VD (cf); 3GD (c); 3LC (c); 3ST (c); 4VR (c); 4WS (c); 6AJ (c); 6CI (c).

PY: 1FR (de); 2BA (ef); 2FF (e); 3BX (e); SM5SV (e); SU1CH (e); SV1KE (e); TG1AX (e).

T

TI: 2FG (ef); 2LR (de); 2PG (g); 2RC (eg); 2RT (e).

V

VE: 1BD; 1FG; 1GK (g); 1GP; 2DQ; 2GH; 2ID; 2JJ; 3BU; 3FM; 3JU; 3KX; 3QJ; 3YW; 4AAY; 4GE; 4GQ; 4KZ; 4LX; 4PM; 4QV; 4TW; 4UG; 5HG; 5NP; 5NY; 5OT.
(VE1GK was heard by g; all others by d).

VK: 2ABD (g); 2ABG (f); 2AZ (efg); 2HF (ef); 2HP (f); 2HS (f); 2XU (ef); 2OQ (f); 3AZ (d); 3AG (f); 4JU (ef); 4KL (f); 4KO (f); 4VD (ef); 5AI (e); 6MW (e); 7CL (e).

VO: 2Z (ef); 6L (ef).

VP: 2BC (e); 2CD (e); 2DA (e); 3BG (de); 4TH (f); 5AF (e); 5AG (f); 5GM (e); 5PZ (e); 6FO (e); 6LN (f); 6TR (e); 6YB (e); 7AB (e); 7NA (e); 9G (e);

9R (e); VQ1AB (e); VS1AI (c); VS2AK (c); VS3AE (c); VS6AB (c); VU2LL (c).

X

XE: 1AG (f); 1AJ (f); 1AX (f); 1BC (de); 1I (f); 1Y (d); 2BJ (f); 2FY (f); 2HD (f); 2JK (de); 2XY (f); 3AR (def); 3W (e); XU8HW (c); XU8MT (c); XZ2EH (c); XZ2EZ (c); XZ2JB (c).

Y

YI2BA (be); YN1BJ (e); YN1HS (e); YN1PR (e).

YV: 3AD (e); 4AA (e); 5AA (e); 5ABE (ef); 5ABT (ef); 5AK (ef).

Z

ZEIJF (c); ZE1JR (ce); ZE1JY (c); ZL2BE (c); ZL2DO (c); ZS1AX (c); ZS1B (c); ZS2N (c); ZS2X (c); ZS5AB (c); ZS6AJ (c); ZS6AN (c); ZT2G (c); ZU6N (c); ZU6P (ce).

The Reporters

- (a). Carl and Anne Eder, Willmar, Minn.
- (b). Frank W. Hoxie, So. Orrington, Maine.
- (c). Don Martinez, 1469 26th Ave., San Francisco, Calif. (6-tube Zenith 6S-128).
- (d). Martin J. Olthoff, 212 N. 16th St., Independence, Kans. (RME69).
- (e). Julius Orosz, 12205 Parkhill Ave., Cleveland, Ohio. (Philco 65OX).
- (f). Jack Siringier, 1451 Lincoln Ave., Lakewood, Ohio. (Truetone).
- (g). Hadley Wilcox, 623 N. 40th, Los Angeles, Calif.

HA8N, Budapest, Hungary, is being heard as loud as R8 as we go to press. Julius Orosz reports this good catch, stating it is audible most any time-between 6 pm and 1 am, EST. The frequency is about 14145 kcs.



AFTER some thirteen years of logging stations in various parts of the world, I rather imagined that I knew the meaning of the term "verification." With nearly a thousand cards and letters in my files to show for the past five seasons and a hundred or so more from the middle twenties, I thought I could identify a verie when I saw one.

But after reading a letter which arrived the other day, I am beginning to wonder if I haven't been wrong all along. If my beliefs haven't been shaken to their very foundations, at least I have been mildly started. Perhaps the same sensation was experienced by the people who climbed a mountain one night to await the end of the world—and saw nothing but a glorious sunrise.

The letter in question was from a reader who was commenting on his attempts to scare up confirmations from a few delinquent stations. One of the broadcasters, he remarked, sent a card "which was not a verification, but merely said that my report compares completely with their log." "For myself," he continued, "I don't care whether they say the report is verified or not. Just so it is proof that I heard their station is all I want."

Until the receipt of this letter, I had always imagined that a verification was a statement by a station that a listener's report checked with

the station's log at a given time, and therefore was proof that the DXer had heard that particular transmitter. But if a letter saying that a report "compares completely" with a station's log is not a verification, what are all those cards and letters which I've been saving? And if a listener can obtain proof that he heard a station without having the station verify or otherwise confirm a report, it looks as though a lot of us have been wasting our time the past few years.

Once upon a time I got a card from Sweden which said: "You have probably received us, for the items which you mentioned were really broadcast on our program of February 14." The card was signed by A. Lindstrom for *Rundradiostationen Horby*, and I figured that I had a verie from SBH. But perhaps I was wrong.

Maybe I will have to disregard the card from 2CO, Corowa, Australia, which said in part: "The particulars submitted in your letter of the 14th December check up correctly with our log for that date." I have always thought this was a verification, but I may have been mistaken.

Why Verify?

Quite a few DXers today are questioning the necessity of obtaining veries from the stations which they log. A typical remark might go something like this: "I always make sure of a station's identity before I

enter it in my log, so there is really no need to write for confirmation. After all, I DX for my own pleasure and I don't need proof of what I know I have heard."

To a certain extent, it is possible to understand and appreciate this attitude. For many listeners, the chief thrill of DXing is the actual process of tuning, and happy are they whenever a new station is heard. If a collection of veries brings no added pleasure to the hobby, the DXer would be foolish to go to the trouble and expense of getting confirmations.

However, listeners who make a practice of verifying their catches will probably agree that they receive a very tangible return from this procedure. While it is true that a verie constitutes a rather definite proof of reception, it is seldom necessary to pull out a card or letter just to *prove* that a station has been heard. Still, it is probably more satisfactory to be able to say that Radio Normandie has been verified, than to report that the station had merely been heard on a certain date. Certainly it is an accomplishment to be able to show a distant broadcaster that you have heard his program, and it is nice to receive confirmation of this fact.

But it seems to me that verifications offer far more than just proof of reception of some station. To me, they are souvenirs of the long nights spent at the dials. They might even be compared to snapshots of vacation trips, since they bring back memories of thrilling catches and exciting reception.

I very definitely recall one May morning back in 1934. I had been listening to the frequency checks and was about to call it quits when the sun came up a little after five o'clock. For some reason or other, I stuck around until 5:20 when KRE at Berkeley, Calif., was scheduled to come on. Although it was broad

daylight when I tuned to 1370 kcys, I was amazed to find the station coming through with a good R5 signal. I logged the full twenty minutes and wrote out the program by the light of the sun which streamed in the windows. I dashed off my report to the station that same day and, as a matter of record, sent a copy to the president of the NNRC, Irving Potts.

In a few days, back came the letter of verification from KRE "We thank you for your interest," wrote M. D. Hambly, "and congratulate you upon your success in receiving our signals under such difficult conditions. It might interest you to know that yours was the only report on this program which we have received from East of the Rockies."

Certainly a verification like that is worth a hundred notations in a log book that such-and-such stations were received.

Stunt Broadcasts

Early in 1933 the Warner Brothers released their musical picture "42nd Street" to the American movie houses. As ballyhoo for the film, they chartered a special train, named it the "42nd Street Special," loaded it with stars from the picture, and started a tour around the country. At each large city, the train would stop and the natives would have a chance to gawk at the celebrities. It was probably coincidental that the picture opened in each city shortly after the train had passed through.

Also aboard the train was a portable transmitter—KIED, which was operating on 1518 kcys, with 250 watts power—owned by Warner Brothers' Hollywood Station KFVB.

On the night of February 26th, the "42nd Street Special" was heading for St. Louis and a gala opening the next day. As the train sped across the state, a program was sent out for pick-up and rebroadcast by

one of the St. Louis stations. At 1:32 a. m., EST, I ran across KIED and was able to log the entire program, including the early tests and the final check-up.

Now a verification of that broadcast would be a rare souvenir in any DXer's file, but a personal note from Ed Murphy of KFVB was a prize worth possessing.

Five days before hearing KIED, I ran across a couple of unusual catches shortly after 2 a. m. The first was EW7, the experimental station of the Michigan National Guard at Lansing, and this was heard testing on 750 keys. The other station was using 755 keys and announced its call as EQ7, but gave no location. After copying both tests, I wrote EW7 for a verie and asked for EQ7's address.

Within a week, back came the EW7 confirmation with a note from its operator, Corp. J. B. Osburn: "Thanks for QSL, OM. EQ7 is Regimental Headquarters station at Lansing. Write 119th Field Artillery Armory there. EW7 is the Second Battalion Headquarters station, which communicates with EQ7 every Tuesday morning at 2 a. m."

A report to EQ7 brought a prompt acknowledgment and verification from its operator, Corp. H. G. Crofts. While these two 50-watters were less than 200 miles distant and were probably heard by hundreds of DXers, I can't help but feel that these two veries are well worth having. Certainly they are more interesting than two lines in a log, noting that EW7 and EQ7 were heard on February 21, 1933.

Outlaw Veries

From an artistic standpoint, many stations have designed letter-heads which are truly distinctive. KGKO, KRGV, LR5, WAGF, WCAO, WJIM, WLW, WRAW and WMS use stationery which looks well in any collection, but to my mind RXKR

just about led the field in this respect.

Old timers will remember that this was the famous "cruising broadcaster" which caused so much comment back in 1933. With studios and transmitter aboard the SS City of Panama, regular daily programs were broadcast while the ship cruised outside Santa Monica Bay, Calif. My own reception of this 500 watt station on 815 keys, occurred on the morning of July 18th of that year, and I have always considered it one of my better catches. But even confirmation of such an unusual catch is made far more attractive by the handsome stationery and the courteous, friendly letter written by Cecil M. Newcorn, general manager.



Loretta Clemens, ingenue singer and comedienne on NBC shows, is a kin of the late Samuel Clemens (Mark Twain).

Usually unlicensed stations are not favorably inclined towards requests for verifications, but inside of a year I was fortunate enough to receive veries from three Ohio "outlaws." The first came from WAIR at New Philadelphia—and it is interesting to note that there is now

a licensed station of that call at Winston-Salem, N. C. The old WAIR was heard on July 30, 1932 and the letter of confirmation was post-marked six days later. Instead of a letterhead, Engineer Marion Weymouth typed the call and station address on a plain sheet of paper, but the verie was none the less welcome.

Station WJM at Massillon pushed its 7½ watts on 850 kcys, into my receiver on February 18, 1933. Three days later the verification arrived, signed by E. C. Whitney, the assistant manager.

WDMC at Uhrichsville was the toughest of the three to verify. The station was heard April 26, 1933 on 800 kcys. Two reports went unanswered, the third brought a query from the operator as to my "interest in his station," and the fourth finally resulted in a verie. Oddly enough, while operating this 7½ watt "outlaw," the owner of the station—Willard G. Demuth of the Demuth Music Store—had an application for a construction permit before the old FRC. It is probably unnecessary to record that the application was denied.

Tough Nuts

Most DXers are well aware that some stations require a lot of prodding before they will verify a report. I've come across a lot of tough ones, but I think KGFX at Pierre, S. D., was about tops. During the course of a year, I sent them ten reports and had about given up all hope. Then one day, back came no less than six of the return cards which had been enclosed with my letters.

KSEI, Pocatello, Idaho, at one time had a manager who hadn't much time for listeners who kept writing in and asking for veries. In fact, one understands that it was a more or less rigidly enforced rule that requests for confirmation should be

ignored. One day I heard that an amateur, then employed by the station, was inclined to sympathize with DXers and would, on occasions, undertake to answer DX mail on his own. A letter to him brought the desired verie, together with an admonition to keep the incident quiet "for fear the boss would find out."

WSAZ, Huntington, W. Va., was another tough nut to crack. Back in the Spring of 1933, five reports on as many programs went unanswered. Finally a note to the local Chamber of Commerce stirred the station into the belief that "civic pride should insure replies to all letters," and along came a string of five verification cards.

School Stations

Although only 70 miles away, WSAJ at Grove City, Pa., had long been on my list of "needed" stations. Its regular schedule called for programs between 7:15 and 8 p. m. on Tuesday and Thursday, and from 4:30 to 5:30 p. m. on Sundays. As it was but 10 keys, removed from a powerful local, it had been most elusive.

When the frequency checks began in the summer of 1933, WSAJ was included and I was able to hear them for the first time. But obtaining verification of that reception was quite another problem. Two reports were unanswered. In reply to a third letter, the operator wrote that the station had not been broadcasting at the time reported. Almost in desperation, I wrote the Commission in Washington, received a memorandum stating that WSAJ had been checked on the date and at the time I claimed to have heard them. A copy of this memo was forwarded to the president of Grove City College, which operated WSAJ. In a few days came a letter of apology and a most welcome verification.

A very similar case occurred after

I first heard WEHC, which was then operated by Emory and Henry College, Emory, Va. Originally logged on January 19, 1932, the station ignored five reports during the course of 13 months. Early in 1933, the station received permission to move to Charlottesville and went off the air. That appeared to close the case permanently and I was about resigned to include WEHC in the "heard but not verified" list.

As a final hope, I sent a letter to James N. Hillman, president of the college, and explained the matter to him. Although the equipment of the station had been dismantled and the staff disbanded, Mr. Hillman dug out the old records, checked my report with the old log, and sent me the desired verification.

Perhaps one of my most unusual veries came from KOB, which at one time was operated by the New Mexico State College of Agriculture and Mechanic Arts, at College Station, N. M. I heard KOB on April 1, 1932 during one of its late programs and wrote for a verie. A few months later, KOB moved to Albuquerque and I decided that I had lost my chance to get a confirmation.

On January 12th of the following year, I received the following note from Evan Carroon, General Manager of the old KOB: "In looking over some old records, I ran across a letter from you asking for a verification of KOB. I am very much afraid that we overlooked your request, so this will serve the double purpose of apologizing for our mistake and verifying your report."

Why I Verify

While dozens of other cases could be mentioned, these incidents may serve to illustrate the intrinsic value which I attach to my collection of cards and letters. Instead of cold notations in a log book, I have tang-

(Please turn to Page 50)

The Shortwaves

Argentina

LRU, Buenos Aires, 15290 kcs. announces their schedule as 8 to 10 am, but they were heard once from 9:08 until 11:15 pm. This station is known as "Radio El Mundo," Calle Maipu 555.

Australia

VK3ME Melbourne and VK6ME Perth are reported at R8, QSA4, and 3LR in Melbourne is received with an R6 signal. These stations will be receivable in the winter but not as reliably as in summer time. Their frequencies and schedules are given in our lists.

Verifications received by Carl and Anne Eder from VK6ME state that this station is now using 5 kilowatts power. They broadcast from 6 to 8 am, EST on 9590 kcs.

Canada

VE9HX Halifax was heard transmitting on 11705 kcs, announcing they were conducting experimental broadcasts. The frequency was announced. The address is Maritime Broadcasting Co., Box 998. Their regular frequency is 6130 kcs, which is used between 5 and 11 pm. EST.

CJRX Winnipeg made a surprise move in frequency, and is now on 11790 kcs. This was probably done to avoid interference from TPA4.

A station signing as VE9HS was heard by Anthony Tarr on 15190 kcs, and 11710 kcs. at 6:50 pm, EST. He believes it is aboard a Canadian vessel in the north. They were working with VE9AV in Ottawa. Information concerning this station is requested.

Chile

CB1109 is reported to be the call

in REVIEW

• • • Latest S. W. News

of the Chilean station on 12007 kcs, located in Santiago de Chile. The slogan of this station, heard from 7 to 9:30 pm, is "La Voz de Sur America." Our reporter, Mr. Tarr, is not positive of the call sign.

Colombia

HJ1ABP, reported on 9600, has been heard between 6:30 and 7 in the mornings, in addition to its regular schedule from 5 to 11 pm. They come on the air with the "Double Eagle" March. "Radio Cartagena," as the station is known, receives its mail at Aptdo. 37, Cartagena.

HJ1ABB, assigned 6115 kcs, is reported on 4770 by Carl and Anne Eder. They heard it at 8:20 pm, broadcasting a musical program. Reception was not very good, an R5 signal being reported.

Cuba

"La Voz del Radio Philco," COCX, is reported this month on 11490 kcs. with fair volume (R6). Their address is Box 32, Havana.

From the operators we learn that COCW, the new Cuban station, relays the programs of CMW Havana, from 7 am to midnight. COCW works on 6330 kcs and CMW on 600 kcs, both stations being owned by Troncoso y Gil, "La Voz de las Antillas," Paseo de Marti. The mail address is Apartado 130. Verification cards will be sent in response to all who report correctly on their transmissions.

Four other stations in Cuba are chronicled this month, COBZ, COBC, COGF and COCM. COBZ is reported as moving around between 9020 and 9100 kcs, but they are assigned 9030. Programs are broadcast

seven days a week until 11:30 pm. "Radio Salas" identifies the station, and the address is Apartado 866, Havana. "RCA Victor" and "Loteria Nacional" are mentioned frequently on their programs.

COBC, assigned 9363 kcs, is reported on 9310, 9350 and 9360. This Havana station relays CMBC, "El Progreso Cubano," daily until midnight, EST. The postal address is Apartado 132.

COGF, Matanzas, is the best of the new Cubans. It works on 11800 and interferes with reception of OAX5A and the new Danish station. Programs of CMGF, "La Voz de las Provincias," are relayed.

The newest Cuban is COCM, 9775, relaying CMCM, a new CCB station on 850. The address is given over the air as Calle 23, No. 482, Vedado, Havana.

COJK, 8665 kcs, Camaguey, relays CMJK. Howard Phillips believes the owner is Frank Jones, Jr. He states that COJK replaces CO9JQ, which lost its license for relaying broadcast band programs on an experimental assignment. This rumor is not confirmed, however. COJK sends an exceptionally beautiful verification card.

CO9WX, Tuinicu, 15555 kcs, transmits experimental tests to determine skip distances. Frank C. Jones owns the station. Two kilowatts power is employed, and tests are heard near 9 pm.

Czechoslovakia

The Prague station OLR5A, 15230 kcs, announces their schedule as: 9:30 to 11:30 am, but they were heard at 9:11 pm, R8, QSA5. Reports to Prague are to be sent to Praha. XII, Fochova Tr. 16.

Denmark

John Tate of Petersburg, Va. heard the new Danish broadcaster on 11805 kcs, from 6:30 to 8:20 pm.

EST. The program opened with chimes, and an announcement in English. During the time they were on the air three directional aeri- als were used. From 6:30 to 7 pm. the transmission was directed to the United States; from 7 until 7:30 an omni-directional aerial was used, and from 7:30 to 8:20 the signals were directed away from this continent.

This station, which announces no call letters nor location, has been heard on Sundays as nearly as 3:30 pm, and in the evenings between the hours of 6:30 and 9 pm.

Dominican Republic

HIN, allotted 12500 kcs, is reported on 12.480 megs at 8 pm, EST. HIN, 750 watts, is situated in Trujillo, D. R. The address is Aptdo. 604.

El Salvador

YSE (possibly YSA) was heard testing on 11710 kcs, between the hours of 9 and 10 pm, by Anthony C. Tarr of Seattle, Wn. The call sign was announced frequently in English and the location was given as the City of San Salvador in the Republic of El Salvador. Reports were requested. This station was only about 20% intelligible because of severe interference from an automatic CW station.

Fiji

Amalgamated Wireless of Sydney, Australia, advise that station VPD2 Suva transmits on a frequency of 9536 kcs, 2000 watts power, Mondays through Saturdays from 5:30 to 7 am, EST. Our readers report them as receivable with about an R6 signal.

France

Pontoise, TPA2, 15243 kcs, appears to be at its best during the early part of its transmission. Best signals are noted near 6:30 to 7 am.

TPA4, 11720 kcs, now comes on the air at 1 am, EST. All the French (Pontoise) stations are known as

"Radio Coloniale," and are operated by the Ministère des Postes, Télégraphes et Téléphones, 98 bis, Blvd. Haussmann, Paris.

Germany

The German stations continue to be about the best stations on the air. DJQ with R7 volume is the poorest, but this was recorded at 10 pm, which is not the best time of day for stations on 15280 kcs.

DJB has been conducting tests and DJL has carried the DJB programs during the test periods. Both these stations are heard at R9.

DZG, probably in Nauen, was logged from 5:45 until 6:15 pm, on 15360 kcs, relaying the regular German s. w. program. It is believed these commercial stations relay the s. w. programs while the regularly assigned broadcasting stations are undergoing tests.

DJR Berlin, 15340 kcs, puts only an R3 signal into the middle west during their late afternoon broadcasts.

Great Britain

Weak signals are reported in the middle west from the Daventry stations GSG and GSO. The poor reception no doubt is due to the fact that transmissions at the time reported are not directed towards this continent.

The best of the Daventry stations this month seems to be GSI on 15260, although GSD and GSF run it a very close second. Daventry, like Berlin, can be heard with at least a fair signal every day of the year. Complete schedules of these stations are given in our indices.

India

A station believed to be VWY, Kirkee, on 17548, was heard relaying a special program one day between 3:20 and 3:48 pm, EST.

Japan

JZJ is the best Japanese station at the time of writing. A good R8 sig-

nal is heard on its morning programs from 8 to 9 am. JZK 15160 kcs, and JVN 10660 kcs, are the only other Japanese reported, both of these at R6.

Manchukuo

A new Asiatic station to try for is JDY in Darien, Manchukuo, on 9925 kcs. The daily schedule runs from 7:15 to 8 am, EST. Programs at first included a half hour news broadcast in English concerning the Sino-Japanese War, but lately all speech has been in Japanese or Chinese. Oriental and Occidental recordings are played frequently.

Mexico

The Veracruz station XEFT, which relays BCB station XETF, has shifted frequency from 9492 to 9550 kcs.

XEWW, Mexico City, D. F., relays XEW on 9500 kcs. It uses the slogan "La Voz de America Central" and sometimes "Radio Mexico." Heard in the East R8-9, QSA5 until 1 am, daily XEWW is also heard frequently on 15190 kcs.

XBA, Tacubaya, D. F., was heard calling on 6915 at 10:10 and 11:10 pm, irregularly.

Netherlands East Indies

The best Javanese stations in the East now are YDC 15150 kcs. and PLP 11000 kcs. They are both heard at fair speaker volume, PLP near 5 am and YDC between 6:30 and 8:30 am.

Panama

The new Panamanian HP5A, 11700 kcs, is heard in Seattle with a fair signal daily until 10 pm, and sometimes until 10:30 or later. Tony Tarr says he does not believe they have a fox trot recording that was made since 1920 . . . the most modern one played so far being "What's the Use?" Verifications from HP5A indicate that it is owned by the Star and Herald Theater, Apartado 954. A power of 500 watts is used. Their

slogan is "Radio Teatro Estrella de Panama."

HP5J on 9610, Panama City, broadcasts a program of the Panama Jockey Club from 9:45 to 10 pm, EST.

Paraguay

ZP14, "Radio Cultura," Villarrica, Paraguay, is operating experimentally from 11 am, to 5 pm, on 6312 with a power of one kilowatt. Their first broadcast was on July 3rd but a different frequency was used. It is believed 6312 is their assigned spot.

Peru

The City of Lima is heard through OAX5A on 11800 (when not interfered by Matanzas) between 9 and 9:30 pm, broadcasting Spanish and American recordings.

OAX1A, Chiclayo, formerly on 6150 and 6170, is now being heard on 6335 and 6350 kcs, signing off at 11 pm, EST. They are also reported on 6312 at 9 pm, transmitting test programs.

Philippine Islands

KZRM, the Philippine's first s. v. broadcast station, transmits daily from 5 to 10 am, EST. on 9570 kcs, and is heard a good R7 on the Pacific Coast. The slogan is "Radio Manila," and programs of KZRM on 618.5 kcs, are relayed.

Portugal

CSW in Lisbon is heard well on both its frequencies. On 9940 it is one of the best signals on the air at this time, reaching its peak near 7:45 to 8 pm. CSW is heard on 11040 kcs, between 7:15 and 8 pm. Announcements include the slogan "Emisora Nacional." The address is Rua do Quelhas. This station submits what we believe is one of the most attractive verification cards.

Spain

"Radio Nacional de Espana," located at Salamanca, broadcasts regularly between 4:30 and 6 pm, EST on 10823 kcs.

EAR is reported on 9490, R9, QSA5 in the evenings.

A station announcing as "La Voz del Partido Comunista Espanola desde la Capital de la Republica," is heard on 15135 between 6 and 6:45 pm, daily. It is located in Valencia.

Spanish Morocco

EA9AH, located in the 20 meter amateur band (14030 kcs.) is heard nearly every night at R7 volume. A lot of marches and speeches are heard, and the crowds cry "Viva General Franco" during the spell-binding sessions.

Switzerland

The Secretariat of the League of Nations transmits League programs on station HBP and HBL, 7797 and 9595 kcs, respectively, on Saturday afternoons from 5:30 to 6:30 pm. 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 pm, EST on Station HBJ, 14535 kcs, and HBO, 11402 kcs. Reports on these broadcasts are to be sent to C. H. Calame, Radio-Suisse, S. A., 12 quai de la Poste, Geneva.

U. S. S. R.

Two of the Soviet stations have been heard very well in Canada and in the Great Lakes Region. They are RAN and RKI, 9595 and 15040 kcs, respectively, operating between 7 and 9:15 pm, EST. It has been reported that RKI is now using 15025 kcs.

United States

A station WYK, Montgomery, Ala. is noted on 11390 kcs.

The WCAU Broadcasting Co., Philadelphia, operators of W3XAU, have been given permission to add

frequency 21520 kcs. to the 6060 and 9590 kcs. assignments already in use.

A complete listing of the police broadcasters of North America was given in the September issue of this magazine. Changes which have occurred since then are given below.

New Stations

- 1626 kcs: KOSO Oklahoma City, Okla., six portable stations in Oklahoma, KOSP-R-U-W-X and Y. WPWV Charleston, W. Va.
- 1642 kcs: KASP Little Rock, Ark.
- 1666 kcs: WSPN Nantucket, Mass., WSP0., Oak Bluffs, Mass.
- 1698 kcs: WMSH Conoquingo, Md.
- 1712 kcs: KHAA Wahlaawa, T. H., KHAB Kaneoha, T. H., KHAC Pearl City, T. H., WMPN Needham, Mass.
- 2414 kcs: KASE Modesto, Calif., WMPF Waycross, Ga.
- 2422 kcs: KAGD Woodland, Calif., KASG Willows, Calif.
- 2430 kcs: WPRH Rock Hill, S. C.
- 2442 kcs: KADV Eugene, Ore., WMPI Anderson, Ind.
- 2450 kcs: KADG Tulsa, Okla.
- 2458 kcs: KAPJ Sweetwater, Texas, WMPJ Clinton, Ill.
- 2474 kcs: WAMH Shelby, Ohio, WMPK Fremont, Ohio.
- 2490 kcs: KADP Yuma, Ariz., KASH Portable-Mobile in State of Wash., WMPJ La Porte, Ind.
- 2726 kcs: WQPY, Portable-Mobile in Illinois.

WPHF Richmond, Va., 2450, has increased power to 400 watts and KNGR Spokane, Wash., 2490, now uses 250 watts.

WRDR Grosse Pointe, Mich., 2414, has a construction permit to increase power to 350 w. and to change frequency to 2466 kcs.

New stations have been granted construction permits in the cities of Montgomery, Ala., Waukesha, Wis. and Ponce, Puerto Rico.

Uruguay

Two Uruguayan stations are relaying the programs of LR3, "Radio Belgrano," according to reliable information received from Argentina. The stations are CXA8, 9505 kcs, and CXA14, 15170 kcs.

Ships

The M. V. "Kanimbla," VK9MI, has been starting their broadcasts at 7 am, lately, but they operate on irregular days. A ship's whistle and bells open the program and announcements are made by a lady.

SWL Trading Post

THE following desire to exchange SWL cards: **Clement McColgan**, 2905 Alphonse Place, Honolulu, Hawaii. **Wm. Buchanan**, 189 Park St., Sydney, N. S., Canada. **Conrad G. Tilly**, 95 Chesterfield Road, St. Andrews Park, Bristol 6, England. **California:** Kengo Takano, Box 203, Indio. **Colorado:** Ben Boucher, 952 S. Vine St., Denver. **Connecticut:** Emily Griswold, 326 N. Main St., West Hartford. **Illinois:** Arthur E. Judson, 1334 Clarence Ave., Berwyn. **H. E. Rebenstorf**, Harvard. **Floyd M. Murphy**, 615 W. Franklin St., Palestine. **Indiana:** Henry Blocker, 812 Brown St., Valparaiso. **Iowa:** H. C. Hendrickson, Jr., Route 1, McGregor. **Maine:** Elvyn L. Barker, 27 River-view, Portland. **Maryland:** Neville C. Seymour, 3720 Hillsdale Road, Baltimore. **Michigan:** C. M. Bolton, 11411 Evanston Ave., Detroit. **Ellis J. Bird**, 1404 N. Burdick St., Kalamazoo. **Missouri:** Mrs. Ida P. Rogers, Dearborn. **Nebraska:** Mildred E. Johnson, Wahoo. **New Jersey:** Andrew Nuzer, 603 Malone Place, Harrison. **Alice Wilbur**, 226 Mulberry St., Newark. **New York:** Frank H. Breneman, 115 Carlisle St., Rochester. **Ohio:** Raymond F. Sickler, 420 E. Baird Ave., Barberton. **Fred Kiesel**, 810 Roosevelt Ave., Bexley. **Thomas H. McCormack**, 3672 Lyle Road, Shaker Heights, Cleveland. **C. E. Webb**, 161 Blenkner St., Columbus. **Jim Guthrie, Jr.**, 124 Cedar St., Elyria. **Carl E. Crissey**, 3390 Glenwood Ave., Toledo. **Walter C. Ellia**, 3821 Peru St., Toledo. **Wm. H. Johnson**, 3833 Burton Ave., Toledo. **Jack Bebout**, 135 E. North St., Wooster. **W. F. Gallion**, 5220 E. University St., Wooster. **Oklahoma:** Charles King, 1011 S. 5th St., Chickasha. The following all from Ponca City: Miss



Conrad Thibault's first trip to the west coast was for a guest appearance with Fred Astaire, but the listeners liked him so well he has remained as the singing star of the Packard Program.

Nonie Brown, 608 N. Fifth, and **Roy Brown, Jr.**, same address. **Virgil Farnam**, 709 N. Pine St. **Fred Finley**, 529 N. Ninth St. **Norman Glover**, 305 S. Eighth. **Austin Roquemore**, 119 E. Hazel St. **Oregon:** E. C. Sal-ling, Estacada. **Pennsylvania:** Clayton E. Clark, 164 N. Robinson St., and **Harold Levinson**, 1320 N. Marv-ine St., both of Philadelphia. **Albert Magagna**, 550 Monument Ave., Wyo-ming. **Virginia:** Walton Knight, Bel-inda P. O., Accomac Co. **Washing- ton:** Elmer R. Walker, Route 1, Alderwood Manor. **Bill Glomstead**, 7343 12th St. and **A. C. Tarr**, 909 W. Lee St., both of Seattle. **Don. F. Adams**, 224 E. Poplar St., Walla Walla. **Wis- consin:** Ollie A. Landgraf, 97 Park St., Chilton. **Charles A. Spielman, Jr.**, 415½ S. Barstow, Eau Claire. **Allan T. Smith**, 1623 E. Marion St., Milwaukee. **Armen A. Beer**, 211 N. Division St., Waupaca.

