

THE DECEMBER 1935

RADIO INDEX

The All-wave DX Log of the World



25^c

30c in
Canada

The Long Wave and the Broadcast
Stations of the World
with Owners' Addresses and the
Time on the Air

No. 94

For Christmas, Give

The Perfect Phone Adapter

Permits the use of head phones when others in the house are asleep or ill. Wonderful for the hard of hearing. Speaker may be silenced or not. No tools to install. Cannot injure set. Brings in those distant stations you can't quite hear on the speaker.

Price \$3.95 postpaid.

The Lady Esther Eliminator and Distant Volume Control

Used in connection with the Perfect Phone Adapter, enables you to silence the "blurbs" and increase and decrease volume from your easy chair. (Ten-foot extension cord and connector 50c.)

Price \$2.00 postpaid.

The Beginner's Story of Radio

A 96-page book bound in beautiful leatherette which tells the fascinating story of radio in simple words. Profusely illustrated. This book may be a turning-point in your boy's life.

Price 50c postpaid.

Trimm Featherweight Phones

The very finest instruments made. Developed especially for hard-of-hearing, airplane pilots, short wave work, etc. Exceptionally sensitive. Weigh but four ounces. 24,000 ohms impedance.

Price \$8.05 postpaid.

Other models as low as \$2.75.

RADEX Time Converter

A radio map of the world with a time converting dial which instantly converts into your own time, the time of any place in the world. Absolutely essential for tuning foreign stations. No adding nor subtracting—the dial does it all.

Price 25c postpaid.

Large World Globe

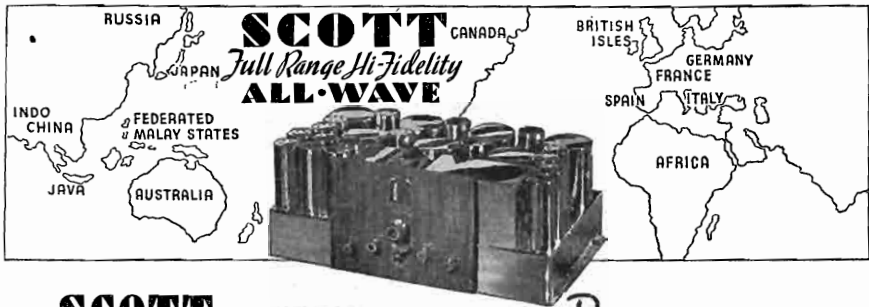
The largest and most beautiful Globe we have ever seen for the money. Almost 37 inches in circumference. Maps in brilliant colors completely up-to-date. It should be in every home.

Price \$3.95 postpaid.

(In Canada and west of the Rockies, 50c more)

If you live in Ohio, add 3% for State Sales Tax

The Radex Press, Inc., Conneaut, O.



SCOTT PERFORMANCE *Begins* WHERE THE OTHERS STOP

● Here's a target for distance sharpshooters all over the world to level guns at! Here is **proof** that the **SCOTT ALLWAVE** is the finest receiver in the world!

From F. L. Stitzinger in Pennsylvania comes this **verified** list of 34 foreign countries, 98 foreign stations, 1651 foreign programs—not merely logged, but **verified!** All within a short six months period! No other receiver in the world has equalled this **verified** world record performance during any six consecutive months tuning!—Argentine, Australia, Belgian Congo, Bermuda, Bolivia, Brazil, Belgium, Canada, Columbia, Costa Rica, Cuba, Denmark, Ecuador, England, Federated Malay States, France, Germany, Hawaii, Holland, Indo-China, Italy, Japan, Java, Kenya Colony, Mexico, Morocco, Peru, Portugal, Republic Dominica, Russia, Spain, Uruguay, Venezuela! Every station, every program, **verified!**

More Important PERFORMANCE Features Than Any Other Receiver—including True Bass Control—True Separate Treble Control—23 Tubes, New Highest Efficiency Type—Oversize Construction throughout—Includes many advanced laboratory developments which cannot be incorporated in production type radio receivers.

Compare It in Your Home

These celebrities demand the world's finest quality—all are **SCOTT** owners—Toscanini—Guy Lombardo—Eddie Cantor—Walter Winchell—Ted Husing—Rudy Vallee—Al Jolson—and hundreds more. The **SCOTT** is the choice of Presidents and Princes all over the world.

Unqualifiedly guaranteed to bring you more foreign stations with stronger volume, with more crystal clear tone, with less noise than any other receiver in the world—in your own home! 30 days' trial. You can own the **SCOTT** for no more than you would pay for an ordinary receiver.

The Secret of Superiority

How is such an unequalled guarantee possible? The **SCOTT** is strictly custom-built—to highest precision standards known. Sent to you direct from laboratories—fully adjusted and proved, with nationwide installation service.

Read coupon below—**NOW**—and decide *right now*—without delay—to send for the most thrilling story of world-covering performance in the history of radio!

Visit our new permanent salon at 630 Fifth Ave., Rockefeller Center, New York City.



SEND THIS COUPON TODAY-DETAILS FREE

E. H. SCOTT RADIO LABORATORIES, Inc.

4424 Ravenswood Ave.,
Dept. 15WS, Chicago, Ill.

Send "94 PROOFS" of the SCOTT'S superior tone and DX performance and particulars of 30-day home trial anywhere in U. S. A.

Name.....

Street.....

City.....State.....

of price! This is not "sales talk." These are vital facts—of deep interest to every DX enthusiast.

To enjoy the really great world music, to hear the tremendous events which are moulding history—still to be in tomorrow's headlines—you *must* have high Class "A" speaker power.

SCOTT 23 TUBE ALLWAVE has 35 Watts Strictly Class "A" Power, 50 watts Class "AB" power—6 times undistorted output of average receiver—for vaster distances.

Bullet-Direct Variable Selectivity 2 to 16 KC—3 times better than selectivity of average receiver—to pierce through powerful local stations and bring in weak distant stations thousands of miles distant.

6 Microvolt Sensitivity—Twice that of any other radio receiver.

25 to 16,000 Cycle Hi-Fidelity—provably twice the tonal range of any other high fidelity receiver—a fact which we can demonstrate in any comparative test.

Dial Calibration—accurate on all tuning bands for the first time in radio history.

Foreign Station Locator—tunes in the short wave stations instantly.



E. H. SCOTT, designer and custom-builder of world's finest radio receivers since 1924

MR. SCOTT'S PERSONAL MESSAGE TO YOU

Says Mr. Scott: "Mr. Stitzinger's list is only one of thousands which **SCOTT** owners constantly send in to our laboratories—**SCOTT** owners receive and have **verified** 3 times as many foreign stations as are received on sets of other radio manufacturers... **SCOTT ALLWAVE** receivers are giving distinguished service in more than 146 countries throughout the world... We have over 600 expert Installation and Service representatives' over entire United States alone—to give you instant service should you ever need it. This, even though every **SCOTT** receiver carries five year guarantee of perfect service."

FACTS ARE YOUR GUARANTEE

Here is reception not even approached by any other receiver anywhere on earth—regardless

Builder of WORLD'S FINEST CUSTOM-BUILT RADIO RECEIVERS Since 1924

December 1, 1935



RADIO INDEX

Reg. U. S. Patent Office

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TWELFTH YEAR

NUMBER 94

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The December DX CALENDAR

Special programs arranged by the stations for the benefit of distant listeners and the frequency check periods required by the FCC. All times are in Eastern Standard in order that they may be arranged chronologically.

Sunday Mornings

December 1

2:00-3:00	CP4	1040	10000	La Paz
2:00-3:00	CJLS	1310	100	Yarmouth
2:00-4:00	CHAB	1200	100	Moose Jaw
	WMMN	890	500	Fairmount
3:00-3:20	KLCN	1290	100	Blithville
3:30-3:50	KXYZ	1440	500	Houston
3:50-4:10	KTUL	1400	500	Tulsa
4:00-4:20	KPAC	1260	500	Port Arthur
4:10-4:30	KGDY	1340	250	Huron
4:20-4:40	KRGV	1260	500	Weslaco
4:50-5:10	KARK	890	250	Little Rock
5:00-5:20	KGKO	1240	500	Wichita Falls
5:20-5:40	WNAD	1010	1000	Norman
5:30-6:30	KMBC	950	1000	Kansas City
5:40-6:00	KUOA	1260	1000	Fayetteville

December 8

1:30-2:30	CKCV	1310	100	Quebec
2:30-4:00	KUSD	890	500	Vermillion S. D.
3:00-4:00	KFRO	1370	100	Longview, Tex.

December 15

1:00-3:00	WHAZ	1300	500	Troy
2:00-3:00	KFRU	630	500	Columbia
2:30 on	WMMN	890	500	Fairmount
3:30-4:30	KIDW	1420	100	Lamar
	CHAB	1200	100	MooseJaw,Sask.
	KFRO	1370	100	Longview, Tex.
	WOI	640	5000	Ames, Iowa
4:00-6:00	KVOL	1310	100	Lafayette
5:00-6:00	CHML	1010	100	Hamilton, Ont
5:00-7:00	WTRC	1310	50	Elkhart

December 22

1:30-2:30		859	35000	Strasbourg
2:00-3:00	W6XAI	1550	1000	Bakersfield
3:00-4:00	KIUG	1310	100	Santa Fe, N. M.
	KXA	760	250	Seattle
4:00-5:00	KWJJ	1040	500	Portland, Ore.
	KGCX	1310	100	Wolf Pt., Mont.

December 8, 22

2:00-4:00	WJBO	1420	100	Baton Rouge
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December 1, 8, 15, 22, 29

2:00-3:00	CJLS	1310	100	Yarmouth, N. S.
2:30-4:00	CKWV	1010	100	Vancouver
3:00-4:30	CKOV	630	100	Kelowna

December 29

12:01-3:00	CJRC	1390	100	Winnipeg
4:00-4:30	KSFO	560	100	San Francisco

Monday Mornings

December 2

1:00-2:00	RW39	832	100000	Moscow
2:00-2:20	WCNW	1500	100	Brooklyn
2:00-2:20	WJAC	1310	100	Johnstown
2:10-2:30	WFAS	1210	100	White Plains
2:10-2:30	WRAK	1370	100	Williamsport
2:20-2:40	WNBF	1500	100	Binghamton
2:20-2:40	WCHS	580	500	Charleston
2:30-2:50	WAGM	1420	100	Presque Isle
2:30-2:50	WBTM	1370	100	Danville
2:40-3:00	WMFF	1310	100	Plattsburg
2:40-3:00	WLVA	1200	100	Lynchburg
2:50-3:10	WHDL	1420	100	Olean
3:00-3:20	WCAX	1200	100	Burlington
3:10-3:30	WSYB	1500	100	Rutland
3:10-3:30	WTEL	1310	100	Philadelphia
3:20-3:40	WIBX	1200	100	Utica
3:30-3:50	WQDM	1370	100	St. Albans
3:30-3:50	WKOK	1210	100	Sunbury
3:40-4:00	WMBO	1310	100	Auburn
3:40-4:00	WLEU	1420	3100	Erie
3:50-4:10	WBAY	1370	100	Albany
3:50-4:10	WBAX	1210	100	Wilkes-Barre

4:00-4:20	WCAD	1220	500	Canton
4:00-4:20	WHAT	1310	100	Philadelphia
4:00-4:20	KOOS	1200	100	Marshfield (1390)
4:10-4:30	WRDO	1370	100	Augusta
4:10-4:30	WBBL	1210	100	Richmond
4:10-4:30	KGBU	900	500	Ketchikan
4:20-4:40	WNBZ	1290	100	Saranac Lake
4:20-4:40	WBRE	1310	100	Wilkes-Barre
4:20-4:40	KGVO	1260	1000	Missoula
4:30-4:50	WMAS	1420	100	Springfield
4:30-4:50	KPQ	1500	100	Wenatchee
4:40-5:00	WRAW	1310	100	Reading
4:40-5:00	KGY	1210	100	Olympia
4:50-5:10	WAAAT	940	500	Jersey City
4:50-5:10	KRKO	1370	100	Everett
5:00-5:20	WSYR	570	250	Syracuse
5:00-5:20	KFXD	1200	100	Nampa
5:10-5:30	KVL	1370	100	Seattle
5:20-5:40	KGEZ	1310	100	Kalispell
5:30-5:50	KUJ	1370	100	Walla Walla
5:40-6:00	KGCX	1310	100	Wolf Point
5:50-6:10	KPQD	780	250	Anchorage
6:00-6:20	KSEI	900	250	Pocatello
6:10-6:30	KVOS	1200	100	Bellingham
6:20-6:40	KIT	1310	100	Yakima
6:30-6:50	KRSC	1120	100	Seattle
6:40-7:00	KXRO	1310	100	Aberdeen
6:50-7:10	KFIO	1120	100	Spokane
7:00-7:20	KFJI	1210	100	Klamath Falls
7:10-7:30	KMED	1310	100	Medford
7:20-7:40	KORE	1420	100	Engle
7:30-7:50	KAST	1370	100	Astoria
7:40-8:00	KRLC	1420	100	Lewiston
7:50-8:10	KINY	1310	100	Juneau

December 9

2:00-3:00	KIUN	1420	100	Pecos, Tex.
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December 2, 9, 16, 23, 30

1:00-2:00	WGES	1360	500	Chicago
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Tuesday Mornings