New RADIO SHOWS for FALL

• • • By "Betty"

BEATRICE FAIRFAX: Bringing to radio listeners her experience gained through nearly forty years of correspondence with many thousands of those mystified and worried by life's problems, Beatrice Fairfax conducts her own program on Tuesdays, Wednesdays, Thursdays and Fridays at 1:45 to 2 pm, EST, over WOR and a list of seventeen Mutual Network stations.

In general the shows follow a pattern which includes five different types of problem on each program.

"It was more or less by accident that my 'Advice to The Lovelorn' column was started back in 1898," says Miss Fairfax. "The late Arthur Brisbane, then editor of the New York Journal, stepped into my office

one afternoon and threw a couple of letters on my desk. He told me he didn't have the slightest idea as to how to answer them, and doubted if he could print them in the regular contributors' column to which they had been sent. In one, a young wife complained about another woman with whom her husband lunched daily. In the other, a girl revealed how she had been deserted by a young man at a time when he should have stood by.

"I answered them as well as I could. With that modest beginning my column got under way. Until Mr. Brisbane and I had it organized on a more systematic basis, we were almost swamped with letters because the idea of discussing life problems with a practically anonymous 'big sister' caught on quickly."

JEANNETTE MacDONALD: Miss MacDonald, soprano star of the stage and screen, has been assigned for a fall series of weekly programs to originate in Hollywood and to be broadcast over the WABC-Columbia network each Sunday from 6 to 6:30 pm EST, beginning October 3. She will be assisted by Josef Paster-nack's orchestra and a mixed chorus. Last year Miss MacDonald appeared with Nelson Eddy in a radio version of their successful picture, "Naughty Marietta." It was the great acclaim by her audience then that caused her to decide to appear in her own series featuring selections from operettas, and songs she has made famous in such screen successes as "Rose Marie," "Maytime" and others.

Jeannette MacDonald is the third great artist to be presented in the Vick shows, which previously sponsored programs featuring Grace Moore and Nelson Eddy.

TIM AND IRENE: They've taken those city slickers, Tim Ryan, Irene Noblette, gag-writers Pearson and White, bugler Bunny Berigan, and



The author of the NBC dramatic serial "Girl Alone" is Fayette Krum, a writer who looks as good as her beautiful heroine. Betty Winkler takes the leading role in this series.

the rest of the MBS "Fun in Swing-time" company into the woods of Connecticut for their rehearsals. Hard by is the Tim and Irene summer cottage, filled with cool, long drinks.

"Why rehearse in a sweltering city?" asks Tim. "Give me vernal scenes and I'm funnier than all the Marx Brothers."

"It's marvelous," reiterated Larry White, "we write all the gags out in longhand. No one can read them; Tim has to ad lib and it's much funnier."

"When I blow my trumpet in the woods," chirped Berigan, "I feel like a boy scout. I'm learning how to make a fire without matches. I blow a hot tune over a steak and it's well done in a minute."

"Fun in Swingtime" is heard from coast-to-coast over Mutual every Sunday from 5:30 to 6 pm EST.

KATE SMITH: Radio's "Song-bird of the South" has returned to the air as headliner of a new variety series over the CBS, heard Thursdays from 8 to 9 pm EST. For the past two years Kate has not been heard regularly on a complete nationwide network, but her new sponsor has engaged a coast-to-coast hookup embracing all parts of the country, including the Mountain and West Coast Zones for which there is a special repeat broadcast from 8:15 to 9:15 pm PST. As singing mistress-of-ceremonies, Kate conducts the same general type of fast-moving show in which she has scored outstandingly during the past two seasons. There are, however, a number of new entertainment features which she has not included in her hour heretofore.

ED McCONNELL: Smiling Ed McConnell, singing philosopher of the air, returns to the air as NBC's star and master-of-ceremonies of a new weekly show entitled "Sunday Afternoon with Smiling Ed McCon-



The Vass Sisters have been rising quickly in popularity. Sally and Virginia Vass are shown here with Kay Thompson, congratulating Daisy Eaton on a new diamond. Kay Thompson is seated, and her Rhythm Singers are, from left to right, Jean Norman, Sally Vass, Daisy Eaton and Virginia Vass.

nell." The program is heard at 4:30 pm EST over a coast-to-coast Blue Chain.

The Doring Sisters, the Grenadiers, the Campus Choir, the Rhythmaires and other outstanding choral units in the Midwest are heard in the show.

This marks the beginning of McConnell's 16th year as a radio artist.

FRANK CRUMIT: Stellar performers from the musical and entertainment world highlight the new series of 45-minute musical variety programs sponsored by the Coca-Cola Company over a 93-station hookup of the Columbia network, heard each week on Fridays from 9 to 9:45 pm EST.

The new show has Kitty Carlisle, the lyric soprano of stage and screen, as its star. Featured performers are Frank Crumit, the jo-

vial entertainer acting as master-of-ceremonies; Reed Kennedy, baritone, and Alice Cornett, rhythm singer.

Miss Carlisle has been starred in the long-running Broadway productions, "White Horse Inn" and "Champagne Sec," as well as the motion pictures "Murder at the Vanities," "She Loves Me Not," "Here is My Heart" and "A Night at the Opera."

TONY WONS: Tony Wons, popular radio personality who has been absent from the national networks for several years, will return to the air on a tri-weekly broadcast schedule, Monday, Wednesday and Friday at 10:30 am, EST, over the CBS Chain, beginning Monday, October 4. His home-spun philosophy and sympathetic drawling voice will again be heard reading from his well-known "Scrapbook."

HENNY YOUNGMAN: This youthful comedy "find" who made his radio debut on Kate Smith's program last season, has been signed by the Songbird of the South for her new full-hour series.

Youngman, discovered in a New York supper club last season, made several guest appearances on the "Bandwagon" series and proved so good he was retained permanently. His theatrical career started when he was nine years old, in a neighborhood talent show in Brooklyn. At first his efforts were directed entirely toward the serious drama, later he studied the violin, and then took up dancing. His appearances in these capacities resulted only in chuckles from a delighted audience, so he was forced to form a comedy dancing team with Kay Hoevel.

The Cleveland Radio Broadcasting Corp. applied to the FCC for permission to change the call letters of station WJAY to WCLE. The rea-



Walter O'Keefe, "Broadway Hillbilly," has been taking Fred Allen's place on the "Town Hall Tonight" program heard on the NBC-Red from 8 to 9 pm EST Wednesdays.

son for this request, it was stated, was that a new transmitter site is being used, new equipment has been installed and the studio location changed, as well as the management, making it an entirely new station. WJAY joined the Mutual System on Sept. 26.

Stations WFLA and WSUN have been granted a modification of their license to sever the one now issued to joint licensees in order to form two separate stations under the call letters WFLA and WSUN. They will operate specified hours as follows: WFLA, unlimited time on Monday, Wednesday and Friday, sharing with WSUN on Sundays. WSUN will work unlimited time on Tuesdays, Thursdays and Saturdays and share with WFLA on Sundays.

WFLA was also granted voluntary assignment of their license to the Florida West Coast Broadcasting Co., Inc.

The MONTH'S CHANGES in STATION DATA

NEW

630	CMBC	Havana, Cuba
680	WLAW	Lawrence, Mass.
810	XEDF	Nuevo Laredo, Tams.
850	CMCM	Havana, Cuba
1120	KTBC	Austin, Texas
1200	WSAL	Salisbury, Md.
	WTOL	Toledo, Ohio
1210	CHLT	Sherbrooke, P. Q.
1310	KARM	Fresno, Calif.
	KRBA	Lufkin, Texas
	WBRK	Pittsfield, Mass.
1340	KDTH	Dubuque, Iowa
1420	KFAM	St. Cloud, Minn.
	KTRI	Sioux City, Iowa
1440	KELA	Centralla, Wash.

FREQUENCY

570	CMCY	Havana, Cuba, from 1030
977	CMGF	Matanzas, Cuba, from 1120
1030	CMCX	Havana, Cuba, from 570
1120	WJBO	Baton Rouge, La., from 1420
1350	WMBG	Richmond, Va., from 1210

POWER

600	CFCF	Montreal, P. Q., 500 from 400
780	WTAR	Norfolk, Va., 1000 from 500
880	CMQ	Havana, Cuba, 2500 from 500
1010	CKCK	Regina, Sask., 1000 from 500
1120	CKX	Brandon, Man., 1000 from 100
	WJBO	Baton Rouge, La., 500 from 100
1490	WKCY	Covington, Ky., 10000 from 5000

CALLS

880	WRNL	Richmond, Va., from WPHR
1430	WMPS	Memphis, Tenn., from WNBR
1450	WAGA	Atlanta, Ga., from WTFI

LOCATIONS

880	WRNL	Richmond, Va. from Petersburg
1110	XELO	Tijuana, B. Cfa. from Piedras Negras, Coah.

NETWORK

1010	KQW	San Jose, Calif., new MBS
1260	WNBX	Springfield, Vt., new MBS
1370	WEOA	Evansville, Ind., new CBS
1500	WNLC	New London, Conn., new MBS

OWNER

1310	WSJS	Winston-Salem, N. C. Piedmont Pub. Co.
------	------	--

DELETE

730	XEBC	Agua Caliente, B. Cfa.
850	CMCN	Havana, Cuba
1080	XEAQ	Rosarito, B. Cfa.

CONSTRUCTION PERMIT TO CHANGE FREQUENCY

1190	WATR	Waterbury, Conn., to 1200
1310	KIT	Yakima, Wash., to 1250
	WOL	Washington, D. C., to 1230

CONSTRUCTION PERMIT TO CHANGE POWER

880	CMQ	Havana, Cuba, to 25000
	WCOC	Meridian, Miss., to 1000
900	KGBU	Ketchikan, Alaska, to 1000
	WLBL	Stevens Pt., Wis., to 5000
950	WRC	Washington, D. C., to 1000
1190	WATR	Waterbury, Conn., to 250
1200	WJRD	Tuscaloosa, Ala., to 250
1310	KCRJ	Jerome, Ariz., to 250
	KIT	Yakima, Wash., to 250
	WOL	Washington, D. C., to 1000
1340	WCOA	Pensacola, Fla., to 1000
1440	WMBD	Peoria, Ill., to 1000
1490	KFBK	Sacramento, Calif., to 10000

CONSTRUCTION PERMIT TO CHANGE LOCATION

580	KSFO	San Francisco, to Oakland, Calif
570	KGKO	Wichita Falls to Ft. Worth, Texas
1500	KGFI	Corpus Christi to Brownsville, Tex.

New Stamps

THE Constitution Stamp, commemorating the signing of the Constitution, went on sale at Philadelphia on Sept. 17.

The 3c Hawaiian Commemorative will bear a likeness of Kamehameha I, first of five kings of the Hawaiian Islands. The Virgin Island stamp of this same series will illustrate the harbor of the city of Charlotte Amalie, capital of the island. Designs for Puerto Rico and Alaska have not yet been approved.

Commemorating the Second Radio Conference of So. America, BRAZIL will issue two bi-colors, the 300 reis

orange and black and 700 r. blue and brown.

Few singers can boast of the help and encouragement of a former president of the United States, yet CONRAD THIBAUT, youthful baritone, can point to that distinction for it was Calvin Coolidge who first noticed his talent and offered him definite encouragement. Conrad was a choir boy at a Northampton, Mass., church where Mr. Coolidge often attended services. Thibault studied for five years under the guidance of Emilio de Gogorza, and on the completion of his studies was awarded a contract with the Philadelphia Grand Opera Co.

Progress in India

IN THE development of broadcasting in India it has been accepted by All-India Radio as a fundamental precept that a satisfactory broadcasting system must provide a measure of service to the whole country. The basic principle of broadcasting, therefore, is to provide a shortwave service to the whole country and to support this by a continual expansion of the area served by medium-wave stations as funds become available.

To this end ten transmitters have been ordered. Four shortwave "key" stations will be established at Delhi, Bombay, Calcutta and Madras, and will be of 10 kw aerial power. A second shortwave transmitter of 5 kw is also to be provided at Delhi for special purposes.

At the same time five medium-wave stations have been ordered, and will be situated at Lahore, Lucknow, Trichinopoly, Dacca and Madras, the first four of these being of 5 kw power and the fifth, 250 watts.

In India the shortwave service is essentially an internal service, whereas the European services are primarily intended for overseas listeners. It is expected that the Indian s.w. stations will normally operate in the daytime on the 30- and 49-meter bands, and at night principally on the new 60- and 90-meter bands for broadcasting which will be proposed at the forthcoming Cairo Conference.

The frequencies to be employed by the Indian medium-wave stations, with present frequencies, are listed below:

Trichinopoly will transmit on 758 kcs.

Delhi, now working on 882, will change to 886 kcs.

Lucknow will employ the 1022 kcs. frequency.

Lahore, now on 1200, will shift to 1086 kcs.

Dacca is expected to transmit on 1167 kcs.

Bombay will move to 1231 kcs. from 855.

Calcutta will change from 810 to 1276 kcs.

Madras will move to 1420 from 770.

Peshawar will continue to transmit on 1500 kcs.

Carroll Weyrich recently visited W3FAM at Arbutus, Md. and when the operator said that he had never contacted a Spanish amateur, Carroll dutifully took over the controls of 3FAM's set and tuned in EA9AH calling CQ. They then proceeded to have a half hour's QSO during which Mr. Weyrich talked to Tetuan in Spanish. Since 3FAM doesn't understand Spanish, we are still wondering what Carroll is bragging about. However, EA9AH did speak a few words in English. Which is a reminder that amateur listeners had better get busy and write to EA9AH if they haven't already done so. He sends a nice card which is worth having. This station is heard R9 most of the time and uses English as well as Spanish if necessary. Reply coupons or 5c in coin are equally acceptable to him, and his address is Tetuan, Spanish Morocco.

The Frequency Checks

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

The Second Monday

2:00-2:20	WLNH	1310	Laconia, N. H.
	WJBO	1420	Baton Rouge, La.
2:10-2:30	WBRB	1210	Red Bank, N. J.
	WHBB	1500	Selma, Ala.
2:20-2:40	WMAS	1420	Springfield, Mass.
	WIOD	1300	Miami, Fla.
2:30-2:50	WWRL	1500	Woodside, N. Y.
	WJBW	1200	New Orleans, La.
2:40-3:00	WOKO	1430	Albany, N. Y.
	WMBR	1370	Jacksonville, Fla.
2:50-3:10	WCAX	1200	Burlington, Vt.
	WOPI	1600	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.
	WMBG	1500	Brooklyn, N. Y.
	WNBR	1430	Memphis, Tenn.
3:30-3:50	KFPW	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.
	WSMB	1320	New Orleans, La.
3:50-4:10	WFAS	1210	White Plains, N. Y.
	WHEF	1500	Kosciusko, Miss.
4:00-4:20	KFDM	500	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.
	EGDM	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	KGLD	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	WFBG	1310	Altoona, Pa.
2:40-3:00	WMBG	1210	Richmond, Va.
2:50-3:10	WEBR	1310	Buffalo, N. Y.
3:00-3:20	KDAL	1500	Duluth, Minn.
	WLVA	1200	Lynchburg, Va.
3:10-3:30	KPAC	1260	Fort Arthur, Tex.
	WBTM	1370	Danville, Va.
3:20-3:40	WKRC	550	Cincinnati, Ohio
	WHEC	1430	Rochester, N. Y.
3:30-3:50	WNAD	1010	Norman, Okla.
	WMBC	1420	Detroit, Mich.
	WRAK	1370	Williamsport, Pa.
3:40-4:00	KFVS	1210	Cape Girardeau, Mo.
	WJAC	1310	Johnstown, Pa.
3:50-4:10	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	Mt. Pleasant, N. Dak.
	WPAR	1420	Parkersburg, W. Va.
	WPAY	1370	Portsmouth, Ohio
4:20-4:40	KRMD	1310	Shreveport, La.
	WOMT	1210	Manitowoc, Wis.
	WSYR	570	Syracuse, N. Y.
4:30-4:50	KGCA	1270	Decorah, Ia.
	WJAY	610	Cleveland, Ohio
	WNBF	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	KGXC	1450	Wolf Point, Mont.
	KRMC	1370	Jamestown, N. D.
	WSPD	1340	Toledo, Ohio
5:10-5:30	KAAT	1370	Astoria, Ore.
	KNET	1420	Palestine, Tex.
	WAVE	940	Louisville, Ky.
5:20-5:40	KCMO	1370	Kansas City, Mo.
	KFJI	1210	Klamath Falls, Ore.
	WXYZ	1240	Detroit, Mich.
5:30-5:50	KIDW	1420	Lamar, Colo.
	KPQ	1500	Wenatchee, Wash.
	WGAR	1450	Cleveland, Ohio
5:40-6:00	KFIO	1120	Spokane, Wash.
	KQV	1380	Pittsburgh, Pa.
	WCAT	1200	Rapid City, S. Dak.
5:50-6:10	KLAH	1210	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	WBAQ	1240	San Juan, P. R.
2:50-3:10	WSJS	1310	Winston-Salem, N. C.
3:00-3:20	WCFO	1390	Cincinnati, Ohio
	WMFD	1370	Wilmington, N. C.
3:10-3:30	KFIZ	1210	Fond du Lac, Wis.
	WPAX	1420	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	Corseana, Texas
	KPLC	1500	Lake Charles, La.
	WHBC	1200	Canton, Ohio
3:50-4:10	KARK	890	Little Rock, Ark.
	WGPC	1420	Albany, Ga.

4:00-4:20	KFJZ 1370	Fort Worth, Tex.	KGU 750	Honolulu, T. H.	
	WHBU 1210	Anderson, Ind.	WBIB 1210	Poynette, Wis.	
	WJNO 1200	W. Palm Beach, Fla.	KGWV 1420	Alamosa, Colo.	
4:10-4:30	WBEO 1310	Marquette, Mich.	KHBC 1400	Hilo, T. H.	
	WCOC 880	Meridian, Miss.	KVEC 1200	San Luis Obispo, Calif.	
	WLB 1250	Minneapolis, Minn.	WGL 1370	Fort Wayne, Ind.	
4:20-4:40	KSO 1430	Des Moines, Ia.	The Second Friday		
	WOSU 570	Columbus, Ohio	2:00-2:20	WGNY 1210	Newburgh, N. Y.
	WKEU 1600	Griffin, Ga.	2:10-2:30	WCNW 1500	Brooklyn, N. Y.
4:30-4:50	WEXL 1310	Royal Oak, Mich.	2:20-2:40	WGBB 1210	Freeport, N. Y.
	WHLB 1370	Virginia, Minn.	2:30-2:50	WABY 1370	Albany, N. Y.
4:40-5:00	KPLT 1500	Paris, Tex.	2:50-3:10	WSYB 1500	Rutland, Vt.
	WJMS 1420	Ironwood, Mich.	3:00-3:20	WABI 1200	Bangor, Me.
	WJRD 1200	Tuscaloosa, Ala.	3:20-3:40	WIBX 1200	Utica, N. Y.
4:50-5:10	KFXR 1310	Oklahoma City, Okla.	3:30-3:50	KASA 1210	Elk City, Okla.
	WTAX 1210	Springfield, Ill.		WAGM 1420	Presque Isle, Me.
	WBIG 1440	Greensboro, N. C.	3:40-4:00	KWOS 1310	Jefferson City, Mo.
5:00-5:20	KFJB 1200	Marshalltown, Ia.		WNBZ 1290	Saranac Lake, N. Y.
	WEOA 1370	Evansville, Ind.	3:50-4:10	WJBK 1500	Detroit, Mich.
5:10-5:30	KPDN 1310	Pampa, Tex.		WMBH 1420	Joplin, Mo.
	WDZ 1020	Tuscola, Ill.		WRDO 1370	Augusta, Me.
5:20-5:40	KELD 1370	Eldorado, Ark.	4:00-4:20	KIUL 1210	Garden City, Kans.
	WAYX 1200	Waycross, Ga.		WTHT 1200	Hartford, Conn.
	WKBN 570	Youngstown, Ohio	4:10-4:30	KICA 1370	Clovis, N. M.
5:30-5:50	KDLR 1210	Devils Lake, N. D.		WCAZ 1070	Carthage, Ill.
	WADC 1320	Akron, Ohio		WNLC 1500	New London, Conn.
5:40-6:00	KRBC 1420	Ablene, Tex.	4:20-4:40	WMFG 1210	Hibbing, Minn.
	WSAU 1370	Wausau, Wis.	4:30-4:50	KIUP 1370	Durango, Colo.
5:50-6:10	KFPL 1310	Dublin, Texas		WPAD 1420	Paducah, Ky.
	WFAM 1200	South Bend, Ind.	4:40-5:00	KNOW 1500	Austin, Tex.
6:00-6:20	KLCN 1290	Blytheville, Ark.		WEMP 1310	Milwaukee, Wis.
	WELL 1420	Battle Creek, Mich.	4:50-5:10	WEW 760	St. Louis, Mo.
6:10-6:30	KGBX 1230	Springfield, Mo.		WGRG 1370	New Albany, Ind.
	WMPC 1200	Lapeer, Mich.	5:00-5:20	KIUN 1420	Pecos, Tex.
6:20-6:40	KABR 1420	Aberdeen, S. D.		WEBQ 1210	Harrisburg, Ill.
6:30-6:50	KFXJ 1200	Grand Junction, Colo.	5:10-5:30	KGEG 1200	Stirling, Colo.
				WCMI 1310	Ashland, Ky.
The Second Thursday					
2:00-2:20	WSVS 1370	Buffalo, N. Y.	5:20-5:40	KMAC 1370	San Antonio, Tex.
2:10-2:30	WKOK 1210	Sunbury, Pa.		WJW 1210	Akron, Ohio
2:20-2:40	WRAW 1310	Reading, Pa.	5:30-5:50	WIL 1200	St. Louis, Mo.
2:30-2:50	WJTN 1210	Jamestown, N. Y.		WLBC 1310	Muncie, Ind.
2:40-3:00	WTEL 1310	Philadelphia, Pa.	5:40-6:00	KTKO 1370	Oklahoma City, Okla.
2:50-3:10	WHIS 1410	Bluefield, W. Va.		WKBB 1500	E. Dubuque, Ill.
3:00-3:20	WQAN 880	Seranton, Pa.	5:50-6:10	KANS 1210	Wichita, Kans.
3:10-3:30	WLEU 1420	Erie, Pa.		WHBY 1200	Green Bay, Wis.
3:20-3:40	WBLK 1370	Clarksburg, W. Va.	6:00-6:20	WACO 1420	Waco, Tex.
3:30-3:50	WSAJ 1310	Grove City, Pa.	6:10-6:30	WJBL 1200	Decatur, Ill.
3:40-4:00	WJBC 1200	Bloomington, Ill.	6:20-6:40	KRQA 1310	Santa Fe, N. M.
	WSAY 1210	Rochester, N. Y.		WHDF 1370	Calumet, Mich.
	WHAT 1310	Philadelphia, Pa.	6:30-6:50	KGDE 1200	Fergus Falls, Minn.
	WLAP 1420	Lexington, Ky.	The Second Saturday		
4:00-4:20	WHDL 1400	Olean, N. Y.	2:00-2:20	WMFR 1200	High Point, N. C.
	WSMK 1380	Dayton, Ohio	2:10-2:30	WMFO 1370	Decatur, Ala.
4:10-4:30	KAWM 1500	Gallup, N. M.	2:20-2:40	WSOC 1210	Charlotte, N. C.
	WJIM 1210	Lansing, Mich.	2:30-2:50	WTJS 1310	Jackson, Tenn.
4:20-4:40	WBBZ 1200	Ponca City, Okla.	2:40-3:00	WSIX 1210	Nashville, Tenn.
	WBOW 1310	Terre Haute, Ind.	2:50-3:10	WROL 1310	Knoxville, Tenn.
4:30-4:50	KGKL 1370	San Angelo, Tex.	3:00-3:20	KOTN 1500	Pine Bluff, Ark.
	WCBS 1420	Springfield, Ill.		WBLY 1210	Lima, Ohio
4:40-5:00	KRRV 1310	Sherman, Tex.		WQAM 560	Miami, Fla.
	WTMV 1500	East St. Louis, Ill.	3:10-3:30	KWYO 1370	Sheridan, Wyo.
4:50-5:10	KGGM 1230	Albuquerque, N. M.		WPRP 1420	Ponce, P. R.
	WHBF 1210	Rock Island, Ill.	3:20-3:40	KGCU 1240	Mandan, N. Dak.
5:00-5:20	KERN 1370	Bakersfield, Calif.		WNEL 1290	San Juan, P. R.
	KGKO 570	Wichita Falls, Tex.	3:30-3:50	KXYZ 1440	Houston, Tex.
	WTRC 1310	Elkhart, Ind.		WAML 1310	Laurel, Miss.
5:10-5:30	KGFI 1500	Corpus Christi, Tex.		WKBV 1600	Richmond, Ind.
	KTRB 740	Modesto, Calif.	3:40-4:00	KRGV 1260	Weslaco, Tex.
	WWAE 1200	Hammond, Ind.		WFOR 1370	Bradleyburg, Miss.
5:20-5:40	KFYO 1310	Lubbock, Tex.	3:50-4:10	KNEL 1500	Brady, Tex.
	KJBS 1070	San Francisco, Calif.		WEED 1420	Rocky Mount, N. C.
	WIBM 1370	Jackson, Mich.		WGBF 630	Evansville, Ind.
5:30-5:50	KGHI 1200	Little Rock, Ark.	4:00-4:20	KVSO 1210	Armore, Okla.
	KXO 1500	E. Centro, Calif.		WDFD 1310	Flint, Mich.
	WALR 1210	Zanesville, Ohio	4:10-4:30	WFTC 1200	Kinston, N. C.
5:40-6:00	KGHF 1320	Pueblo, Colo.		KFQD 780	Anchorage, Alaska
	KHSL 1260	Chico, Calif.		KONO 1370	San Antonio, Tex.
	WDWS 1370	Champaign, Ill.	4:20-4:40	WKBY 1500	Muskegon, Mich.
5:50-6:10	KGKB 1500	Tyler, Texas		KRLC 1390	Lawiston, Idaho
	KSUN 1200	Lowell, Ariz.		KTSM 1310	El Paso, Tex.
	WBCM 1410	Bay City, Mich.		WBHP 1200	Huntsville, Ala.
6:00-6:20	KGFL 1370	Roswell, N. M.			

4:30-4:50	KOCA	1210	Kilgore, Tex.
	KUJ	1370	Walla Walla, Wash.
4:40-5:00	KCMC	1420	Texarkana, Texas
	KRRR	1500	Roseburg, Ore.
4:50-5:10	KEEN	1370	Seattle, Wash.
	KWTF	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.
	KGEZ	1310	Kallspel, Mont.
5:30-5:50	KBIX	1500	Muskogee, Okla.
	KFXD	1200	Nampa, Idaho
5:40-6:00	KFJM	1410	Grand Forks, N. D.
	KXRO	1310	Aberdeen, Wash.
5:50-6:10	KGY	1210	Olympia, Wash.
6:00-6:20	KINY	1310	Juneau, Alaska
6:10-6:30	KMED	1410	Medford, Ore.



Phillips Lord interviews a parrot which took an important part in the solving of one of the crimes which he reported in the "Gang Busters" Program. The parrot's ability to repeat scraps of conversation in Italian picked up at racketeer's meetings helped to convict a notorious gangster.

The Ray Perkins show, "Hi, There, Audience," has been switched to 7 to 7:30 pm, EST, on the WOR—Mutual Network.

Carl and Anne Eder, Pouch —A—, Willmar, Minn. wish to exchange SWL cards with listeners in every country.

Spotting Sun Spots

ON SUNNY afternoons a telescope, pointed at the sun, may be seen protruding from one of the sixth-floor windows of Broadcasting House, London. Its appearance indicates that the staff of the Overseas and Engineering Departments of the BBC are taking observations of the number and position of sunspots—routine work that is carried out daily when the state of the weather permits.

Through the telescope an image of the sun is thrown upon a square of paper, the sunspots being seen as black specks, either isolated or in groups. Their positions are plotted on a chart, and thus a day-to-day record of a spot's progress across the face of the sun is obtained. By this somewhat rough and ready method the general trend of sunspot activity can be watched, and subsequent checking with the Royal Observatory at Greenwich provides detailed information about its exact magnitude.

Listeners to the BBC's short-wave transmission from Daventry benefit in an indirect way from the use made of this information. As is now well known, solar activity greatly affects the ionospheric conditions governing short-wave transmission, and plays a large part in determining the frequencies to be used. The choice of the dates on which frequency changes are to be made is also governed by the general trend of solar activity, and advance information is sometimes provided by these simple observations.

WEOA in Evansville, Ind., 1370 kcs., will join the CBS this fall, as soon as telephone lines are available.

Call-o-Gram

Solution to Call-o-Gram printed on page 8.

WWNC PHILCO DX W
KMJ WKBI MAINE E
BC WSEN KWK CCIW
G HARTFORD K WN
CONNECTICUT K
C M CNRO S WKY
KGW WRC WCOACHNC
A YVIRC Q KXA

"I Disagree"

"I do not agree with the statement of Julius Orosz in the Amateur Column in the September issue of RA-DEX," parries Walter C. Snyder, 1401 Logan St., S. E., Grand Rapids, Mich. "If Mr. Orosz thinks he can pick up station PP in Paris by simply turning the dial to 959 kcs, and turning up the volume control, I believe he has another think coming. Atmospheric conditions and the season have a thing or two to say about that.

"Amateur DX seems too easy for me. One can pick up foreign DX nearly any time he pleases, and that is certainly more cut and dried than waiting for weeks for a station on the broadcast band to come through.

"I grant that it is easy to build up a log of 20 meter stations; it takes only a few minutes to identify a new amateur station, but a large log on the BCB represents much more work than one of similar proportions on the 20 meter band.

"I feel that, on the broadcast band, reception of a foreign station really means something and is not an every day occurrence."

Foreign Notes

(Continued from page 11)

using a kilowatt and announcing as "Ultimas Noticias." The address is Compania 1258.

(It should be noted that in referring to Chilean stations it is not necessary to give the frequency on which they work. All that is necessary is to add a cypher to the call letters to determine the frequency).

A 200 watt station is under construction at Coquimbo; it is CB96, operated by Puerta Brothers, Aldunate 1381. Two stations are being built at Chillan. One of these, CC127, 100 watts, is owned by Rafael Barrios, Arauco entre Const-Roble, and the other, CC133, 100 watts, is operated by Miquel Arrau, 5 de Abril 587. CB150, Santiago, 10 kw., is under construction.

Victor Wiedmaier's CB130, Santiago, is not in operation at the present time, while CB144D of Santiago and CB146 of San Felipe have been deleted.

In Europe

Three new stations are now operating, but on comparatively low power for transatlantic reception. Gorlitz, Germany, 5 kw, is on 1231 kcs. Warsaw No. 2, Poland, 5 kw, employs the 1360 kcs. frequency, and a 250 watt station owned by the University of Bucharest, Roumania, transmits on 1411.

Only two major frequency changes are noted. Moscow No. 2, 100 kw., has moved from 271 to 232 kcs., and RW53, Leningrad No. 1, 100 kw., shifted from 232 to 271 kcs.

Power changes are recorded from Sofia, Bulgaria, 848 kcs, now one kilowatt, and Riga, Latvia, 1258 kcs, owned by Riga Radiofons, has increased to 15 kw.

Four of the French stations have boosted power. Alpes-Grenobles, 583



Gabriel Heatter, veteran metropolitan journalist and top-notch radio news reporter, is shown here in a characteristic pose.

kcs, (1 Rue Hauguelin), is now 20 kw. Agen, 832, now has 1.5 kw. Bordeaux-Lafayette, Hotel des PTT, 220 Chemin de Tondu, Bordeaux, on 1077, has increased to 35 kw. "Radio Normandie," Societe Anonyme, Siege Social, Fecamp, working on 1113 kcs, now uses 15 kw. power.

Naples, Italy on 1104 boosted its wattage to 10 kw. The Berlin long wave station, "Deutschlandsender," 191 kcs, will increase from 60 to 150 kw.