December 3

2:00-2:20	WPAX	1210	100	Thomasville
2:10-2:30	WBHS	1200	100	Huntsville
2:20-2:40	WBHQ	1370	100	Memphis
2:30-2:50	WDEE	1420	100	Rocky Mount
2:40-3:00	WOPT	1500	100	Bristol
2:50-3:10	WWSM	1320	500	New Orleans
3:00-3:20	WMBR	1370	100	Jacksonville
3:10-3:30	WNRA	1420	100	Muscle Shoals
3:20-3:40	WSJS	1310	100	Winston-Salem
3:30-3:50	WHEF	1500	100	Kosciusko
3:40-4:00	KMLB	1200	100	Monroe
3:50-4:10	WAGF	1370	100	Dothan
4:00-4:20	WNEL	1290	500	San Juan
4:00-4:20	KWG	1200	100	Stockton
4:10-4:30	WVTJS	1310	100	Jackson
4:10-4:30	KPJM	1500	100	Prescott
4:20-4:40	WPFB	1370	100	Hattiesburg
4:20-4:40	KERN	1370	100	Bakersfield
4:30-4:50	WGPC	1420	100	Albany
4:30-4:50	KKO	1500	100	El Centro
4:40-5:00	WBNQ	1200	100	New Orleans
4:40-5:00	KIEM	1210	100	Fureka
4:50-5:10	WROL	1310	100	Knoxville
4:50-5:10	KLS	1440	250	Oakland
5:00-5:20	WVNC	1500	100	Durham
5:00-5:20	KHSL	950	250	Chico
5:10-5:30	WJBW	1200	100	New Orleans
5:10-5:30	KGMB	1320	250	Honolulu
5:20-5:40	WAML	1310	100	Laurel
5:20-5:40	KRE	1370	100	Berkeley
5:30-5:50	WBLX	1210	100	Springfield
5:30-5:50	KGU	750	2500	Honolulu

5:40-6:00	KGAR	1370	100	Tucson
5:50-6:10	KCRJ	1310	100	Jerome
6:00-6:20	KGDM	1100	1000	Stockton
6:10-6:30	KSUN	1200	100	Lowell
6:20-6:40	KTRB	740	250	Modesto
6:30-6:50	KUMA	1420	100	Yuma
6:40-7:00	KFBK	1310	100	Sacramento

3:00-4:30	CKNX	1200	50	Wingham
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December 17				
1:00-4:00	WDAY	940	1000	Fargo
1:00-2:00	WKOK	1210	100	Sunbury
2:00-3:00	WFAS	1210	100	White Plains
4:00-5:00	KPPC	1210	50	Pasadena
5:00-6:00	WHBU	1210	100	Anderson
7:00-8:00	WSBC	1210	100	Chicago

December 24				
1:15-1:45	IITO	1140	7000	Turin

December 3, 10, 17, 24, 31				
3:00-4:00	KFXM	1210	100	San Bernardino
5:00-5:15	WBNS	1430	100	Columbus

Wednesday Mornings

December 4				
1:00-1:30	WEBC	1290	1000	Duluth
1:30-2:30	WSUI	880	500	Iowa City
2:00-2:20	WEBR	1310	100	Buffalo
2:10-2:30	WPEN	920	250	Philadelphia
2:20-2:40	WSAJ	1310	100	Grove City
2:30-2:50	WVHS	1410	250	Bluefield
2:40-3:00	WFBG	1310	100	Altoona
2:50-3:10	WPHR	880	500	Petersburg
3:00-5:10	WIRE	1400	500	Indianapolis
3:00-3:20	WDAS	1370	100	Philadelphia
3:00-3:20	WKBB	1500	100	East DuBuque
3:00-3:20	KIUL	1210	100	Garden City
3:10-3:30	WRBX	1410	250	Roanoke
3:10-3:30	WHBC	1200	100	Canton
3:10-3:30	KGIW	1420	100	Alamasa
3:20-3:40	WMBG	1210	100	Richmond
3:20-3:40	WTRC	1310	100	Elkhart
3:20-3:40	KICA	1370	100	Clovis
3:30-3:50	WSVS	1370	100	Buffalo
3:30-3:50	WBCM	1410	500	Bay City
3:30-3:50	KGHI	1200	100	Little Rock
3:40-4:00	WGH	1310	100	Newport News
3:40-4:00	WGBF	630	500	Evansville
3:40-4:00	KIDW	1420	100	Lamar
3:50-4:10	WOGL	1210	100	Jamestown
3:50-4:10	WVROK	1410	500	Rockford
3:50-4:10	KBTM	1200	100	Pargould
4:00-4:20	WQAN	880	250	Seranton
4:00-4:20	WBOV	1310	100	Terre Haute
4:00-4:20	KFBB	1280	1000	Great Falls
4:10-4:30	WVHEC	1430	500	Rochester
4:10-4:30	WOSU	570	750	Columbus
4:10-4:30	KGFL	1370	100	Roswell
4:20-4:40	WVAZ	1190	1000	Huntington
4:20-4:40	WBEO	1310	100	Marquette
4:20-4:40	KADA	1200	100	Ada
4:30-4:50	WVAL	1500	100	Lancaster
4:30-4:50	WKBN	570	500	Youngstown
4:30-4:50	WVAL	1250	1000	Northfield
4:40-5:00	WCAZ	1070	100	Carthage
4:40-5:00	KFJB	1200	100	Marshalltown
4:50-5:10	WIRE	1400	500	Indianapolis
4:50-5:10	WACO	1420	100	Waco
5:00-5:20	WDZ	1070	100	Tuseola
5:00-5:20	KGDE	1200	100	Fergus Falls
5:10-5:30	WLBL	900	2500	Stevens Point
5:10-5:30	WLB	1250	1000	Minneapolis
5:20-5:40	WBAA	890	1000	West Lafayette
5:20-5:40	WIL	1200	100	St. Louis
5:30-5:50	WTAD	900	500	Quincy
5:30-5:50	KGHF	1320	500	Pueblo
5:40-6:00	WXYZ	1240	1000	Detroit
5:40-6:00	KFRF	1370	100	Longview
5:50-6:10	WTFV	1500	100	East St. Louis
5:50-6:10	KVSO	1210	100	Ardmore

December 18				
1:41-1:49	CFCY	630	1000	Charlottetown
2:00-2:30	KWTO	560	5000	Springfield
4:00-5:00	WIL	1200	100	St. Louis

December 25				
2:30-4:00	KADA	1200	100	Ada

December 4, 11, 18, 25				
1:30-2:00	WKBB	1500	100	E. DuBuque

Thursday Mornings

December 5				
2:10-2:30	KALB	1210	100	Alexandria
2:00-2:20	WSOC	1210	100	Charlotte
2:20-2:40	WMFD	1370	100	Wilmington
2:40-3:00	WJBO	1420	100	Baton Rouge
2:50-3:10	WGCM	1210	100	Mississippi City
3:00-3:20	WRDW	1500	100	Augusta
3:00-3:20	WHBY	1200	100	Green Bay
3:00-3:20	WDAH	1310	100	El Paso
3:10-3:30	WKQA	1240	1000	San Juan
3:10-3:30	WJMS	1420	100	Ironwood
3:10-3:30	KLUF	1370	100	Galveston
3:20-3:40	WCSC	1360	500	Charleston
3:20-3:40	WEDC	1210	100	Chicago
3:20-3:40	KTSM	1310	100	El Paso
3:30-3:50	WBIG	1440	500	Greensboro
3:30-3:50	WKRC	550	1000	Cincinnati
3:30-3:50	KGKL	1370	100	San Angelo
3:40-4:00	WMFO	1370	100	Decatur
3:40-4:00	WJIM	1210	100	Lansing
3:40-4:00	KFFM	1310	15	Greenville
3:50-4:10	WQBC	1360	1000	Vicksburg
3:50-4:10	KFIZ	1420	100	Fond du Lac
3:50-4:10	KCMAC	1370	100	San Antonio
4:00-4:20	WDBO	580	1000	Oriando
4:00-4:20	WEBQ	1210	100	Harrisburg
4:00-4:20	KFYO	1310	100	Lubbock
4:10-4:30	WNBR	1430	500	Memphis
4:10-4:30	WMPK	1200	100	Lapeer
4:10-4:30	KONO	1370	100	San Antonio
4:20-4:40	WQAM	560	1000	Miami
4:20-4:40	WBBF	1210	100	Rock Island
4:20-4:40	KABR	1420	100	Aberdeen
4:30-4:50	WDAE	1220	1000	Tampa
4:30-4:50	WKBZ	1500	100	Muskegon
4:30-4:50	KFJM	1370	100	Grand Forks
4:40-5:00	WMFN	1210	100	Clarksdale
4:40-5:00	WCBS	1420	100	Springfield
4:40-5:00	KIUI	1310	100	Santa Fe
4:50-5:10	KVOL	1310	100	Lafayette
4:50-5:10	WKBV	1500	100	Richmond
4:50-5:10	KFGQ	1370	100	Boone
5:00-5:20	WIOD	1300	1000	Miami
5:00-5:20	WTTX	1210	100	Springfield
5:00-5:20	KGBX	1310	100	Springfield
5:10-5:30	WFLA	620	1000	Clearwater
5:10-5:30	WPAY	1370	100	Forsmouth
5:10-5:30	KCMC	1420	100	Texasarkana
5:20-5:40	KPLC	1500	100	Lake Charles
5:20-5:40	WBBU	1210	100	Anderson
5:20-5:40	WBBZ	1200	100	Ponca City
5:30-5:50	WAIM	1200	100	Anderson
5:30-5:50	WBIM	1370	100	Jackson
5:30-5:50	KGFF	1420	100	Shawnee
5:40-6:00	WMFJ	1420	100	Daytona Beach
5:40-6:00	WOMT	1210	100	Manitowish
5:40-6:00	KNOW	1500	100	Austin

December 12				
2:15-2:30	WLLH	1370	100	Lowell

December 19				
1:01-1:09	CRCS	950	100	Chicoutimi
1:11-1:19	CJCB	1240	1000	Sydney
1:21-1:29	CHNS	930	1000	Halifax
1:31-1:39	CHRC	580	100	Quebec
1:41-1:49	CFCY	630	1000	Charlottetown
1:51-1:59	CJLS	1310	100	Yarmouth
2:11-2:19	CHSJ	1120	500	St. John
2:11-2:19	CKNC	1420	100	Toronto
2:31-2:39	CKCW	1370	100	Moncton
3:01-3:09	CHNC	1410	500	New Carlisle

December 26				
5:10-6:00	WFLA	620	1000	Clearwater

Friday Mornings				
December 6				
3:00-3:20	WJW	1210	100	Akron
3:00-3:20	KRMD	1310	100	Shreveport
3:10-3:30	WPAD	1420	100	Paducah

KCFW (1310) 2nd & 4th W. J.
6-6:15 EST

3:10-3:30	KOTN	1500	100	Pine Bluff
3:20-3:40	WCOL	1210	100	Columbus
3:20-3:40	KFXR	1310	100	Oklahoma City
3:30-3:50	WELL	1420	100	Battle Creek
3:30-3:50	KGK	1200	100	Sterling
3:40-4:00	WALR	1210	100	Zanesville
3:40-4:00	KFPL	1310	100	Dublin
3:50-4:10	WMBC	1420	100	Detroit
3:50-4:10	WCAT	1200	100	Rapid City
4:00-4:20	WDF	1310	100	Flint
4:00-4:20	KGCU	1240	250	Mandan
4:10-4:30	WCPO	400	100	Cincinnati
4:10-4:30	KWYO	1370	100	Sheridan
4:20-4:40	WGAR	1450	500	Cleveland
4:20-4:40	KLPM	1240	250	Minot
4:30-4:50	WCLO	1200	100	Janesville
4:30-4:50	KGFG	1370	100	Oklahoma City
4:40-5:00	WCLS	1310	100	Joliet
4:40-5:00	KABC	1420	100	San Antonio
4:50-5:10	WJBL	1200	100	Decatur
4:50-5:10	KFJZ	1370	100	Fort Worth
5:00-5:20	WJBK	1500	100	Detroit
5:00-5:20	KSO	1430	250	Des Moines
5:10-5:30	WIBU	1210	100	Poynette
5:10-5:30	KGFI	1500	100	Corpus Christi
5:20-5:40	WEDF	1370	100	Calumet
5:20-5:40	WLB	1420	100	Kansas City
5:30-5:50	WCRW	1210	100	Chicago
5:30-5:50	KGKB	1500	100	Tyler
5:40-6:00	WTAQ	1330	1000	Eau Claire
5:40-6:00	WMBH	1420	100	Joplin
5:50-6:10	WMFG	1210	100	Hibbing
December 13				
2:15-2:45	KPOF	880	500	Denver
December 20				
1:01-1:09	CRCS	950	100	Chicoitimi
1:11-1:19	CJCB	1240	1000	Sydney
1:21-1:29	CHNS	930	1000	Halifax
1:31-1:40	CHRC	580	500	Quebec
1:51-1:59	CJLS	1310	100	Yarmouth
2:00-2:09	CFNB	550	500	Fredericton
2:11-2:19	CHSJ	1120	500	St. John
3:01-3:09	CHNC	1410	500	New Carlisle
3:15 on	KGGM	1230	250	Albuquerque
December 27				
1:00-1:15	WLLH	1370	100	Lowell
1:00-1:15	KPRC	920	1000	Houston
December 6, 13, 20, 27				
12:01-3:00	CFCN	1030	10000	Calgary
Saturday Mornings				
December 7				
1:00-3:00	WTMV	1500	100	E. St. Louis, Ill.
2:10-2:30	WBRB	1210	100	Red Bank
2:20-2:40	WWRL	1600	100	Woodside
2:30-2:50	WGNV	1210	100	Chester
2:40-3:00	WMBQ	1600	100	Brooklyn
2:50-3:10	WGBB	1210	100	Freeport
3:00-3:20	WOKO	1430	500	Albany
3:00-3:20	WJBC	1200	100	Bloomington
3:00-3:20	KTRH	1330	500	Houston
3:10-3:30	WDEV	550	500	Waterbury
3:10-3:30	WGL	1370	100	Fort Wayne
3:10-3:50	KFPW	1210	100	Fort Smith
3:20-3:40	WNYC	810	1000	New York
3:20-3:40	WWAE	1200	100	Hammond
3:20-3:40	WTAW	1120	500	College Station
3:30-3:50	WV	1130	1000	New York
3:30-3:50	WLBC	1310	100	Muncie
3:30-3:50	KASA	1210	100	Elk City
3:40-4:00	WINS	1180	1000	New York
3:40-4:00	WFAM	1200	100	South Bend



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Used throughout the world because of their unique design—high sensitivity—and static reducing feature.

TRIMM RADIO MANUFACTURING CO.
1528 Armitage Ave. Chicago, Ill.