Independent programs on different frequencies, designed to serve listeners in Wales and the West of England, are now radiated by the BBC from its transmitting station at Washford Cross (Somerset), where two transmitters are available. Under the new arrangement one transmitter of 70 kw. power radiates the Welsh programs, and the other transmitter, using 50 kw,

transmits the West of England program.

As a result of this development, certain changes in the frequencies of other BBC stations were necessary. A full list of the British stations is given below:

- 200 kcs., Droitwich, 150 kw., Nat'l program.
- 668 kcs., Moorside Edge, 70 kw., North program.
- 767 kcs., Westerglen, 70 kw., Scottish program.
- Burghead, 60 kw., Scottish program.
- 804 kcs., Washford Cross, 70 kw., Welsh program.
- Penmon, 5 kw., Welsh program.
- 877 kcs., Brookmans Park, 70 kw., Regional program.
- 977 kcs., Lisangarvey, 100 kw., N. Ireland program.
- 1013 kcs., Droitwich, 70 kw., Midland program.
- 1050 kcs., Washford Cross, 50 kw., W. England program.
- 1122 kcs., Newcastle, 1 kw., Newcastle program.
- 1149 kcs., Brookmans Park, 20 kw., Nat'l program.
- Moorside Edge, 20 kw., Nat'l program.
- Westerglen, 50 kw., Nat'l program.
- 1285 kcs., Aberdeen, 1 kw., Aberdeen program.
- 1474 kcs., Plymouth, 300 watts, Regional and W. England program.
- Bournemouth, 1 kw., same as Plymouth.

A number of articles of interest to the DXer who fishes in the broadcast band for foreign stations have appeared in RADEX. A few of the more important titles are "Tuning the trans-Pacific Stations" in Issue No. 48, and another article with the same name in Issue No. 65. "Experience with the JO—Stations" was written in No. 73. "How to Tune the Europeans" appeared in No. 90, and "Europeans Worth Trying For" can be read in No. 92.

Night Life

(Continued from Page 25)

ton, Alta. "This cannot be blamed on the station owners, as many were reduced from 500 to 100 watts under the old CRC. Furthermore, al-

though the equipment of the Mexican stations is more powerful, I do not agree that it is more modern. When their power was reduced, many of the Canadian stations put in brand new equipment. It took years for the NBC and CBS to reach their present standard in the United States, and the new CBC must be given time to develop broadcasting in Canada. With the co-operation of the listeners, it shouldn't be long before we are on a par with any other country in the world."

DX Reports

"DX reception during the last season was fair," reviews Harry V. Adams, Bay View, N. S. "During a period of six months, I was able to verify LR1, LS2, PRE8, Fecamp, Paris, Rennes, Nice, Lille, Toulouse, Marseilles, Belfast, Strasbourg, Milan, Munich, Cologne, HJ3ABX, KGMB, KHBC, 1YA and 3LK. In December and January alone, I logged 27 trans-Atlantic stations, including Leipzig, EAJ1, Lyons, Athlone and Falkirk. My best domestic veries were from CKWX, CJCA, CJRM, CMHJ, XET and KUJ. Receiving equipment was a 6-tube Stewart-Warner set, an aerial of Litz wire 100 feet long, and a chemical ground."

"Verifications have come in from 3SR, 2NR, 3LK, 2UE, 2HD, 2CH, 2UW and 4QN," reports Anthony C. Tarr, 909 W. Lee St., Seattle, Wash. "The latter station is owned by the government and does not require reply coupons from listeners who want veries. 3SR offered to put on a special American DX program next fall and I am going to line it up for the UDXC."

"I just started DXing at the beginning of the past season," admits Francis T. Coradetti, 212 Merion Ave., Narberth, Pa., "and my log stands at 384 stations heard, with 221 verified. Some of my best catches are CRCV, KRNR, KWYO,

KFAC, KFWB, KGDE, KOY, KECA and KOH. Contrary to your lists, WGH has verification stamps and now I have one."

Scrapbook

(Continued from Page 34)

ible souvenirs of nearly every station which I have heard. Be they the handsome diplomas of LR5 and CX26, the distinctive letterheads of RXKR and WAGF, the awful carbon copies of KGMP or the simple postcards which I prepared, every verification receives an honored place in my file.

In the years to come, as in the past, I shall enjoy looking them over and recalling the circumstances under which they were obtained. I will remember the trouble I had in coaxing replies from WEHC, WSAJ and KSEL. I may get a chuckle from the simple replies from the three Ohio outlaws. I shall probably relive the thrill of hearing KRE and RXKR under most adverse conditions. Certainly I shall always recall the exciting moments when LR5 first crashed through KOA with an R7 signal, when Algiers pushed through the maze on 940 kcys, one January evening two years ago, when 2KY became my first Aussie and Poste Parisien was logged for my first European, and when I heard each of the other 30 trans-oceanic catches.

Yes, I am sure that the process of verifying stations is very much worth while. I know that it has added a great deal to the pleasure which I have derived from DXing, and I know that the custom will continue as long as I spin a dial on an early-morning trick.

The Sacramento station KFBK was authorized by the FCC to increase its power to 10,000 watts on the 1490 kcs channel.

WHAT'S ON THE AIR TONIGHT

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

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

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

MONDAY

E-5:35 p.m., C-4:35, M-3:35, P-2:35

C — Baseball Resume

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

E-5:45 p.m., C-4:45, M-3:45, P-2:45

B — Lowell Thomas

CRCT KDKA WBAL WBZ WBZA
WFLA WIOD WJAX WJZ WLW
WMAL WOOD WRVA WSyr WTAM
WYXZ

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

C — Poetic Melodies; Jack Fulton

WABC WADC WBT WCAU WCAU
WDRC WEAN WEEI WFBL WGR
WHCC WHK WJAS WJR WJSV
WKRC WOKO WSPD WTCC WVVV

R — Amos 'n' Andy

KYWB WBNB WCAE WCHS WFAE
WEEI WFBR WGY WJAR WLW
WRC WTAG WTIC

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

R — Uncle Ezra's Radio Station

KARK KFYR KGBX KGNC KPRC
KSTP KTBS KTHS KVOO KYW
WBAP WBNB WCAE WCKY WCOL
WCHS WDAF WDAY WFAE WFCB
WFAA WFBF WGBF WGY WHO
WBA WIRE WJAR WKY WMAQ
WNAC WOAI WOOD WOW WRC
WTAG WTAM WTIC WTMJ

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

B — Lum and Abner

WBZ WBZA WENR WJZ WLW
WMC WSM WSyr

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

C — Boake Carter

KMBC KMOXKOMA KRLL WABC
WBBM WBT WCAU WCOO WDRC
WEAN WFBL WGR WHS WHK
WJAS WJR WJSV WKRC WNAC

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

C — Horace Heidt and Orchestra

KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KRLL KRNT KSL KTRH KTSa
KTUL KVI KWG WABC WBBM
WBRC WBT WCAU 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 KYWB WBNB WCAE WCSC
WCHS WFAE WFBR WFLA WGY
WHO WIOD WIRE WIS WJAR
WJAX WLW WMAQ WNAC WPTF
WRC WRVA WSOC WTAG WTAM
WTAR WTIC WWJ

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

C — Pick and Pat

KFAB KMBC WABC WADC WBBM
WBT WCAU WCAU WDRC WEAN
WFBL WGR WGST WHEC WHK
WHP WIGC WJAS WJR WJSV
WKRC WLBB WMAS WNAC WOKO
WORC WSPD

R — Voice of Firestone

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

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

R — Fibber McGee and Molly

KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBNB WCAE
WCOL WCHS WDAF WDAY WFAE
WFCB WFAA WFBR WFLA WGY
WHO WBA WIOD WIRE WIS
WJAR WJAX WJDX WLW WMAQ
WMC WNAC WOAI WOOD WOW
WPTF WRC WSB WSM WSMB
WSOC WSUN WTAG WTAM WTAR
WTIC WTMJ WWJ WWNC

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

R — Phil Spitalny's Girl Orchestra

CFCF CRCT KDYL KFI KGHL

KGIR KGO KGW KHQ KOA KOMO

KPRC KSD KSTP KVOO KYW
WAVE WBNB WCAE WCHS WDAF
WEAF WFAA WFBR WFLA WGY
WHO WBA WIOD WIRE WIS
WJAR WJAX WKY WLW WMAQ
WMC WNAC WOAI WOW WPTF
WRC WRVA WSB WSM WSMB
WTAG WTAM WTAR WTIC WTMJ
WWJ

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

R — Contented Program

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

C — Wayne King and Orchestra

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

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

R — Burns and Allen

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

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

C — Poetic Melodies; Jack Fulton

KERN KFAB KFBK KFPY KFRC
KGB KHJ KLRA KLZ KMBC KMOX
KOBIN KOL KOMA KRLL KRNT
KSL KTRH KTSa KVI WBBM
WBRC WCOO WFBM WGST WLAC
WREC WWL

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD WBAF WDAF
WHO WGY WLW WMC WOAI WOW
WSB WSM WSMB WTAM WWJ

MONDAY (Continued)

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

C — Boake Carter
KFPY KLZ KNX KOIN KOL KSFO
KSL KVI

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

C — Pick and Pat
KFPY KGKO KLRA KLZ KMOX
KNX KOIN KOL KOMA KRLD
KRNT KSCJ KSFO KSL KTUL
KVI KWKH WACO WBRG WCCO
WFBM WHAS WLAC WREC

TUESDAY

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

C — Baseball Resume, See Monday

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces

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

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

B — Lum and Abner, See Monday

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

C — Mark Warnow Orchestra
CFRB KFAB KFH KFPY KGVO
KLRA KLZ KMBC KMOX KNOW
KNX KOIN KOL KOMA KRLD
KRNT KSCJ KSFO KSL KTRH
KTSB KTUL KVI WABC WADC
WBBM WBNS WBRG WBT WCAO
WCAU WDAE WDBJ WDNC WDRG
WEEI WFBL WFBM WGR WGST
WHAS WHEC WHK WIBX WJAS
WJR WJSV WERC WLZB WNAX
WOWO WORC WPRO WQAM WREC
WWL

R — Johnny with Russ Morgan
KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBAP
WBEN WCAE WCHS WDAF WDAY
WEAF WCEB WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAQ WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTCI
WTMJ WJZ WWNC

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

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

R — Wayne King and Orchestra
KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAP WBEN
WCAE WCKY WCHS WDAF WDAY
WEAF WCEB WEEI WFBR WGY
WHO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WOI

WOW WRC WSB WSM WSMB
WTAG WTAM WTCI WTMJ WWJ

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

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

C — Al Pearce and Gang
CFRB CKAC KFAB KFH KGKO
KLRA KMBC KMOX KOMA KRLD
KRNT KSCJ KTRH KTSB KTUL
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRG WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOD WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBX WJAS
WICC WISN WJAS WJR WJSV
WKBH WKBN WKBW WKRC
WLAC WLZB WMAS WMBD WMBG
WMBR WMMN WNAC WNAX
WNBF 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 WFBR
WGY WHO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTCI
WWJ

B — Ben Bernie and Orchestra
KDKA KDYL KFI KFSK KFYR
KGW KHQ KOA KOIL KOMO KPO
KPRC KSO KSTP KTAR KTBS
KVOO KWK WAVE WBAL WBAP
WBZ WBZA WDAY WEBC WFIL
WFLA WGAR WHAM WIBA WIOD
WIS WJAX WJDX WJZ WKY WLS
WLW WMAL WMC WMT WOI
WPTF WREN WRVA WSB WSM
WSMB WSOC WSYP WTAR WTMJ
WWNC WXYZ

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

C — Benny Goodman Orchestra
KFAB KFH KFPY KGKO KLRA
KLZ KMBC KMOX KNX KOIN KOL
KOM A KRLD KRNT KSCJ KFO
KSL KTRH KTSB KTUL KVI KFOR
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRG WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOD WDRG WEEI
WFBL WFBM WGST WHAS WHEC
WHIO WHK WHP WIBX WJAS
WISN WJAS WJR WJSV WKBN
WKBW WKRC WLAC WLZB WMAS
WMBD WMBG WMBR WNAX
WNBF 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 WECB
WEEI WFBR WFLA WGY WHO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSM WSMB WSOC WTAG WTAM
WTAR WTCI WTMJ WWJ WWNC

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

R — Jimmy Fidler Hollywood Gossip
KDYL KFI KGW KHQ KOA KOMO

KPO KSD KTAR KYW WBEN
WCAE WCHS WDAF WEAF WFBR
WGY WHO WJAR WLW WMAQ
WNAC WOOD WOW WRC WTAG
WTAM WTCI WWJ

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

R — Vic and Sade
KDYL KFI KGW KHQ KOA KOMO
KPO KSD KSTP KYW WCAE WCHS
WDAF WEAF WFBR WGY WHO
WIRE WLW WMAQ WNAC WOW
WRC WTAG WTAM WTCI WWJ

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

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

WEDNESDAY

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

C — Baseball Resume, See Monday

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

R — Uncle Ezra, See Monday

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

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

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

C — Cavalcade of America
KDB KERN KFAB KFBK KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMCO KOIN KOL KRLD KRNT
KSL KVI KWG WABC WBBM
WBNS WCAU WCCO WDRG WEAN
WFBL WFBM WGR WHAS WHEC
WHK WJAS WJR WJSV WRC
WLAC WMBG WNAC WOKO WTOC
WWL

R — One Man's Family
KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KTBS KTHS KVOO KYW
WAPI WAVE WBAP WBEN WCAE
WCHS WDAF WDAY WEAF WECB
WEEI WFAA WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTCI
WTMJ WWJ WWNC

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

C — Eddie Cantor; Deanna Durbin
CFRB CKAC KFAB KFH KLRA
KMBC KMOX KOMA KRLD KRNT
KSCJ KTRH KTSB KTUL KWKH
WABC WADC WBBM WBNS WBRG
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRG WEEI WFBL
WFBM WGR WGST WHAS WHEC
WHIO WHK WHP WIBX WJAS
WJAX WJR WJSV WKRC WLAC
WLZB WMAS WMBD WMBG

Wednesday (Continued)

WMBR WNAX WNOX WOKO WORC
WOVO WPG WPRO WQAM WREC
WVL

R — Wayne King, See Tuesday

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

C — Kostonlatz

KDB KERN KFAB KFBK KFH
KFPY KFRK KGB KGRO KGMB
KHJ KLKA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBG
WDNC WDND WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBN WKBW WKRC WLAC WLBB
WMBR WMBD WMBG WMBR
WNAC WNAX WNBW WNOX WOC
WOKO WORC WOVO WPG WQAM
WREC WSFA WSJS WSPD WTOC
WVL

R — Town Hall Tonight

KFYR KPRC KSD KSTP KTBS
KTHS KVVO KYW WAVE WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFAA WFRB WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOA1 WOW WPTF WRC WSB
WMSB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WUNC

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

C — Jessica Dragonette

KDB KERN KFAB KFBK KFH
KFPY KFRK KGB KGMB KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSL KTRH K TSA KTUL
KVI KWG KWKH WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO
WDRG WEAN WFBL WFBM
WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSA
WKBW WKRC WLAC WLBB WMBG
WMBR WNAC WOKO WORC WOVO
WQAM WREC WTOC WVL

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

C — Crime Crusade; Phil Lord

KDB KERN KFAB KFBK KFH
KFPY KFRK KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOM A KRLD KRNT KSL KTRH
K TSA KTUL KVI KWG KWKH
WABC WACO WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRG WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSV
WKBN WKRC WLAC WLBB WMBG
WMBR WNAC WOKO WORC WOVO
WQAM WREC WTOC WVL

R — Your Hit Parade

KDYL KEX KFI KFYR KGHL
KGR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR KTBS
KTHS KVVO KYW WAVE WCAE
WCSH WCSH WDAF WDAY WEAF
WEBC WFAA WFRB WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ

WMC WNAC WOA1 WOW WPTF
WRC WRVA WSB WSM WSBM
WSOC WSUN WSUR WTAG WTAM
WTAR WTIC WTMJ WWJ WUNC

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

C — Boake Carter, See Monday

THURSDAY

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

C — Baseball Resume, See Monday

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

C — "We, The People."

Station list not available

B — Lum and Abner, See Monday

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

R — Rudy Vallee's Variety Hour

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KRC
KSD KSTP KTAR KTBS KTHS
KVVO KYW WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFRB WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOA1 WOW WPTF WRC WSB
WMSB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WUNC

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

M — Guy Lombardo Orchestra

CKLW KDB KDON KFEL KFRK
KFXX KGB KGDM KHJ KPAC
KSO KVOE KWK KXO WABY WBAL
WFIL WGAR WKBW WMT WL
WOR WSA1 WSUR WWSW
Also on Canadian Network

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

C — Major Bowes' Amateurs

CFRB CKAC KDB KERN KFAB
KFBK KFH KFPY KFRK KGB
KGKO KLRA KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDND WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBN WKBW WKRC WLAC WLBB
WMBR WMBD WMBG WMBR
WNAC WNAX WNBW WNOX WOC
WOKO WORC WOVO WPG WQAM
WREC WSFA WSJS WSPD WTOC
WVL

R — Maxwell House Show Boat

KDYL KFI KFSB KFYR KGHL
KGR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR KTBS
KTHS KVVO KYW WAVE WCAE
WCSH WCSH WDAF WDAY WEAF
WEBC WEEI WFRB WFLA WGY
WHO WIBA WIOD WIRE WIS

WJAR WJAX WJDX WKY WMAQ
WMC WOA1 WOW WPTF WRC
WRVA WSAI WSB WSM WSBM
WSOC WTAG WTAM WTAR WTIC
WTMJ WWJ WUNC

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

C — Your True Adventures

KFAB KFH KFPY KLRA KLZ
KMBC KMOX KNX KRN KOL
KOM A KRLD KRNT KSFO KSL
KTRH K TSA KTUL KVI KWKH
WABC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDRG WEEI WFBL WFBM
WGST WHAS WHEC WHIO WHK
WISN WJAS WJR WJSV WKBW
WKRC WLAC WLBB WMBG WMBR
WOKO WORC WPRO WQAM WREC
WTOC WVL

R — Bob Burns

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVVO KYW WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFRB WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOA1 WOW WPTF WRC
WRVA WSB WSM WSBM WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WUNC

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

C — March of Time

KFAB KFPY KLZ KMBC KMOX
KNX KOIN KOL KOMA KRNT
KSFO KSL KVI WABC WBBM
WBNS WCAO WCAU WCCO WDRG
WEEI WFBL WFBM WGST WHAS
WHEC WHK WJAS WJR WJSV
WKBW WKRC WOKO WPRO WVL

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

FRIDAY

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

C — Baseball Resume, See Monday

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

R — Uncle Ezra, See Monday

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

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

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

C — Hammerstein Music Hall

KDB KERN KFAB KFBK KFPY
KFRK KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT

FRIDAY (Continued)

KSL KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WFRB WGST WHAS WHK WJAS
WJR WJSV WKRC WMAS WMBG
WNAC WOKO WWL

R — Cities Service Concert

CRCT CFYR KOA KFRC KSD
KSTP KTBS KTHS KV00 KYW
WBAP WBEN WCAE WBBM WDAF
WDAY WFAE WFCB WVEE WFAA
WFRB WGY WHO WIBA WIOD
WJAR WKY WMAQ WOAI WOW
WRC WRVA WSAI WTAG WTAM
WTIC WTMJ WWJ

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

C — Hal Kemp

KFAB KFH KGKO KLRA KMBC
KMOX KOMA KRLL KRNT KCSJ
KTRH KTSa KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDOD WDRC WEEI WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHIO WHK WHP WIBW
WIBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLBB WMAS
WMBD WMBG WMBR WMMN
WNAX WNBW 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 WHAM WJZ
WBZA WFIL WGR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

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

C — Hollywood Hotel

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

R — Frank Munn; Bernice Claire

KSD KYW WBEN WCAE WCSH
WDAF WFAE WVEE WFRB WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WWJ

B — "Believe it or Not" Ripley

KANS KDKA KFYR KGNC KLO
KOIL KPRC KSO KVOD KWK WAPI
WAVE WBAL WBAP WBZ WBZA
WDAY WEAN WERC WEBR WFAA
WFCB WFIL WGAR WHAM WIBA
WICC WJZ WKY WLS WLW WMAL
WMC WMT WOAI WOOD WPTF
WREN WRTD WSB WSM WSMB
WSOC WSPD WSYR WTAR WTCN
WTMJ WXYZ

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

R — True Story Court

KBD KYW WBEN WCAE WCSH
WEAF WVEE WFRB WGY WHO
WJAR WMAQ WOW WRC
WTAG WTAM WTIC WWJ

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

R — First Nighter; Drama

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTBS KTHS KYW WAVE WBEN
WCAE WCSH WDAF WDAY WFAE
WVBC WVEE WFAA WFRB WFLA
WGY WHO WIBA WIOD WISJ
WJAR WJDX WKY WLW WMAQ
WMC WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

B — Morton Bove

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

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

R — Jimmy Fidler

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

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

R — Amos 'n' Andy, See Monday

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

C — Boake Carter, See Monday

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

C — Hal Kemp

KFBB KFFY KGMB KGVO KLZ
KNX KOH KOIN KOL KSFO KSL
KVI KVOR

SATURDAY

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

C — Baseball Resume, See Monday

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

C — Saturday Swing Club

KFBB KFH KFFY KGKO KGVO
KLZ KNOW KOH KOL KOMA KRLL
KSCJ KSFO KSL KTRH KTSa KVI
KVOR KWKH WABC WACO WADC
WBG WBNS WBT WCAO WCAU
WCCO WDAE WDBO WDRC WEEI
WFBL WGR WHEC WHK WHP
WIBW WIBX WISN WJAS WLBB
WMAS WMBD WMBG WNBW WOC
WOKO WORC WPRO WSJS WWVA

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

C — Phil Duoy; Russ Morgan

KFAB KFH KMBC KMOX KRNT
WABC WADC WBBM WBIG WBNS
WBT WCAO WCAU WCCO WCOA
WDRC WEEI WFBL WFBM WGR
WGST WHAS WHEC WHIO WHK
WHP WISN WJAS WJR WJSV

WKRC WMBD WMBG WNBW WOC
WOKO WPRO WSBT WWVA

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

C — Prof. Quiz

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

B — National Barn Dance

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

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

C — Your Hit Parade

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

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

CBC — The Northern Messenger

CFAC CFCH CFCO CFJC CFPL
CFQC CHWK CJAT CJCA CJCK
CJKL CJOC CJRM CJBO CJRX
CKBI CKCK CKGB CKOC CKOV
CKPR CKCO CKTB CKX CKY
CRCK CHCM CRCO CRCS CRCT
CRCV CROW CROX

B — National Barn Dance

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

SUNDAY

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

C — Major Bowes' "Family"

CFRB KERN KFAB KFBK KFBK
KFH KFFY KFRC KGB KGVO
KMBC KOH KOL KRLL KSL KTRH
KTSa KVI KVOR KWG KWKH
WABC WACO WADC WALA WBNS
WBRC WCAO WCCO WDAE WDBJ
WDBO WDNC WESG WFBL WFEA
WHAS WHK WIBX WJAS WJR
WKRC WLBB WMBD WMBR
WMMN WOC WOKO WORC WPG
WQAM WSBT WSJS WSPD WTOC

SUNDAY (Continued)

E-10:00 p.m., C-9:00, M-8:00, P-7:00
R — James Melton

KDYL KFI KGBX KGW KHQ KOA
KPO KPRC KSD KSTP KTAR KTBS
KTHS KYW WAVE WBAP WBEN
WCAE WCHS WDAF WFAF WPBR
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 WTAJ WWJ
WWNC

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

R — Sunset Dreams; Morin Sisters
KDYL KFI KFSB KGW KHQ KOA
KOMO KPO KPRC KTAR KTBS
KTHS WBAP WDAF WKY

E-11:15 p.m., C-10:15, M-9:15, P-8:15
B — Walter Winchell
KDYL KFI KFSB KGHL KGII
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS WAPI WAVI
WBAP WJDX WKY WMC WOA
WSB WSM WSMB

E-11:30 p.m., C-10:30, M-9:30, P-8:30
B — Bob Hope; Shep Fields
KPRC KTBS KTHS KVOD WAP
WAVE WBAP WJDX WKY WMC
WOAI WSB WSM WSMB

About Aerials

(Continued from Page 19)

leadin and the other between the leadin and the receiver. The former is the *antenna-matching transformer*, and the latter is the *set-matching transformer*. In most cases, with commercial kits, the antenna and the leadin lines are designed so as to match without the need of a transformer supported in the air. It is because of this necessity of matching the aerial sections that most antenna manufacturers warn the user not to cut the transmission lines. Since all receivers are different, however, a set-matching transformer is always necessary.

When a radio set maker also provides his own type antenna kit for use with his radios, he frequently matches the transmission line to the pre-selector circuit of the receiver, so that in this case a set matching transformer is not required.

To properly construct matching transformers for the home-made doublet or noise-reducing antenna is a difficult task. Such a transformer, in effect, might consist of a short tube of cardboard about $\frac{1}{2}$ inch in diameter wound with several layers of fine wire—about No. 32; 500 turns should be sufficient. Over this wrap

a piece of waxed paper, and then a layer of tin foil, but leave a small gap between its ends so as to expose a portion of the turns of wire on the secondary coil beneath. Cover this with more waxed paper, and wrap on the primary which is about 100 turns of the same wire. Connect the primary to the antennna transmission line and the secondary to the antenna and ground terminals of the set. The tin foil shield keeps out some noise. This transformer is best adapted to older sets made for the broadcast band.

"I have had most excellent results during the past winter and through this hot summer, despite the fact most DXers have disliked reception conditions this year," declares Howard M. Philips, 3907—20th St., Washington, D. C. "I have found that dark days and heavily clouded skies when not accompanied by lightning, low temperature and high humidity, spell the best DX. The broadcast band has been so good that WKAQ is heard R7—9, QSA3—5 very regularly in the evenings."

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

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 Heldt, 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

Chesterfield Program, 9 p.m. Wed., C
 Cities Service Concert, 8 p.m. Fri., R
 Contented Program, 10 p.m. Mon., R
 Freside Recitals, 7:30 p.m. Sun., R
 Fleischmann Variety Hour, 8 p.m. Thurs., R
 Hit Parade, 8 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
 We, The People, 7:30 p.m. Thurs., C

SINGERS

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

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
 Deanna Durbin, 8:30 p.m. Wed., 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
 Ed McConnell, 5:30 p.m. Sun., B
 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 Ren, 8:30 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

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
 Eddie Cantor, Wed. at 8:30, C
 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

TALKS

Boake Carter, 7:45 and 11:15 Mon., Wed., Fri., C
 Jimmy Fidler, 10:30 p.m. Tues. and Fri., 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

Roster of DX Clubs

FOLLOWING is a list of radio clubs for both broadcast band and shortwave fans.

All-wave All-World DX Club, 214 George St., Sydney, NSW, Australia. Life membership, 3/6 (about 84c).

Before Breakfast DX Club, 309 S. Bedford Drive, Beverly Hills, Calif. Stanley La Rue, President.

Canadian DX Relay, 2104 Lorne ave, Saskatoon, Sask., Canada. C. Hesterman, President. \$1.00 per year.

Chicago Short Wave Radio Club, P. O. Box 240, Chicago, Ill. Harold Wright, President. \$1.00 per year.

Globe Circlers' DX Club, 1652 Radcliff Ave., Bronx, N. Y. Raphael Geller, Pres.

Globe Radio DXers' Association, 61 Lipson St., Pt. Adelaide, SA, Australia. Arthur H. Preece, Secy. \$1 for Life Membership.

International DXers' Alliance, Bloomington, Ill. Charles P. Morrison, Pres. \$1.00 per year domestic, \$1.25 per year foreign.

International Short Wave Club, E. Liverpool, Ohio. Arthur J. Green, Pres. \$1.00 per year.

KDKA DX Club, Station KDKA, Grant Bldg., Pittsburgh, Pa. No. dues.

Liga Colombiana Radio DXers' Alliance, c/o Aurelio Linero, Aptdo. 330, Bogota, Colombia.

National Radio Club, 603 W. Market St., York, Pa. Robt. M. Weaver, Pres. \$1.25 per year.

Newark News Radio Club, 215 Market St., Newark, N. J. Irving H. Potts, Pres. \$2.00 per year.

New Zealand DX Club, Box 1680, Wellington, New Zealand. Fees about 60c per year.

New Zealand DX Radio Association, P. O. Box 437, Dunedin, New

Zealand. Entrance fee of 60c and yearly dues about \$1.56.

Phoenix Shortwave Listeners' Club, 1025 N. 9th St., Phoenix, Ariz. John Binder, Pres. \$1.00 per year.

Quixote Radio Club, Box 772, Santa Barbara, Calif. E. J. Shields, "Chots." Active members \$1.00 for twenty weeks; inactive members, \$1.00 for ten weeks.

Radio Club de Cuba, Lealtad 136, Havana, Cuba.

Radio Club Venezolano, Torre a Madrices No. 8 (altos), Caracas, Venezuela.

R9 Listeners' League, 7417—87th Ave., Woodhaven, N. Y. Alfred G. King, Pres.

Universal DX Club, 345 Maple Ave., Oradell, N. J. Alfred J. Stansfield, Pres. \$1.00 per year.

Universal Radio DX Club, 2018 Green St., San Francisco, Calif. Charles C. Norton, Pres. \$1.00 per year.

Any radio clubs which have been overlooked in this list will be included in our next listing if their secretaries will write us, giving full particulars about their organizations.

Al Jolson is back on the CBS with an enlarged musical variety program. It is heard every Tuesday night as in the past, from 8:30 to 9 pm EST.

In addition to Martha Raye, Parkyakarkus, and the large orchestra conducted by Victor Young, the program this fall boasts the appearance every other week of a prominent guest star from the entertainment world.

Add to the Radio Club Roster the Jackson Short Wave League, 616 Fourth St., Jackson, Mich.