3:40-4:00	KWLC	1270	100	Decorah
3:50-4:10	WCAP	1280	500	Asbury Park
3:50-4:10	WEXL	1310	100	Royal Oak
4:00-4:20	WNBC	1380	250	New Britain
4:00-4:20	WJAY	610	500	Cleveland
4:00-4:20	KGCA	1270	100	Decorah
4:10-4:30	WTNJ	1280	500	Trenton
4:10-4:30	WBNS	1430	500	Columbus
4:10-4:30	KFVS	1210	100	Cape Girardeau
4:20-4:40	WLNH	1310	100	Laconia
4:20-4:40	WWJ	920	1000	Detroit
4:20-4:40	KGHL	780	1000	Billings
4:30-4:50	KQV	1380	500	Pittsburgh
4:30-4:50	KDLR	1210	100	Devil's Lake
4:40-5:00	WLAP	1420	100	Lexington
4:40-5:00	WOC	1370	100	Davenport
4:50-5:10	WSMK	1380	200	Dayton
4:50-5:10	KFJX	1200	100	Grand Junction
5:00-5:20	WAVE	940	1000	Louisville
5:00-5:20	KFDM	560	500	Beaumont
5:10-5:30	WADC	1320	1000	Akron
5:10-5:30	KWTN	1210	100	Watertown
5:20-5:40	WSPD	1340	1000	Toledo
5:20-5:40	WVEW	760	1000	St. Louis
5:30-5:50	WHEK	1390	1000	Cleveland
5:30-5:50	KWEA	1210	100	Shreveport
5:40-6:00	WCMJ	1310	100	Ashland
5:40-6:00	WSUI	880	500	Iowa City
5:50-6:10	KGGM	1230	250	Albuquerque
December 14				
2:00-3:00	WHEB	740	250	Portsmouth
December 21				
1:31-1:39	CJKL	530	1000	Kirkland Lake
2:00-2:09	CFNB	580	500	Fredericton
December 28				
2:00-3:00	WBIG	1440	500	Greensboro
December 7, 21				
1:00-2:00	CMKC	1250	150	Santiago
December 14, 21, 28				
5:00-6:00	WMFO	1370	100	Decatur, Ala.
December 7, 14, 21, 28				
12:01-1:00	CMCO	1110	250	Havana
1:00-5:00	KIUP	1370	100	Durango
2:00-4:00	KIUN	1420	100	Pecos

Ekko Verification Stamps Are Still Popular
If you are unable to obtain one from the station itself, send us your verification and dime. We will return your verification together with Ekko Stamp.
The Ekko Company, P. O. Box 295, Ravinia, Ill.

The Newark News Radio Club

RADIO clubs are born, not made—at least ours was. Nobody had to do much ballyhooing to get it underway. An army of DX bugs was flapping around New Jersey, waiting for a chance to land on the radio page of the Newark Evening News. When a paragraph appeared in our radio column to the effect that a meeting would be held at the News office in Newark for the purpose of founding a DX club, more than fifty eager dial twisters were present. Before two hours had passed, we had the first draft of our constitution, a president, vice-president, secretary, treasurer, several committees, and were set to go. We've been going ever since—and how!

In those early days of broadcasting, when local programs were poor and distance savoured of the miraculous, DX captured our imagination. We rambled all over the place on our home-made set and some of the rambles got in the column. Other ramblers began writing letters. Pretty soon they demanded the formation of a club. The afore-mentioned meeting resulted.

Right on the spot at the historic first meeting was our present president, Irving Potts. With a gleam in his eye and a ring of determination in his voice, Irving declared: "This club is going to grow way beyond New Jersey. Why, it may be an international organization one of these days."

"Irv's got some imagination," we said, but the dream wasn't so wild and the fulfillment not so long in coming. We have members pretty much all over the world, held together by the power of that vision of Irving's which he has never relinquished and which serves as the spur of our endeavors.

Although our part in the club was principally to provide a parking space in the column for letters and comments, we feel pretty happy when one of the boys declares that we started it all. It may not be exactly true, but it's nice. The idea was theirs, the work has been theirs and, if they generously give us a chance to participate in the glory, we're appreciative and proud.

There's a hint of winter in the air, the keen winds blow,
The smell of burning leaves abounds, the smoke hangs low,
But soon the air grows crystal-clear and you and I
Can sit before the hearth and reach the far and nigh.
We'll hear the soft-toned Southerner, Atlanta's voice,
We'll hear the folks of Texas speak and we'll rejoice
Because, though we must stay and tread the old home ways,
Our hearts will go a-travelling these winter days.

Charlotte Geer, Radio Columnist,
Newark Evening News.

* * *

The Courtesy Programs Committee

The most important committee of a radio club is the CPC. Its members use all of their spare time without any remuneration to contact stations all over the United States, Canada, Cuba, Mexico, South America and Europe in an effort to have these stations dedicate special programs to the members of the club.

The club members are increasing their DX logs from season to season, in addition to experiencing the thrill of hearing a small station in some remote corner of the globe. The stations themselves derive a far more valuable benefit. Not only will they find out how far their signals will reach, but they can determine the territory to which they can render good service.

I took charge of the CPC of the Newark News Radio Club in 1932 and, thanks to the fine co-operation

and hard work of the committee members, over 1950 programs have been dedicated to the club. I have been particularly fortunate in having Bill Applegate, Art Foerster and James J. Hart working on the committee. Bill has been in charge of the Canadian stations for the past three years and not only has he created a fine spirit of good-will between the broadcasters of the club, but he has scheduled DX programs from stations which never before broadcast such specials. Art Foerster arranged over 150 specials last season and already has almost passed that mark this year. Jimmy Hart has done some splendid work among the South American stations.

The first spectacular broadcast took place in February, 1931, when Major William Cookson, then owner of the 7½ watt station at Hamilton, Bermuda, dedicated a program to the NNRC and received 68 reports from 13 states. Last season, Station KSL, Salt Lake City, received hundreds of reports from Japan and China on an NNRC special, which was also re-broadcast over KGMB in Honolulu. The present DX season promises to become the banner year, with 210 specials already scheduled a week before the official opening of the DX season. *Louis Hahn, Chairman.*

"Creating Possible Catches"

C. P. C. in the NNRC stands for Courtesy Programs Committee. These three letters may also stand for the work involved—Creating Possible Catches. What the DXer wants, the CPCer strives to obtain. One cannot succeed without the other. The CPCman must work alone, his efforts must bring returns, and the response to the stations must be pleasing.

In the past eight years of CPC work, the Newark News Radio Club has made great strides forward. The committeemen have brought to the air many new and elusive catches for the benefit of NNRC members in particular and DXers in general. I



William H. Applegate

doubt if there are any listeners who cannot credit the NNRC with a list of valued catches which otherwise would have been missing from their logs. *William H. Applegate, Vice-Chairman.*

No Postage; No DX

Being a member of the CPC of the NNRC has been a source of combined work and pleasure. Naturally, when you are assigned to seven channels, one of which is the 1210 "graveyard," there is plenty of writing to do. Each program that I arrange requires at least three letters and sometimes as many as six or seven. Last season, I scheduled close to 100 programs, so the amount of correspondence required is apparent.

One of the real thrills in CPC work comes from the fine spirit of co-operation between committeemen and stations. WEDC of Chicago, one of



William Vornkahl, Jr.

the all-nighters, is on one of my channels, so it was foolish to attempt to schedule a program on that frequency. I got in touch with Bill Applegate and he went around to see the manager. Every DXer knows the outcome of that interview—WEDC has kindly consented to remain silent every Tuesday morning.

As I always try to do the right thing by all stations, it is rather hard to get a letter like the one I received from WFAS recently. I had been writing the station for over two years, but never received a reply. Finally, a rather personal letter to the manager, Mr. Seitz, brought a reply stating that the station would go on for us during my December Frolic. However, he said that he was disgusted with the present-day DXer, that very few requests for verifications included return postage and that it has sometimes cost him as high as \$50 for postage on a single DX program. He said that he would like to co-operate with DXers, but

doesn't feel that he should spend that much money just to please some selfish listeners. Perhaps a real response on the December 17th special will bring him back to our side. *William Vornkahl, Jr.*

It's Up to the DXer

Through contacting broadcasters for special DX programs, I have found a variety of attitudes varying almost as much as the localities which they represent. These opinions are of as much importance as interest, and an analysis of them is necessary to the CPCer who wishes the continuance of such early morning programs.

It is usually the program director who makes the decision on the question of a special. In arriving at his decision, he considers many things. Perhaps the most important points are the question of finances, the convenience to the personnel, and the response to past programs of a similar nature.

The latter is probably considered first, and if previous broadcasts have brought too few reports, the station is reluctant to favor the DXers once more. If thanks have been profuse, if reports have been clear and have contained information of value, the



J. Kenneth Vetter

chances are that the station will agree to further special programs.

The smaller stations must consider the expense of such programs and, while they might want to co-operate with the listeners, they are often obliged to refuse our requests.

A few stations just aren't interested and there is little that we can do about them. However, it is interesting to note that many of the indifferent broadcasters don't last very long, and they either go out of business or have a change in management. *J. Kenneth Vetter.*

Wrong Reports Kill Interest

Next to being a DXer, there is nothing more interesting than serving on the CPC of a radio club. Besides obtaining a comprehensive view of the reaction of stations towards DXing, the CPCer is able to make many pleasant personal contacts with broadcasting officials.

Most DXers remember the trouble in obtaining replies from KLPM. Not so long ago I received a letter from Leslie E. Maupin, Chief Engineer, in which he said that all correct reports *would* be verified in the future.

KGFX was another difficult station to verify, but a letter from Mrs. Dana McNeil, the program director, stated that they had received many requests for verification *before* they went on the air. No wonder they didn't pay much attention to letters, and it is gratifying to learn that the station will confirm future reports as soon as possible.

There is a certain amount of satisfaction in receiving a letter which advises that a station is glad to co-operate with a radio club, while the knowledge that reports on specials which I have arranged have been of value to the station itself is ample payment for the work involved. *Carroll H. Weyrich.*

The Baltimore Chapter

To be worthy of our self-applied title, "Pride of the NNRC," is the sole ambition of the Baltimore Boosters.

To help keep our club at the head of the parade is our earnest desire. To have other groups within the club derive the same pleasures of get-togethers is our fervent wish.

The idea of friendly gatherings was conceived more than four years ago, and since then we have averaged ten meetings a season at which the mutual exchange of DX achievements and tips has served to enhance our pleasures in this fascinating hobby. We usually count on ten members of our own



Carroll H. Weyrich

gang at these meetings and have had as many as seventeen.

Every year we try to attend the club's May entertainments en masse. In 1933, sixteen of us made the trip up from Baltimore. Last year, a tribe of Indians from the Hoosier state, headed by the intrepid Art Foerster, swooped down on us. The nine of them doubled up with us over night and then headed for Newark in the morning. After the meeting, we were



Lloyd S. Hahn

among the 57 NNRacers seated at one large table in a restaurant for a final blow-out. Many states were represented. To have been present at this gathering was to be convinced that there is a very tangible something about our club that makes membership desirable. Call it a spirit of *Camarderie*, if you will.

Briefs 'Bout Baltimore Boosters: *Carroll Weyrich*, tall and blond, married to another club member, the former Ruth Wherley, uses a Scott receiver, snoozes around midnight at meetings and has a pet peeve at the BBC for not verifying SR and WR; *C. M. Falconer*, whose duties as president of the Maryland Automobile Club have hurt his DXing, has many fine catches which have fallen before his wizardry of the dials and is peeved because XEW moved to a crowded channel; *Robert Base* has DXed his way through the last three Scott creations and has plastered the walls of his DX den with more than 700 BCB veries; *Louis J. McVey*, living in a veritable DXer's paradise, where WELI, WAAT and WHEB are R6-7 at noon, has taken us Boosters on air raids all over the world, but still has his troubles with KGBU; *Martin Howard*, the boy wonder secretary, holds

two veries from KGBU for McVey's particular benefit and can't like having to get out notices of a meeting when he has a heavy date; *George Doyle* and *Paul Ruppert*, DX buddies of Sparrows Point, have logs which are growing rapidly; *Dixon Russell* divides his time between radio and duckpins, has won high honors in several short wave contests; *Clinton Sevier*, a postman, is plenty peeved when he has to deliver a verie to *Howard Muhl* when it does not grace his own log, while Howard, a barber, refuses to shave Clint after a session with an electric street car switch at his corner; big brother *Philip S. Hahn* has had amazing success with a 4-tube Philco, boasts veries from KGMB and Poste Parisien and gets plenty riled after listening to a faint signal for an hour and then discovering it to be a harmonic of a local; *Bill Smith*, *Bill Bauer* and *Elton Krider* are newer members who are making rapid strides.

Lloyd S. Hahn

The Indiana Chapter

With an initial membership of six, the Indiana Chapter was organized two years ago. At first, growth was small, but the small group of NNRacers refused to give up and we now have 23 members.

The Baltimore Boosters challenged us to obtain one new member for every three for them. We took them up on this and proceeded not only to match them member for member, but actually gained on them.

Then they had the audacity to dare us to think up some new publicity stunt or novel method of obtaining new members. Once again we arose to meet the challenge and brought the largest state delegation from a distance ever to attend the final club meeting in Newark. Nine Indiana members made the trip, while Baltimore, several hundred miles closer, was able to muster but seven.

(Continued on page 37)

A Christmas Gift that comes ten times a year

Make up your gift list now.

Give RADEX to your friends for a year around reminder of your affectionate thoughtfulness. Remember especially the shut-ins to whom radio is a chief joy.

An attractive Christmas Gift Card will be sent to announce on Christmas Day your name and gift. Or we will mail the cards direct to you to be forwarded with a message in your own writing, *if you so request.*

Special Christmas Rates (Good only until Dec. 31, 1935)

The subscription price of RADEX is \$2.00 per year (\$2.50 in other countries). At this time only, we will accept subscriptions three for \$5.00, two for \$3.75, or one for \$2.00. Each year that you order counts as one subscription. Your own subscription (new or renewal) may be included at these rates.

Christmas Order Form

The Radex Press, Inc., Conneaut, Ohio.

Please enter the following subscriptions to RADEX and send Gift Announcements for Christmas Day.

Name.....
Please Print
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City..... State..... 1 or 2 Years?
Send Gift Card to recipient Send Gift Card to me

And enter my own subscription (new or Renewal ?) at the special Christmas rate for.....year(s).

I enclose \$.....in payment.

Name of person sending order.....

Address.....

.....

Equip Your Radio with Head Phones

A necessity to the hard-of-hearing and to those who want to listen-in when others in the house are asleep or ill. Shuts out the room noises and reduces the static.

The Perfect Phone Adapter

may be installed in any set in two minutes without tools. Merely insert the socket-adapters (A) under the audio power tube or tubes and leave them there. The toggle switch on box (B) cuts speaker in or out at will. The tips of the phones (E) are inserted in little jacks in the box which may be placed in or under the set.

Price of Adapter complete \$3.95 postpaid.

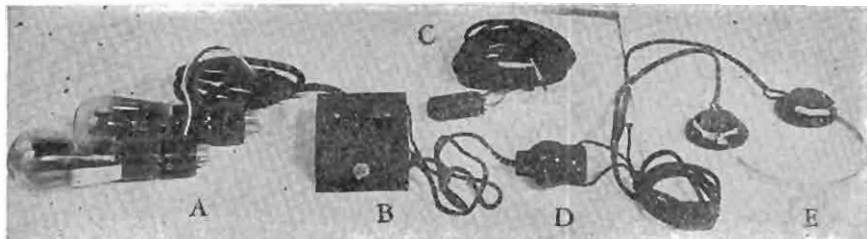
If you desire to use the Phones at a distance from the set (or use a second speaker in another room) you will need the extension cord and connector (C). Ten foot lengths, 50c.

If you desire to regulate the volume of the set from a distance or cut out the "blurbs" or talks, you will need the Distant Volume Control (D). Price \$2.00.

Trimm Featherweight Head Phones of the very finest quality, \$8.05 postpaid. Others as low as \$2.75.

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

The Radex Press, Inc. Conneaut, Ohio



SHORT WAVE NEWS

and Other Gossip

• • • By PAGE TAYLOR

IN OUR last issue it was mentioned that the most popular programs on the air seem to be the news services, and this statement holds just as true on the shortwaves as on the broadcast band. We believe an outline of the news dispatches available from various stations will be of interest.

Over the National Broadcasting Co. Network is heard Lowell Thomas, famous world-traveller and author. About him, "World-Radio" of London, says, "Perhaps the most popular news commentator is Lowell Thomas, who gives over the NBC Network a lively, unconventional account of important happenings throughout the world." Thanks to shortwaves, Mr. Thomas is almost as well known as a newscaster in Europe, South America and Africa as he is in his own country. He can be heard daily except Saturday and Sunday at 1845 EST. (2345 GMT), over the following stations :

- 6.040 mags, W4XB, Miami.
- 6.060 mags, W3XAL, Cincinnati.
- 6.090 mags, CRCX, Toronto.
- 6.100 mags, W3XAL, New York.
- 9.570 mags, W1XK, Boston.
- 11.870 mags, W8XK, Pittsburgh.

Columbia's ace, Boake Carter, can be heard daily except Saturday and Sunday at 1945 EST. (0045 GMT) through W3XAU, Philadelphia, on 6.060 mags.

"The March of Time," a dramatization of important news events, can be heard from the CBS stations W2XE, 6.120 mags. and W3XAU, 6.060 mags., daily except Saturday and Sunday at 2230 EST. (In Greenwich time, this program will be heard except Sunday and Monday at 0330, GMT).

The Reuter's News from Daventry is the best of all the foreign news broadcasts. The final fifteen minutes of each Transmission from the Daventry station is devoted to these dispatches. Except for numerous cricket and rugby scores, these periods are of great interest to us, and once in a while we are fortunate enough to hear American news before we have read it in our own newspapers.

Listeners interested in Italian opinion on the Ethiopian situation should not fail to listen to 2RO on 9.635 mags. at 1800 EST., every day except Sunday. The "news" is quite obviously prepared by the Propaganda Department, and the tendency seems to be to convince us the Ethiopians are down-trodden slaves and that they welcome their Italian friends with open arms.

News in English can be heard from the German stations at 2015 EST. nightly. Although German news is censored the censorship is not so obvious as one would expect. The German outlook on world affairs is always interesting.

The stations of the League of Nations at Geneva exist solely for the purpose of diffusing news of the League throughout the world. Their 45-minute talks every Saturday afternoon are confined, usually, to League activities. The stations are HBL, 9.595 mags. and HBP, 7.797 mags., and the time, 1730 to 1815 EST.

Mr. Borrett, Director of CHNS at Halifax, N. S., says, "You might advise your readers that VE9HX will be on the air on 6110 kc/s. regularly from 9 a. m. to 12:30 p. m. and from 4 p. m. to 11 p. m., EST..

starting soon. It is possible, although I have not had official confirmation yet, that the call will be changed from VE9HX to CHNX." The address of this Maritime station is P. O. Box 998, Halifax.

A RADEX Special

Sr. Amando Cespedes Marin, Technical Director of TIRCC at San Jose, Costa Rica, sends this information about his station. "TIRCC works on a frequency of 6550 kc/s. with 500 watts in the antenna. Are we willing to verify reports? Sure! If an International Reply Coupon is enclosed. Our time on the air is as follows: Sundays, 11:00 a. m. EST., Mass, and at 8 p. m. Rosary. Mondays, Tuesdays, and Wednesdays, 11 a. m. to p. m. and 6 to 7 p. m. Thursdays, noon to 2 p. m. and 5 to 10 or 11 p. m. Fridays and Saturdays, noon to 2 p. m. If you desire a special DX program dedicated to RADEX, please pick out any Thursday coming, from 8 to 11 p. m. EST., and I will see to do the rest. Set your date and we will verify to all listeners hearing your call."

RADEX appreciates this kind offer from Sr. Cespedes, and we have chosen Thursday, December 12, as the date for the special program. This offer was entirely voluntary, and we hope ALL our readers will show their appreciation by tuning for and reporting on this program. Address reports to Sr. Cespedes, Director Tecnico, Radioemisora Catolica Costarricense, Apartado 1064, San Jose, Costa Rica.

Two low powered inter-Key phone stations are being built in the Florida Keys by A. T. & T. Situated at Tavernier, near the northern end of the keys, will be a 5-watt station on 4178 and 4243 kc/s., and at Big Pine, near the southern end of the islands, will be another 5-watt on 5078 and 5198 kc/s.

From Wm. J. Wood, 817 Lake Street, Oak Park, Ill., comes this

information on radio stations being built throughout the state of Illinois for the Highway Police. There will be seven stations, each with a radius of 60 miles, and it is expected that with this network the entire state can be covered. Each station will have a power of 1 kilowatt. They are located as follows: Chicago (at Dunning), DeQuoin, Effingham, Macomb, Pontiac, Springfield, and Sterling. Each station will work on 1.610 megs.

The Mexican XBJQ

The most widely heard station at the present time seems to be XBJQ, the shortwave unit of the National Bank of Mexico, P. O. Box 2825, Mexico City, D. F. XBJQ works between 10.850 and 11.500 megs. but has been reported most often on exactly 11 megs. This station relays the programs of XEW and an appropriate souvenir is promised to listeners who report reception. XBJQ announces once in a while in English, but the call sign XEW is often heard in Spanish. An interval signal of four chimes precedes announcements. This station was reported by J. G. Richard Heckscher, Charles Spielman, I. O'Rourke, P. I. Ogilvie, Sr. Abella, H. H. Searles, Russell Graham, Theodore Johnson and Lyle Stannard.

"I was very much interested in receiving HRN, Tegucigalpa, Honduras, broadcasting their first regular program," writes Wm. Tippy, 111 Union St., Schenectady, N. Y. "I listened for about an hour to a Spanish program, which ended about 10 p. m. EST., then there was an English program in honor of those who had reported HRN during its tests. HRN is on 5875 kc/s. with 400 watts power. They relay HRN on 1450 kc/s. according to the announcer, and they are eager for reports. The signal strength was good but modulation was fierce."

The African fracas has had its ef-

fect even on our listings of the ships. The German liner Columbus must be deleted as this ship was sold to Italy to be used as a floating hospital.

"The following item may be of interest," believes George W. Haylock, 115 Grange Park Road, Leyton, London E. 10, England. "Warsaw, Poland, is testing station SPW on 22 meters with 10 kw. power daily from 1130 to 12:30 a. m. EST. Reports should go to Polskie Radio, Mazowiecka 5, Warsaw."

"I have been a s.w. fan for over two years," advises Raymond English, 360 Lafayette Ave., Passaic, N. J. "I have a 10-tube model 660 Philco, and a hum-dinger it is! My aerial is only 20 to 25 feet above the ground and I find this height is best for reducing noise. By the way, VK3ME made an important announcement the other day, to the effect that they will start broadcasting daily except Sunday." Mr. English suggests a feature which he thinks will be better than our "Around the Clock" idea. What do the rest of our readers think about it? Here it is: "Many of us try to verify the foreign shortwave stations; therefore you should have a list of the stations giving their English periods and best time for verifying. For example, DJC, every day at 8:15 p. m., News in English. 2RO, Monday, Wednesday and Friday, 5 to 7:30 p. m., The American Hour. YC2RC, Tuesdays from 10:30 to 11 p. m., Short Wave Club program, in English."

H. H. Searles, who calls himself the "DXing Fool," submits a log of 89 stations. "My latest verifications are PCJ, HAT4, HP5J, TGW, HJ3-ABH and W2XAD," he states. "And incidently, TGW now uses a frequency of 6000 kc/s. on s.w. and 1210 on BCB, according to their card. CO9JQ in Camaguey, Cuba, has been testing on about 37 meters from 8 to 9 p.m. EST. VE9GW is now CRCX

and the transmitter is moved to Toronto. Do stations like KKH and WON verify?"

Point-to-point stations of the RCA and AT&T not only do not verify, but warn listeners that it is contrary to International Radio Law to listen to and report on their transmissions. We give their addresses in our indices because we believe that foreign listeners can report on the stations. We would like to hear from some of our overseas friends about this; what kind of replies do they receive from RCA and AT&T?

"If you like to tune through interference for a good catch, try for CMPN, Havana Police station on 1.712 megs." suggests Rolando Sistodell (?), Medio 92, Matanzas, Cuba. Another Cuban friend, R. Abella, 11E, La Sierra, Marianao, Cuba, writes, "Two more new stations! HRN, La Voz de Honduras, 5875 kc/s., Tegucigalpa, from 8-10 p. m. EST. And YV8RB, La Voz de Lara, at Barquisimeto, Lara, Venezuela, testing between 6 and 8 p. m. EST., on 5870 kc/s."

More About BBC

Our article called "Do British Stations Want U. S. Listeners?" didn't "go over very big" with some of our readers. "My reply from the BBC was prompt and very cordial," states Astrid Arnoldson, 412 Montana Bldg., Missoula, Mont. "It would not rank as a technical verification of any specific reception, but the letter was quite long and very courteous. That does not look like indifference to real interest on the part of U. S. A. listeners, does it? A great, Empire-serving plant seems to me to be justified in picking what reports it will verify. With six transmissions from the BBC every 24 hours it must be a stupendous task to check up for every hobby-ridden DXer the items of programs from three weeks to any length of time back. Of course, I personally do not

câre about exact verifications. Hearing, after a program of Oriental music, a distinctly un-American voice announce, 'This is station PLV at Bandoeng, Java,' I know it's PLV alright without writing to the NIROM to check up on the evidence of my quite normal ears." (This is just what we have been writing for a couple years. We are glad someone agrees with us at last.)

The J's and VK's

"The Aussies, VK2- and VK3ME, and 3LR, are coming in fine again," reports Antony C. Tarr, c/o District Quartermaster, Fort Lewis, Wash. "In addition, JVM and JVN are heard excellently, and also RV15. It is too bad that RV15 does not answer reports. I heard WQO talking to the S. S. Normandie. Every now and then WQO would break in and say, 'Please slow down the ship. There is a bad rumble on your carrier and it is necessary that you slow down or stop the ship at once.' I don't think the Normandie slowed down and the program was cut at the half-way mark. FNSK, the Normandie, could not be heard here."

We remember several other ship broadcasts when it was necessary that the ship be slowed down or stopped. We wonder if this is necessary during the ship-to-shore telephone conversations.

Kennard Spiker, Franklin Ave., Broomall, Pa., was able to hear this program direct from the ship. "The entertainment was provided by Jack Hylton and a group of well-known singers," he tells us. "I had the good luck to tune in the ship direct, and heard the entire program. The CBS was not so fortunate; they had to cut about 15 minutes of the program due to distortion."

Notes from England

"On the s.w. reception has been a bit erratic," complains Robert Pybus, 4 Highfield Rd., Chorlton-cum-Hardy, Manchester, England. "Ham reception has been consistent but

only from the Eastern and occasional Central States, no West Coasters. The Baseball games between Detroit and Chicago were very fine, and so have been the recent football games. Reception is best via W2XAF but W8XK and W2XAD are very nearly as good." Concerning the baseball games, it was amusing to read the comments of a British listener (not Mr. Pybus), in which the innings were referred to as "matches" ("Fourth match", seventh "match", etc.) and good, lusty hits were called "strikes."

"YV2RC is heard much better on its new frequency of 5.800 megs.," postcards Theodore Johnson, 821 W. Woodland Ave., Youngstown, Ohio. "I have also heard two new Germans. One is DIP, 14.410 megs. and the other is on 14.660 megs. I didn't get his call letters."

In the Jungles

"I have been down here for over eighteen months, sailing up and down the San Juan River, with plenty of jungle on both sides of me, which I do not believe is of any help in my reception," pens I. O'Rourke, 3rd Engineer of the S. S. H. G. Wylie, c/o S. O. V. 22 Abercrombie St., Port of Spain, Trinidad. "My set has only five valves but I am able to receive Daventry without any fading. 3LR comes in nearly every night and I have also had Wellington, N. Z. calling Sydney and London. I have had all the North Americans and most of the South American stations. I hope I may have the pleasure of hearing from some of your readers."