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.	6.020	DJC	Berlin, Germany. (50.). 1135-1630.	
2.500	XEXP		XEUW	Veracruz, Ver. (.02). 1800-2400.	
3.500 to 4.000	Amateur Stations.	6.025	HJ1ABJ	Santa Marta, Colombia. (.05). 1800-2230.	
3.040	YDA		HJ4ABP	Medellin, Colombia. (2.5). 1800-2300.	
4.273	RV15		HP5B	Panama City, Panama. (.1). 1700-2200.	
4.600	HC2ET		OLR2B	Prague, Czecho. (35.).	
	Guayaquil, Ecuador. Wed., Sat., 2100-2230.		VE9BJ	St. John, N. B. (.05).	
4.795	VE9BK		XEBQ	Mazatlan, Sln. (.05).	
4.810	YDE2		6.035	CXA2	Montevideo, Uruguay. (.5).
	Solo, Java, N.E.I. (.1).		6.040	PRA8	Pernambuco, Brazil. (3.). 1500-2000.
4.850	HJ3ABD		W1XAL	Boston, Mass. (10.). Mon., 1800-2000.	
5.415	PMY		W4XB	Miami, Fla. (5.).	
	Bandoeng, Java, N.E.I. (.45). 0530-1000.		YDA	Tandjong Priok, Java, N.E.I. (10.).	
5.500	T15HH		6.042	HJ1ABG	Barranquilla, Colombia. (.15). 1100-2300.
	San Ramon, Costa Rica. (.2). 2000-2330.		6.050	GSA	Daventry, Gt. Britain. (20.).
5.710	TG5		6.060	VQ71 O	Nairobi, Kenya. 1100-2430.
	Guatemala City, Guat. (.2). Wed., Thurs., Sat., 1800-2100.		W3XAU	Philadelphia, Pa. (10.). 2000-2300.	
	YV2RA		W8XAL	Cincinnati, Ohio. (10.). 0500-1900; 2300-0100.	
5.720	RV15		6.062	SBG	Motala, Sweden. (.5). 1330-1700.
	Khbarovsk, USSR (Siberia). (20.). 0100-1000.		6.070	CFRX	Toronto, Ont. (1.). 1000-2300.
5.725	HC1PM			HJ3ABF	Bogota, Colombia. (.05). 1900-2230.
5.758	YNOP		6.070	YV1RD	Maracaibo, Venez. 1900-2400.
5.780	OAX4D		6.075	VP3MR	Georgetown, Brt. Guiana. 1700-2100.
	Lima, Peru. (3.5). Mon., Wed., Sat., 2100-2330.			XEBW	Guadalajara, Jal. (.045).
5.800	YV5RC		6.080	DJM	Berlin, Germany. (50.).
	Caracas, Venez. (1.). Sun., 0830-2330. Weekdays 0700-2130.			HP5F	Colon, Panama.
5.820	TIGPH			OAX4X	Lima, Peru. (15). 1930-2230.
	San Jose, Costa Rica. 1100-1300; 1800-2200.			VE9CS	Vancouver, B. C. (.01). 1400-2400.
5.850	YV1RB			W9XAA	Chicago, Ill. (20.). 1800-2400.
	Maracaibo, Venez. Sun., 1145-1245. Weekdays 0845-0945; 1115-1215; 1645-2145.		6.085	HJ5ABD	Calli, Colombia. 1900-2200.
5.855	H11J		6.090	CRXC	Toronto, Ont. (1.). 1100-1900.
	San Pedro de Macoris, D. R. (.04). 1200-1400; 1830-2100.			HJ4ABC	Ibague, Colombia. 2000-2200.
5.875	HRN			XECU	Guadalajara, Jal.
	Tegucigalpa, Honduras. (4). Sun., 2030-2130. Weekdays 2030-2200.		6.097	HJ4ABE	Medellin, Colombia. (1.). 1800-2230.
5.880	YV3RB		6.100	W3XAL	Bound Brook, N. J. (35.). 2115-0100.
5.885	H19B			W9XF	Chicago, Ill. (10.). 2200-0100.
5.905	T1LS			.....	Belgrade, Jugoslavia. (1.). 1200-1700.
5.910	HH2S		6.108	HJ4ABB	Manizales, Colombia. 1800-2400.
	Port-au-Prince, Haiti. 1900-2200.		6.110	GSL	London, Gt. Britain. (20.).
5.930	PJCI		6.115	HJ1ABB	Barranquilla, Colombia. (.3).
	Willemstad, Curacao, N.W.I. (.15). 1835-2035.			OLR2C	Prague, Czecho. (35.).
	YV1RL		6.118	XEUZ	Mexico City, D. F. (5.). 2300-0300.
	Maracaibo, Venez. (.3). 1700-2230.		6.120	W2XE	New York, N. Y. (10.).
5.940	TG2X			XEFT	Veracruz, Ver. (.012).
	Guatemala City, Guat. (.2). Sun., 1300-1400; Mon., Thurs., Sat., 1600-1800; 2200-2400.			XEPW	Mexico City, D. F. 2100-2400.
5.970	HJ4ABD		6.122	HJ3ABX	Bogota, Colombia. 1730-2230.
	Medellin, Colombia. 2000-2230.			OAX4P	Huancayo, Peru. (.25).
5.980	HJ2ABD			OAX6A	Arequipa, Peru. (1.).
	Bucaramanga, Colombia. (.67). 1900-2300.		6.125	CXA4	Montevideo, Uruguay. (1.). 1600-2145.
6.000	OAX5C		6.128	OAX7A	Cuzco, Peru. (1.).
	Ica, Peru. (.1).		6.130	COCD	Havana, Cuba. (.35). 1700-0100.
	XEBT			VE9HX	Halifax, N. S. (.5). 1700-2300.
6.005	CFCX		6.137	CR7AA	Laurence Marsques, Port. East Africa. Sun. 0600-0900. Weekdays 0500-0700.
	Montreal, P. Q. (.075). 0700-2400.				
	HP5K				
	Colon, Panama. 1800-2300.				
	VE9DN				
	Montreal, P. Q. (6.).				
6.010	COCO				
	Havana, Cuba. (.3). Sun. 2000-2200. Weekdays 1030-1300; 1600-2000.				
	OLR2A				
	Prague, Czechoslovakia. (35.). Mon., Wed., Fri., 1600-1630.				
6.012	HJ3ABH				
	Bogota, Colombia. (1.2). 1800-2300.				
6.015	H13U				
	Santiago de los Caballeros, D. R. (.025). Mon. 2000-2100. Daily 0730-0930; 1200-1430; 1700-1930.				

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

6.138	HJ4ABD	Medellin, Colombia.	7.100	F08AA	Papeete, Tahiti. (.2). Tues., Fri., 2300-2400.
6.140	W8XK	Pittsburgh, Pa. (40.). 2000-2400.	7.200	YNAM	Managua, Nicaragua. 2000-2400.
6.145	HJ4ABU	Perelra, Colombia. 1800-2200.	7.380	YXCR	Mexico City, D. F. (20.). Sun., 1800-2000.
6.150	CB615	Santiago, Chile.	.....		Radio Liberte. 1900-2000.
	CJRO	Winnipeg, Man. (2.). 1800-2400.	7.797	HBP	Geneva, Switz. (20.). Sat., 1730-1830.
	HI5N	Ciudad Moca, D. R. (.1). 1900-2000.	8.400	HC2CW	Guayaquil, Ecuador.
6.158	YV5RD	Colombo, Ceylon. (.3). 0700-1030.	8.650	YN1PR	Managua, Nicaragua.
		Caracas, Venez. 1030-1330; 1530-2200.	8.664	COJK	Camaguey, Cuba. (2.4). 1800-0100.
6.174	XEXA	Mexico City, D. F. 1700-2100.	8.950	HCJB	Quito, Ecuador. (.15). Mon., Wed., Sat., 0200-0400; 1300-1500.
6.190	HI1A	Santiago de los Caballeros, D. R. (.05). Weekdays 2000-2200.	9.030	COBZ	Havana, Cuba.
6.200	COKG	Santiago, Cuba. (.05). Daily exc. Sat. 0900-2300.	9.125	HAT4	Budapest, Hungary. (20.). Sun., Wed., 1900-2000. Sat., 1800-1900.
	HI8Q	Trujillo, D. R. 1700-1900.	9.330	OAX4J	Lima, Peru. (.2). 1200-1500; 1700-0100.
6.210	YV1RI	Coro, Venez. (.15). 1700-2200.	9.345	HBL	Geneva, Switz. (20.).
6.215	TG2	Guatemala City, Guat.	9.350	H58PJ	Bangkok, Siam. Mon., 0730-1000.
6.230	OAX4G	Lima, Peru. (.4). 1900-2130.	9.363	COBC	Havana, Cuba.
	YV1RG	Valera, Venez. 1730-1930.	9.415	PJC2	Willemstad, Curacao, N.W.I.
6.235	HC2RL	Guayaquil, Ecuador.		PLV	Bandoeng, Java, N.E.I. (80.). 1000-1100.
	HRD	La Ceiba, Honduras. (.25). 2000-2300.	9.428	COCH	Havana, Cuba. (.15). 0700-0100.
6.243	HIN	Trujillo, D. R. (.75).	9.445	HC2RA	Guayaquil, Ecuador. Sun. 1600-2200. Daily 2100-2200.
6.250	YV5RI	Caracas, Venez.	9.450	HC2ODA	Guayaquil, Ecuador. 2100-2200.
6.270	YV5RP	Caracas, Venez. (1.2).	TGWA	Guatemala City, Guat. (.2). Sun. 0000-0600. Daily 2000-2400.	
6.280	COHB	Sancti-Spiritus, Cuba. (.15). 2100-2300.	.....		Fort de France, Martinique. 1100-1200; 1700-1800.
	HIG	Trujillo, D. R. (.05).	9.460	XGOX	Nanking, China. (.5).
6.300	YV4RD	Maracay, Venez. 1700-2300.	9.470	PJC1	Willemstad, Curacao, N.W.I. (.15). Sun. 1035-1235.
6.312	ZP14	Villarrica, Paraguay (1.). 1100-1700.	9.480	EAR	Madrid, Spain. (20.). Mon. at 2000; Tues., Fri. at 2100.
6.315	HIZ	Trujillo, D. R. (.1).	9.500	XEDQ	Guadalajara, Jal. 1900-0100.
6.330	COCW	Havana, Cuba. 0700-2400.	EAC	Madrid, Spain.	
6.340	HI1X	Trujillo, D. R. (.5). Tues., Fri., 2000-2200.	HJ1ABE	Cartagena, Colombia. 1700-1800; 2000-2230.	
	OAX1A	Chiclayo, Peru. (.2). 2000-2300. Sat. 2000-2400.	VK3ME	Melbourne, Australia. (5.). Daily exc. Sun. 0400-0700.	
6.350	HRP1	San Pedro Sula, Honduras.	XEWW	Mexico City, D. F. (10.). 0800-2400.	
6.360	YV1RH	Maracaibo, Venez. 1900-2400.	9.501	PRF5	Rio de Janeiro, Brazil. (60.). 1645-1745.
6.380	YV5RF	Caracas, Venezuela.	9.504	OLR3B	Prague, Czecho. (35.).
6.400	YV5RH	Caracas, Venezuela.	9.505	CXA8	Montevideo, Uruguay.
6.410	TIPG	San Jose, Costa Rica. (1.). 1800-2230.		TILS	San Jose, Costa Rica.
6.416	YV6RC	Bolivar, Venez.		XEFT	Veracruz, Ver. (.02). 1930-2400.
6.420	HI1S	Santiago, D. R. (.02). 1800-2300.	9.510	GSB	Daventry, Gt. Britain. (20.). 0100-0320; 1215-1800; 2100-2300.
6.425	OAX4K	Lima, Peru. (.2).	HJU	Buenaventura, Colombia. Mon., Wed., Fri. 2000-2300.	
	W3XL	Bound Brook, N. J. (100.). Irrreg. (0.25).	9.520	HJ4ABH	Armenia, Colombia. (1.). 0800-1100; 1800-2200.
6.450	HI4V	San Francisco de Macoris, D. R. (.025).	XEME	Merida, Yuc. (.015).	
6.479	HI8A	Trujillo, D. R.	.....		Radio Liberte. 1900-2000.
6.500	HI1	Trujillo, D. R. (.05).	9.525	ZBW3	Hong Kong. (2.5). Sat. 2100-2400. Sun. 0800-0100; 0300-0930. Other days 0400-1000; 2330-0100.
	YV1RM	Maracaibo, Venez.	9.530	LKJ1	Jeloy, Norway. (1.). 0500-0800.
6.508		Radio Guardia Civil, Tetuan, Sp. Morocco. 1900-2000.	W2XAF	Schenectady, N. Y. (40.). 1600-2400.	
6.520	YV4RB	Valencia, Venezuela. 1700-2200.	9.535	JZI	Nazaki, Japan. (50.).
6.534	EDR4	Palma, Majorca, Balearic Isl.	9.536	VPD2	Suva, Fiji. (2.). 0530-0700.
6.540	YN1GG	Managua, Nicaragua.	9.540	DJN	Berlin, Germany. (50.). 0005-0515; 0555-1100; 1650-2245.
6.545	YV6RB	Bolivar, Venez. 2100-2300.	9.550	OLR3A	Prague, Czecho. (35.).
6.550	TIRCC	San Jose, Costa Rica. (.5). Tues., Thurs., Sat. 1700-1800.	9.560	DJA	Berlin, Germany. (50.). 0005-0515; 0555-1100; 1650-2245.
6.555	HI4D	Trujillo, D. R. (.025). 1700-2000.	HJ1ABB	Barranquilla, Colombia. (.3).	
6.620	Prado	Riobamba, Ecuador. Thur. 2100-2300.	9.562	OAX4T	Lima, Peru. (10.).
6.630	HIT	Trujillo, D. R. (.2). Weekdays, 1800-2100.	9.565	VUB	Bombay, India. (4.5).
6.690	TIEP	San Jose, Costa Rica. 1600-2300.	YV3RB	Barquisimeto, Venez.	
6.700	TIVL	San Jose, Costa Rica.	9.570	W1XK	Boston, Mass. (10.). 0630-2400.
6.730	HI3C	La Romana, D. R. 1745-2000.	W8XK	Pittsburgh, Pa. (40.). (Not used).	
6.775	HIH	San Pedro de Macoris, D. R. (.15). 1900-2000.			
6.800	HI7P	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.			
7.004	EASAH	Tetuan, Sp. Morocco. 1500-1700.			

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

9.575	HJ2ABC	Cucuta, Colombia. (25).	11.790	W1XAL	Boston, Mass. (10.). Sun. 1530-1800 Other days 1600-1730.
9.580	GSC	Davenport, Gt. Britain. (20.).	11.795	DJO	Berlin, Germany. (8.).
	VK3LR	Melbourne, Australia. (.5). 0100-0945.	11.796	OAX5A	Ica, Peru. (.1). 1200-1600; 1900-2330.
9.585	VK2ME	Sydney, Australia. (20.). Sun. 0000-8200; 0500-0900; 1130-1330.	11.800	COGF	Matanzas, Cuba. (1.). 0700-2400.
9.590	PCJ	Huizen, Netherlands. (20.). Sun. 1400-1500. Mon. 1900-2000. Tues. 1330-1500. Thurs. 1900-2200. Weekdays 0600-0800.	11.800	IZGJ	Nazaki, Japan. (50.). 1500-1600; 1630-1730; 0800-0900.
	VK6ME	Perth, Australia. (5.). Weekdays 0600-0800.		OER2	Vienna, Austria. (1.5). Weekdays 0900-1800.
	W3XAU	Philadelphia, Pa. (10.). 1200-2000.	11.805	.....	Copenhagen, Denmark. 1830-2100.
	W8XAL	Cincinnati, Ohio. (10.). (Under construction).	11.810	I2RO	Rome, Italy. (25.). Sun. 0645-1730. Mon., Wed., Fri. 0645-1930. Tues., Thurs., Sat. 0645-1945.
9.595	HBL	Geneva, Switzerland. (18.). Sat. 1730-1830.	11.820	GSN	Davenport, Gt. Britain.
	RAN	Moscow, USSR. 1900-2115.		XEBR	Hermosillo, Son. (15). 2100-2400.
9.600	CB960	Santiago, Chile. 1800-1930.	11.830	KZRM	Manila, P. I.
	XEYU	Mexico City, D. F. 1900-2200.		W2XE	New York, N. Y. (10.). Daily 1830-1900. Sun. 1900-2400.
9.605	HP5J	Panama City, Panama. (1.). 1830-2300.		W8XAA	Chicago, Ill. (20.).
9.610	YDB	Soerabaja I, Java, N.E.I. (1.).	11.840	CSW	Lisbon, Portugal. (5.).
9.618	HJ1ABP	Cartagena, Colombia. (.75). 1700-2300.		OLR4A	Prague, Czech. (35.). Mon., Thurs., 1900-2100. Daily 1430-1630.
9.635	I2RO	Rome, Italy. (25.).	11.855	DJP	Berlin, Germany. (50.).
9.645	HH3W	Port-au-Prince, Haiti. (.03). 1300-1400; 1900-2000.	11.860	GSE	Davenport, Gt. Britain. (20.).
9.650	CT1AA	Lisbon, Portugal. (2.). Tues., Thurs., Sat., 1600-1900.	11.870	W8XK	Soerabaja I, Java, N.E.I. (1.).
9.660	CR6AA	Lobito, Angola, Port. West Africa. (.5). Wed., Sat., 1445-1645.	11.875	OLR4C	Pittsburgh, Pa. (40.). 1700-2000.
	LRX	Buenos Aires, Argentina. (5.). 1030-2430.	11.880	XEXA	Mexico City, D. F. (1.).
9.670	T14NRH	Heredia, Costa Rica. 2100-2200; 2330-2400.	11.885	TPA3	Pontoise, France. 0200-0500; 1215-1800.
9.750	COCQ	Havana, Cuba. 0700-0100.	11.895	HP5I	Agudulco, Panama. 1930-2130.
9.860	EAQ	Madrid, Spain. (20.).	11.900	OLR4D	Prague, Czech. (35.).
9.925	JDY	Darien, Manchukuo.	11.955	XEWI	Mexico City, D. F. (.25). 1930-2400.
9.940	CSW	Lisbon, Portugal. (5.). 1900-2000.	11.970	IUC	Addis Ababa, Ethiopia.
10.065	CQN	Macau, Portuguese China.	12.000	HI2X	Trujillo, D. R. (.5). Tues., Fri., 2000-2200.
10.070	.....	Communistic Station.		RNE	Moscow, USSR. (20.). Sun. 1000-1100. Sun., Wed., 0600-0700. Sun., Mon., Wed., Fri., 1600-1700.
10.260	PMN	Bandoeng, Java, N.E.I. (1.5). 0530-1100.	12.120	.....	Algiers, Algeria.
10.330	ORK	Brussels, Belgium. (11.). 1330-1500.	12.235	TFJ	Reykjavik, Iceland. (7.5). Sun., 1345-1430.
10.370	EAJ43	Santa Cruz de Tenerife, Canary Isl. Sat. 1700-1800.	12.290	GBU	Rugby, Gt. Britain.
10.430	.....	Pirate station announcing "Radio Milan."	12.295	CB615	Santiago, Chile.
10.660	JVN	Nazaki, Japan. (50.).	12.500	HIN	Trujillo, D. R. (.75).
10.670	CEC	Santiago, Chile. (4.).	13.635	SPW	Warsaw, Poland. (10.). Mon., Wed., Fri., 1230-1330.
10.740	JVM	Nazaki, Japan. (50.).	13.986	DJS	Berlin, Germany. (20.).
10.823	"Radio Nacional,"	Salamanca, Spain. 1630-1800.	14.000	to 14.400	Amateur Stations.
10.955	HS8PJ	Bangkok, Siam. (5.).	14.358	HBJ	Geneva, Switz. Sat. 1845-2100.
11.000	PLP	Bandoeng, Java, N.E.I. (1.5).	14.900	LZA	Sofia, Bulgaria.
11.040	CSW	Lisbon, Portugal. (5.). 1500-1900.	15.040	RKI	Moscow, USSR. 1900-2115.
11.402	HBO	Geneva, Switz.	15.110	DJL	Berlin, Germany. (50.). 0000-0200; 0800-0900; 1135-1630. Sun., 0600-0800.
11.450	COCX	Havana, Cuba. Sun. 1800-2100. Other days 0800-2400.	15.116	OLR5C	Prague, Czech. (35.).
11.698	SBG	Motala, Sweden. (.5). 0100-0130.	15.120	HVJ	Vatican City. (10.). 1000-1030.
11.700	HP5A	Panama City, Pan. 2000-2330.	15.140	G5F	Davenport, Gt. Britain. (15.). 1030-1200; 1600-1800; 1820-2030.
11.710	XEWB	Guadalajara, Jal. San Salvador, E. S.	15.150	YDC	Bandoeng, Java, N.E.I. (3.).
	YSE	San Salvador, E. S.	15.160	JZK	Nazaki, Japan. (50.). 0030-0130; 0800-0900; 1500-1600; 1630-1730.
11.718	CR7BH	Lourence Marques, Port. East Africa. (.2). Sun. 0530-0700. Other days 0430-0630.		XEWW	Mexico City, D. F. (10.).
11.720	CJRX	Winnipeg, Man. (2.). 1800-2400.	15.170	CXA14	Montevideo, Uruguay.
	TPA4	Pontoise, France. 0615-1300.	15.175	RS6	Moscow, USSR.
11.730	PHI	Hilversum, Netherlands. (23.6).	15.180	GVO	Davenport, Gt. Britain. 0100-0320; 1600-1800; 1820-2030.
	XETM	Villahermosa, Tab. (35.).	15.200	DJB	Berlin, Germany. (8.). Sun. 1110-1225. Daily 0005-0515; 0555-1100; 1650-2245.
11.740	HP5L	David, Panama. (.35).	15.210	W8XK	Pittsburgh, Pa. (40.). 0700-1700.
11.750	GSD	Davenport, Gt. Britain. (20.). 0100-0320; 1215-1600; 1820-2030; 2100-2300.	15.220	PCJ	Huizen, Netherlands. (20.). Tues. 0430-0600. Wed. 0800-1100.
11.760	OLR4B	Prague, Czech. (35.).	15.230	OLR5A	Prague, Czech. (35.). 0936-1130.
11.770	DJD	Berlin, Germany. (50.). 1135-1630; 1650-2245.	15.243	TPA2	Pontoise, France. 0600-1100.
			15.250	W1XAL	Boston, Mass. (10.). 1500-1600.
			15.260	G5I	Davenport, Gt. Britain. 1215-1600; 2100-2300.

15.270	H13X W2XE	Trujillo, D. R. (.5). Sun., 0800-1100. New York, N. Y. (10.). Daily 1500-1800. Sun. 1300-1600; 1700-1800.
15.280	DJQ	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-0515; 0600-0800; 0815-1100; 1650-2245.
12.290	LRU	Buenos Aires, Arg. (5.). 0800-1000.
15.300	XEBM	Mazatlan, Sin. 1000-2300.
15.310	GSP	Daventry, Gt. Britain. 1820-2030.
15.320	OLRSB	Prague, Czecho. (35.).
15.330	W2XAD	Schenectady, N. Y. (25.). 1000-2000.
15.340	DJR	Berlin, Germany. (50.). 0800-0900; 1650-2245.
15.370	HAS3	Budapest, Hungary. (20.). Sun. 0900-1000.
15.440	XEBM	Mazatlan, Sin. (.05). 1000-2300.
15.555	CO9WX	Tuinicu, Cuba. (2.).
17.310	W3XL	Bound Brook, N. J. (20.).
17.760	DJE	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-0515; 0555-1100.
	W2XE	New York, N. Y. (10.).
17.770	PHI	Hilversum, Netherlands. (23.6). Sun., 0725-1025. Mon., Tues., Thurs., Fri., 0825-1000. Sat., 0825-1040.
17.780	W3XAL	Bound Brook, N. J. (35.). Sun., 0900-1200; 1215-1845; 1900-2100. Weekdays 0900-1845; 1900-2100.
	W8XK	Pittsburgh, Pa. (40.).
	W9XAA	Chicago, Ill. (5.).
	W9XF	Chicago, Ill. (10.).
17.790	GSG	Daventry, Gt. Britain. (15.). 0100-0320; 0545-0855; 0915-1200; 1215-1800; 2100-2300.
19.020	H58PJ	Bangkok, Siam.
21.450	OLR6A	Prague, Czecho. (35.).
21.460	W1XAL	Boston, Mass. (10.).
21.470	GSH	Daventry, Gt. Britain. 0545-0855; 0915-1200.
21.480	W2XAD	Schenectady, N. Y. (25.).
21.520	W2XE	New York, N. Y. (10.). Daily 0730-1030. Sun. 0800-1000.
	W3XAU	Philadelphia, Pa.
21.530	GSJ	Daventry, Gt. Britain. 0545-0855; 0915-1200.
21.540	W8XK	Pittsburgh, Pa. (40.). 0445-0700.
21.550	GST	Daventry, Gt. Britain.
26.100	GSK	Daventry, Gt. Britain.
28.000 to 30.000		Amateur Stations.

Time Conversion Table

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

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

For times throughout the entire world consult the RADEX Time Converter

W4XCA Memphis, W8XAI Rochester, W8XWJ Detroit, W9XPD St. Louis, a good R8 signal, W1XKA Boston, W8XKA Pittsburgh, W3XKA Philadelphia and W9XHW Minneapolis.

Seven and nine meter police stations have also been heard. On 9 meters W2XEM Newark and W9XEH Evansville, Ind. were picked up, Newark with an R6, QSA 4 rating. Huntington, W. Va., W8XAU, and Ft. Worth, Texas, W5XB, were heard on 7 meters.

When the ultra high frequency band was first opened up to experimental broadcasting it was believed that a large number of stations could operate simultaneously on the same frequency because theoretically these signals could be transmitted no farther than the horizon. It now appears, however, that the UHF band is the coming DX band, and stations sharing the same frequency will be obliged to share time to prevent interference.

U. H. F. in Australia

THE Australasian Radio World for July features an interesting article entitled "Trans-Pacific DX on Ten Meters," in which the author, Alan H. Graham outlines his experiences tuning the American ultra high frequency broadcasting stations. These stations, which claim only local coverage, are received with signals varying from R4 to R8 in Australia.

Among the stations which were heard, are W6XKG in Los Angeles, W9XAZ in Milwaukee, with an R4 signal, W2XDU New York City,

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KEY TO SYMBOLS

As shown in the Index by Frequencies and Dial Numbers

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

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

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.
KFBU	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.
WRGR	ak	1000	C (5)	Buffalo, N. Y.
WKRC	ak	1000	C (5)	Cincinnati, Ohio
WSVA	ak	500	D	Harrisburg, Va.
XEFC	ak	100	....	Merida, Yuc.

- James S. Neill & Sons.
- Evangelical Luth. Synod.
- Meyer Brdctg. Co.
- State Agricultural Co.
- 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	CXY	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)

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

- Outran Cia., los Presidentes 215.
- 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)

CPFR	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 kcys. (508.2)

KHO 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 kcys. (499.7)

CFCF ak 400 FN Montreal, P. O. —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 kcys. (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 kcys. (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 kcys. (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.
 CMBC z Havana, Cuba "El Progreso Cubano," Aptdo 132.
 KFRU ak 500 I (1) Columbia, Mo. —KFRU, Inc.
 KGFY ak 200 D Pierre, S. Dak. —Mrs. Ida A. McNell
 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 kcys. (468.5)

CMCB ak 150 Havana, Cuba —El Progreso Cubana
 KFI ak 5000 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 Ortega

650 kcys. (461.3)

WSM ak 50000 MN Nashville, Tenn. —Nat'l. Life & Accident

660 kcys. (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 kcys. (447.5)

WMAQ ak 50000 R Chicago, Ill. —NBC, Inc.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

680 kcys. (440.9)

CMGG ak 1000	D	Havana, Cuba	-La Onda, S. A.
KFEQ ak 2500	D	St. Joseph, Mo.	-KFEQ, Inc.
KFO ak 5000	R	San Francisco, Cal.	-NBC, Inc.
VAS akn 2000	685	Glance Bay, N. S.	-Can. Marconi Co., Inc.
VOWR ck 500	681	St. John's, Nfld.	-Wesley United Church
WLAW z 1000	DP	Lawrence, Mass.	-Hildreth & Rogers Co.
WPTF ak 1000	N (5)	Raleigh, N. C.	-WPTF Radio Co.

690 kcys. (434.5)

CFRB ak 10000	C	Toronto, Ont.	-Rogers Radio Brdcastg. 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.

710 kcys. (422.3)

KIRO ak 1000		Seattle, Wash.	-Queen City Brdcastg. Co.
KMPC ak 500		Beverly Hills, Calif.	-B. Hills Brdcastg. Corp.
WOR ak 50000	M	Newark, N. J.	-Bamberger Brdcastg. 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 Brdcastg. Co.
CKAC 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	-Cla. Nacional de Radio
XEPN ak 100000		Piedras Negras, Coah.	-P. N. Brdcastg. 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 Brdcastg. 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 Brdcastg. 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 Brdcastg. Co.
WBMM ak 50000	CSy	Chicago, Ill.	-Columbia Brdcastg. Sys.

780 kcys. (384.4)

CHWK dk 100	F	Chilliwack, B. C.	-Chil. Brdcastg. 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
KFOD	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	1000	N	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
WCCO	ak	50000	C	Minneapolis, Minn.	—Columbia Brdcastg. Sys.
WNYC	ak	1000	D	New York, N. Y.	—City of N. Y.
XEDF	z	75	....	Nuevo Laredo, Tams.	—Sr. Ruperto Villarreal.
XEXC	z	350	....	Aguascalientes, Ags.	—Gobierno del E. de Ags.

820 kcys. (365.6)

CMHW	ak	100	....	Cienfuegos, 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.
WEEU	ak	1000	D	Reading, Pa.	—Berks Brdcastg. Co.
WHDH	ak	1000	Dn	Boston, Mass.	—Matheson 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)

CMCM	z	....	....	Havana, Cuba	—"Radio Columbia," 23 No. 482, Vedado.
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 kcys. (340.7)

CFJC	ak	100	F	Kamloops, B. C.	—Review Pub. Co.
CMQ	ak	2500	X	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
WCOC	ak	500	CX (1)	Meridian, Miss.	—Miss. Brdcastg. Co., Inc.
WGBI	ak	500	CI (1)	Scranton, Pa.	—Scranton Brdcasters, Inc.
WQAN	ak	500	1 (1)	Scranton, Pa.	—Scranton Times, 149 Penn Ave.
WRNL	ak	500	D	Richmond, Va.	—WLBG, Inc.
WSUI	ak	500	(1)	Iowa City, Iowa	—State Univ. of Iowa.

890 kcys. (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 kcys. (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 kcys. (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 kcys. (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.
WAAF	ak	1000	D	Chicago, Ill.	—Drovers Journal Pub. Co.
WORL	ak	500	D	Boston, Mass.	—Brdcastg. Serv. Org., Inc.
WPEN	ak	1000	I	Philadelphia, Pa.	—Wm. Penn Brdcastg. Co.
WRAX	ak	1000	I	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 kcys. (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	Hallfax, 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 Brdcast. Corp.
WBRC	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 Brdcastg. 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.
WHA	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
KEYO	z	500	....	Mexico City, D. F.	—Partido Nac. Revolucionaria

950 kcys. (315.6)

CJOC	ak	100	F	Lethbridge, Alta.	—Lethbridge Brdcastg. Co.
CMCD	ak	250	....	Havana, Cuba	—"La Voz del Aire," S. A.
CRCS	ak	100	F	Chicoutimi, P. O.	—Can. Brdcastg. Corp.
KFWB	ak	1000	(5)	Hollywood, Calif.	—Warner Bros. Brdcastg. Corp.
KMBC	ak	1000	C (5)	Kansas City, Mo.	—Midland Brdcastg. 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 Brdcastg. Co.
CHNC	ak	1000	F	New Carlisle, P. O.	—Gaspesian Radio Co.
XEAW	c	50000	....	Reynosa, Tams.	—Cia. Int. Difusora Reynosa

970 kcys. (309.1)

CMBY	z	150	....	Havana, Cuba	—Calle Infanta 132
CMGF	ak	100	977	Matanzas, Cuba	—B. de la Torre, Gral Betancourt 51.
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	150	....	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 Brdcastg. Co.
VOCM	z	200	1006	St. John's, Nfld.	—St. John's Eve. Telegram
WHO	ak	50000	R	Des Moines, Iowa	—Central Brdcastg. Co.
XEBI	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	I	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 Brdcastg. Co.
CMJA	ak	300	....	Camaguey, Cuba	—Rafael Valdez
KGFJ	ak	1000	2	Coffeyville, Kans.	—Powell & Platz
KQW	ak	1000	M	New York, N. Y.	—Station KQW, 87 E. San Antonio St.
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 keys. (293.9)

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

1030 keys. (291.1)

CFCN ak 10000 Calgary, Alta. —Voice of the Prairies, Ltd.
 CKLW ak 5000 M Windsor, Ont. —West. Ont. Brdcastg. Co.
 CMXC z 150 Havana, Cuba —"La Onda Popular,"
 XEB ak 10000 Mexico City, D. F. —El Buen Tono, S. A.

1040 keys. (288.3)

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

1050 keys. (285.5)

CMKD ak 250 Santiago, Cuba —Radioemisora Oriental
 CRCK ak 1000 F Quebec, P. Q. —Can. Brdcastg. 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 Brdcastg. Co.
 WGVA z 1000 DP Indianapolis, Ind. —Glenn Van Auken

1060 keys. (282.8)

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

1070 keys. (280.2)

GMBX ak 500 Havana, Cuba —Alberto Alvarez
 GMHA z 50 Sagua la Grande, Cuba —Abelardo Menocal
 KJBS ak 500 San Francisco, Calif. —Jullus Brunton & Sons
 WGAZ ak 100 D Carthage, Ill. —Superior Broc. Serv., Inc.
 WTAM ak 50000 R Cleveland, Ohio —NBC, Inc.