A large number of DX'ers are having SWL cards printed which they send to radio stations, requesting the stations' QSLs in exchange. Eric Butcher's SWL card is even more elaborate than most QSL cards we have seen. His home town, Cokeville, Wyoming, is advertised in red letters 3.25 inches high; his picture is included, as well as a list of the

15 radio clubs of which he is a member. "HJ4ABE is still my best So. American but TIEP, YV5RMO, YV3RC and some others are holding up well. My one big ambition is to hear an African station to enable me to join a Heard All Continents Club and if anyone out here can help me I will appreciate it very much."

Charles Spielman of 415 So. Barstow St., Eau Claire, Wisc., reports TFK at Reykjavik, Iceland, and the new 150 kw. French station at Villejust. TFK is on 9.050 megs. but its companion station, TFJ on 12.225 megs. is most often heard. The stations operate irregularly now but the owners state they expect soon to have a more regular schedule. TFJ is usually heard until noon.

Police Changes

"Here are some recent changes and new stations among the police frequencies," contributes James Black, 2252 Bellfield Ave., Cleveland, Ohio. "Sharon, Pa. will soon go on the air with a \$12,000 station. It will be linked with the Ohio State Police, WPHC at Massillon, O. New call sign for the Elizabethton, Tenn. police on 2.474 megs. is WPHY. WPEL on 1.666 is at W. Bridge-water, Mass. Other new ones are WPHT. 1.596 megs. at Cambridge, Ohio and WPGF, 1.712 megs. at Providence, R. I."

From Mexico comes news of another new station. Jose Rodriguez Lopez, Manager of XEFT, says this station works with a power of 20 watts daily from 11 a. m. to 4 p. m.; Saturdays from 6:30 to midnight; Sundays from 9 p. m. to midnight, and weekdays from 7:30 p. m. to midnight. XEFT is located on Avenida Independencia 28, in Veracruz, Ver., Mexico. The frequency, 6.120 megs.

"Reception thus far this season indicates I will have a successful season logging the s.w. stations," opines

Radex Program

TIRCC, 6.550 megs., 8 to 11 p. m., EST, December 12, 1935. Amando Cespedes Marin, Radio-emisora Catolica Costarricense, P. O. Box 1064, San Jose, Costa Rica. Every correct report will be acknowledged by a beautiful QSL card.

J. Russell Graham, 1005 Allard Ave., Apt. 2, Verdun, P. Q. "I am re-logging the stations and have a total of 108, this being an increase of 10 over last year's mark. HRN, Tegucigalpa, Honduras. is heard testing around 2000 EST quite often and uses 5.890 megs. The Aussies are coming in better this fall and I am also hearing Japan and the Fiji Islands quite often."

"On s.w. I have been picking up a few new ones, such as OAX4D, HP5B, HJ1ABE, YV5RMO, and verified 2RO, DJD, 2RC, and COCD." summarizes Wm. Bundlie, 614 N. 6th St., Grand Forks, N. Dak. "HJ4ABE, Med-ellin, now works from 11 to 12 a. m., EST, and 6 to 10:30 p. m.; HP5B works from 8 to 10:30 p. m.; 12RO on 11.810 megs. is on daily from 2:30 to 5 p. m., EST."

A Standard Frequency Service

The National Bureau of Standards, Department of Commerce, provides a standard frequency service which is broadcast by radio three days a week, from the Bureau's station WWV at Beltsville, Md., near Washington, D. C.

The object of these emissions is to provide a standard for scientific or other measurements requiring an accurate radio or audio frequency or time rate. They are likewise useful for radio stations for adjusting their transmitters to exact frequency, and to the public generally for calibrating

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Idiosyncrasies of RADIO SETS

• • • By THE TECHNICAL EDITOR

AN INTERESTING letter from Richard K. Neller, of Niagara Falls, New York, states, in part: "I visited the WLW transmitter at Mason, Ohio. I noticed that music filled the air, but saw no reproducing unit. Finally I located the source; it was coming from the cover of a metal switch and fuse box located on the wall not far from the transmitting tuning condenser and helix in the center of the room. The technician in charge could give no explanation of why a fuse box can perform the function of a radio receiver. Can you tell why this strange thing happened?"

Your query is very interesting as it brings to light many of the peculiar phenomena not in the usual practice of the radio Engineer.

The lighting system undoubtedly furnishes adequate pickup for the signal wave of the transmitter. Some part of the line must be looped rather than doubled in some way so that high frequency flows in the lighting line. Now, if a half-wave rectifier is on the line anywhere it will make the impedance-to-current one way greater than the other way, whether it is on the other side of a transformer or not. Undoubtedly there are a number of such rectifiers in connection with this system. Although complete rectification is not obtained, the effect of an inefficient rectifier is indicated because more current must flow one way than the other, as the modulated carrier envelope is symmetrical.

Being of iron or magnetic material, the cover of the fuse box can quite well act as a diaphragm and respond to the magnetic field of the voice current thus flowing in the power lines.

Fred Stone, writing from Kintnersville, Pennsylvania, states: "My Victor R-32 has just had new tubes and an inspection, yet it is always blurred. It seems worse at ten o'clock at night. At some times it blasts in, and when it does this it has a tinny sound as if the singer were too close to the microphone."

Check, and if necessary clean thoroughly the contact points on the switch used for changeover to phonograph, in the detector plate circuit.

Check the grid leak and try a new one (2-meg.) as well as the grid and plate condensers of the detector circuit. Give all of the audio resistors a test under load conditions, that is with the full voltage applied to them. These units will affect the bias and fidelity of the receiver in the manner suggested in your letter.

These precautions will undoubtedly remedy the trouble.

From San Francisco, California, comes the complaint of Ashley Walcott. He writes: "When a neighbor tunes his Philco model 60 B, to KPO, 680 Kcs., my Philco 16 B, only 30 feet away, brings in something on 1140 Kcs. It is as loud as a local station, but sounds like a bad hum. When this neighbor tunes to other stations it also spoils my reception on certain other stations. Why is this?"

It appears that your trouble is due to reception of image frequencies. When one set is tuned to 680 Kc. with an intermediate frequency of 230 Kc. the oscillator is producing a frequency of 680 plus 230, or 910 Kc.

This is a strong continuous wave at 910 Kc. Being so close to the

other set tuned to 1140 Kc. it forces its way into the pretuner and forms a beat frequency of 230 Kc. (1140 minus 230 equals 910) which evidently is the intermediate frequency of this set as well.

The fact that this trouble occurs only at these two settings of the receivers may indicate that a wave filter is used preventing its occurrence at other settings.

Various heterodyne combinations with outside signals would be possible with this set-up as well. They all can be identified by adding and subtracting various frequencies with the I. F. of the sets.

Resonance Tuning Meter

Mr. A. F. Lucas, of Canton, Ohio, has a Majestic model 85 receiver. He believes a tuning meter will assist him, and asks: "I would like to have a resonance tuning meter added to this broadcast set, and what I wish to know is what value of milliammeter in M. A. is best suited for my set. Where should the meter be connected to work the best?"

We believe that the plate supply leads for the type 58-s, r-f and i-f tubes are common. Break the connection from this common lead to the high voltage and insert a DC O-20 Ma. meter.

It is a good plan to mount the meter inverted so that the needle will swing to the right in proportion to the signal strength being received. Once the set is turned on, the needle will swing almost all of the way over to the left. Then when a station is received it will swing to the right because of "reduced" current.

If you wish to get the adjustment at the exact right end of the meter range get a O-5 or O-10 Ma. DC meter and place a variable resistance of 1,000 ohms across it, adjusting it to exactly maximum for no signal. Maximum current is referred to here. In this way the meter may be recalibrated for each new tube that may

be used in these circuits or for gradual loss of emission of your present tubes.

S W On Radiola 20

Among our many readers who wish to convert their broadcast sets so as to receive short waves is D. S. Hodgson, who, like a number of writers, failed to give his address. Says Mr. Hodgson: "I have a Radiola 20 and wish you would give specific information for changing the coils and condensers so as to get short waves; also for tapping the coils for all-wave reception."

The conversion of the Radiola 20 is not recommended because of the design. An equal number of turns must be taken off of each end of each tuned coil, and a new primary coil must be built for each r-f transformer. Removing turns will not do the trick satisfactorily. A new tickler coil must be wound by cut and try methods and some form of regeneration control must be employed. Rather than dismantle the tuning condensers, series capacity units may be employed to reduce the total capacity. Series parallel combinations may be most effectively used. Shielding must be constructed for each coil and this is a most difficult job for this receiver. It is far better to use new coils for this purpose than to try to adapt the old ones.

Tapping the coil would be inefficient. If the set is in good working condition, a self-powered short wave converter might be successfully used in this connection. Power supply may be obtained from the same batteries used for the Radiola 20. This can be done without making any changes in the Radiola circuit whatever.

Where Is The Tube?

From Edwin L. Anderson, in South Orange, New Jersey, comes this inquiry: "I have a Music Master midget set and on its chassis there is a hole for another tube. I

think that by adding another tube I can get better volume and more stations. Can you advise me about this mysterious tube socket?"

While we can find no immediate information on this receiver we think the following will help. For one thing the filaments of the tubes will be in series in a circuit of this kind, and in addition to this if one tube in a receiver of this kind is removed, the signal circuit would be broken. When so few tubes are employed, especially in a universal set, which this one probably is, all of them form a vital function. Any one removed without changing the wiring otherwise will completely destroy reception.

One additional tube might possibly have been used for a push-pull output but this is barely likely as such sets are not designed in this way. Furthermore filament wiring changes would be necessary to use only one tube.

There is a possibility that the extra socket may be for connection of a universal power cord, an additional speaker, a field coil, or for some other purpose than a tube. It may be for a pickup connection or a microphone. Or this circuit might have been changed completely, leaving a tube out of the socket.

Aligning The RCA 141

A mechanical problem is giving concern to Mr. E. Limon, of the S. S. San Ricardo, now somewhere at sea. He states, "I have an RCA model 141 that is out of alignment in the I.F. circuit. Can the alignment that is on top of the chassis be made with an oscillator only or must I use an output meter together with the oscillator? Must both the primary and secondary I. F. stages be tuned to 445 Kcs?"

It is rarely ever necessary to use an output meter in connection with alignment work when the speaker is used with the set and especially when the oscillator is modulated.

For precision or laboratory work the output meter is necessary, but not otherwise.

When making preliminary adjustments, both primary and secondary windings of the I.F. transformers should be tuned to 445 Kc. if that is the I.F. in this case. However, if the signals are distorted (by reason of lack of high frequencies) or if each station is accompanied by a disagreeable hiss on resonance, the adjustment is too sharp and one or two of the circuits should be tuned 5 Kc. off resonance. This is rarely necessary in any but a new set.

Oscillation will sometimes result from over-correct alignment, as this is called, and the stages have to be "staggered" as above explained to overcome the difficulty.

The Pre-Amplifier

Among those who like to experiment with new schemes is Milo Smith, of Painesville, Ohio. "I built the one-tube pre-amplifier that was described in Radex. I get image frequencies and not so much power or selectivity," writes Mr. Smith. "My set is a 1934 Stewart Warner 10-tube model R 110 A. What else can you suggest that might help?"

Of primary importance in this connection is shielding. The power leads to the pre-amplifier may carry outside signals as well as other items in the circuit. Do not overlook them. By-passing as well as shielding is necessary.

Be sure that the pre-amplifier tuned circuit is definitely contributing to the selectivity of the receiver as well as to the pickup of it. If it does not, it will cause considerable trouble with image frequencies and other noises.

Perhaps you have taken the power from the wrong terminal in the set. It must be taken from the supply before it leads through the tube plate load or it will show the effects you

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The New York Radio Show

• • • By R. H. TOMLINSON

RECALLING the glamour of other years, when radio shows were to be discussed for weeks afterwards, the recent, National Electrical and Radio Exposition at the Grand Central Palace in New York was a distinct disappointment. Surrounded by oil burners, air conditioning equipment and various domestic appliances, some twenty radio exhibitors tried hard to uphold the old name *Radio Show* and succeeded rather poorly.

To the old time DXer, the show was a complete bust. No longer was it possible to browse around and pick up a basket full of price lists and booklets. The scores of exhibits of parts for the builder and DXer were not to be seen. No "sample" grid leaks or phone plugs could be picked up when a salesman wasn't looking!

Except for the public address system and the outlets from several NBC studios, the show was a silent one. Visitors wishing to hear a new model in actual operation could take their choice of walking three or four blocks to the nearest radio store or exercising their imaginations while tuning a dead set.

The keynote of the show was world-wide reception. Climaxing the yearly series of goals for which the listener may twirl a dial, all manufacturers have taken advantage of the magic of short waves to make a globe-trotter out of a stay-at-home dial twister. With the exception of a few small AC-DC models and the line of auto radios, all of the models covered some portion of the short wave spectrum. A few of the larger receivers go down as far as four and five meters, while others have added an extra band for the long waves between 140 and 400 kcs.

However, as no demonstrations

were given, nothing can be said about actual reception either on short or long waves.

First in listener importance was the almost universal appearance of the new metal tubes. With only one exception, every new receiver provides for the use of these tubes, or their glass counter-parts, at least in the RF and IF stages and often throughout the set. Upon seeing these little black "knobs" for the first time, the average listener wants to know "if these dang little things work as well as the glass tubes." According to the manufacturers, they do. Time alone will tell.

Cabinets came in for their share of attention. The console type was more in evidence than during the past few years and it is a relief to note that they have lost their cumbersome, clumsy appearance and are now slim creations with an eye towards conservative modernism.

One outstanding console was the Sparton *Nocturne*, created by Walter Teague, the industrial designer. The receiver was mounted behind a cabinet face of mirror glass in either rose or midnight blue. The metal work supporting the glass, the dial and the knobs were of chrome-plated steel.

Dials have been designed to provide ease and accuracy of tuning. Tiny needles move across the faces of the micro-selector scales to indicate the position of foreign stations. Various means of showing the tuning band in use have been devised. RCA Victor and General Electric bring a new scale into view with every band. Philco throws a tiny spotlight on the proper dial divisions, while other manufacturers use a system of colored lights.

Zenith's mammoth magna-vision dial

was easily the hit of the show. With an ebony background on which the pointers, divisions and figures appear translucent white, the largest dial was about eleven inches in diameter and the smaller ones were twice as big as the average airplane type.

High fidelity is being stressed by several manufacturers. The 1936 models run up to as high as 25 tubes, with from six to ten in the audio end alone. Some of the larger consoles feature three speakers in the attempt to provide the finest possible response over the entire audio frequency range.

Manufacturers once again resort to catchy names for fundamental elements of a circuit. RCA Victor carries over from last year its "Magic Brain"—the station selector comprising all coils, except the IF, with the padders and trimmers—and introduces the "Magic Eye." This is a small cathode ray tube, the end of which projects through the front of the set above the dial. The tube glows green when the set is in operation and a black "retina" of the eye thins to a narrow strip when a station has been tuned in, "on the nose." This, of course, is just another form of the familiar tuning meter, although it is so sensitive that it will react to the weakest signals. The same device is available on Lafayette models and may also be purchased in a unit for installation in other receivers.

Several of the new RCA Victor models range from 5 to 2150 meters, with the exception of a skip from 530 to 400 kcys where the IF stages are tuned and where few stations are found. Twenty-eight models are available for the listener, with the ten-tube table model suggested as an excellent receiver for the DXer.

Zenith is showing twenty-one new models. In addition to the previously-mentioned over-size dials, this manufacturer offers a black ebony finish on all models at a slight ad-

ditional cost. Best bets for the attention of the DXer are the Model 9-S-30, a nine-tube, five-band table set, and the Model 12-A-57, a 12-tube, six-band console job. Listeners will be surprised at the prices of these sets.

The Zenith farm set with its own power supply was the only one of its kind shown and should bid for popularity in urban as well as rural sections. A unit called the Win-charger is mounted on top of the house where the set is to be used. This is a small generator, driven by an airplane type propeller coupled to its shaft, which keeps the storage battery charged at all times. No B or C batteries are required with these receivers, all power being derived from the single battery. The line comprises two 6-tube super-heterodynes, tuning from 550 to 23,-



The General Electric A-82—a four-band table model with tuning range embracing all standard broadcast frequencies as well as foreign s.w., police and amateur signals. Has extra longwave band on which weather and aircraft signals are heard. Uses new metal tubes.

000 kcys, and two 4-tube TRF models covering from 550 to 1800 kcys.

Philco presents forty-five different models ranging in price from \$20 to \$600. Points of interest in this line include Acoustic Clarifiers—which eliminate the booming low notes — over-sized high-fidelity speakers and the familiar, inclined, sounding boards. No metal tubes are used in any of the new models.

Philco also offers a new type all-wave aerial, their own high-efficiency tubes and a built-in automatic aerial selector.

Atwater Kent advances what they term *Control Room Reception*, claiming tone quality equal to that heard by the operators in the control room in the studios. Twelve models feature metal tubes, extra large speakers and a special audio system. Best DX bets seem to be the Model 335, a 7-tube, all-wave table model, and the Model 810, a 10-tube, all-wave console.

Stromberg Carlson uses a newly-discovered leather on the vibrating cone of their speakers. This is called *Carpinchoe* and is said to be non-hardening. A series of built-in baffles surrounds the speaker of the new models and is claimed to eliminate the boom on low notes, cut the vibration from cabinet resonance and allow the sound to come from the front of the set only. An accurately-calibrated, easily-read airplane dial on all models should appeal to the DXer.

General Electric advances several new features on their receivers for 1936. Projection welding on their stabilized dynamic speakers is supposed to eliminate all rattles and vibrations. The *Sentry Box*, a unit similar to the Magic Brain of RCA Victor, houses the coils and switches. A new dial scale, called *Rule Tuning*, is very easy to use. Possibly the best bet from a DXer's standpoint is the A82, an 8-tube table model, covering frequencies between 140 and 19,500 kcys.



Zenith 9-S-30—a nine-tube superheterodyne with tuning range of five wave bands on three dial ranges. Magnavision dial with bands individually illuminated in colors. Split second tuning.

Fada, with fourteen new models, has some nice DX receivers in their 9-tube console models 190C and 192C as well as the 191T, a 9-tube table model. New features are micrometer tuning, automatic tone regulator and high fidelity speakers.

Stewart-Warner is showing fourteen models under the name of *Ferrodyne Radios*. Metal tubes are used throughout. Built-in line filters, eliminating AC line noise, are additional features.

American-Bosch offers twelve models, featuring the *Centromatic*, still another name for the Magic Brain and Sentry Box idea. Best DX bet is probably the 585Y, a 9-tube table model which covers frequencies between 150 and 18,000 kcys.

Pilot—shades of the old Super Wasp! —is showing twelve models with their *Phoromatic* Radio-Phonograph combination taking honors for a set of this type. The real DX job in this line is the Model 364, a 12-tube table

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A New Season Under Way

• • • By CARLETON LORD

ON THE evening of December 8, 1927, nearly three-score radio enthusiasts, attracted by a mutual interest in long distance reception, gathered in the editorial rooms of the Newark Evening News. Out of this informal meeting emerged the first organization of its kind, the Newark News Radio Club, with an initial charter membership of fifty-five.

The activities of the NNRC since its inception eight years ago are well known in radio circles. Many of the outstanding aids to the DXer were conceived and sponsored by the NNRC, with the idea of the courtesy program ranking first in the line of achievements. To the officers and members of this pioneer society can be given much of the credit for bringing the art of DXing to its present high standard.

And so, on the eighth anniversary of its organization, we feel privileged to dedicate this issue of RADEX to the Newark News Radio Club, to its efficient officers and to its two thousand members.

In celebration of this anniversary, we offer short articles by prominent officers and members. The work of the Courtesy Programs Committee is described by Chairman Louis Hahn and a few of his able committeemen. Directors Lloyd Hahn and Arthur Foerster tell of the activities of the Baltimore and Indiana chapters. Personal observations by Henry T. Tyn-dall, Jr., whose record of 1264 verified stations on the broadcast band will withstand a lot of challenging, offers tips to neophytes and old-timers alike. Robert Base of the Baltimore Boosters follows up the recent interest in recording with an account of his own experiences with this angle of radio. Charlotte Geer,

radio columnist of the Newark Evening News, comments on the original club idea of which she was a sponsor.

To Buy or Not to Buy

At the start of a new season, most DXers look longingly at the latest model receivers and wish that the old budget would approve an investment in better reception. While many of us have to be content with "fixin' up" the old set for another year, those who can think in terms of new equipment will be interested in R. H. Tomlinson's report on the New York Radio Show. Himself a DXer of no mean ability, Mr. Tomlinson viewed the show from the standpoint of a midnight marauder and points out models which should suit the standards and the purse of the average long distance listener.

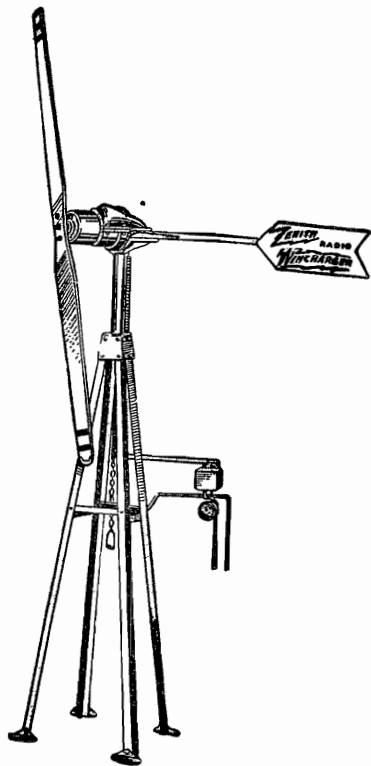
Despite regular publication of reams of copy on the subject of reports to stations, this angle of DXing continues to provide food for thought for many listeners. Certainly the topic is all important, and undoubtedly many cases of non-reply by a broadcaster can be traced to a poor report.

"In your October issue," observes William H. Ansell, 168 Wascana street North, Regina, Sask., "a reader laments on not having received a verification from 1YA, although he states that he sent them a good report containing a lot of dope. While I am not trying to pass any reflection on the type of reports which this reader sends out, I have read carbon copies of reports sent by many other DXers and it is a mystery to me that some stations do verify the flimsy, unintelligible information which they receive at times. Many reports are all jumbled up, while

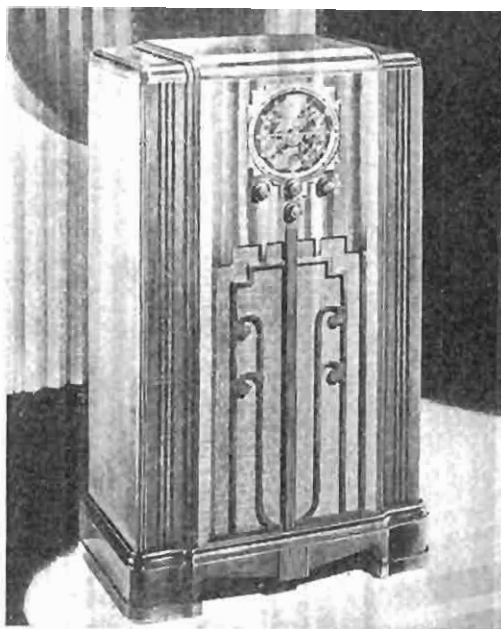
others fail to include the reception data which engineers always welcome.

Ample Information Essential

"From my own experience, I have found that the Aussies and Zedders are pleased to verify accurate reports, and the confirmations are always mailed promptly. If the listener remembers to include information on the receiver, aerial and ground used, the modulation and quality of the signal heard, fading, static, interference, weather conditions, R and QSA codes—and does not forget the



The Zenith "Wincharger" with airplane-type propeller driving a small generator which keeps batteries fully charged. Uses one combination battery only—no B and C batteries required.



Zenith Farm Model 6V-62—a six-tube super-heterodyne, 550 to 23,000 kcs. Five wave bands each illuminated in different colors. Magnavision dial. This model is for use with the Zenith "Wincharger."

return postage—he should have little trouble with the stations in the Antipodes.

"Even the Japs are not overly hard to verify. Listeners who are able to hear these stations should report the programs exactly as heard. While Japanese programs are, of course, in the majority, occasionally the stations transmit English-Japanese language lessons as well as fine programs in English. All Japs announce their call letters very slowly in English at their sign-off (from 0730 to 0815 EST). I have been able to verify 27 Japs, and they certainly send out a wonderful QSL card."

About Australia

"So far this season, I have reported to a few Australians," advises Charles H. Hesterman, 2214 Herman Ave., Saskatoon, Sask. "They are all old-timers, with the exception of the new 7NT at Kelso, Tasmania.

This newcomer is the best of the Aussies so far, coming in at a peak between 0515 MST and daybreak. 2BL is a close second, but the plum goes to 7NT so far. One great thing I have noticed with 7NT is the fact that they give frequent announcements of call, location, and even the correct time. The latter item, of course, makes wonderful material for a verification.

"The failure of Australian stations in the past to announce call letters made it difficult to identify a station, especially since I am upholding the old idea of hearing 'A set of call letters before reporting.' This innovation on the part of 7NT will, I hope, be followed by all or most of the other Aussies. I have written to many of the older Australian stations, asking if they could announce the call and location more frequently, and while some were not interested and failed to reply, others promised that the matter would be given every consideration. The adoption of such a policy would help the newcomer to the DX field more than the old-timer, since many of us can identify an Aussie by the peculiarities of the announcer."

"From January to October of this year," informs Oliver Amlie, 56th and City Line Ave., Philadelphia, Pa., "I have completed 243 reports on transmissions from VK2ME-3ME-3LR, and I hope to have 365 by the end of the year. All of these reports were made on a receiver of my own design, the Amlie Three-Tube DXer, which will be on the market after the first of the year."

Counts His Mileage

"I have 627 stations on the BCB, with 574 verified," comments Nicholas J. Hock, *The Scientific DXer*, 20 Burnet St., Newark, N. J. "Of the latter, sixty-one are 2000-milers. My mileage on verified stations totals 487,711, or an average of 849.6 miles per station." Bro.

Hock seems to be the first reader in some time who has gone in for statistics so thoroughly, so he may able to appreciate the meaning of these figures: verified—887; 2000-milers—121; total mileage—916,452; average mileage—1033.2. Welcome to the Analytical Club, Nick; we talk a common language!

"Reception hasn't been so hot out this way," bemoans Earl R. Roberts, 2308 Roosevelt Ave., Indianapolis, Ind., "as I'm still using the 8-tube superhet I bought back in 1926. Had the tubes tested for a change and found that two were good, three were poor and three were bad. Despite this, I picked up five new ones in a single morning, and that isn't so bad when your log has reached 1000 on the BCB. Haven't heard any T. P.'s so far and don't have much hope."

The CDXR Cards

"Since you quoted me on our CDXR verification cards," precludes Elwin H. Bullard, P. O. Box 170, Drummondville, Que., "I have received many letters containing orders for a supply of these cards. However, I have been obliged to reply that the cards were for sale only to CDXR members. The latest card which we have brought out, is a "Thank-You" form. These are supplied free of charge to all CDXR members and are to be used in thanking stations which have put on special programs for us. No request for verification is made, the purpose being merely to show our appreciation to the broadcasters who have honored our organization with a dedicatory program."