1080 keys. (277.6)

WBT ak 50000 C Charlotte, N. C. —Columbia Brdcastg. Sys.
 WGBD ak 5000 Dnl Chicago, Ill. —WGBD, 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 keys. (275.1)

KMOX ak 50000 C St. Louis, Mo. —Columbia Brdcastg. Sys.

1100 keys. (272.6)

CMGJ ak 500 Havana, Cuba. —Radio Emisora Comercial
 CRGJ ak 5000 F Vancouver, B. C. —Can. Brdcastg. Corp.
 KGDH ak 1000 DM Stockton, Calif. —E. F. Pfeffer
 KWEH c 10000 C Shreveport, La. —Internat'l. Broc. Corp.
 WIII ak 5000 I New York, N. Y. —Arde Bulova
 WPG ak 5000 CI Atlantic City, N. J. —City of Atlantic City

1110 keys. (270.1)

KSOO ak 2500 BDn Sloat Falls, S. Dak. —S. F. Brdcastg. Ass'n.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WRVA	ak	5000	CM	Richmond, Va.	—Larus & Bros. Co.
XELO	ak	50000	....	Tijuana, B. Cfa.	—.....
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. Brcdstg. Co.
CKOC	ak	500	F (1)	Hamilton, Ont.	—Westworth Radio Brcdstg. Co.
CKX	ak	1000	F	Brandon, Man.	—Man. Telephone System, Rosser Ave.
CMKMA	ak	200	....	Manzanillo, Cuba	—Merchan P. Figeredo
KFIO	ak	100	D	Spokane, Wash.	—Spokane Brcdstg. 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 Brcdsters., Inc.
KRSC	ak	250	....	Seattle, Wash.	—Radio Sales Corp.
KTBC	z	1000	DP	Austin, Texas	—State Capitol Brcdstg. Assn.
WCOP	ak	500	D	Boston, Mass.	—Mass. Brcdstg. Corp.
WDEL	ak	250	R (.5)	Wilmington, Del.	—WDEL, Inc.
WISN	ak	250	C (1)	Milwaukee, Wis.	—Hearst Radio, Inc.
WJBO	ak	500	B	Baton Rouge, La.	—B. R. Brcdstg. Co., 334 Florida St.
WTAW	ak	500	....	College Sta., Tex.	—Agri. & Mechanical Col.
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) 					
CMBG	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 Brcdstg. 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. Encisco
XEDW	z	20	....	Minatitlan, Ver.	—Hector Silva Canto
1160 keys. (258.5) 					
CMHJ	ak	175	....	Cienfuegos, Cuba	—Romualdo Ugalde
CMKG	z	....	....	Santiago, Cuba	—.....
WOVO	ak	10000	B1	Fort Wayne, Ind.	—Westinghouse Radio Station
WVVA	ak	5000	C1	Wheeling, W. Va.	—W. Va. Brcdstg. 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) 					
GMBD	ak	500	....	Havana, Cuba	—Luiz Perez Garcia
WCAU	ak	50000	C	Philadelphia, Pa.	—WCAU Brcdstg. 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 Brcdstg. Co.
WDGY	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 Brcdstg. Co.
XEFA	z	500	....	Tacuba, D. F.	—Eduardo Limon Segui
1190 keys. (252.0) 					
CMKX	z	....	....	Santiago, Cuba	—.....
KTFC	z	250	DP	Visalia, Calif.	—Tulare-Kings Counties

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

VONF	ak	500	1195	St. John's, Nfld.	—Dominion Brdcastg. 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 Brdcastg. 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. Brdcastg. Ass'n.
KFJB	ak	100	(.25)	Marshalltown, Ia.	—Marshall Elec. Co., Inc.
KFXD	ak	100	(.25)	Nampa, Idaho	—Frank E. Hurt
KFXJ	ak	100	(.25)	Grand Junc., Colo.	—Western Slope Brdcastg. 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. Brdcastg. Co.
KGLV	z	100	DP	Greenville, Texas	—Hunt Brdcastg. Assn.
KMLB	ak	100	(.25)	Monroe, La.	—Liner's Brdcastg. 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 Brdcastg. Co.
KVEC	z	250	D	San Luis Obispo, Calif.	—Valley Elec. Co.
KVOS	dk	100	....	Bellingham, Wash.	—KVOS, Inc.
KWG	ak	100	N	Stockton, Calif.	—McClatchey Brdcastg. Co.
KWNO	z	100	DP	Winona, Minn.	—Winona Radio Service
WABI	ak	100	(.25)	Bangor, Maine	—Community Brdcastg. Serv.
WAIM	ak	100	C	Anderson, S. C.	—Wilton E. Hall
WAYX	ak	100	....	Waycross, Ga.	—Waycross Brdcastg. Co.
WBBZ	ak	100	M (.25)	Ponca City, Okla.	—Adelaide L. Carrell
WBFB	ak	100	....	Huntsville, Ala.	—Wilton Harvey Pollard
WBNO	ak	100	2	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, Vt.	—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 Brdcastrs., Inc.
WFAM	ak	100	4	South Bend, Ind.	—South Bend Tribune
WFTC	ak	100	(.25)	Kinston, N. C.	—Jonas Welland
WHBC	ak	100	(.25)	Canton, Ohio	—Edw. P. Graham
WHBY	ak	100	(.25)	Green Bay, Wis.	—WHBY, Inc.
WIBY	ak	100	C (.3)	Utica, N. Y.	—WIBX, Inc.
WIL	ak	100	(.25)	St. Louis, Mo.	—Mo. Brdcastg. Corp.
WJBC	ak	100	5 (.25)	Bloomington, Ill.	—Kaskaskia Brdcastg. Co.
WJBL	ak	100	5	Decatur, Ill.	—Commodore Brdcastg. Co.
WJBW	ak	100	2	New Orleans, La.	—Chas. C. Carlson, Godchaux Bldg.
WJNO	ak	100	C (.25)	W. Palm Beach, Fla.	—Hazelwood, Inc.
WJRD	c	100	DX	Tuscaloosa, Ala.	—James R. Doss, Jr.
WKBO	nk	100	3 (.25)	Harrisburg, Pa.	—Keystone Brdcastg. Corp.
WLVA	ak	100	(.25)	Lynchburg, Va.	—Lynchburg Brdcastg. 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.
WSAL	z	250	DP	Salisbury, Md.	—Frank M. Stearns.
WTHT	ak	100	M	Hartford, Conn.	—Hartford Times, Inc.
WTOL	z	100	DP	Toledo, Ohio	—Community Brdcastg. Co.
WWAE	ak	100	8	Hammond, Ind.	—Hammond-Calumet Brdcastg. Corp.

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 Brdcastg. 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 Brdcastg. Co.
KANS	ak	100	B	Alexandria, Kans.	—KANS Brdcastg. 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 Brdcastg. Co.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFJI	ak	100	....	Klamath Falls, Ore.	—KFJI Brdcasters, Inc.
KFOR	ak	100	CM(.25)	Lincoln, Nebr.	—Cornbelt Brdcast. Corp.
KFPW	ak	100	....	Fort Smith, Ark.	—Southwestern Hotel Co.
KFVS	ak	100	5 (.25)	Sape Girardeau, Mo.	—Hirsch Battery & Radio Co., Box 275.
KFXM	ak	100	M2	San Bernardino, Cal.	—Lee Bros. Brdc. Co., Calif. Hotel.
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 Brdcast. Corp.
KIUL	ak	100	....	Garden City, Kans.	—Garden City Brdcast. Co.
KLAH	ak	100	....	Carlsbad, N. Mex.	—Carlsbad Brdcast. Co.
KOCA	z	100	....	Kilgore, Texas	—Oil Capital Brdcastg. Ass'n.
KPFA	z	100	P (.25)	Helena, Mont.	—Peoples Forum of the Air
KPPC	ak	100	2	Pasadena, Calif.	—Pas. Presb. Church, 585 E. Colorado.
KPRO	ak	100	D	Sacramento, Calif.	—Royal Miller
KVSO	ak	100	M	Ardmore, Okla.	—Ardmoreite Pub. Co.
KWTN	ak	100	....	Watertown, S. Dak.	—Greater Kampska Radio Corp.
WALR	ak	100	....	Zanesville, Ohio	—WALR Brdcast. Corp.
WBAX	ak	100	....	Wilkes-Barre, Pa.	—John H. Stenger, Jr.
WBBL	ak	100	S	Richmond, Va.	—Grace Presb. Church
WBLY	ak	100	D	Lima, Ohio	—Herbert Lee Bly
WBRB	ak	100	3	Red Bank, N. J.	—Monmouth Brdcastg. Co.
WCOL	ak	100	N	Columbus, Ohio	—WCOL, Inc.
WCRW	ak	100	4	Chicago, Ill.	—Clinton R. White
WEOQ	ak	100	5 (.25)	Harrisburg, Ill.	—Harrisburg Brdcastg. Co., 100 E. Poplar.
WEDC	ak	100	4	Chicago, Ill.	—Emil Denmark
WFAS	ak	100	3	White Plains, N. Y.	—Westchester Brdcastg. Corp.
WFOY	z	100	....	St. Augustine, Fla.	—Fountain of Youth Properties
WGBB	z	100	3	Freeport, N. Y.	—Harry H. Carman
WGCN	ak	100	(.25)	Gulfport, Miss.	—WGCN, Inc.
WGNM	ak	100	3	Newburgh, N. Y.	—Peter Goelet
WHBF	ak	100	(.25)	Rock Island, Ill.	—R. I. Brdcastg. Co.
WHBU	ak	100	(.25)	Anderson, Ind.	—Anderson Brdcastg. Corp.
WIBU	ak	100	(.25)	Poynette, Wis.	—Wm. C. Forrest
WIBY	ak	100	....	Gadsden, Ala.	—Gadsden Brdcastg. Co.
WJBJ	ak	100	D	Hagerstown, Md.	—Hagerstown Brdcastg. Co.
WJIM	z	100	(.25)	Lansing, Mich.	—Harold G. Gross
WJTN	ak	100	B (.25)	Jamestown, N. Y.	—James Brdcastg. Co., Inc.
WJW	ak	100	(.25)	Akron, Ohio	—WJW, Inc.
WKOK	ak	100	....	Sunbury, Pa.	—Sunbury Brdcastg. Corp.
WLMU	z	100	P (.25)	Middlesboro, Ky.	—Lincoln Mem. University
WMFG	ak	100	(.25)	Hibbing, Minn.	—Head of the Lakes Brdcastg. 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	z	100	4 (.25)	Chicago, Ill.	—WSBC, Inc.
WSIX	ak	100	....	Nashville, Tenn.	—WSIX, Inc.
WSNJ	z	100	DP	Bridgeton, N. J.	—Eastern States Brdcastg. 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	P (5)	Lawrence, Kans.	—University of Kans.
KTMS	z	500	....	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.
WDAA	ak	1000	C (5)	Tampa, Fla.	—Tampa Times Co.
WREN	ak	1000	Ba(5)	Lawrence, Kans.	—WREN Brdcastg. 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 Brdcastg. Co.
KGGM	ak	1000	....	Albuquerque, N. M.	—N. Mex. Brdcastg. 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	Sydney, N. S.	—N. Nathanson
CMHB	z	50	.....	Sancti Spiritus, Cuba	—V. E. Weiss y Cia.
KGGU	ak	250	1	Mandan, N. Dak.	—Mandan Radio Ass'n.
KLPM	ak	250	1	Minot, N. Dak.	—John B. Cooley
KTAT	ak	1000	M	Fort Worth, Texas	—Tarrant Brdcastg. Co.
KTFI	ak	1000	.....	Twin Falls, Idaho	—Radio Brdcastg. Corp.
WKAO	ak	1000	.....	San Juan, P. R.	—Radio Corp. of P. R.
WXYZ	ak	1000	B	Detroit, Mich.	—King-Trendle Brdcastg. Corp.
XEAY	z	100	.....	Mexico City, D. F.	—Fernando Magallanes
XEKL	z	500	.....	Leon, Guan.	—Cia. Radio del Bajio
XELA	z	50	.....	Saltillo, Coah.	—Enrique Gomez

1250 kcys. (239.9)

CMCK	ak	150	.....	Santiago, Cuba	—J. A. Saco
KFOK	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 Brdcastg. 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. Brdcastg. Corp.
XEXH	z	250	.....	San Luis Pot., S.L.P.	—Ayuntamiento S.L.P.

1260 kcys. (238.0)

CMG	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 Brdcastg. Co.
KOIL	ak	1000	BM(2.5)	Omaha, Nebr.	—Central States Brdcastg. 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. Brdcastg. Co., Inc.
WHIO	ak	1000	C (5)	Dayton, Ohio	—Dayton Daily News
WNBX	ak	1000	M	Springfield, Vt.	—WNBX Brdcastg. Corp., 39 Main St.
WTOC	ak	1000	C	Savannah, Ga.	—Savannah Brdcastg. 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 Brdcastg. Co.
KVOR	ak	1000	C	Colo. Springs, Colo.	—Out West Brdcastg. Co.
KWLC	ak	100	2D	Decorah, Iowa	—Luther College
WASH	ak	500	DaN	Grd. Rpd., Mich.	—King-Trendle Brdcastg. 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	Na	Gd. Rapids, Mich.	—King-Trendle Brdcastg. 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 (5)	Great Falls, Mont.	—Buttrely Brdcastg. Co., Box 187
KLS	ak	250	.....	Oakland, Calif.	—Warner Bros.
WCAM	ak	500	1	Camden, N. J.	—City of Camden
WCAP	ak	500	1	Asbury Park, N. J.	—Radio Industries Brdcastg. Co.
WDOD	ak	1000	C (5)	Chattanooga, Tenn.	—WDOD Brdcastg. Corp.
WIBA	ak	1000	N (5)	Madison, Wis.	—Badger Brdcastg. 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 Brdcastg. Corp.
------	----	------	----	---------------------	--------------------------------

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KLON	ak	100	D	Blytheville, Ark.	—C. L. Lintzenich
KTRH	ak	1000	C (5)	Houston, Texas	—KTRH Brdcastg. Co.
WIBC	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 kcys. (230.6)

KALE	ak	500	C	Portland, Ore.	—KALE, Inc.
KFAC	ak	1000	C	Los Angeles, Calif.	—L. A. Brdcastg. Co., Inc.
KFH	ak	1000	C (5)	Wichita, Kans.	—Station KFH
WBBR	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 kcys. (228.9)

CHCK	ak	50	...	Charlottetown, P.E.I.	—Burke & Gesner.
CJKL	ak	100	F	Kirkland Lake, Ont.	—Northern Brdcastg. Co.
CJLS	ak	100	F	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.
KARM	z	100	P	Fresno, Calif.	—George Harm.
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
KFYO	ak	100	(25)	Lubbock, Texas	—Plains Radio Brdcastg. Co.
KGEZ	ak	100	...	Kalispell, Mont.	—Donald C. Treloar
KGFW	ak	100	...	Kearney, 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. Hoiles
KRBA	z	100	DP	Lufkin, Texas	—Red Lands Brdcastg. Assn.
KRMD	ak	100	(25)	Shreveport, La.	—KRMD, Inc.
KROC	ak	100	(25)	Rochester, Minn.	—So. Minn. Brdcastg. Co., Martin Hotel.
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
WBRK	z	100	P (25)	Pittsfield, Mass.	—Harold Thomas.
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.
WFFD	ak	100	...	Flint, Mich.	—Flint Brdcastg. Co.
WGH	ak	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.
WMFP	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.
WRAW	ak	100	...	Reading, Pa.	—Reading Brdcastg. Co.
WROL	ak	100	B (25)	Knoxville, Tenn.	—Stuart Brdcastg. Corp.
WSAJ	ak	100	...	Grove City, Pa.	—Grove City College

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WWSN	ak	100	B (.25)	Birmingham, Ala.	—Birmingham News Co.
WSJS	ak	100	C	Winston-Salem, N. C.	—Piedmont Pub. Co., 416 N. Marshall.
WTAL	ak	100	....	Tallahassee, Fla.	—Fla. Capital Brcdsters, Inc.
WTFL	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
XECW	ak	10	....	Mexico City, D. F.	—Ma. Elena Bravo de Cordero
XEFW	ak	250	....	Tampico, Tams.	—Jose Expedito Martinez
XETB	ak	125	....	Torreon, Coah.	—P. O. Box 225
XEX	ak	125	....	Monterrey, N. L.	—L. F. Petit Jean.

1320 kcys. (227.1)

CMOX	ak	200	....	Havana, Cuba	—.....
KGHF	am	500	B	Pueblo, Colo.	—Curtis P. Ritchie
KGMB	ak	1000	C M	Honolulu, Hawaii	—Honolulu Brcdstg. Co.
KID	ak	500	(1)	Idaho Falls, Idaho	—KID Brcdstg. Co.
KRNT	ak	1000	C (5)	Des Moines, Iowa	—Iowa Brcdstg. Co.
WADC	ak	1000	C	Akron, Ohio	—Allen T. Simmons
WORK	ak	1000	B	York, Pa.	—York Brcdstg. 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 Brcdstg. Sys.
KMO	ak	1000	....	Tacoma, Wash.	—KMO, Inc.
KRIS	z	500	B	Corpus Christi, Tex.	—Gulf Coast Brcdstg. Co.
KSCJ	ak	1000	C (5)	Sioux City, Iowa	—Sioux City Journal
WDRC	ak	1000	C (5)	Hartford, Conn.	—WDRC, 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
KDTH	z	500	DP	Dubuque, Iowa	—Telegraph Herald.
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 Brcdstg. Co.
WCOA	ak	500	CX	Pensacola, Fla.	—Pensacola Brcdstg. Co.
WFEA	ak	500	BM(1)	Manchester, N. H.	—N. H. Brcdstg. Co.
WSPD	ak	1000	B (5)	Toledo, Ohio	—The Fort Industry Co.
XEXD	z	350	....	Jalapa, Ver.	—Gobierno del E. de Ver.

1350 kcys. (222.1)

CMCA	ak	450	....	Havana, Cuba	—Testar y Gonzales
CMKW	z	....	....	Santiago, Cuba	—Reparto Vista Alegre
KIDO	ak	1000	B (2.5)	Boise, Idaho	—Boise Brcdstg. 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 Brcdstg. Co.
WMBG	ak	500	R	Richmond, Va.	—Havens & Martin, 914 W. Broad St.

1360 kcys. (220.4)

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

1370 kcys. (218.8)

CKCW	ak	100	F	Moncton, N. B.	—Moncton Brcdstg. Co.
CMGE	ak	150	....	Cardenas, Cuba	—Genaro Sebatier
KAST	ak	100	D	Astoria, Ore.	—Astoria Brcdstg. Co.
KCMO	ak	100	....	Kansas City, Mo.	—KCMO Brcdstg. Co.
KEEN	ak	100	3	Seattle, Wash.	—KVL, Inc., 2101 Smith Tower
KELD	z	100	....	El Dorado, Ark.	—Radio Enterprises, Inc.
KERN	ak	100	B	Bakersfield, Calif.	—McClatchey Brcdstg. Co.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFGQ	ak	100	D	Boone, Iowa	—Boone Biblical College
KFJZ	ak	100	(.25)	Fort Worth, Texas	—Ft. Worth Brcdsters, Inc.
KFRQ	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 Brcdsters., Inc.
KIUP	ak	100	....	Durango, Colo.	—San Juan Brcdstg. 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 Brcdstg. Co.
KOKO	z	100	....	La Junta, Colo.	—Southwest Brcdstg. Co.
KONO	ak	100	5	San Antonio, Tex.	—Mission Brcdstg. Co.
KRE	ak	100	(.25)	Berkeley, Calif.	—Cent. Calif. Brcd., Inc.
KRKO	ak	50	3	Everett, Wash.	—Lee Mudgett, 2814 Rucker Ave.
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 Brcdstg. Co.
KTKO	bk	100	M	Oklahoma City, Ok.	—Okla. Brcdstg. 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 Brcdstg. Co.
WABY	ak	100	B	Albany, N. Y.	—Adirondack Brcdstg. Co.
WAGF	ak	250	D	Dothan, Ala.	—Dothan Brcdstg. Co.
WATL	ak	100	(.25)	Atlanta, Ga.	—Atlanta Brcdstg. 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 Brcdstg. Corp.
WCBM	ak	100	(.25)	Baltimore, Md.	—Baltimore, Brcdstg. Co.
WDAS	ak	100	(.25)	Philadelphia, Pa.	—WDAS Brcdstg. Station, Inc.
WDWS	ak	100	D	Champaign, Ill.	—Champ. News-Gazette, Inc.
WEQA	z	100	C (.25)	Evansville, Ind.	—Evans. on the Air, Inc.
WFOR	ak	100	....	Hattiesburg, Miss.	—Forrest Brcdstg. Co.
WGL	ak	100	....	Fort Wayne, Ind.	—Westinghouse Radio Sta., Inc.
WGRC	ak	250	D	New Albany, Ind.	—North Side Brcdstg. Corp.
WHBQ	ak	100	....	Memphis, Tenn.	—WHBQ, Inc.
WHDF	ak	100	(.25)	Calumet, Mich.	—Upper Mich. Brcdstg. Corp.
WHLE	ak	100	(.25)	Virginia, Minn.	—Head of the Lakes Brcdstg. Co.
WIBM	ak	100	(.25)	Jackson, Mich.	—WIBM, Inc.
WLLH	ak	100	MSy (.25)	Lowell, Mass.	—Merrimack Brcdstg. Co.
WMBR	ak	100	C (.25)	Jacksonville, Fla.	—Fla. Brcdstg. 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 Brcdstg. Co.
WOC	ak	100	C (.25)	Davenport, Iowa	—Tri-City Brcdstg. Co.
WPA Y	ak	100	....	Portsmouth, Ohio	—Veebee 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 Brcdstg. Corp.
WSAU	z	100	D	Wausau, Wis.	—Northern Brcdstg. 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	....	Morella, Mich.	—Carlos Gutierrez M.
XELZ	z	100	....	Mexico City, D. F.	—Aureliano Mirabel
.....	z	10-100	SyP	Lawrence, Mass.	—Merrimack Brcdstg. Co.

1380 keys. (217.3)

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

1390 keys. (215.7)

CJGX	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. Brcdstg. Co.
KOY	ak	1000	C	Phoenix, Ariz.	—Salt River Brcdstg. 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 kcys. (214.2)

CMGC	ad	150	.....	Matanzas, Cuba	-Oscar Mechoso
CKKR	z	100		Santiago, Cuba	-Jaime Nadal
KHBC	ak	250	CM	Hilo, T. H.	-Honolulu Brdcastg. Co., Ltd.
KLO	ak	500	B	Ogden, Utah	-Interstate Brdcastg. Corp.
KFUL	ak	500	C (1)	Tulsa, Okla.	-Tulsa Brdcastg. Co., Inc.
WBBC	ak	500	2 (1)	Brooklyn, N. Y.	-Brooklyn Brdcastg. Corp.
WHDL	ak	250	D	Olean, N. Y.	-WHDL, Inc.
WIRE	ak	1000	MR (5)	Indianapolis, Ind.	-Indianapolis Brdcastg., Inc
WVFW	ak	500	2	Brooklyn, N. Y.	-Paramount Brdcastg. Co.

1410 kcys. (212.6)

CKFC	ak	50	5	Vancouver, B. C.	-Standard Brdcastg. System, Ltd.
CKMO	ak	100	5F	Vancouver, B. C.	-British Columbia Brdcastg., Ltd.
CMCO	ak	250		Havana, Cuba	-Calle Vista Alegre 90
KFJM	ak	500	(1)	Grand Forks, N. D.	-University of N. Dak.
KGNC	ak	1000	(2.5) B	Amarillo, Texas	-Plains Radio Brdcastg. Co.
KMED	ck	250		Medford, Ore.	-Mrs. W. J. Virgin
WAAB	ak	500	M (1)	Boston, Mass.	-Yankee Network, Inc.
WBCM	ak	500	X	Bay City, Mich.	-James E. Davidson
WHIS	ak	500	(1)	Bluefield, W. Va.	-Daily Telegraph Ptg. Co.
WROK	ak	500	(1)	Rockford, Ill.	-Rockford Broadcasters, Inc.
WSFA	ak	500	C (1)	Montgomery, Ala.	-Montgomery Brdcastg. Co., Inc.

1420 kcys. (211.1)

CKGB	ak	100	F	Timmins, Ont.	-Northern Brdcastg. Co., Ltd.
CRCY	ak	100	F	Toronto, Ont.	-Canadian Brdcastg. Corp.
KABC	ak	100	(.25)	San Antonio, Texas	-Alamo Brdcastg. Co., Inc.
KABR	ak	100		Aberdeen, S. D.	-Aberdeen Brdcastg. Co.
KATE	z	250	DP	Albert Lea, Minn.	-Albert Lea Brdcastg. Corp.
KBPS	ak	100	4	Portland, Ore.	-Benson Polytechnic School
KCMC	ak	100	(.25)	Texarkana, Tex.	-KCMC, Inc.
KEUB	ak	100		Price, Utah	-Eastern Utah Brdcastg. Co.
KFAM	z	100	P	St. Cloud, Minn.	-Times Publishing Co.
KFIZ	ak	100		Fond du Lac, Wis.	-Reporter Printing Co.
KGFF	ak	100	(.25) M	Shawnee, Okla.	-KGFF, Inc.
WGCG	ak	100		San Francisco, Cal.	-Golden Gate Brdcastg. Co.
KGIW	ak	100	1	Alamosa, Colo.	-Leonard E. Wilson
KIDW	ak	100	1	Lamar, Colo.	-Southwest Brdcastg. Co.
KIUN	ak	100		Pecos, Texas	-J. H. Hawkins & B. H. Tubbs
KLBM	z	100	(.25) P	La Grande, Ore.	-Harold M. Finley
KNET	z	100	D	Palestine, Texas	-Palestine Brdcastg. Ass'n.
KORE	ak	100		Eugene, Ore.	-Eugene Brdcastg. Station
KRBC	ak	100	(.25)	Abilene, Texas	-Reporter Brdcastg. Co.
KRLH	z	100	D	Midland, Texas	-Clarence Scharbaur
KTRI	z	100	(.25) P	Sioux City, Iowa	-Sioux City Brdcastg. Co.
KUMA	ak	100		Yuma, Ariz.	-Dr. A. H. Scheremann
KWBG	ak	100		Hutchinson, Kans.	-W. N. Greenwald
KXL	ak	100	4 (.25)	Portland, Ore.	-KXL Broadcasters
WACO	ak	100	C	Waco, Texas	-KTSA Brdcastg. Co.
WAGM	ak	100	D	Presque Isle, Me.	-Aroostook Brdcastg. Corp.
WAPQ	ak	100		Chattanooga, Tenn.	-W. A. Patterson
WAZL	ak	100	2	Hazleton, Pa.	-Hazleton Brdcastg. Serv., Inc.
WCBS	ak	100		Springfield, Ill.	-WCBS, Inc.
WCHV	ak	100	3 (.25)	Charlottesville, Va.	-Community Brdcastg. Corp.
WEED	ak	100	3 (.25)	Rocky Mount, N. C.	-Wm. Avera Wynne, Box 221
WELL	ak	100		Battle Creek, Mich.	-Enquirer News Co.
WGPC	ak	100		Albany, Ga.	-Americus Brdcastg. Corp.
WHFC	ak	100	(.25)	Cicero, Ill.	-WHFC, Inc., 6138 Cermak Rd.
WILM	aj	100	2	Wilmington, Del.	-Delaware Brdcastg. Corp.
WJBR	z	100	P	Gastonia, N. C.	-J. B. Roberts
WJMS	ak	100		Ironwood, Mich.	-WJMS, Inc., St. James Hotel
WLAP	ak	100	(.25)	Lexington, Ky.	-American Brdcastg. Corp.
WLEU	ak	100	(.25) B	Erie, Pa.	-Leo J. Omelian, Commerce Bldg.
WMAS	ak	100	C (.25)	Springfield, Mass.	-WMAS, Inc., Hotel Stonehaven
WMBG	ak	100	(.25)	Detroit, Mich.	-Michigan Brdcastg. Co.
WMBH	ak	100	(.25)	Joplin, Mo.	-Joplin Brdcastg. Co.
WMB5	z	250	DP	Uniontown, Pa.	-Fayette Brdcastg. Corp.
WMFJ	ak	100		Daytona Bch., Fla.	-W. W. Esch
WMSD	ak	100		Sheffield, Ala.	-Muscle Shoals Brdcastg. Corp.
WNNY	z	100	(.25) P	Watertown, N. Y.	-Black River Valley Broadcasts, Inc.
WPAD	ak	100	(.25)	Paducah, Ky.	-Paducah Brdcastg. Co., Inc.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

<p>WPAR ak 100 C WPRP z 100 (.25)</p>	<p>Parkersburg, W. V. Ponce, Puerto Rico</p>	<p>—Ohio Valley Brcdstg. Corp. —Julio M. Conesa</p>
<p>1430 kcys. (209.7) </p>		
<p>CMJP ak 75 KECA ak 1000 KGNF ak 1000 KSO ak 500 WBNS ak 500 WHEC ak 500 WHP ak 500 WMPS ak 500 WOKO ak 500</p>	<p>75 (5) B D BM(2.5) C (1) C (1) C (1) C (1) C (1) C (1)</p>	<p>Moron, Cuba Los Angeles, Cal. North Platte, Neb. Des Moines, Iowa Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.</p>
<p>—Cesar Canall, Callejas 80 —E. C. Anthony, Inc. —Great Plains Brcdstg. Co. —Iowa Brcdstg. Co. —WBNS, Inc., 33 N. High St. —WHEC, Inc., 40 Franklin St. —WHP, Inc., 216 Locust St. —Memphis Commercial Appeal, Box 445. —WOKO, Inc., Hotel Ten Eyck</p>		
<p>1440 kcys. (208.2) </p>		
<p>CMOA z 150 KDFN ak 500 KELA z 500 KXYZ ak 1000 WBIG ak 1000 WBCA aj 500 WMBD ak 500 WSAN aj 500 XEFI ak 250</p>	<p>150 500 500 1000 1000 500 500 500 250</p>	<p>..... P B C a C(1)X Ba</p>
<p>Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.</p>		
<p>—Juan Fernandez Duran —Donald Lewis Hathaway —Central Brcdstg. Corp. —Harris County Brcdstg. Co. —N. C. Brcdstg. Co., Inc. —B. B. Musselman —Peoria Brcdstg. Co. —WSAN, Inc., 39 Tenth St. —Feliciano Lopez Isles</p>		
<p>1450 kcys. (206.8) </p>		
<p>CFCT ak 50 CHGS ak 50 CMHM z 100 KGCX ak 1000 KIEM ak 500 KTBS ak 1000 WAGA ak 500 WGAR ak 500 WHOM ak 250 WSAR ak 1000 XEF ak 100</p>	<p>50 50 100 1000 500 1000 500 500 250 1000 100</p>	<p>..... F B N B MB (1) M</p>
<p>Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Atlanta, Ga. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Juarez, Chih.</p>		
<p>—Victoria Brcdstg. Assn. —R. T. Holman, Ltd. —Hotel Union —E. E. Krebsbach —Redwood Brcdstg. Co., Inc. —Tri-State Brcdstg. System, Inc. —Liberty Brcdstg. Co. —WGAR Brcdstg. Co. —New Jersey Brcdstg. Corp. —Doughty & Welch Elec. Co., Inc. —Box 70</p>		
<p>1460 kcys. (205.4) </p>		
<p>CMKF z 250 KSTP ak 10000 WJSV ak 10000</p>	<p>250 10000 10000</p>	<p>..... R (25) C</p>
<p>Holguin, Cuba St. Paul, Minn. Washington, D. C.</p>		
<p>—Manuel J. DeGongora —National Battery Brcdstg. Co. —Columbia Brcdstg. System</p>		
<p>1470 kcys. (204.0) </p>		
<p>KGA ak 5000 WLAC ak 5000</p>	<p>5000 5000</p>	<p>B C</p>
<p>Spokane, Wash. Nashville, Tenn.</p>		
<p>—Louis Wasmer —WLAC, Inc.</p>		
<p>1480 kcys. (202.6) </p>		
<p>KOMA ak 5000 WHIP z 5000 WKBW ak 5000</p>	<p>5000 5000 5000</p>	<p>CP D C</p>
<p>Oklahoma City, Ok. Hammond, Ind. Buffalo, N. Y.</p>		
<p>—Hearst Radio, Inc. —Hammond-Calumet Brcdstg. Corp. —Buffalo Brcdstg. Corp.</p>		
<p>1490 kcys. (201.2) </p>		
<p>KFBK ak 5000 WCKY ak 10000</p>	<p>5000 10000</p>	<p>N X B</p>
<p>Sacramento, Calif. Covington, Ky.</p>		
<p>—McClatchey Brcdstg. Co., 708 I St. —L. B. Wilson, Inc., 6th & Madison.</p>		
<p>1500 kcys. (199.9) </p>		
<p>CJIC ak 100 KAWM z 100 KBIX ak 100 KBST z 100 KDAL ak 100 KDB ak 100 KGFI ak 100 KGKB ak 100 KGKY ak 100</p>	<p>100 100 100 100 100 100 100 100 100</p>	<p>..... M M(.25) Y(.25) (.25) (.25)</p>
<p>S. S. Marie, Ont. Gallup, N. Mex. Muskogee, Okla. Big Spring, Texas Duluth, Minn. Santa Barbara, Cal. Corp. Christl, Tex. Tyler, Texas Scottsbluff, Neb.</p>		
<p>—Hyland & Whitby —A. W. Mille —Muskogee Press —Big Spring Herald Brcdstg. Co. —Red River Brcdstg. Co., Inc. —Santa Barbara Brcdsters., Ltd. —Eagle Brcdstg. Co., Inc. —East Texas Brcdstg. Co. —Hilliard Co., Inc.</p>		

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KNEL	ak	250	D	Brady, Texas	—G. L. Burns, Box 1077
KNOTW	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.	—KOVG, Inc.
KPLC	ak	100	(.25)	Lake Charles, La.	—Calcasieu Brdcstg. Co.
KPLT	z	250	D	Paris, Texas	—North Texas Brdcstg. Co.
KPO	ak	100	(.25)	Wenatchee, Wash.	—Wescoast 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	i (.25)	Brooklyn, N. Y.	—Arthur Fasje
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
WKEU	ak	100	D	Griffin, Ga.	—Station WKEU
WMBO	ak	100	i	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	DM	New London, Conn.	—Thames Brdcstg. Corp., Mohican Hotel.
WOMI	z	100	P	Owensboro, Ky.	—Owensboro Brdcstg. Co.
WOPJ	ak	100		Bristol, Tenn.	—Radiophone Station WOPJ
WRDW	ak	100		Augusta, Ga.	—Augusta Brdcstg. Co., Inc.
WRGA	ak	100	(.25)	Rome, Ga.	—Rome Brdcstg. Corp.
WRDZ	z	100	B	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	i (.25)	Woodside, N. Y.	—Long Isl. Brdcstg. Co.
WWSW	ak	100	(.25)	Pittsburgh, Pa.	—Walker & Downing Radio Corp.

1510 kcys. (198.6)

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

1530 kcys. (196.0)

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

1550 kcys. (193.4)

KPMC	ak	1000	M	Bakersfield, Calif.	—Pioneer Mercantile Co.
WOXR	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						
Birmingham				WSFA	1410	500	C	KGBU	900	500	KUMA	1420	100	
WAPI	1140	5000	N	Selma				ARIZONA		ARKANSAS				
WBRC	930	1000	C	WHBB	1500	100		Jerome		Blytheville				
WSGN	1310	100	B	Sheffield				KCRJ	1310	100	KLCN 1290 100			
Decatur				WMSD	1420	100		Lowell		El Dorado				
WFIO	1370	100		Tuscaloosa				KSUN	1200	100	KELD 1370 100			
WAGF	1370	250		WJRD	1200	100		Phoenix		Fort Smith				
Dothan								KOY	1390	1000	C	KFPW 1210 100		
Gadsden								KTAR	620	1000	N	Hot Springs		
WJBY	1210	100		ALASKA				Tucson		KTHS 1060 10000 N				
Huntsville								KGAR	1370	100		Jonesboro		
WBHP	1200	100		Anchorage	KFOD	780	250	KVOA	1260	1000		KBTM 1200 100		
Mobile								Juncenu						
WALA	1380	500	C	KINY	1310	100								

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Little Rock	
KARK 890	500 B
KGHI 1200	100
KLRA 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	
KARM 1310	100
KMJ 580	1000 N
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
KGJF 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
KGCC 1420	100
KGO 790	7500 B
KJBS 1070	500
KPO 680	50000 R
KSFO 560	1000 C
KYA 1230	1000
San Jose	
KQW 1010	1000M

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	
KGDM 1100	1000M
KWG 1200	100 N
Visalla	
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
KVOD 920	500 B
Durango	
KIUP 1370	100
Grand Junction	
KFXJ 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	100M
Waterbury	
WATR 1190	100
WBRY 1530	1000M

DELAWARE

Wilmington	
WDEL 1120	250 R
WILM 1420	100

DISTRICT OF COLUMBIA

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

FLORIDA

Clearwater	
WFLA 620	1000 N
Daytona Beach	
WMMFJ 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	
WDAA 1220	1000 C
West Palm Beach	
WJNO 1200	100 C

GEORGIA

Albany	
WGPC 1420	100
Atlanta	
WAGA 1450	500
WATL 1370	100
WGST - 890	1000 C
WSB 740	50000 N
Augusta	
WRDW 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	
KGMB 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	
KSET 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
WCBD 1080	5000
WCFL 970	5000 B
WCRW 1210	100
WEDC 1210	100
WENR 870	50000 B
WGES 1360	500
WGN 720	50000M
WJJD 1130	20000
WLS 870	50000 N
WMAQ 670	50000 R
WMBI 1080	5000
WBCB 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 580	1000

INDIANA

Anderson	
WHBU 1210	100
Elkhart	
WTRC 1310	100
Evansville	
WEOA 1370	100 C
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

Indianapolis		
WFMB	1230	1000 C
WGVA	1050	1000
WIRE	1400	1000 R
Muncie,		
WLBC	1310	100
New Albany		
WGRC	1370	250
Richmond		
WKBY	1500	100
South Bend		
WFAM	1200	100
WSBT	1360	500
Terre Haute		
WBOW	1310	100 B
West Lafayette		
WBAA	890	500

IOWA

Ames		
WOI	640	5000
Boone		
KFGO	1370	100
Cedar Rapids		
WMT	600	1000 B
Davenport		
WOC	1370	100 C
Decorah		
KGCA	1270	100
KWLC	1270	100
Des Moines		
KRNT	1320	1000 C
KSO	1430	500 B
WHO	1000	5000 R
Dubuque		
KDTH	1340	500
Iowa City		
WSUI	880	500
Marshalltown		
KFB	1200	100
Mason City		
KGLO	1210	100 C
Shenandoah		
KFNF	890	500
KMA	930	1000
Sioux City		
KSCJ	1330	1000 C
KTRI	1420	100

KANSAS

Abilene		
KFBI	1050	5000
Coffeyville		
KGGF	1010	1000
Dodge City		
KGNO	1340	250
Garden City		
KIUL	1210	100
Great Bend		
KVGB	1370	100
Hutchinson		
KWBC	1420	100
Kansas City		
KCKN	1310	100
Lawrence		
KFKU	1220	1000
WREN	1220	1000 B
Manhattan		
KSAC	580	500
Pittsburg		
KOAM	790	1000
Salina		
KSAL	1500	100
Topeka		
WIBW	580	1000 C

Wichita		
KANS	1210	100 B
KFHB	1300	1000 C

KENTUCKY

Ashland		
WCM1	1310	100
Covington		
WCKY	1490	10000 B
Lexington		
WLAP	1420	100
Louisville		
WAVE	940	1000 N
WHAS	820	50000 C
Middlesboro		
WLMU	1210	100
Owensboro		
WOMI	1500	100
Paducah		
WPAD	1420	100

LOUISIANA

Alexandria		
KALB	1210	100
Baton Rouge		
WJBO	1120	500 B
Lafayette		
KVOL	1310	100
Lake Charles		
KPLC	1500	100
Monroe		
KMLB	1200	100
New Orleans		
WBNO	1200	100
WDSU	1250	1000 B
WJBW	1200	100
WSMB	1320	1000 N
WWL	850	10000 C
Shreveport		
KRMD	1310	100
Tulsa		
KTBS	1450	1000 N
KWKH	1100	10000 C

MAINE

Augusta		
WRDO	1370	100M
Bangor		
WABI	1200	100
WLBZ	620	500 C
Portland		
WCBS	940	1000 R
WGAN	640	500
Presque Isle		
WAGM	1420	100

MARYLAND

Baltimore		
WBAL	760	2500 B
WBAL	1060	10000 B
WCAO	600	500 C
WCBM	1370	100
WFBR	1270	500 R
College Park		
W3XJ	1060	100
Cumberland		
WTBO	800	250
Frederick		
WFMD	900	500
Hagerstown		
WJEJ	1210	100
Salisbury		
WSAL	1200	250

MASSACHUSETTS

Boston		
WAAB	1410	500M
WBZ	990	50000 B
WCOP	1120	500
WEI	590	1000 C
WHDH	830	1000
WMEX	1500	100
WNAC	1230	1000 R
WORL	920	500
Fall River		
WSAR	1450	1000M
Lawrence		
WLAW	680	1000
.....	1370	10-100
Lowell		
WLLH	1370	100M
New Bedford		
WNBH	1310	100M
Pittsfield		
WBRK	1310	100
Springfield		
WBZA	990	1000 B
WMAS	1420	100 C
WSPR	1140	500M
Worcester		
WORC	1280	500 C
WTAG	580	1000 R

MICHIGAN

Battle Creek		
WELL	1420	100
Bay City		
WRCM	1410	500
Calumet		
WHDF	1370	100
Detroit		
WJBK	1500	100
WJR	750	50000 C
WMBC	1420	100
WWJ	920	5000 R
WXYZ	1240	1000 B
East Lansing		
WKAR	850	1000
Flint		
WFDE	1310	100
Grand Rapids		
WASH	1270	500 N
WOOD	1270	500 N
Ironwood		
WJMS	1420	100
Jackson		
WIBM	1370	100
Kalamazoo		
WKZO	590	1000 B
Lansing		
WJIM	1210	100
Lapeer		
WMPC	1200	100
Marquette		
WBE0	1310	100
Muskegon		
WKBZ	1500	100
Royal Oak		
WEXL	1310	50
Saginaw		
WHAL	950	500

MINNESOTA

Albert Lea		
KATE	1420	250
Duluth		
KDAL	1500	100
WEBC	1290	1000 N

Fergus Falls		
KGDE	1200	100
Hibbing		
WMFG	1210	100
Minneapolis		
WCCO	810	50000 C
WDGY	1180	1000
WLB	1250	1000
WTCN	1250	1000 B
Moorhead		
KVOX	1310	100
Northfield		
WCAL	1250	1000
Rochester		
KROC	1310	100
St. Cloud		
KFAM	1420	100
St. Paul		
KSTP	1460	10000 R
WMIN	1370	100
Virginia		
WHLB	1370	100
Winona		
KWNO	1200	100

MISSISSIPPI

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

MISSOURI

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

MONTANA

Billings		
KGHL	780	1000 N

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Butte KGIR 1340 1000 N Great Falls KFBB 1280 1000 C Helena KPFA 1210 100 Kallispell KGEZ 1310 100 Lewistown KDNC 1200 100 Missoula KGVO 1260 1000 C Wolf Point KGCX 1450 1000</p> <p style="text-align: center;">NEBRASKA</p> <p>Clay Center KMMJ 740 1000 Kearney KGFV 1310 100 Lincoln KFAB 770 10000 C KFOR 1210 100 C Norfolk WJAC 1060 1000 North Platte KGNF 1430 1000 Omaha KOIL 1260 1000 B WAAW 660 500 WOW 590 1000 R Scottsbluff KGGY 1500 100</p> <p style="text-align: center;">NEVADA</p> <p>Reno KOH 1380 500 C</p> <p style="text-align: center;">NEW HAMPSHIRE</p> <p>Laconia WLNH 1310 100M Manchester WFEA 1340 500 B* Portsmouth WHEB 740 250</p> <p style="text-align: center;">NEW JERSEY</p> <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> <p style="text-align: center;">NEW MEXICO</p> <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 KRQA 1310 100</p> <p style="text-align: center;">NEW YORK</p> <p>Albany WABY 1370 100 WOKO 1430 500 C Auburn WMB0 1310 100 Binghamton WNBf 1500 100 C Brooklyn WBBC 1400 500 WBRR 1300 1000 WCNW 1500 100 WMBQ 1500 100 WVFW 1400 500 Buffalo WBEN 900 1000 R WBNY 1370 100 WEBR 1310 100 B WGR 550 1000 C WKBW 1480 5000 C 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 WNOY 1130 1000 WOXR 1550 1000 Olean WHDL 1400 250 Plattsburg WMFF 1310 100 Rochester WHAM 1150 50000 B WHEC 1430 500 C WSAY 1210 100 Saranac Lake WNBZ 1290 100 Schenectady WGY 790 50000 R Syracuse WFBL 1360 1000 C WSYR 570 1000 B Troy WHAZ 1300 500</p>	<p>Utica WBX 1200 100 C Watertown WNNY 1420 100 White Plains WFAS 1210 100 Woodside WWRL 1500 100</p> <p style="text-align: center;">NORTH CAROLINA</p> <p>Asheville WWNC 570 1000 N Charlotte WBT 1080 50000 C WSOC 1210 100 N Durham WDNC 1500 100 C Gastonia WJBR 1420 100 Greensboro WBG 1440 1000 C High Point WMFR 1200 100 Kinston WFTC 1200 100 Raleigh WPTF 680 1000 N Rocky Mount WEED 1420 100 Wilmington WMFD 1370 100 Wilson WGTM 1310 100 Winston-Salem WAIR 1250 250 WSJS 1310 100 C</p> <p style="text-align: center;">NORTH DAKOTA</p> <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 KGGU 1240 250 Minot KLPN 1240 250 Valley City KOVc 1500 100</p> <p style="text-align: center;">OHIO</p> <p>Akron WADC 1320 1000 C WJW 1210 100 Ashtabula WICA 940 250 Canton WHBC 1200 100 Cincinnati WCPO 1200 100 WKRC 550 1000 C WLW 700 500000 N WSAI 1330 1000 R W8XO 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 WTOL 1200 100 Youngstown WKBN 570 500 C Zanesville WALR 1210 100</p> <p style="text-align: center;">OKLAHOMA</p> <p>Ada KADA 1200 100M Ardmore KVS0 1210 100M Elk City KASA 1210 100M Enid KCRK 1360 250M Muskogee KBIX 1500 100M Norman WNAD 1010 1000 Oklahoma City KFPR 1310 100 KOMA 1480 5000 C KTOK 1370 100M WKY 900 1000 N Okmulgee KHBG 1210 100 Ponca City WBBZ 1200 100M Shawnee KGFf 1420 100M Tulsa KTUL 1400 500 C KVOO 1140 25000 N</p> <p style="text-align: center;">OREGON</p> <p>Astoria KAST 1370 100 Corvallis KOAC 550 1000 Eugene KORE 1420 100 Klamath Falls KFJI 1210 100 La Grande KLBM 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 KWJ 1040 500 KXL 1420 100 Roseburg KRNR 1500 100 Salem KSLM 1370 100</p>
--	--	---	--

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	WCSC 1360 500 N	KAND 1310 100	KSL 1130 50000 C
WFBG 1310 100	Columbia	Dallas	KUTA 1500 100
Easton	WIS 560 1000 N	KRLD 1040 10000 C	VERMONT
WEST 1200 100	Florence	WFAA 800 50000 N	Burlington
Erie	WOLS 1200 100	WRR 1280 500M	WCAX 1200 100
WLEU 1420 100 B	Greenville	Dublin	Rutland
Glenside	WFCB 1300 1000 N	KFPL 1310 100	WSYB 1500 100
WIBG 970 100	Spartanburg	El Paso	St. Albans
Greensburg	WSPA 920 1000	KROD 1500 100	WQDM 1390 1000
WHJB 620 250 C	SOUTH DAKOTA	KTSM 1310 100	Springfield
Grove City	Aberdeen	WDAH 1310 100	WNBX 1260 1000M
WSAJ 1310 100	KABR 1420 100	Fort Worth	Waterbury
Harrisburg	Brookings	KFJZ 1370 100	WDEV 550 500
WHP 1430 500 C	KFDY 780 1000	KTAT 1240 1000M	VIRGINIA
WKBO 1200 100	Huron	WBAP 800 50000 N	Charlottesville
Hazleton	KGDY 1340 250	Gelveston	WCHV 1420 100
WAZL 1420 100	Pierre	KLUF 1370 100	Danville
Johnstown	KGFX 630 200	Greenville	WBTM 1370 100
WJAC 1310 100	Rapid City	KGVL 1200 100	Harrisonburg
Lancaster	KOBH 1370 100	Houston	WSVA 550 500
WGAL 1500 100	WCAT 1200 100	KPRC 920 1000 N	Lynchburg
Philadelphia	Sioux Falls	KTRH 1290 1000 C	WLVA 1200 100
KYW 1020 10000 R	KELO 1200 100	KXYZ 1440 1000 B	Newport News
WCAU 1170 50000 C	KSOU 1110 2500 B	Kilgore	WGH 1310 100
WDAS 1370 100	Vermillion	KOCA 1210 100	Norfolk
WFIL 560 1000 B	KUSD 890 500	Longview	WTAR 780 1000 N
WHAT 1310 100	Watertown	KFRO 1370 250	Richmond
WIP 610 1000	KWTN 1210 100	Lubbock	WBLB 1210 100
WPEN 920 1000	Yankton	KFYO 1310 100	WMBG 1350 500 R
WRAX 920 1000	WNAX 570 1000 C	Lufkin	WRNB 880 500
WTEL 1310 100	TENNESSEE	Midland	WRTD 1500 100 B
Pittsburgh	Bristol	KRLH 1420 100	WVA 1110 5000 C
KDKA 980 50000 B	WOPi 1500 100	Palestine	Roanoke
KOV 1380 500 C	Chattanooga	KNET 1420 100	WDBJ 930 1000 C
WCAE 1220 1000 R	WAPO 1420 100	Pampa	WASHINGTON
WJAS 1290 1000 C	WDOD 1280 1000 C	KPDN 1310 100	Aberdeen
WWSW 1500 100	Jackson	Paris	KXRO 1310 100
Reading	WTJS 1310 100	KPLT 1500 250	Bellingham
WEEU 830 1000	Knoxville	Pecos	KVOS 1200 100
WRAW 1310 100	WNOX 1010 1000 C	Port Arthur	Centralia
Scranton	WROL 1310 100 B	KPAC 1260 500	KELA 1440 500
WGBI 880 500	Memphis	San Angelo	Everett
WQAN 880 500	WHBQ 1370 100	KGKL 1370 100	KRKO 1370 50
Sunbury	WMC 780 1000 N	San Antonio	Olympia
WKOK 1210 100	WMPS 1430 500 B	KABC 1420 100	KGY 1210 100
Uniontown	WREC 600 1000 C	KMAC 1370 100	Pullman
WMBS 1420 250	Nashville	KONO 1370 100	KWSC 1220 1000
Wilkes-Barre	WLAC 1470 5000 C	KTSA 550 1000 C	Seattle
WBAX 1210 100	WSIX 1210 100	WQAI 1190 50000 N	KEEN 1370 100
WBRE 1310 100	WSM 650 50000 N	Sherman	KIRO 710 1000
Williamsport	TEXAS	KRRV 1310 250	KJR 970 5000 B
WRAC 1370 100	Abilene	Temple	KOL 1270 1000 C
York	KRBC 1420 100	KTEM 1370 250	KOMO 920 1000 R
WORK 1320 1000 B	Amarillo	Texarkana	KRSC 1120 250
PUERTO RICO	KGNC 1410 1000 B	KCMC 1420 100	KTW 1220 1000
Mayaguez	Austin	Tyler	KXA 760 250
WPR 1370 100	KNOW 1500 100 C	KGKB 1500 100	Spokane
Ponce	KTBC 1120 1000	Waco	KFPO 1120 100
WPRP 1420 100	Beaumont	Weslaco	KFPY 890 1000 C
San Juan	KFDM 560 500 B	Weslaco	KGA 1470 5000 B
WKAQ 1240 1000	Big Spring	Weslaco	KHO 590 1000 R
WNEL 1290 1000	KBST 1500 100	Weslaco	Tacoma
RHODE ISLAND	Brady	Weslaco	KMO 1330 1000
Providence	KNEL 1500 250	Weslaco	KVI 570 1000 C
WEAN 780 1000M	College Station	Weslaco	Walla Walla
WJAR 890 1000 R	WTAW 1120 500	Weslaco	KUJ 1370 100
WPRO 630 500 C		Weslaco	
		UTAH	
		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> <p>WEST VIRGINIA</p> <p>Bluefield WHIS 1410 500</p> <p>Charleston WCHS 580 500 C</p> <p>Clarksburg WBLK 1370 100</p> <p>Fairmont WMMN 890 500 C</p> <p>Huntington WSAZ 1190 1000</p> <p>Parkersburg WPAR 1420 100 C</p> <p>Wheeling WWVA 1160 5000 C</p> <p>WISCONSIN</p> <p>Eau Claire WEAU 1050 1000</p> <p>Fond du Lac KFIZ 1420 100</p> <p>Green Bay WHBY 1200 100</p> <p>WTAQ 1330 1000 C</p> <p>Jansville 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> <p>WYOMING</p> <p>Casper KDFN 1440 500</p> <p>Sheridan KWYO 1370 100</p>	<p>Lethbridge CJOC 950 100 F</p> <p>BRIT. COLUMBIA</p> <p>Chilliwack CHWK 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>CKCD 1010 100</p> <p>CKFK 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> <p>MANITOBA</p> <p>Brandon CKX 1120 1000 F</p> <p>Winnipeg CJRG 630 500 F</p> <p>CKY 910 15000 F</p> <p>NEW BRUNSWICK</p> <p>Fredericton CFNB 550 500 F</p> <p>Moncton CKCW 1370 100 F</p> <p>St. John CHSJ 1120 500 F</p> <p>N. W. TERRITORY</p> <p>Aklavik CJCU 1210 50</p> <p>NOVA SCOTIA</p> <p>Glace Bay VAS 685 2000</p> <p>Halifax CHNS 930 1000 F</p> <p>Sydney CJGB 1240 1000 F</p> <p>Wolfville CKIC 1010 50</p> <p>Yarmouth CJLS 1310 100</p> <p>ONTARIO</p> <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 CFCL 930 100</p> <p>St. Catharines CKTB 1200 100 F</p> <p>Sault Ste. Marie CJIC 1500 100</p> <p>Stratford CJCS 1210 50</p> <p>Sudbury CKSO 780 1000 F</p> <p>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 CKCR 1510 100</p> <p>Windsor CKLW 1030 5000M</p> <p>CRCW 600 500 F</p> <p>Wingham CKNX 1200 50</p> <p>PRINCE EDWARD ISLAND</p> <p>Charlottetown CFCY 630 1000 F</p> <p>CHCK 1310 50</p> <p>Summerside CHGS 1450 50 F</p> <p>QUEBEC</p> <p>Chicoutimi CRCS 950 100 F</p> <p>Hull CKCH 1210 100 F</p> <p>Montreal CFCF 600 500 N</p> <p>CHLP 1120 100 F</p> <p>CKAC 730 5000 C</p> <p>CRCM 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> <p>Sherbrooke CHLT 1210 100</p> <p>SASKATCHEWAN</p> <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 1000 F</p> <p>Saskatoon CFQC 840 1000 F</p> <p>Yorkton CJGX 1390 100 F</p>	<p>NEWFOUNDLAND</p> <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> <p>MEXICO</p> <p>AGUASCALIENTES</p> <p>Aguascalientes XEBI 1000 25</p> <p>XEXC 810 350</p> <p>BAJA CALIFORNIA</p> <p>Mexicali XEAA 920 200</p> <p>XEAO 660 250</p> <p>Tijuana XEAC 980 250</p> <p>XEBG 820 1000</p> <p>XEC 1150 100</p> <p>XELO 1110 50000</p> <p>XEMO 860 5000</p> <p>XEOK 760 2500</p> <p>CHIHUAHUA</p> <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> <p>COAHUILA</p> <p>Piedras Negras 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> <p>D. F.</p> <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>
---	--	---	---