"Have any of your readers constructed the Browning 35 receiver?" queries M. Dean Miller, 7 East Exchange St., Akron, Ohio. "I have been looking for letters about the set and feel that there must be someone who can tell how good it is. While I should like to invest in a fine set like the Scott, I may buy a new

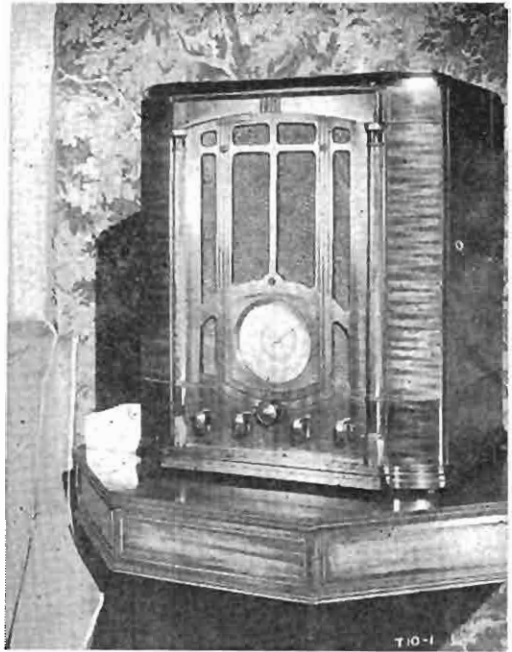
house soon and can't afford both."

Foreign Reception

An unsigned letter from a Hamilton, Ohio, reader raises the old question of the possibility of foreign reception. Addressed to our "Information Department," the letter reads: "According to a recent issue of your magazine, such European stations as Breslau, Brussels and Droitwich are received in this country. Radio dealers here in town inform me that it is impossible to get through local stations, so it is apparent that someone is all wet. Anyhow, I note that the Lafayette radio advertisements mention European broadcasts and I am wondering what reliable, medium-priced receiver will guarantee American broadcast reception (540 to 1500 keys) as well as European broadcast and foreign short wave stations."

In view of the mention of Breslau and Brussels (medium-wave stations) and Droitwich (a long-waver), it is just possible that this reader may have been confused by the term, "European broadcast." As most listeners are aware, there are short wave stations in both America and Europe. However, while the term "broadcast band" refers to the frequencies between 540 and 1570 keys in this country, it has no significance in Europe where there are medium-wave and long-wave stations, both of which might be so termed.

Consequently, while a manufacturer would be safe in guaranteeing foreign short wave reception, he would hardly dare include the medium and long wave stations in the warranty. While his receiver might cover wave lengths between 1000 and 2000 meters, very few listeners in this country have ever been successful in hearing European stations in that band. And, while favorable conditions will make it possible to hear the more powerful medium-wave stations, here again it



The RCA Victor "Magic Brain" T10-1—a ten-tube, three-band superheterodyne using the new metal tubes. It covers 540 to 18,000 kilocycles, has a colorband dial which illuminates band in use, handspreader with a different color for each tuning scale, colorband switch, 50:1 and 10:1 vernier tuning, full A.V.C., continuous tone control, music-speech control, automatic tone compensation.

would be foolish to guarantee such reception.

According to the latest catalog of the Wholesale Radio Service Co., four of their Lafayette models provide coverage of the long wave bands. Special European models of six and seven tube receivers cover the 910-2140 meter band, while standard six and twenty-four tube receivers will tune between 850 and 2000 meters.

Wants the News

"As newspapers are received only eight times a month up here," greets Malcolm C. Macdonald, McLennan, Alta., "I depend a great deal on radio for news and entertainment. We are approximately 200 miles northwest of Edmonton and, since

the winters are long, reception is good. KSL and WOAI are my standbys throughout the year, although it is puzzling to note that the latter, which is more than 2000 miles distant, should be a regular. Other good stations are KPO, KOA, KFI, KNX, KJR, KEX, KHQ, and CFCN, while there are many others which are well received during the long winter.

"From October to March, it is possible to hear western U. S. A. stations throughout the day. Oddly enough, while my reception extends well south and west, I don't go far east—usually stopping at Chicago and St. Louis in the States and Port Arthur in Canada. Another peculiar thing is that CKY, 800 miles from here, is drowned out most of the time by XEAW, three times as far away. It is a great puzzle to read the reports of foreign reception on the broadcast band when I have been unable to go beyond the 3000-mile mark on my 8-tube General Electric receiver. I shall never be satisfied until I can do this too."

Another DXer who is still awaiting the thrill of hearing his first foreigner is John B. Grund, Box 456, Hillsboro, N. H. "Although I started my log in September, 1934, and now have 468 stations heard," he laments, "I've been unable to hear any foreigners. My best catches are HJN, KWG, KIDW, 10AK, KGEK, KGFK and KPFM, but I'm still hoping to pick up a T.A. or a T.P. I often wonder if there are any other DXers in New Hampshire besides Bob Wood and myself. If there are, and I feel quite certain that there must be, I'd like to get in touch with them."

Chit Chat

"As you probably know," offers H. H. Searles, 351 Broadway, Rochester, N. Y., "we are going to have a new station up here. The Brown Radio Service and Laboratory has been granted permission to erect

a 100-watt station and they will probably be testing early in December. Their studios are in the Temple Building. My log now stands at 615 heard and 497 verified. Of the latter my best are Poste Parisien, Fecamp, CT1GL, LR5, YV1RC, YV3BC, TGW, HHK, XEWZ, VE9EK, CPX and KGW."

"A letter from Doctor Brinkley to the NNRC tells about his policy in regard to reports from DXers," informs Eric Butcher, Cokeville, Wyo. "He writes: 'If my station affords entertainment, I am glad of it, but please tell your friends that we will *not* verify reception. Any money you may send to Mexican stations will be confiscated by the Mexican customs officials.'"

In reply to our questionnaire this summer, XEAW stated that reports which contained a stamped, addressed envelope *would* be confirmed.

"The new station at Hibbing, Minn., WMFG, tells me that their frequency check will be held between 5:50 and 6:10 AM, EST, the first Friday of each month," supplies Mrs. Olive Johnson, Henry, S. D. "Incidentally, why not follow up the vote on whether readers wanted pictures of the stars and find out how many like the pretty girls on your cover? They hardly go with a radio magazine, do you think? When I buy a magazine on the newsstands and want some wild-west stories, for example, I look for something about the west—not a picture of a streamlined car, a necklace or the latest in dishrags!"

"Well, I started off the new DX season on September 1st with a new 5-tube Lafayette receiver," admits Manuel A. Cadilla, Box 337, San Juan, P. R. "Also, I stuck up a new aerial which is 135 feet long and slopes from 45 feet high at the far end to 35 feet at the house. During the first week, I logged 13 new stations, but was stopped by the complaint of an old-lady neighbor who

didn't like the noise. As it wasn't worth the trouble to fight it out with her, I won't resume DXing until the arrival of the headphones which I ordered from you."

Judging from more or less recent reports, the forecast of poor reception this winter seems to have been justified so far. While we hope that the official prognosticator was wrong and that conditions will soon pick up, we've got to admit that he got off to a good start. Consider the following general reports:

"This is absolutely the rottenest season I've ever put in. Not one new foreigner so far, just a few locals and lots of static." S. R. Lewis, Rt. No. 3, Box 680, Toledo, Ohio.

"STATIC was R9 plus in Goderich Sunday and signals R2 in comparison." Fred Bisset in CDXR bulletin of October 16th.

"Reception continued poor during the past week and many of our specials were not heard due to severe static." R. H. Weaver in NRC bulletin of October 23rd.

Radio Clubs Attention

"Please send information on some good DX club," requests Walter R. McDonald, Box 401, Blackfoot, Idaho. "I am purchasing a new 10-tube all-wave RCA receiver, so I would like to participate in the interesting hobby of DXing in a manner which will bring the greatest enjoyment and success. I have read so much on the right and wrong methods that I don't want to be disappointed by getting off on the wrong foot."

"Two years ago I bought a 6-tube Philco 89L," recalls H. A. Turner, 263 St. Clair St., Bridgeville, Pa., "and have logged a total of 712 stations. I start a new log with each new receiver, so the total isn't as high as it might be. However, I have found the set very sensitive and selective, and I am able to pull in the 100-watters on the west coast most

any fair night. I only attempt to verify the better catches and am rather proud of CX26, LR5, CT1GL, XES, CJLS, HHK and a number of small stations in the United States. Only four stations have refused to verify for me, although I waited six months for one broadcaster to come through with my confirmation."

"DX has been slow here," confesses Clarence Merkel, Jr., 622 1/2 No. Seventh St., Quincy, Ill., "but I have increased my log to 750 stations heard with 310 verified. Recently I revamped my Crosley and am looking forward to a banner DX season."

"Last March I received a verification card from JOCK at Nagoya, Japan," relates Ashley Walcott, 76 San Rafael Way, San Francisco, Cal. "While my report was on their 1175 keys station JOCK2, their printed card read: 'In reply to your letter of recent date, picking up our station, we are pleased to verify that your reception is correct.' The heading on the card gave the frequency and power of the No. 1 and No. 2 stations and there was no specification as to which transmitter was being verified. Now, would you consider this a verification of JOCK2, or is it unfortunately invalid?"

Canadian Programs

"The CRC networks certainly are run on a very complicated system," maintains Jack McLaren, 515 Rathgar Ave., Winnipeg, Man. "Regular Sunday programs start on the *National Network* at 5:00 PM, EST, and continue until 11:00 PM, at which time the *National Network* goes to bed and programs continue on the *Western Network* until 12:30 AM. Then, this net goes to bed and the *British Columbia Network* carries on. On weekdays, we find the eastern network commencing at 5:30 PM, EST. At 7:30, the *Midwest Network*—a minor hook-up extending from Winnipeg to Lethbridge—is added and the two work to-

gether until 8:30, at which time the national, coast-to-coast system is brought into play. At 10:30, the eastern group of stations drops out, leaving the *Mid-East Network*—another minor group taking in the territory between New Carlisle, Que., and Fort William, Ont.—and the western groups. At 11:00, only the western and British Columbia networks are left, with the former going to bed at 12:30. Of course, the whole idea is to build up westwards and die down in the east, but it must be a headache for the program director. Occasionally during the evening, a special program may be routed over the *French Network* in Quebec or the *Maritime Network* in Nova Scotia, Prince Edward Island and New Brunswick."

"No one is interested in a long, detailed report of a manufacturer on his radios," avows C. H. Skatzes, Delaware, Ohio. "What we want is the comparison of different receivers in side-by-side reception tests under varying conditions. That would be *news*. If the manufacturer is selling his set with his own sales talk, he should use the advertising section."

While we believe that it would be impossible to stage a side-by-side competitive test of a number of receivers, we have offered our facilities to any manufacturer who wishes an unbiased report on his product. When we consider the varying tastes of the average person, it seems unlikely that any receiver can appeal to every listener. However, we are willing to use different models in actual DX work and report on our findings as to sensitivity, selectivity, noise level and the other vital characteristics of a receiver for long distance work. Our offer has been printed before and is now made again. The rest is up to the manufacturers.

"I am compiling the history of every existing and disbanded DX club in the country," points out B. L. Ahman, 3313 Westerwald Ave., Bal-

timore, Md., "and would appreciate information of the following organizations: The Philadelphia DX Combine, Flatbush DX Club, Lake Shore Radio Club, R9 Listeners League, Philadelphia Radio Club, Wauwatosa DX League, Toronto Evening Telegram Radio Club, Rochester DX Club, Southern States Radio Club, International Broadcasting Club and the International Radio Society. I should like to hear from any readers who may know anything about these or other disbanded radio clubs."

The Editor's Corner

IN THIS issue we are again presenting the lists of the foreign broadcasting stations on the broadcast band. These have been brought up to date and considerably amplified through the kindness of many readers in foreign lands. Apropos of this we quote from a letter received from a reader whom we shall protect with anonymity: "These letters you publish claiming to receive the stations in Europe, Australia, Japan, etc., are 'the bunk.' On the short waves, maybe, but not on the broadcast band. I have tried to tune them in hundreds of times and have never had so much as a peep from one of them. I do not hesitate to state that it is absolutely impossible to receive these stations across the oceans in North America between 550 and 1500 kcys."

We receive lots of letters complaining of inability to tune in the foreign stations but never one of so positive a nature. We will admit that tuning in a foreign station clearly is something to write home about but it is being done every night of the year somewhere on this continent. It requires a good set, a good location, lots of patience and persistence, and a knowledge of just where and when to tune. Study the lists published in this magazine, note the times given and convert them into the time of your

own zone (Adv. The RADEX Time Converter does this for you) and, if at first you don't succeed—you know the rest.

Those who are particularly interested in the European stations should read the article with the accompanying data which we published in the October issue entitled "Tuning the Foreigners" with a list "Europeans Worth Trying For." (Adv. Back issues 25c each)

Time on the Air

In the Index by Frequencies this month will be found the hours each station is on the air from Monday to Friday inclusive. Saturday's time was published in the November issue and Sunday's in October. Those hours marked with an asterisk indicate that they are the same for Saturday also.

In the January issue, the Short Wave Stations of the World will again appear with constantly increasing data. Several readers have requested that we again publish a consolidated list of all broadcasting stations, both North American and foreign, in a single list. Possibly this may appear in February. How many want it?

We want clear and interesting photographs of radio stations in foreign lands. We will appreciate it if our readers will send us any they may have in their collections. Mark name and address clearly on back and the photos will be returned.

Miguel A. Rivera, P. O. Box 480, Hong Kong, China, sends us some late news concerning stations in China, Japan and other Far East countries. Miguel is a native of Peru now residing in Hong Kong. He would like to correspond with any DXer of about seventeen years of age.

We are informed that the Ekko Company is still prepared to furnish individual station Ekko stamps upon receipt of ten cents and a clear verification from any station. Their address is P. O. Box 295, Ravinia, Illinois.

About the Stations

Page Taylor informs us that a new Colombian law requires that the power

of all shortwave broadcasting stations must be in excess of 500 watts. All stations using less power must move to the broadcast band. He therefore turns over to the b. c. department, Station HJ5ABE, Cali, Colombia, which will move to 1500 kcs. this month.

This month we list the first broadcasting station from the Isthmus—HP50 of Colon, Panama, on 1440 kcs. with 25 watts. It is RCA-equipped, crystal-controlled, and is located on the roof of the Colon postoffice building. The antenna rises 75 feet above the building or 135 feet above sea level.

Radio Station WAML, Laurel, Miss., advises us that they returned to the air on October 16th after an absence of nearly six months. We are reinstating this station in our lists.

Mrs. J. L. Bush, manager of WJZ, Tuscola, Ill., writes us that they will not be able to complete the construction of their new 250-watt transmitter before the first of January.