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>XEW</td><td>890</td><td>50000</td></tr> <tr><td>KEYO</td><td>940</td><td>500</td></tr> <tr><td colspan="3" style="text-align: center;">Tacuba</td></tr> <tr><td>XEFA</td><td>1180</td><td>500</td></tr> <tr><td colspan="3" style="text-align: center;">DURANGO</td></tr> <tr><td colspan="3" style="text-align: center;">Durango</td></tr> <tr><td>XEE</td><td>1210</td><td>50</td></tr> <tr><td colspan="3" style="text-align: center;">GUANAJUATO</td></tr> <tr><td colspan="3" style="text-align: center;">Leon</td></tr> <tr><td>XEKL</td><td>1240</td><td>500</td></tr> <tr><td colspan="3" style="text-align: center;">JALISCO</td></tr> <tr><td colspan="3" style="text-align: center;">Guadalajara</td></tr> <tr><td>XEAD</td><td>1060</td><td>125</td></tr> <tr><td>XED</td><td>1160</td><td>2500</td></tr> <tr><td colspan="3" style="text-align: center;">Guzman</td></tr> <tr><td>XEBA</td><td>1080</td><td>20</td></tr> <tr><td colspan="3" style="text-align: center;">MICHOACAN</td></tr> <tr><td colspan="3" style="text-align: center;">Morelia</td></tr> <tr><td>XEI</td><td>1370</td><td>125</td></tr> <tr><td colspan="3" style="text-align: center;">NUEVO LEON</td></tr> <tr><td colspan="3" style="text-align: center;">Monterrey</td></tr> <tr><td>XEFB</td><td>870</td><td>200</td></tr> <tr><td>XEFJ</td><td>1230</td><td>100</td></tr> <tr><td>XEH</td><td>720</td><td>250</td></tr> <tr><td>XET</td><td>690</td><td>5000</td></tr> <tr><td>XEX</td><td>1310</td><td>125</td></tr> <tr><td colspan="3" style="text-align: center;">PUEBLA</td></tr> <tr><td colspan="3" style="text-align: center;">Puebla</td></tr> <tr><td>XETH</td><td>1210</td><td>100</td></tr> </table>	XEW	890	50000	KEYO	940	500	Tacuba			XEFA	1180	500	DURANGO			Durango			XEE	1210	50	GUANAJUATO			Leon			XEKL	1240	500	JALISCO			Guadalajara			XEAD	1060	125	XED	1160	2500	Guzman			XEBA	1080	20	MICHOACAN			Morelia			XEI	1370	125	NUEVO LEON			Monterrey			XEFB	870	200	XEFJ	1230	100	XEH	720	250	XET	690	5000	XEX	1310	125	PUEBLA			Puebla			XETH	1210	100	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">SAN LUIS POTOSI</td></tr> <tr><td colspan="3" style="text-align: center;">San Luis Potosi</td></tr> <tr><td>XECZ</td><td>1370</td><td>100</td></tr> <tr><td>XEXH</td><td>1250</td><td>250</td></tr> <tr><td colspan="3" style="text-align: center;">SINALOA</td></tr> <tr><td colspan="3" style="text-align: center;">Mazatlan</td></tr> <tr><td>XEBL</td><td>1220</td><td>50</td></tr> <tr><td colspan="3" style="text-align: center;">SONORA</td></tr> <tr><td colspan="3" style="text-align: center;">Hermosillo</td></tr> <tr><td>XEBH</td><td>930</td><td>500</td></tr> <tr><td colspan="3" style="text-align: center;">Nogales</td></tr> <tr><td>XEAF</td><td>990</td><td>750</td></tr> <tr><td colspan="3" style="text-align: center;">TAMAULIPAS</td></tr> <tr><td colspan="3" style="text-align: center;">Matamoros</td></tr> <tr><td>XEAM</td><td>750</td><td>25</td></tr> <tr><td colspan="3" style="text-align: center;">Nuevo Laredo</td></tr> <tr><td>XEBK</td><td>1000</td><td>100</td></tr> <tr><td>XEDF</td><td>810</td><td>75</td></tr> <tr><td>XEFE</td><td>980</td><td>150</td></tr> <tr><td>XENT</td><td>910</td><td>150000</td></tr> <tr><td colspan="3" style="text-align: center;">Reynosa</td></tr> <tr><td>XEAW</td><td>960</td><td>50000</td></tr> <tr><td colspan="3" style="text-align: center;">Tampico</td></tr> <tr><td>XEFW</td><td>1310</td><td>250</td></tr> <tr><td>XES</td><td>990</td><td>250</td></tr> <tr><td colspan="3" style="text-align: center;">VERACRUZ</td></tr> <tr><td colspan="3" style="text-align: center;">Cordoba</td></tr> <tr><td>XEAG</td><td>1310</td><td>10</td></tr> <tr><td colspan="3" style="text-align: center;">Jalapa</td></tr> <tr><td>XEXB</td><td>1270</td><td>50</td></tr> <tr><td>XEXD</td><td>1340</td><td>350</td></tr> <tr><td colspan="3" style="text-align: center;">Minatitlan</td></tr> <tr><td>XEDW</td><td>1150</td><td>20</td></tr> <tr><td colspan="3" style="text-align: center;">Veracruz</td></tr> <tr><td>XETF</td><td>1220</td><td>30</td></tr> <tr><td>XEU</td><td>1010</td><td>250</td></tr> </table>	SAN LUIS POTOSI			San Luis Potosi			XECZ	1370	100	XEXH	1250	250	SINALOA			Mazatlan			XEBL	1220	50	SONORA			Hermosillo			XEBH	930	500	Nogales			XEAF	990	750	TAMAULIPAS			Matamoros			XEAM	750	25	Nuevo Laredo			XEBK	1000	100	XEDF	810	75	XEFE	980	150	XENT	910	150000	Reynosa			XEAW	960	50000	Tampico			XEFW	1310	250	XES	990	250	VERACRUZ			Cordoba			XEAG	1310	10	Jalapa			XEXB	1270	50	XEXD	1340	350	Minatitlan			XEDW	1150	20	Veracruz			XETF	1220	30	XEU	1010	250	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center;">YUCATAN</td></tr> <tr><td colspan="3" style="text-align: center;">Merida</td></tr> <tr><td>XEBJ</td><td>1160</td><td>20</td></tr> <tr><td>XEFC</td><td>550</td><td>100</td></tr> <tr><td>XEZ</td><td>630</td><td>500</td></tr> <tr><td colspan="3" style="text-align: center;">CUBA</td></tr> <tr><td colspan="3" style="text-align: center;">Caibarien</td></tr> <tr><td>CMHD</td><td>1270</td><td>250</td></tr> <tr><td colspan="3" style="text-align: center;">Camaguey</td></tr> <tr><td>CMJA</td><td>1010</td><td>300</td></tr> <tr><td>CMJC</td><td>1390</td><td>150</td></tr> <tr><td>CMJE</td><td>1220</td><td>50</td></tr> <tr><td>CMJF</td><td>1150</td><td>200</td></tr> <tr><td>CMJK</td><td>780</td><td>250</td></tr> <tr><td>CMJL</td><td>1340</td><td>75</td></tr> <tr><td>CMJX</td><td>830</td><td>500</td></tr> <tr><td colspan="3" style="text-align: center;">Cardenas</td></tr> <tr><td>CMGE</td><td>1370</td><td>150</td></tr> <tr><td colspan="3" style="text-align: center;">Ciego de Avila</td></tr> <tr><td>CMJH</td><td>1360</td><td>50</td></tr> <tr><td>CMJI</td><td>1130</td><td>150</td></tr> <tr><td>CMJO</td><td>1180</td><td>50</td></tr> <tr><td colspan="3" style="text-align: center;">Cienfuegos</td></tr> <tr><td>CMHJ</td><td>1160</td><td>175</td></tr> <tr><td>CMHM</td><td>1450</td><td>100</td></tr> <tr><td>CMHW</td><td>820</td><td>100</td></tr> <tr><td>CMHX</td><td>760</td><td>200</td></tr> <tr><td colspan="3" style="text-align: center;">Cruces</td></tr> <tr><td>CMHK</td><td>1330</td><td>250</td></tr> <tr><td colspan="3" style="text-align: center;">Havana</td></tr> <tr><td>CMBC</td><td>630</td><td>...</td></tr> <tr><td>CMBD</td><td>1170</td><td>500</td></tr> <tr><td>CMBG</td><td>1140</td><td>200</td></tr> <tr><td>CMBS</td><td>770</td><td>150</td></tr> <tr><td>CMBX</td><td>1070</td><td>500</td></tr> <tr><td>CMBY</td><td>970</td><td>150</td></tr> <tr><td>CMBZ</td><td>1000</td><td>500</td></tr> <tr><td>CMC</td><td>1260</td><td>150</td></tr> <tr><td>CMCA</td><td>1350</td><td>450</td></tr> </table>	YUCATAN			Merida			XEBJ	1160	20	XEFC	550	100	XEZ	630	500	CUBA			Caibarien			CMHD	1270	250	Camaguey			CMJA	1010	300	CMJC	1390	150	CMJE	1220	50	CMJF	1150	200	CMJK	780	250	CMJL	1340	75	CMJX	830	500	Cardenas			CMGE	1370	150	Ciego de Avila			CMJH	1360	50	CMJI	1130	150	CMJO	1180	50	Cienfuegos			CMHJ	1160	175	CMHM	1450	100	CMHW	820	100	CMHX	760	200	Cruces			CMHK	1330	250	Havana			CMBC	630	...	CMBD	1170	500	CMBG	1140	200	CMBS	770	150	CMBX	1070	500	CMBY	970	150	CMBZ	1000	500	CMC	1260	150	CMCA	1350	450	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>CMGB</td><td>640</td><td>150</td></tr> <tr><td>CMGD</td><td>950</td><td>250</td></tr> <tr><td>CMGF</td><td>810</td><td>600</td></tr> <tr><td>CMGG</td><td>680</td><td>1000</td></tr> <tr><td>CMGJ</td><td>1100</td><td>500</td></tr> <tr><td>CMCM</td><td>850</td><td>...</td></tr> <tr><td>CMCO</td><td>1200</td><td>250</td></tr> <tr><td>CMCQ</td><td>1410</td><td>250</td></tr> <tr><td>CMCU</td><td>1280</td><td>500</td></tr> <tr><td>CMCV</td><td>750</td><td>150</td></tr> <tr><td>CMCX</td><td>1030</td><td>150</td></tr> <tr><td>CMCY</td><td>570</td><td>5000</td></tr> <tr><td>CMK</td><td>730</td><td>3000</td></tr> <tr><td>CMOA</td><td>1440</td><td>150</td></tr> <tr><td>CMOX</td><td>1320</td><td>200</td></tr> <tr><td>CMO</td><td>880</td><td>2500</td></tr> <tr><td>CMW</td><td>600</td><td>1400</td></tr> <tr><td>CMX</td><td>920</td><td>1000</td></tr> <tr><td colspan="3" style="text-align: center;">Holguin</td></tr> <tr><td>CMFK</td><td>1460</td><td>250</td></tr> <tr><td>CMKO</td><td>1280</td><td>...</td></tr> <tr><td colspan="3" style="text-align: center;">Manzanillo</td></tr> <tr><td>CMKM</td><td>1120</td><td>200</td></tr> <tr><td colspan="3" style="text-align: center;">Matanzas</td></tr> <tr><td>CMGC</td><td>1400</td><td>150</td></tr> <tr><td>CMGF</td><td>977</td><td>100</td></tr> <tr><td>CMGH</td><td>790</td><td>500</td></tr> <tr><td colspan="3" style="text-align: center;">Moron</td></tr> <tr><td>CMJP</td><td>1430</td><td>75</td></tr> <tr><td colspan="3" style="text-align: center;">Pinar del Rio</td></tr> <tr><td>CMAB</td><td>1340</td><td>...</td></tr> <tr><td colspan="3" style="text-align: center;">Sagua la Grande</td></tr> <tr><td>CMHA</td><td>1070</td><td>50</td></tr> <tr><td colspan="3" style="text-align: center;">Sancti Spiritus</td></tr> <tr><td>CMHB</td><td>1240</td><td>50</td></tr> <tr><td colspan="3" style="text-align: center;">Santa Clara</td></tr> <tr><td>CMHI</td><td>1210</td><td>150</td></tr> <tr><td colspan="3" style="text-align: center;">Santiago</td></tr> <tr><td>CMKC</td><td>1250</td><td>150</td></tr> <tr><td>CMKD</td><td>1050</td><td>250</td></tr> <tr><td>CMKG</td><td>1160</td><td>...</td></tr> <tr><td>CMKR</td><td>1400</td><td>100</td></tr> <tr><td>CMKW</td><td>1350</td><td>...</td></tr> <tr><td>CMKX</td><td>1190</td><td>...</td></tr> </table>	CMGB	640	150	CMGD	950	250	CMGF	810	600	CMGG	680	1000	CMGJ	1100	500	CMCM	850	...	CMCO	1200	250	CMCQ	1410	250	CMCU	1280	500	CMCV	750	150	CMCX	1030	150	CMCY	570	5000	CMK	730	3000	CMOA	1440	150	CMOX	1320	200	CMO	880	2500	CMW	600	1400	CMX	920	1000	Holguin			CMFK	1460	250	CMKO	1280	...	Manzanillo			CMKM	1120	200	Matanzas			CMGC	1400	150	CMGF	977	100	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	...
XEW	890	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																													
KEYO	940	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Tacuba																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEFA	1180	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DURANGO																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Durango																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEE	1210	50																																																																																																																																																																																																																																																																																																																																																																																																																																																													
GUANAJUATO																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Leon																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEKL	1240	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
JALISCO																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Guadalajara																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEAD	1060	125																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XED	1160	2500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Guzman																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEBA	1080	20																																																																																																																																																																																																																																																																																																																																																																																																																																																													
MICHOACAN																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Morelia																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEI	1370	125																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NUEVO LEON																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Monterrey																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEFB	870	200																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEFJ	1230	100																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEH	720	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XET	690	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEX	1310	125																																																																																																																																																																																																																																																																																																																																																																																																																																																													
PUEBLA																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Puebla																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XETH	1210	100																																																																																																																																																																																																																																																																																																																																																																																																																																																													
SAN LUIS POTOSI																																																																																																																																																																																																																																																																																																																																																																																																																																																															
San Luis Potosi																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XECZ	1370	100																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEXH	1250	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
SINALOA																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Mazatlan																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEBL	1220	50																																																																																																																																																																																																																																																																																																																																																																																																																																																													
SONORA																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Hermosillo																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEBH	930	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Nogales																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEAF	990	750																																																																																																																																																																																																																																																																																																																																																																																																																																																													
TAMAULIPAS																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Matamoros																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEAM	750	25																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Nuevo Laredo																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEBK	1000	100																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEDF	810	75																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEFE	980	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XENT	910	150000																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Reynosa																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEAW	960	50000																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Tampico																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEFW	1310	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XES	990	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
VERACRUZ																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Cordoba																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEAG	1310	10																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Jalapa																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEXB	1270	50																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEXD	1340	350																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Minatitlan																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEDW	1150	20																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Veracruz																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XETF	1220	30																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEU	1010	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
YUCATAN																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Merida																																																																																																																																																																																																																																																																																																																																																																																																																																																															
XEBJ	1160	20																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEFC	550	100																																																																																																																																																																																																																																																																																																																																																																																																																																																													
XEZ	630	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CUBA																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Caibarien																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMHD	1270	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Camaguey																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMJA	1010	300																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMJC	1390	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMJE	1220	50																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMJF	1150	200																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMJK	780	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMJL	1340	75																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMJX	830	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Cardenas																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMGE	1370	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Ciego de Avila																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMJH	1360	50																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMJI	1130	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMJO	1180	50																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Cienfuegos																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMHJ	1160	175																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMHM	1450	100																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMHW	820	100																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMHX	760	200																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Cruces																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMHK	1330	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Havana																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMBC	630	...																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMBD	1170	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMBG	1140	200																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMBS	770	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMBX	1070	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMBY	970	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMBZ	1000	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMC	1260	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMCA	1350	450																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMGB	640	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMGD	950	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMGF	810	600																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMGG	680	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMGJ	1100	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMCM	850	...																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMCO	1200	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMCQ	1410	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMCU	1280	500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMCV	750	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMCX	1030	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMCY	570	5000																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMK	730	3000																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMOA	1440	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMOX	1320	200																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMO	880	2500																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMW	600	1400																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMX	920	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Holguin																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMFK	1460	250																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMKO	1280	...																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Manzanillo																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMKM	1120	200																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Matanzas																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CMGC	1400	150																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CMGF	977	100																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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	...																																																																																																																																																																																																																																																																																																																																																																																																																																																													

Tom Howard, who loves to argue with George Shelton to the delight of NBC listeners, was a grocery clerk in Philadelphia when circumstances made a comedian of him. At the slightest encouragement from customers, Tom would recite "The Face on the Barroom Floor," giving all 25 verses unless restrained. Finally, fired by his exasperated employer for persistence in this practice, Howard bobbed up in vaudeville as the "boob" comedian, forcibly

launched upon his career as an entertainer.

Robert L. Ripley's fame is based on his fascinating "believe-it-or-nots," but originally he was a comic artist. He was 14 and still living in his home town of Santa Rosa, Cal., when he sold his first drawing. Depicting a homely girl turning a clothes wringer and captioned "The Village Belle Was Slowly Ringing," it was purchased by Life, the humorous weekly, for \$8.

Next month we will show the names of owners and the mailing addresses of all the North American Radio Stations.

NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930 100	CJKL 1310 100	CMBD 1170 500
Calgary, Alta.	Kirkland Lake, Ont.	Havana, Cuba
CFCF 600 500	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	CMCZ 1000 500
Victoria, B. C.	Regina, Sask.	Havana, Cuba
CFCY 630 1000	CKAC 730 5000	CMC 1260 150
Charlottetown, P.E.I.	Montreal, Que.	Havana, Cuba
CFJC 880 100	CKBI 1210 100	CMCA 1350 450
Kamloops, B. C.	Prince Albert, Sask.	Havana, Cuba
CFLC 930 100	CKCD 1010 100	CMCB 640 150
Prescott, Ont.	Vancouver, B. C.	Havana, Cuba
CFNB 550 500	CKCH 1210 100	CMCD 950 250
Fredericton, N. B.	Hull, Que.	Havana, Cuba
CFPL 730 100	CKCK 1010 1000	CMCF 810 600
London, Ont.	Regina, Sask.	Havana, Cuba
CFPR 580 50	CKCL 580 100	CMCG 680 1000
Prince Rupert, B. C.	Toronto, Ont.	Havana, Cuba
CFQC 840 1000	CKCO 1010 100	CMCJ 1100 500
Saskatoon, Sask.	Ottawa, Ont.	Havana, Cuba
CFRB 690 10000	CKCR 1510 100	CMCM 850
Toronto, Ont.	Waterloo, Ont.	Havana, Cuba
CFRC 1510 100	CKCV 1310 100	CMCO 1200 250
Kingston, Ont.	Quebec, Que.	Havana, Cuba
CFRN 960 100	CKCW 1370 100	CMCQ 1410 250
Edmonton, Alta.	Moncton, N. B.	Havana, Cuba
CHAB 1200 100	CKFC 1410 50	CMCU 1280 500
Moose Jaw, Sask.	Vancouver, B. C.	Havana, Cuba
CHCK 1310 50	CKGB 1420 100	CMCW 750 150
Charlottetown, P.E.I.	Timmins, Ont.	Havana, Cuba
CHGS 1450 50	CKIC 1010 50	CMCX 1030 150
Summerside, P.E.I.	Wolfville, N. S.	Havana, Cuba
CHLP 1120 100	CKLW 1030 5000	CMCY 570 5000
Montreal, Que.	Windsor, Ont.	Havana, Cuba
CHLT 1210 100	CKMC 1210 50	CMGC 1400 150
Sherbrooke, P. Q.	Cobalt, Ont.	Matanzas, Cuba
CHML 1010 100	CKMO 1410 100	CMGE 1370 150
Hamilton, Ont.	Vancouver, B. C.	Cardenas, Cuba
CHNC 960 1000	CKNX 1200 50	CMGF 977 100
New Carlisle, Que.	Wingham, Ont.	Matanzas, Cuba
CHNS 930 1000	CKOC 1120 500	CMGH 790 500
Halifax, N. S.	Hamilton, Ont.	Matanzas, Cuba
CHRC 580 100	CKOV 630 100	CMHA 1070 50
Quebec, Que.	Kelowna, B. C.	Sagua la Grande, Cuba
CHSJ 1120 500	CKPC 930 100	CMHB 1240 50
St. John, N. B.	Brantford, Ont.	Sancti Spiritus, Cuba
CHWK 780 100	CKPR 730 100	CMHD 1270 250
Chilliwack, B. C.	Fort William, Ont.	Caribbean, Cuba
CJAT 910 1000	CKSO 780 1000	CMHI 1210 150
Trall, B. C.	Sudbury, Ont.	Santa Clara, Cuba
CJCA 730 1000	CKTB 1200 100	CMHJ 1160 175
Edmonton, Alta.	St. Catharines, Ont.	Cienfuegos, Cuba
CJCB 1240 1000	CKUA 580 500	CMHK 1330 250
Sydney, N. S.	Edmonton, Alta.	Cruces, Cuba
CJCJ 690 100	CKWX 1010 100	CMHM 1450 100
Calgary, Alta.	Vancouver, B. C.	Cienfuegos, Cuba
CJCS 1210 50	CKX 1120 1000	CMHW 820 100
Stratford, Ont.	Brandon, Man.	Cienfuegos, Cuba
CJCU 1210 50	CKY 910 15000	CMHX 760 200
Aklavik, N. W. T.	Winnipeg, Man.	Cienfuegos, Cuba
CJGX 1390 100	CMAB 1340 300	CMJA 1010 300
Yorkton, Sask.	Pinar del Rio, Cuba	Camaguey, Cuba
CJIC 1500 100	CMBC 630	CMJC 1390 150
S. Ste. Marie, Ont.	Havana, Cuba	Camaguey, Cuba

NORTH AMERICAN B. C. STATIONS BY CALLS

CMJE 1220 50 Camaguey, Cuba	KALB 1210 100 Alexandria, La.	KEUB 1420 100 Price, Utah
CMJF 1150 200 Camaguey, Cuba	KALE 1300 500 Portland, Ore.	KEX 1180 5000 Portland, Ore.
CMJH 1360 50 Ciego de Avila, Cuba	KAND 1310 100 Corsicana, Texas	KFAB 770 10000 Lincoln, Neb.
CMJI 1130 150 Ciego de Avila, Cuba	KANS 1210 100 Wichita, Kans.	KFAC 1300 1000 Los Angeles, Calif.
CMJK 780 250 Camaguey, Cuba	KARK 890 500 Little Rock, Ark.	KFAM 1420 100 St. Cloud, Minn.
CMJL 1340 75 Camaguey, Cuba	KARM 1310 100 Fresno, Calif.	KFBB 1280 1000 Great Falls, Mont.
CMJO 1180 50 Ciego de Avila, Cuba	KASA 1210 100 Elk City, Okla.	KFBI 1050 5000 Abilene, Kans.
CMJP 1430 75 Camaguey, Cuba	KAST 1370 100 Astoria, Ore.	KFBK 1490 5000 Sacramento, Calif.
CMJX 830 500 Camaguey, Cuba	KATE 1420 250 Albert Lea, Minn.	KFDM 560 500 Beaumont, Texas
CMK 730 3000 Havana, Cuba	KAWM 1500 100 Gallup, N. Mex.	KFDY 780 1000 Brookings, S. D.
CMKC 1250 150 Santiago, Cuba	KBIX 1500 100 Muskogee, Okla.	KFEL 920 500 Denver, Colo.
CMKD 1050 250 Santiago, Cuba	KBPS 1420 100 Portland, Ore.	KFEQ 680 2500 St. Joseph, Mo.
CMKF 1460 250 Holguin, Cuba	KBST 1500 100 Big Spring, Texas	KFGQ 1370 100 Boone, Iowa
CMKG 1160 Santiago, Cuba	KBTM 1200 100 Jonesboro, Ark.	KFH 1300 1000 Wichita, Kans.
CMKM 1120 200 Manzanillo, Cuba	KCKN 1310 100 Kansas City, Kans.	KFI 640 50000 Los Angeles, Calif.
CMKO 1280 Holguin, Cuba	KCMC 1420 100 Texarkana, Texas	KFIO 1120 100 Spokane, Wash.
CMKR 1400 100 Santiago, Cuba	KCMO 1370 100 Kansas City, Mo.	KFIZ 1420 100 Fond du Lac, Wis.
CMKW 1350 Santiago, Cuba	KCRC 1360 250 Enid, Okla.	KFJB 1200 100 Marshalltown, Iowa
CMKX 1190 Santiago, Cuba	KCRJ 1310 100 Jerome, Ariz.	KFJI 1210 100 Klamath Falls, Ore.
CMOA 1440 150 Havana, Cuba	KDAL 1500 100 Duluth, Minn.	KFJM 1410 500 Grand Forks, N. D.
CMOX 1320 200 Havana, Cuba	KDB 1500 100 Santa Barbara, Calif.	KFJZ 1370 100 Fort Worth, Texas
CMQ 880 2500 Havana, Cuba	KDFN 1440 500 Casper, Wyo.	KFKA 880 500 Greeley, Colo.
CMW 600 1400 Havana, Cuba	KDKA 980 50000 Pittsburgh, Pa.	KFKU 1220 1000 Lawrence, Kans.
CMX 920 1000 Havana, Cuba	KDLR 1210 100 Devils Lake, N. D.	KFNF 890 500 Shenandoah, Iowa
CRCK 1050 1000 Quebec, Que.	KDNC 1200 100 Lewistown, Mont.	KFOR 1210 100 Lincoln, Neb.
CRCM 910 5000 Montreal, Que.	KDON 1210 100 Monterrey, Calif.	KFOX 1250 1000 Long Beach, Calif.
CRCO 880 1000 Ottawa, Ont.	KDTH 1340 500 Dubuque, Iowa	KFPL 1310 100 Dublin, Texas
CRCS 950 100 Chicoutimi, Que.	KDYL 1290 1000 Salt Lake City, Utah	KFPW 1210 100 Fort Smith, Ark.
CRCT 840 5000 Toronto, Ont.	KECA 1430 1000 Los Angeles, Calif.	KFPY 890 1000 Spokane, Wash.
CRCV 1180 5000 Vancouver, B. C.	KEEN 1370 100 Seattle, Wash.	KFQD 780 250 Anchorage, Alaska
CRCW 600 500 Windsor, Ont.	KEHE 780 1000 Los Angeles, Calif.	KFRG 610 1000 San Francisco, Calif.
CRCY 1420 100 Toronto, Ont.	KELA 1440 500 Centralla, Wash.	KFRO 1370 250 Longview, Texas
KABC 1420 100 San Antonio, Texas	KELD 1370 100 El Dorado, Ark.	KFRU 630 500 Columbia, Mo.
KABR 1420 100 Aberdeen, S. Dak.	KELO 1200 100 Sioux Falls, S. Dak.	KFSD 600 1000 San Diego, Calif.
KADA 1200 100 Ada, Okla.	KERN 1370 100 Bakersfield, Calif.	KFSG 1120 500 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 850 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
Grand 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	KLCN 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.
BGA 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	KGQ 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 1200 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	KHBG 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
KallsPELL, 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.	Bolse, 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	KTGC 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	KTRI 1420 Stoux City, Iowa	100
KOL 1270 Seattle, Wash.	1000	KRNT 1320 Des Moines, Iowa	1000	KTSA 550 San Antonio, Texas	1000
KOMA 1480 Oklahoma City, Okla.	5000	KROC 1310 Rochester, Minn.	100	KTSM 1310 El Paso, Texas	100
KOMO 920 Seattle, Wash.	1000	KROD 1500 El Paso, Texas	100	KTUL 1400 Tulsa, Okla.	500
KONO 1370 San Antonio, Texas	100	KROW 930 Oakland, Calif.	1000	KTW 1220 Seattle, Wash.	1000
KOOS 1200 Marshfield, Ore.	100	KROY 1210 Sacramento, Calif.	100	KUJ 1370 Walla Walla, Wash.	100
KORE 1420 Eugene, Ore.	100	KRQA 1310 Santa Fe, N. Mex.	100	KUMA 1420 Yuma, Ariz.	100
KOTN 1500 Pine Bluff, Ark.	100	KRRV 1310 Sherman, Texas	250	KUOA 1260 Sloan Springs, Ark.	2500
KOVC 1500 Valley City, N. Dak.	100	KRSC 1120 Seattle, Wash.	250	KUSD 890 Vermillion, S. Dak.	500
KOY 1390 Phoenix, Ariz.	1000	KSAC 580 Manhattan, Kans.	500	KUTA 1500 Salt Lake City, Utah	100
KPAC 1260 Port Arthur, Texas	500	KSAL 1500 Salina, Kans.	100	KVCV 1200 Redding, Calif.	100
KPDN 1310 Pampa, Texas	100	KSCJ 1330 Sioux City, Iowa	1000	KVEC 1200 San Luis Obispo, Cal.	250
KPFA 1210 Helena, Mont.	100	KSD 550 St. Louis, Mo.	1000	KVGE 1370 Great Bend, Kans.	100
KPLC 1500 Lake Charles, La.	100	KSEI 900 Pocatello, Idaho	250	KVI 570 Tacoma, Wash.	1000
KPLT 1500 Paris, Texas	100	KSFO 560 San Francisco, Calif.	1000	KVOA 1260 Tucson, Ariz.	1000
KPMC 1550 Bakersfield, Calif.	1000	KSL 1130 Salt Lake City, Utah	50000	KVOD 920 Denver, Colo.	500
KPO 680 San Francisco, Calif.	50000	KSLM 1370 Salem, Ore.	100	KVOE 1500 Santa Ana, Calif.	100
KPOF 880 Denver, Colo.	500	KSO 1430 Des Moines, Iowa	500	KVOL 1310 Lafayette, La.	100
KPPC 1210 Pasadena, Calif.	100	KSOO 1110 Sioux Falls, S. Dak.	2500	KVOO 1140 Tulsa, Okla.	25000
KPQ 1500 Wenatchee, Wash.	100	KSRO 1310 Santa Rosa, Calif.	250	KVOR 1270 Colorado Springs, Colo.	1000
KPRC 920 Houston, Texas	1000	KSTP 1460 St. Paul, Minn.	10000	KVOS 1200 Bellingham, Wash.	100
KQV 1380 Pittsburgh, Pa.	500	KSUB 1310 Cedar City, Utah	100	KVOX 1310 Moorhead, Minn.	100
KQW 1010 San Jose, Calif.	1000	KSUN 1200 Lowell, Ariz.	100	KVSO 1210 Ardmore, Okla.	100
KRBA 1310 Lufkin, Texas	100	KTAR 620 Phoenix, Ariz.	1000	KWBG 1420 Hutchinson, Kans.	100
KRBC 1420 Abilene, Texas	100	KTAT 1240 Fort Worth, Texas	1000	KWG 1200 Stockton, Calif.	100
KRE 1370 Berkeley, Calif.	100	KTBC 1120 Austin, Texas	1000	KWJJ 1040 Portland, Ore.	500
KRGV 1260 Westaco, Texas	1000	KTBS 1450 Shreveport, La.	1000	KWK 1350 St. Louis, Mo.	1000
KRIS 1330 Corpus Christi, Tex.	500	KTEM 1370 Temple, 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	WAIR 1250	250	WBNY 1370	100
Jefferson City, Mo.		Winston-Salem, N. C.		Buffalo, N. Y.	
KWSC 1220	1000	WALA 1380	500	WBOQ 860	50800
Pullman, Wash.		Mobile, Ala.		New York, N. Y.	
KWTN 1210	100	WALR 1210	100	WBOW 1310	100
Watertown, S. Dak.		Zanesville, Ohio		Terre Haute, Ind.	
KWTO 560	5000	WAML 1310	100	WBRE 1210	100
Springfield, Mo.		Laurel, Miss.		Red Bank, N. J.	
KWYO 1370	100	WAPI 1140	5000	WBRC 930	1000
Sheridan, Wyo.		Birmingham, Ala.		Birmingham, Ala.	
KXA 760	250	WAPQ 1420	100	WBRE 1310	100
Seattle, Wash.		Chattanooga, Tenn.		Wilkes-Barre, Pa.	
KXBY 1530	1000	WASH 1270	500	WBRR 1310	100
Kansas City, Mo.		Grand Rapids, Mich.		Pittsfield, Mass.	
KXL 1420	100	WATL 1370	100	WBRY 1530	1000
Portland, Ore.		Atlanta, Ga.		Waterbury, Conn.	
KXO 1500	100	WATR 1190	100	WBT 1080	50000
El Centro, Calif.		Waterbury, Conn.		Charlotte, N. C.	
KXRO 1310	100	WAVE 940	1000	WBTM 1370	100
Aberdeen, Wash.		Louisville, Ky.		Danville, Va.	
KXYZ 1440	1000	WAWZ 1350	500	WBZ 990	50000
Houston, Texas		Zarephath, N. J.		Boston, Mass.	
KYA 1230	1000	WAYX 1200	100	WBZA 990	1000
San Francisco, Calif.		Waycross, Ga.		Springfield, Mass.	
KYOS 1040	250	WAZL 1420	100	WCAD 1220	500
Merced, Calif.		Hazleton, Pa.		Canton, N. Y.	
KYW 1020	10000	WBAA 890	500	WCAE 1220	1000
Philadelphia, Pa.		West Lafayette, Ind.		Pittsburgh, Pa.	
VAS 685	2000	WBAL 760	2500	WCAL 1250	1000
Glace Bay, N. S.		Baltimore, Md.		Northfield, Minn.	
VOAC 1065	40	WBAL 1060	10000	WCAM 1280	500
St. John's, Nfld.		Baltimore, Md.		Camden, N. J.	
VOAS 940	100	WBAP 800	50000	WCAO 600	500
St. John's, Nfld.		Fort Worth, Texas		Baltimore, Md.	
VOCM 1006	200	WBAX 1210	100	WCAP 1280	500
St. John's, Nfld.		Wilkes-Barre, Pa.		Asbury Park, N. J.	
VOGY 840	400	WBBC 1400	500	WCAT 1200	100
St. John's, Nfld.		Brooklyn, N. Y.		Rapid City, S. Dak.	
VONF 1195	500	WBBL 1210	100	WCAU 1170	50000
St. John's, Nfld.		Richmond, Va.		Philadelphia, Pa.	
VOWR 681	500	WBMM 770	50000	WCAX 1200	100
St. John's, Nfld.		Chicago, Ill.		Burlington, Vt.	
WAAB 1410	500	WBRR 1300	1000	WCAY 1070	100
Boston, Mass.		Brooklyn, N. Y.		Carthage, Ill.	
WAAF 920	1000	WBBZ 1200	100	WCBA 1440	500
Chicago, Ill.		Ponca City, Okla.		Allentown, Pa.	
WAAT 940	500	WBCM 1410	500	WCBD 1080	5000
Jersey City, N. J.		Bay City, Mich.		Chicago, Ill.	
WAAW 660	500	WBEN 900	1000	WCBM 1370	100
Omaha, Neb.		Buffalo, N. Y.		Baltimore, Md.	
WABC 860	50000	WBEO 1310	100	WCBS 1420	100
New York, N. Y.		Marquette, Mich.		Springfield, Ill.	
WABI 1200	100	WBHP 1200	100	WCCO 810	50000
Bangor, Maine		Huntsville, Ala.		Minneapolis, Minn.	
WABY 1370	100	WBIG 1440	1000	WCFL 970	5000
Albany, N. Y.		Greensboro, N. C.		Chicago, Ill.	
WACO 1420	100	WBIL 1100	5000	WCHS 580	500
Waco, Texas		New York, N. Y.		Charleston, W. Va.	
WADC 1320	1000	WBLK 1370	100	WCHV 1420	100
Akron, Ohio		Clarksburg, W. Va.		Charlottesville, Va.	
WAGA 1450	500	WBLY 1210	100	WCKY 1490	10000
Atlanta, Ga.		Lima, Ohio		Covington, Ky.	
WAGF 1370	250	WBNO 1200	100	WCLO 1200	100
Dothan, Ala.		New Orleans, La.		Janesville, Wis.	
WAGM 1420	100	WBNS 1430	500	WCLS 1310	100
Presque Isle, Me.		Columbus, Ohio		Joliet, Ill.	
WAIM 1200	100	WBNX 1350	1000	WCMI 1310	100
Anderson, S. C.		New York, N. Y.		Ashland, Ky.	
				WCNW 1500	100
				Brooklyn, N. Y.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WCOA 1340 Pensacola, Fla.	500	WEEU 830 Reading, Pa.	1000	WGCM 1210 Gulfport, Miss.	100
WCOC 880 Moridian, Miss.	500	WELI 900 New Haven, Conn.	500	WGES 1360 Chicago, Ill.	500
WCOL 1210 Columbus, Ohio	100	WELL 1420 Battle Creek, Mich.	100	WGH 1310 Newport News, Va.	100
WCOP 1120 Boston, Mass.	500	WEMP 1310 Milwaukee, Wis.	100	WGL 1370 Fort Wayne, Ind.	100
WCPO 1200 Cincinnati, Ohio	100	WENR 870 Chicago, Ill.	50000	WGN 720 Chicago, Ill.	50000
WCRW 1210 Chicago, Ill.	100	WEOA 1370 Evansville, Ind.	100	WGNV 1210 Newburgh, N. Y.	100
WCSC 1360 Charleston, S. C.	500	WESG 850 Elmira, N. Y.	1000	WGPC 1420 Albany, Ga.	100
WCSH 940 Portland, Me.	1000	WEST 1200 Easton, Pa.	100	WGR 550 Buffalo, N. Y.	1000
WDAE 1220 Tampa, Fla.	1000	WEVD 1300 New York, N. Y.	1000	WGRC 1370 New Albany, Ind.	250
WDAF 610 Kansas City, Mo.	1000	WEW 760 St. Louis, Mo.	1000	WGST 890 Atlanta, Ga.	1000
WDAH 1310 El Paso, Texas	100	WEXL 1310 Royal Oak, Mich.	50	WGTM 1310 Wilson, N. C.	100
WDAS 1370 Philadelphia, Pa.	100	WFAA 800 Dallas, Texas	50000	WGVA 1050 Indianapolis, Ind.	1000
WDAY 940 Fargo, N. Dak.	1000	WFAB 1300 New York, N. Y.	1000	WGY 790 Schenectady, N. Y.	50000
WDBJ 930 Roanoke, Va.	1000	WFAM 1200 South Bend, Ind.	100	WHA 940 Madison, Wis.	5000
WDBO 580 Orlando, Fla.	1000	WFAS 1210 White Plains, N. Y.	100	WHAL 950 Saginaw, Mich.	500
WDEL 1120 Wilmington, Del.	250	WFBC 1300 Greenville, S. C.	1000	WHAM 1150 Rochester, N. Y.	50000
WDEV 550 Waterbury, Vt.	500	WFBG 1310 Altoona, Pa.	100	WHAS 820 Louisville, Ky.	50000
WDGY 1180 Minneapolis, Minn.	1000	WFBL 1360 Syracuse, N. Y.	1000	WHAT 1310 Philadelphia, Pa.	100
WDNC 1500 Durham, N. C.	100	WFBM 1236 Indianapolis, Ind.	1000	WHAZ 1300 Troy, N. Y.	500
WDD 1280 Chatanooga, Tenn.	1000	WFBR 1270 Baltimore, Md.	500	WHB 860 Kansas City, Mo.	1000
WDRC 1330 Hartford, Conn.	1000	WFDF 1310 Flint, Mich.	100	WHBB 1500 Selma, Ala.	100
WDSM 1200 Superior, Wis.	100	WFEA 1340 Manchester, N. H.	500	WHBC 1200 Canton, Ohio	100
WDSU 1250 New Orleans, La.	1000	WFIL 560 Philadelphia, Pa.	1000	WHBF 1210 Rock Island, Ill.	100
WDWS 1370 Champaign, Ill.	100	WFLA 620 Clearwater, Fla.	1000	WHBI 1250 Newark, N. J.	1000
WDZ 1020 Tuscola, Ill.	250	WFMD 900 Frederick, Md.	500	WHBL 1300 Sheboygan, Wis.	250
WEAF 660 New York, N. Y.	50000	WFOR 1370 Hattiesburg, Miss.	100	WHBQ 1370 Memphis, Tenn.	100
WEAN 780 Providence, R. I.	1000	WFOY 1210 St. Augustine, Fla.	100	WHBU 1210 Anderson, Ind.	100
WEAU 1050 Eau Claire, Wis.	1000	WFTC 1200 Kinston, N. C.	100	WHBY 1200 Green Bay, Wis.	100
WEBC 1290 Duluth, Minn.	1000	WGAL 1500 Lancaster, Pa.	100	WHDF 1370 Calumet, Mich.	100
WEBQ 1210 Harrisburg, Ill.	100	WGAN 640 Portland, Me.	500	WHDH 830 Boston, Mass.	1000
WEBR 1310 Buffalo, N. Y.	100	WGAR 1450 Cleveland, Ohio	500	WHDL 1400 Olean, N. Y.	250
WEDC 1210 Chicago, Ill.	100	WGBB 1210 Freeport, N. Y.	100	WHB 740 Portsmouth, N. H.	250
WEED 1420 Rocky Mount, N. C.	100	WGBF 630 Evansville, Ind.	500	WHCC 1430 Rochester, N. Y.	500
WEEI 590 Boston, Mass.	1000	WGBI 880 Scranton, Pa.	500	WHEF 1500 Kosciusko, Miss.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

WHFC 1420	100	WJAX 900	1000	WKY 900	1000
Cicero, Ill.		Jacksonville, Fla.		Oklahoma City, Okla.	
WHIO 1260	1000	WJAY 610	500	WKZO 590	1000
Dayton, Ohio		Cleveland, Ohio		Kalamazoo, Mich.	
WHIP 1480	5000	WJBC 1200	100	WLAC 1470	5000
Hammond, Ind.		Bloomington, Ill.		Nashville, Tenn.	
WHIS 1410	500	WJBK 1500	100	WLAK 1310	100
Bluefield, W. Va.		Detroit, Mich.		Lakeland, Fla.	
WHJB 620	250	WJBL 1200	100	WLAP 1420	100
Greensburg, Pa.		Decatur, Ill.		Lexington, Ky.	
WHK 1390	1000	WJBO 1120	500	WLAW 680	1000
Cleveland, Ohio		Baton Rouge, La.		Lawrence, Mass.	
WHKC 640	500	WJBR 1420	100	WLB 1250	1000
Columbus, Ohio		Gastonia, N. C.		Minneapolis, Minn.	
WHLB 1370	100	WJBW 1200	100	WLCB 1310	100
Virginia, Minn.		New Orleans, La.		Muncie, Ind.	
WHN 1010	1000	WJBY 1210	100	WLBL 900	2500
New York, N. Y.		Gadsden, Ala.		Stevens Point, Wis.	
WHO 1000	50000	WJDX 1270	1000	WLBZ 620	500
Des Moines, Iowa		Jackson, Miss.		Bangor, Me.	
WHOM 1450	250	WJEJ 1210	100	WLEU 1420	100
Jersey City, N. J.		Hagerstown, Md.		Erle, Pa.	
WHP 1430	500	WJIM 1210	100	WLLH 1370	100
Harrisburg, Pa.		Lansing, Mich.		Lowell, Mass.	
WIBA 1280	1000	WJJD 1130	20000	WLMU 1210	100
Madison, Wis.		Chicago, Ill.		Middlesboro, Ky.	
WIBG 970	100	WJMS 1420	100	WLNH 1310	100
Glenside, Pa.		Ironwood, Mich.		Laconia, N. H.	
WIBM 1370	100	WJNO 1200	100	WLS 870	50000
Jackson, Mich.		W. Palm Beach, Fla.		Chicago, Ill.	
WIBU 1210	100	WJR 750	50000	WLVA 1200	100
Poynette, Wis.		Detroit, Mich.		Lynchburg, Va.	
WIBW 580	1000	WJRD 1200	100	WLW 700	500000
Topeka, Kans.		Tuscaloosa, Ala.		Cincinnati, Ohio	
WIBX 1200	100	WJSV 1460	10000	WMAL 630	250
Utica, N. Y.		Washington, D. C.		Washington, D. C.	
WICA 940	250	WJTN 1210	100	WMAQ 670	50000
Ashtabula, Ohio		Jamestown, N. Y.		Chicago, Ill.	
WICC 600	500	WJW 1210	100	WMAS 1420	100
Bridgeport, Conn.		Akron, Ohio		Springfield, Mass.	
WIL 1200	100	WJZ 760	50000	WMAZ 1180	1000
St. Louis, Mo.		New York, N. Y.		Macon, Ga.	
WILL 580	1000	WKAQ 1240	1000	WMBC 1420	100
Urbana, Ill.		San Juan, P. R.		Detroit, Mich.	
WILM 1420	100	WKAR 850	1000	WMBD 1440	500
Wilmington, Del.		East Lansing, Mich.		Peoria, Ill.	
WIND 560	1000	WKAT 1500	100	WMBG 1350	500
Gary, Ind.		Miami Beach, Fla.		Richmond, Va.	
WINS 1180	1000	WKBB 1500	100	WMBH 1420	100
New York, N. Y.		East Dubuque, Ill.		Joplin, Mo.	
WIOD 1300	1000	WKBH 1380	1000	WMBI 1080	5000
Miami, Fla.		LaCrosse, Wis.		Chicago, Ill.	
WIP 610	1000	WKBN 570	500	WMOB 1310	100
Philadelphia, Pa.		Youngstown, Ohio		Auburn, N. Y.	
WIRE 1400	1000	WKBO 1200	100	WMBQ 1500	100
Indianapolis, Ind.		Harrisburg, Pa.		Brooklyn, N. Y.	
WIS 560	1000	WKBV 1500	100	WMBR 1370	100
Columbia, S. C.		Richmond, Ind.		Jacksonville, Fla.	
WISN 1120	250	WKBW 1480	5000	WMSB 1420	250
Milwaukee, Wis.		Buffalo, N. Y.		Unlontown, Pa.	
WJAC 1310	100	WKBZ 1500	100	WMC 780	1000
Johnstown, Pa.		Muskegon, Mich.		Memphis, Tenn.	
WJAG 1060	1000	WKEU 1500	100	WMCB 570	1000
Norfolk, Neb.		Griffin, Ga.		New York, N. Y.	
WJAR 890	1000	WKOK 1210	100	WMEX 1500	100
Providence, R. I.		Sunbury, Pa.		Boston, Mass.	
WJAS 1290	1000	WKRC 550	1000	WMFD 1370	100
Pittsburgh, Pa.		Cincinnati, Ohio		Wilmington, N. C.	
				WMFF 1310	100
				Plattsburg, N. Y.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WMFG 1210	100	WOPF 1500	100	WRNL 880	500
Hibbing, Minn.		Bristol, Tenn.		Richmond, Va.	
WMFJ 1420	100	WOR 710	50000	WROK 1410	500
Daytona Beach, Fla.		Newark, N. J.		Rockford, Ill.	
WMFN 1210	100	WORC 1280	500	WROL 1310	100
Grenada, Miss.		Worcester, Mass.		Knoxville, Tenn.	
WMFO 1370	100	WORK 1320	1000	WRR 1280	500
Decatur, Ala.		York, Pa.		Dallas, Texas	
WMFR 1200	100	WORL 920	500	WRTD 1500	100
High Point, N. C.		Boston, Mass.		Richmond, Va.	
WMIN 1370	100	WOSU 570	750	WRUF 830	5000
St. Paul, Minn.		Columbus, Ohio		Gainesville, Fla.	
WMMN 890	500	WOV 1130	1000	WRVA 1110	5000
Fairmont, W. Va.		New York, N. Y.		Richmond, Va.	
WMPC 1200	100	WOW 590	1000	WSAI 1330	1000
Lapeer, Mich.		Omaha, Neb.		Cincinnati, Ohio	
WMPS 1430	500	WOWO 1160	10000	WSAJ 1310	100
Memphis, Tenn.		Fort Wayne, Ind.		Grove City, Pa.	
WMSD 1420	100	WPAD 1420	100	WSAL 1200	250
Sheffield, Ala.		Paducah, Ky.		Sallsbury, Md.	
WMT 600	1000	WPAR 1420	100	WSAN 1440	500
Cedar Rapids, Iowa		Parkersburg, W. Va.		Allentown, Pa.	
WNAC 1230	1000	WPAX 1210	100	WSAR 1450	1000
Boston, Mass.		Thomasville, Ga.		Fall River, Mass.	
WNAD 1010	1000	WPAY 1370	100	WSAU 1370	100
Norman, Okla.		Portsmouth, Ohio		Wausau, Wis.	
WNAX 570	1000	WPEN 920	1000	WSAY 1210	100
Yankton, S. D.		Philadelphia, Pa.		Rochester, N. Y.	
WNBC 1380	250	WPG 1100	5000	WSAZ 1190	1000
New Britain, Conn.		Atlantic City, N. J.		Huntington, W. Va.	
WNBF 1500	100	WPRA 1370	100	WSB 740	50000
Binghamton, N. Y.		Mayaguez, P. R.		Atlanta, Ga.	
WNBH 1310	100	WPRO 630	500	WSBC 1210	100
New Bedford, Mass.		Providence, R. I.		Chicago, Ill.	
WNBX 1260	1000	WPRP 1420	100	WSBT 1360	500
Springfield, Vt.		Ponce, P. R.		South Bend, Ind.	
WNBZ 1290	100	WPTF 680	1000	WSFA 1410	500
Saranac Lake, N. Y.		Raleigh, N. C.		Montgomery, Ala.	
WNEI 1290	1000	WQAM 560	1000	WSGN 1310	100
San Juan, P. R.		Miami, Fla.		Birmingham, Ala.	
WNEW 1250	1000	WQAN 880	500	WSIX 1210	100
New York, N. Y.		Scranton, Pa.		Nashville, Tenn.	
WNLC 1500	100	WQBC 1360	1000	WSJS 1310	100
New London, Conn.		Vicksburg, Miss.		Winston-Salem, N. C.	3
WNNY 1420	100	WQDM 1390	1000	WSM 650	50000
Watertown, N. Y.		St. Albans, Vt.		Nashville, Tenn.	
WNOX 1010	1000	WQXR 1550	1000	WSMB 1320	1000
Knoxville, Tenn.		New York, N. Y.		New Orleans, La.	
WNYC 810	1000	WRAC 1370	100	WSMK 1380	200
New York, N. Y.		Williamsport, Pa.		Dayton, Ohio	
WOAI 1190	50000	WRAP 1310	100	WSNJ 1210	100
San Antonio, Texas		Reading, Pa.		Bridgeton, N. J.	
WOC 1370	100	WRAX 920	1000	WSOC 1210	100
Davenport, Iowa		Philadelphia, Pa.		Charlotte, N. C.	
WOI 640	5000	WRBL 1200	100	WSPA 920	1000
Ames, Iowa		Columbus, Ga.		Spartanburg, S. C.	
WOKO 1430	500	WRC 950	500	WSPD 1340	1000
Albany, N. Y.		Washington, D. C.		Toledo, Ohio	
WOL 1310	100	WRDO 1370	100	WSPR 1140	500
Washington, D. C.		Augusta, Me.		Springfield, Mass.	
WOLS 1200	100	WRDW 1500	100	WSUI 880	500
Florence, S. C.		Augusta, Ga.		Iowa City, Iowa	
WOMI 1500	100	WREC 600	1000	WSUN 620	1000
Owensboro, Ky.		Memphis, Tenn.		St. Petersburg, Fla.	
WOMT 1210	100	WREN 1220	1000	WSVA 550	500
Manitowoc, Wis.		Lawrence, Kans.		Harrisonburg, Va.	
WOOD 1270	500	WRGA 1500	100	WSV 1370	50
Grand Rapids, Mich.		Rome, Ga.		Buffalo, N. Y.	
		WRJN 1370	100	WSYB 1500	100
		Racine, Wis.		Rutland, Vt.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WSYR 570 1000 Syracuse, N. Y.	XEAG 1310 10 Cordoba, Ver.	XEFV 1210 100 Juarez, Chih.
WTAD 900 1000 Quincy, Ill.	XEAL 660 1000 Mexico City, D. F.	XEFW 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.	XEAO 660 250 Mexicali, B. C.	XEI 1370 125 Morelia, Mich.
WTAM 1070 50000 Cleveland, Ohio	XEAS 1160 50 Saltillo, Coah.	XEJ 1020 1000 Juarez, Chih.
WTAQ 1330 1000 Green Bay, Wis.	XEAT 1210 250 Parral, Chih.	XEJP 1130 100 Mexico City, D. F.
WTAR 780 1000 Norfolk, Va.	XEAW 960 50000 Reynosa, Tams.	XEK 990 100 Mexico City, D. F.
WTAW 1120 500 College Station, Tex.	XEAY 1240 100 Mexico City, D. F.	XEKL 1240 500 Leon, Guan.
WTAX 1210 100 Springfield, Ill.	XEB 1030 10000 Mexico City, D. F.	XEL 780 1000 Mexico City, D. F.
WTBO 800 250 Cumberland, Md.	XEBA 1080 20 Guzman, Jal.	XELA 1240 50 Saltillo, Coah.
WTCN 1250 1000 Minneapolis, Minn.	XEBG 820 1000 Tijuana, B. Cfa.	XELO 1110 50000 Tijuana, B. Cfa.
WTEL 1310 100 Philadelphia, Pa.	XEBH 930 500 Hermosillo, Sonora	XELZ 1370 100 Mexico City, D.F.
WTHT 1200 100 Hartford, Conn.	XEBI 1000 25 Aguascalientes, Ags.	XEMG 1060 100 Atzacapotzalco, D. F.
WTIC 1040 50000 Hartford, Conn.	XEBJ 1160 20 Merida, Yuc.	XEMO 860 5000 Tijuana, L. C.
WTJS 1310 100 Jackson, Tenn.	XEBK 1000 100 Nuevo Laredo, Tams.	XEMX 1280 100 Mexico City, D. F.
WTMJ 620 1000 Milwaukee, Wis.	XEBL 1220 50 Mazatlan, Sn.	XENC 860 50 Mexico City, D. F.
WTMV 1500 100 East St. Louis, Ill.	XEBX 640 250 Sabinas, Coah.	XENT 910 150000 Nuevo Laredo, Tams.
WTNJ 1280 500 Trenton, N. J.	XEBZ 1160 100 Mexico City, D. F.	XEOK 760 2500 Tijuana, L. C.
WTOC 1260 1000 Savannah, Ga.	XEC 1150 100 Tijuana, L. C.	XEP 1160 500 Juarez, Chih.
WTOL 1200 100 Toledo, Ohio	XECW 1310 10 Mexico City, D. F.	XEPN 730 100000 Piedras Negras, Coah.
WTRC 1310 100 Elkhart, Ind.	XECZ 1370 100 San Luis Potosi, S.L.P.	XERA 840 350000 Villa Acuna, Coah.
WVFW 1400 500 Brooklyn, N. Y.	XED 1160 2500 Guadalajara, Jal.	XES 990 250 Tampico, Tams.
WWAE 1200 100 Hammond, Ind.	XEDA 1220 200 Gra. Anaya, D. F.	XET 690 5000 Monterrey, N. L.
WWJ 920 5000 Detroit, Mich.	XEDF 810 75 Nuevo Laredo, Tams.	XETB 1310 125 Torreon, Coah.
WWL 850 10000 New Orleans, La.	XEDP 1080 500 Mexico City, D. F.	XETF 1220 30 Veracruz, Ver.
WWNC 570 1000 Asheville, N. C.	XEDW 1150 20 Minatitlan, Ver.	XETH 1210 100 Puebla, Pue.
WWRL 1500 100 Woodside, N. Y.	XEE 1210 50 Durango, Dgo.	XEU 1010 250 Veracruz, Ver.
WWSW 1500 100 Pittsburgh, Pa.	XEF 1450 100 Juarez, Chih.	XEW 890 50000 Mexico City, D. F.
WWVA 1160 5000 Wheeling, W. Va.	XEFA 1180 500 Tacuba, D. F.	XEX 1310 125 Monterrey, N. L.
WXYZ 1240 1000 Detroit, Mich.	XEFB 870 200 Monterrey, N. L.	XEXB 1270 50 Jalapa, Ver.
W3XJ 1060 100 College Park, Md.	XEFC 550 100 Merida, Yuc.	XEXC 810 350 Aguascalientes, Ags.
WSXO 700 500000 Cincinnati, Ohio	XEFE 980 150 Laredo, Tams.	XEXD 1340 350 Jalapa, Ver.
XEAA 920 200 Mexicali, B. C.	XEFI 1440 250 Chihuahua, Chih.	XEXH 1250 250 San Luis Potosi, S.L.P.
XEAC 980 250 Tijuana, L. C.	XEFJ 1230 100 Monterrey, N. L.	XEXS 1000 100 Portable In Mexico
XEAD 1060 125 Guadalajara, Jal.	XEFO 940 5000 Mexico City, D. F.	XEYO 940 500 Mexico City, D. F.
XEAF 990 750 Nogales, Son.		XEZ 630 500 Merida, Yuc.

Microphonics

Mr. A. Lavoie, Box 4024, Montreal, P. Q., sends information on changes in frequency of several Canadian stations. Effective immediately, CKY Winnipeg moves from 910 to 760. CRCM Montreal changes from 910 to 1050. CRCK Quebec, 1050, goes to 950. CRCS Chicoutimi moves to 1120 from 950 kcs.

The new Vercheres, P. Q. 50 kw station will be CBF on 910 kcs. Broadcasting will commence soon.

Charles J. Correll, the Andy of NBC's Amos 'n' Andy, broadcasts the news that Miss Alyce McLaughlin, of Chicago and Hollywood, became his bride on Sept. 11, at Glendale, Calif. After a week-end honeymoon at Del Monte, near San Francisco, they flew back to Hollywood in time for the Amos 'n' Andy program on Monday, Sept. 13.

Jane Froman and Don Ross, stars on the Summer Jell-O program on NBC, were the principals in one of the first of the radio romances. They met in the studios of Station WLW, Cincinnati, where Miss Froman was a staff soloist. Ross at that time was a partner of Jack Brooks in a harmony act touring the movie circuits; in the course of their peregrinations they played Cincinnati and were invited to broadcast. Soon after his introduction to Jane, Ross dissolved his professional partnership with Brooks and entered into a matrimonial alliance with the lovely lark.

BEGINNINGS: Dr. Frank Black, NBC's general music director, began his musical career as boy so-

prano in the choir of a Philadelphia church. At ten he was playing piano in a nickelodeon . . . Lanny Ross was a student at Yale when he first broadcast as a member of the Jeddo Highlanders, a double quartet . . . Milton J. Cross, originally a church singer, was vocalist at a New York funeral parlor before becoming a broadcaster.

Memos on a Radio City reporter's pad: B. A. Rolfe and his orchestra are making movie shorts. . . . Walter O'Keefe is overwhelmed with written requests from listeners to appear as "Dramateurs" on Town Hall Tonight. His secretary is kept busy advising the applicants that the cast is selected at random from studio audiences and not before hand. . . . Thomas Bennett, composer and arranger who writes the music for the Eugene O'Neill plays, once was an interior decorator.

Heard in the NBC studios: Bob Burns and his new missus, the former Harriet Foster, are now residing in a handsome home the bazoooka virtuoso recently bought in Bel Air, suburb of Los Angeles. . . . D'Artega, conductor of the Jane Froman-Don Ross program, has a trade as well as a profession. He is a practical printer, having learned typesetting while training as a tune-smith.

Hollywood NBC studio pick-ups: Johnny Trotter, conductor of the Kraft Music Hall orchestra, is a bachelor and likes to cook. . . . Henry Hunter, Irene Rich's leading man, served in the same capacity with Miss Rich in Chicago under his real name, Arthur Jacobsen. He became Henry Hunter when he went to Hollywood about a year ago.

At DEADLINE . . .

New Mexican Stations: XEMU Piedras Negras, Coah., 580 kcs; XEJW Mexico City, D. F., 870 kcs; XEBO Irapuato, Guan., 1280 kcs.

KELO Sioux Falls, S. Dak., and KMED Medford, Ore., have joined the National Red and Blue Networks.

Fort de France, Martinique, is coming in very well on 9690 kcs.

The San Salvador station is almost definitely identified as YSN on 11710 kcs.

Australian changes: 7ZL Hobart 600 kcs from 620. 3AR Melbourne now on 620. 4QN Clevedon now on 630. 5SE Mount Gambier now on 1340.

QUICK INDEX TO STATION DATA

North American Broadcast

By Frequencies	Oct. '37	p. 63
By Locations	Oct. '37	p. 80
By Calls	Oct. '37	p. 86
Frequency Checks	Oct. '37	p. 45
Names of Owners	Oct. '37	p. 63
Owners' Addresses	Oct. '36	p. 59
Time on the Air	Dec. '36	p. 59

Shortwaves

Broadcasters, with Time on Air	Oct. '37	p. 59
North American Police	Sept. '37	p. 59
1.6 megs. to 6 megs.	Feb. '37	p. 53
6 megs. to 400 megs.	June '37	p. 50
Owners and Addresses	June '37	p. 50
By Locations	Apr. '37	p. 61
By Calls	Apr. '37	p. 65

Foreign Broadcast

By Frequencies	Dec. '36	p. 43
By Locations	Dec. '36	p. 52
By Calls	Dec. '36	p. 57
Australasia	Apr. '37	p. 60
South America	May '37	p. 60
Europe	June '37	p. 49

Long Waves

By Frequencies	Apr. '36	p. 49
By Locations	Apr. '36	p. 51
By Calls	Apr. '36	p. 52

Miscellaneous

Choosing a Radio	Sept. '37	p. 3
Roster of DX Clubs	Mar. '36	p. 14
Columbia Network Stations	Jan. '37	p. 47
Mutual Network Stations	Feb. '37	p. 16
Canadian Network Stations	Mar. '37	p. 49

INSURE YOUR RADIO ENJOYMENT

SEND THIS BLANK TODAY

The Radex Press
14717 Detroit Ave.,
Cleveland, Ohio:

Enclosed find \$..... for which send me postpaid my choice of your offers as checked below:

Program "slates" 1 for 10c 2 for 15c 4 for 25c

One Radio World Map and Time Converter 25c

One copy of the next RADEX 25c

One year's subscription to RADEX, 10 issues..... \$1.75

Two years \$3.25 Three years..... \$4.75

(If you live in Ohio, add 3% for State Sales Tax. No tax on subscriptions.)

Print Name Plainly.....

Street and Number.....

City and State.....



J. E. SMITH, President
National Radio Institute
Established 1914

I WILL TRAIN YOU TO START A SPARE TIME OR FULL TIME RADIO SERVICE BUSINESS WITHOUT CAPITAL

*Here's
Proof*



**Earned \$50
First Month
in Spare Time**

"I knew nothing about Radio. After four lessons I began servicing Radios, earning \$50 the first month. Last winter I made as high as \$100 a month in spare time."—G. F. WALTON, 808 West Olney Road, Norfolk, Va.

**Own Business
Pays \$300 a
Month**



"I now have my own Radio business which shows three hundred dollars a month profit—thanks again to National Radio." — FRANK T. REESE, 39 N. Felton St., Philadelphia, Penna.



**Get My LESSON on Radio
Servicing Tips FREE**

I'll show that my Training is just what you need to master Radio. My sample lesson text, "Radio Receiver Troubles—Their Cause and Remedy" covers a long list of Radio receiver troubles in A.C., D.C. battery, universal, auto, T.R.F., super-heterodyne, all-wave, and other types of sets, cross-indexed for quick reference. Special sections on receiver check-up, alignment, balancing, neutralizing, testing. Get this lesson Free. Mail the Coupon.

Do you want to make more money? The world wide use of Radio has made many opportunities for you to have a spare time or full time Radio service business of your own. Three out of every four homes in the United States have Radio sets which regularly require repairs, servicing, new tubes, etc. I will train you at home in your spare time to sell, install, service, all types of Radio sets—to start your own Radio business and build it up on money you make in your spare time while learning. Mail coupon for my 64-page book. It's Free—it shows what I have done for others—what I am ready to do for you.

**Many Make \$5, \$10, \$15 a Week Extra
In Spare Time While Learning**

Almost every neighborhood needs a good spare time serviceman. The day you enroll I start sending you Extra Money Job Sheets. They show you how to do Radio repair jobs that you can cash in on quickly. Throughout your training I send you plans and ideas that have made good spare time money—from \$200 to \$500 a year—for hundreds of fellows. I send you special equipment which gives you practical Radio experience—shows you how to conduct experiments and build circuits which illustrate important Radio principles.

**Get Ready Now for Your Own
Radio Business and for Jobs Like These**

Radio broadcasting stations employ engineers, operators, station managers and pay up to \$5,000 a year. Spare time

Radio set servicing pays as much as \$200 to \$500 a year—full time servicing jobs pay as much as \$30, \$50, \$75 a week. Many Radio Experts own their own full time or part time Radio businesses. Radio manufacturers and jobbers employ testers, inspectors, foremen, engineers, service men, paying up to \$6,000 a year. Radio operators on ships get good pay, see the world besides. Automobile, police, aviation, commercial Radio, loud speaker systems offer good opportunities. Television promises many good jobs soon. Men I have trained at home hold good jobs in these branches of Radio.

Find Out What Radio Offers You

Mail the coupon now for my Free Lesson and my book, "Rich Rewards in Radio." Both are free to anyone over 16 years old. My book points out Radio's spare time and full time opportunities and those coming in Television; tells about my Training in Radio and Television; shows you letters from men I have trained, telling what they are doing and earning; tells about my money back agreement. MAIL THE COUPON in an envelope, or paste it on a penny post card—NOW!

**J. E. SMITH,
President
National Radio
Institute,
Dept. 7KO
Washington,
D.C.**



**GOOD FOR BOTH 64 PAGE BOOK FREE
SAMPLE LESSON FREE**

**J. E. SMITH, President, Dept. 7KO
National Radio Institute, Washington, D. C.**

Dear Mr. Smith: Without obligating me, send your sample lesson and the book which tells about spare time and full time Radio opportunities, and how I can train for them at home in spare time.
(Please write plainly.)

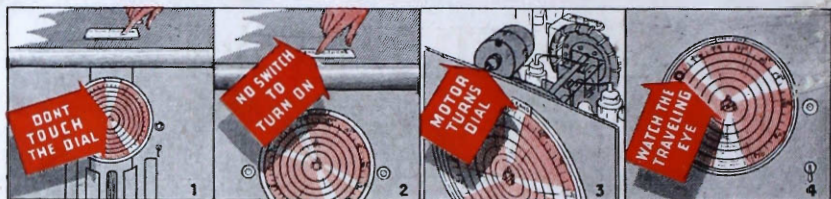
Name Age

Address

City State

JUST TOUCH BUTTON

LATEST 18-TUBE MIDWEST TUNES ITSELF BY ELECTRIC MOTOR!



Only MIDWEST'S Direct-From-Factory Policy Makes This And Other Sensational Features Possible At Amazingly Low Prices!

"The sensation of the radio world" . . . that's what experts said when they saw the amazing new 1938 MOTORIZED Midwest. No more dial twiddling—no more squinting! Now, you can enjoy the luxury of radio at its best—you can tune your Midwest by merely touching a button! You'll be astounded at the lightning-like motorized action—just touch a button (on top of the radio) . . . and its corresponding station zips in.

Zip . . . Zip . . . Zip . . . you can bring in 9 perfectly tuned stations in 3 seconds! All this happens in $\frac{1}{2}$ second with Midwest Perfected Motorized Tuning: (See above illustration). (1-2) You touch button; (3) Electric motor speeds dial towards corresponding station; (4) Colorful Bull's Eye darts across dial and locates itself behind station; (5) Dial stops itself at the station's exact center of resonance and the eye "winks" as program comes in perfectly tuned.

30 DAYS FREE TRIAL—Enjoy World's Most Advanced Radio for 30 Days in Your Home! Don't Risk a Penny!

Act at once on this unusual factory-to-you offer. We send any Midwest radio you desire to your home. You use it 30 days, and compare it with other radios you have owned or heard. Then, you can return it to the factory, if you wish, without risking a penny. We trust you to give the Midwest a fair trial. You are truly protected with Foreign Reception Guarantee, One-Year Warranty and Money-Back Guarantee.

18 TUBES FOR PRICE OF 10

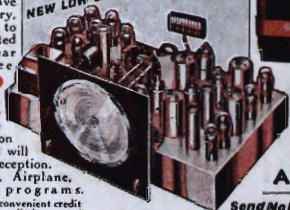
Why be content with an ordinary 10, 12 or 14-tube set when you can buy an 18-tube Super Deluxe 101-feature Motorized Midwest for the same money. It will surprise and delight you with its brilliant world-wide reception on 6 bands, and a range of 12,000 and more miles! It will thrill you with its marvelous 6-continent overseas reception. Secures American, Canadian, Police, Amateur, Airplane, Ship broadcasts . . . and finest Foreign programs.

You have a whole year to pay for your Midwest on easiest, most convenient credit terms. Never before have you been offered so much radio for so little money!

SERVICE MEN: Join nation-wide Midwest Service organization. Write for free details. **SEND FOR FREE CATALOG**

The famous Midwest factory-to-you plan, proven by 18 years of success) is just as exciting. It enables you to buy at wholesale prices — to save up to 50% — to make your radio dollar go twice as far — to enjoy 30 days FREE trial in your own home—to pay as little as 50¢ a week.

18 Tubes
6 WAVE BANDS
only **\$39.95**
(LESS TUBES)
FACTORY-TO-YOU
NEW LOW-BASE PRICE CHASSIS



TERMS
As Low As
50c
A WEEK!

Send No Money Now!

PASTE COUPON ON 1¢ POSTCARD...OR WRITE TODAY!

MIDWEST RADIO CORPORATION
Dept. EE-81 Cincinnati, O

Send me your new FREE catalog and complete details of your liberal 30-day FREE trial offer. (Special offer and prices prevail only when dealing direct with factory by mail.)

Name _____ Address _____
Town _____ State _____

Use-Agents Make Easy Extra Money. Check Here for details

MIDWEST
WORLD-WIDE RADIOS
MIDWEST RADIO CORPORATION
DEPT. EE-81 CINCINNATI, OHIO, U.S.A.