KFBK, Sacramento, Calif., expects to be on the air with 5000 watts sometime around the first of December, according to Howard Lane, Business Manager.

The FCC records deleted WBHS, Huntsville, Ala., several months ago but we notice the station mentioned in a recent report which would indicate that it is still on the air. Can any of our readers enlighten us?

We wish for all of our readers a Very Merry Christmas and a Happy New Year.

The Frequency Charts

THE diagram which follows is one of a series which began in our May, 1935, issue and which will be concluded in a subsequent number. The complete set of these charts will give in diagrammatic form a picture of the allocation of frequencies to various radio services. These charts should be saved and mounted as they will be of great assistance in tuning, particularly in the short wave field.

IDA Contest Winners

THE 1934-1935 Randolph IDA DX Trophy Contest is over and the winners will be announced in the November "Globe Circler," as follows:

J. L. Sullivan, Cambridge, N. Z., the Grand Award with a total of 8841 points.

Chas. Hesterman, Saskatoon, Sask., Second Grand Award with 7259 points.

William Keighley, Walton, Carn Towan, Sennen, S. O., Cornwall, England, Third Grand Award with 5445 points.

Warren Reichardt, 6 Woodward Ave., Reading, Mass., fourth place with 5270.

Leo A. J. DeRoo, Lanikau, Oahu, Hawaii, fifth with 5177.

Irwin Beitman, Elyria, Ohio, sixth with 3794.

R. T. Coales, Southsea, England, seventh with 3140.

R. Stansfield, Ripley, Woking, England, eighth with 2780.

A. C. Lyell, Johannesburg, South Africa, ninth with 2775.

Howard Eck, East Lansing, Mich., tenth with 2711.

Randolph Hunt, Encinitas, Calif., (sponsor of the contest) eleventh with 2202.

Ray Swenson, Rockford, Ill., twelfth with 2093.

R. H. Tomlinson, Port Chester, N. Y., thirteenth with 2015.

Fred Crowder, Hull, England, fourteenth with 2015.

To Mr. Sullivan goes the Grand Victory Trophy which is forty inches high and constructed of 24-karat gold and silver sterling parts. The base is ebonized hardwood. The Trophy represents the World surmounted by a victory figure. The IDA is indebted to Randolph Hunt for this exquisite and expensive Trophy.

13990 - 16620		16640 - 20125		20140 - 23175	
P-P	to	STG	16640	P-P	20140
13990	14005	STG	16680	Gov	20150
Amateur	to	P	16700	P-P	20160
14345	14410	CTG	16720	to	20270
Point to Point	to	CTG	16740	Gov	20275
14995	15000	Gov	16800	to	20340
Gov	15010	CTG	16820	p-p	to (B)
15085	15100	Gov	16840	Gov	20380
R	15110	CTG	16920	Gov	20400
E	15130	Gov	16940	to	20420
Gov	15139	CTG	16960	Point to Point	to
15145	15145	Gov	17000	to	21020
RE	to (A)	CTG	17020	Gov	21025
15340	15355	CTG	17040	to	21040
Point to Point	to	Gov	17060	21020	to
16015	16020	CTG	17080	Gov	21040
Gov	16030	CTG	17120	to	21440
P	16045	Gov	17140	R	21460
16060	16060	CTG	17160	E	21480
Gov	16075	Gov	17180	Gov	21500
P-P	16080	CTG	17200	R	21520
Gov	16090	Gov	17220	E	21540
P-P	16100	CTG	17240	Gov	21575
Gov	16105	Gov	17260	to	21900
P-P	16120	CTG	17280	Gov	21925
Gov	16135	Gov	17300	to	21950
to	16165	CTG	17320	Gov	21975
Gov	16180	Gov	17340	to	22000
16195	16225	CTG	17360	CTG	22050
AV	16240	Gov	17380	to	22075
P-P	16255	CTG	17400	Gov	22100
to	16285	Gov	17420	to	22150
Gov	16300	CTG	17440	Gov	22175
P-P	16315	Gov	17460	STG	22200
Gov	16320	CTG	17480	P	22225
P-P	16330	Gov	17500	R	22250
Gov	16340	CTG	17520	to	22275
16345	16390	Gov	17540	CTG	to (C)
to	16405	CTG	17560	to	22550
STG	16420	Gov	17580	Gov	22575
Gov	16440	CTG	17600	CTG	22600
AV	16460	Gov	17620	Gov	22625
to	16520	CTG	17640	CTG	22650
STG	16540	Gov	17660	to	22675
Gov	16560	CTG	17680	CTG	22725
AV	16580	Gov	17700	to	22750
CTG	16600	CTG	17720	p-p	to (D)
Gov	16620	Gov	17740	to	22900
16620	16620	CTG	17760	STG	22925
16620	16620	Gov	17780	to	23000
16620	16620	CTG	17800	to	23025
16620	16620	Gov	17820	to	23075
16620	16620	CTG	17840	EX	23100
16620	16620	Gov	17860	to	23125
16620	16620	CTG	17880	to	(35)
16620	16620	Gov	17900	to	
16620	16620	CTG	17920		
16620	16620	Gov	17940		
16620	16620	CTG	17960		
16620	16620	Gov	17980		
16620	16620	CTG	18000		
16620	16620	Gov	18020		
16620	16620	CTG	18040		
16620	16620	Gov	18060		
16620	16620	CTG	18080		
16620	16620	Gov	18100		
16620	16620	CTG	18120		
16620	16620	Gov	18140		
16620	16620	CTG	18160		
16620	16620	Gov	18180		
16620	16620	CTG	18200		
16620	16620	Gov	18220		
16620	16620	CTG	18240		
16620	16620	Gov	18260		
16620	16620	CTG	18280		
16620	16620	Gov	18300		
16620	16620	CTG	18320		
16620	16620	Gov	18340		
16620	16620	CTG	18360		
16620	16620	Gov	18380		
16620	16620	CTG	18400		
16620	16620	Gov	18420		
16620	16620	CTG	18440		
16620	16620	Gov	18460		
16620	16620	CTG	18480		
16620	16620	Gov	18500		
16620	16620	CTG	18520		
16620	16620	Gov	18540		
16620	16620	CTG	18560		
16620	16620	Gov	18580		
16620	16620	CTG	18600		
16620	16620	Gov	18620		

Leaves From A DXer's Scrapbook

● ● ● By COUNT DE VERIES

PROBABLY one of the most important features of a well-organized DX club is an efficient Courtesy Programs Committee. Entrusted with the task of providing club members with special programs from desired stations at suitable hours, the CPC works hard to schedule the greatest possible number of dedicatory broadcasts.

However, in recent years it seems that the CPC members have forgotten the primary purpose of their activity — that of enabling DXers to log and verify a needed broadcaster. There seems to have developed a race between the various clubs to see which CPC can line up the most programs from September to May of a given year — and the committee which schedules a thousand programs, apparently is more efficient than one which can claim but five hundred.

While it is very nice to have a station dedicate a broadcast to a group of DXers, is there any need to have the program repeated every few weeks during the winter months? The DXer who is really interested in logging a station will, with few exceptions, require more than one or two cracks at the station in question. Therefore, why expect a station to continue its dedications throughout the DX season?

Last year, the CDXR claimed over 1100 special programs. The NNRC had over 700 and the other clubs had their share. Thus, it is safe to assume that about 2000 specials were transmitted to various organizations during a period of seven or eight months.

In addition to taxing the facilities of the stations concerned, the DXer has to carry a heavy burden. By all rules of the game, the members

of each club are expected to report on every program dedicated to the club, and thank-you cards are in order when verifications are not required. It seems to be asking a good deal of a listener to expect him to send off a thousand or so reports merely to uphold the honor of his club, and yet there is nothing else he can do under the circumstances.

Therefore, why not put a little more stress on *Quality* and forget about *Quantity*? Let the primary objective of a CPC be to provide programs which DXers need for verification purposes and go easy on the idea of repeated dedications from the same station!

* * * *

Speaking of CPC work, the activities of the Clearing House was brought to mind recently. As some will recall, we suggested in the October issue that the recently-adopted plan for inter-club co-operation did not provide a means to *prevent* clashing of special programs. Rather, we felt that it merely prescribed a remedy when a conflict arose.

An illustration of this point was noted in the NRC bulletin of October 9th. Station WRDW had been lined up for the morning of October 20th for the NRC, but previous confirmation of a CDXR special from WTMV made it necessary to postpone the former special. While the WRDW program was changed and the threatened conflict avoided, we cannot help but wonder at the reaction of the WRDW management when they were advised of the necessity of the change.

As we pointed out previously, CPC men may work months on two stations whose broadcasts will conflict, yet neither they nor the stations will know about it until a relatively short

time before the scheduled date of the special.

* * * *

It is usually just about this time of year that we begin to get reports of some rather improbable catches. It seems that when a few, inoffensive Cuban and Mexican broadcasters start to show up between the domestic stations, we hear a lot of reports about Spaniard, Italians, Argentines, Brazilians and Fiji Islanders.

Apparently this season is not an exception. Just when every DXer in the country is going after a reported PRA6 on 815 kcys, the station turns out to be our old friend CMCF.

All this may seem unimportant on the surface and worthy of nothing more than a laugh at the expense of those who made the original report of the Brazilian, yet it really is a pretty serious matter. It is just another example of haphazard reporting and, as such, it becomes one of the most unfortunate angles of DXing.

While it is conceded that it is often difficult to identify foreign stations, especially when a foreign tongue is heard, DXers should use more than usual care in logging and reporting. It doesn't take many incorrect reports, no matter how innocent they may be, to create suspicion in the minds of the broadcasters. Certainly it is better to pass up a possible verification than to run the risk of bringing a cloud over the DXing fraternity as a whole.

As the result of many hours at the dials, the veteran DXer can usually tell a Cuban from a Mexican and distinguish either of these from a South American. He has learned to identify peculiarities of enunciation and he doesn't need to be a linguist to pick out call letters and locations from station announcements. And, of paramount importance, he is pretty sure of a station's identity before reporting.

The sooner all DXers cut down on their imagination and mix in a little caution and actual data with their verification formula, the better DXing will be for all of us.

* * * *

Wonder how many listeners realize the number of new stations which have been announced during the past year. Ordinarily, we merely check the list of changes in each issue of RADEX, note the new transmitters, thank heaven for additional possible stations for our log, and go about the business of DXing. However, during the past twelve months, the FCC has been handing out construction permits right and left, and it has now reached the point where it is actually rather difficult to keep track of the new stations.

A check-up on the back issues of RADEX shows the following corrections in the station listings each month:

December, 1934: New—WWPA, WMFG, WMFF, WMFD, KFRO, WNBC, and KABN; Deleted—WJEM.

January, 1935: New — WELI, WCOP, KIUJ, WMFJ and WPRP; Deleted — WKFI; Moves — KYW to Philadelphia, WCBD to Waukegan, WLBW (now WHIO) to Dayton; WGLC (now WABY) to Albany, and WMEX to Boston.

February: New — KRLC; Calls—WQDX to WPAX.

March. New — KHSL, WMFM, WAIM, KELD, WMFO, WLEU; Deleted — WBHS; Calls — WF1-WLIT to WFIL, KWCR to KRNT; Moves—WKEU to Griffin.

April: New—KIUL, KVSD, WEMP, WCMI, KWBG, KIUN, WTMV, KPLC, WPAY; Moves — WMT to Cedar Rapids, WGCM to Mississippi City; Calls — KABN to KABR; Deleted — WNBO.

May: New—KINY., WFMD, KIUO, KROC, KAST, WPAR; Calls—WKBF to WIRE; Deleted — KFPM, KSO; Move — KGFK to Duluth.

June: New — WMFR, KVOL; Deleted — KWFV.

September: New — WNRI, KDON, KIUP, KALB, KNEL; Calls — KTAB to KSFO, KTM to KEHE (?), KGRS to KGNC; Deleted—WWPA, WDAG, KGIX; Move — WVA to Harrisonburg.

October: New — KHBC, KNET, KRNR, WHBB and Valley City, N. D.

November: New—WBNY, KRLH; Calls — KPCB to KIRO, WFBE to WCPO; Deleted — WAML, WRBX.

All in all, we find that there were no less than 48 new stations given construction permits, while but 12 broadcasters were deleted — a net increase of 36 stations. Considering changes in call letters and various moves, DXers certainly have had their share of trouble keeping their logs up to date.

As if all this wasn't enough, a recent NRC bulletin forecasts further sweeping changes in the broadcast spectrum. A new plan of the FCC calls for the elimination of cleared channels, increasing the broadcast band to 1600 keys, addition of 100 new stations and the increase in power of many existing stations.

* * * *

A pat on the back for the CDXR! The introduction of their new thank-you cards, supplied free to CDXR members, is a very definite forward step in the matter of showing appreciation to broadcasters.

* * * *

Wonder why it is that there are no short wave stations on the West Coast? Why should the Mississippi River be a "boundary line" beyond which there are no Hi Q transmitters? Certainly programs originating out that way are worthy of being relayed to remote corners of this and other countries, while good-will broadcasts directed to listeners in Asia could only be of value to all concerned.

On the "Under Side"

THAT active and efficient organization, the New Zealand DX Radio Association, has just published a new edition of "Radio Calls of the World." This contains all stations on the air as of September 20th on the broadcast band. Mr. A. I. Breen, Editorial Secretary, calls our attention to numerous changes thus enabling us to make the list of foreign broadcasters in this issue fully up-to-date. The following quotations are from his letter:

"Many conflicting lists have been received from China in the past but the broadcasting situation there is now somewhat clarified by the Government allotting specified frequencies with the result that many low-powered stations, notably in Wusih, Ning-Po, Suchow, etc., have gone off the air. We can fairly claim that our information is accurate and up-to-date. There are a number of stations in the interior provinces of China which have not yet become subject to Government control and, beyond the fact that they are there, little information can be obtained about them.

"XTOY changed its call to XOTY, shifted to 1000 kcs, reduced power to 50 watts, and has now changed its call again to XGOT. Its location is Taiyuan, Shen-si Province. This makes two stations operating under the call of XGOT—Peiping and Taiyuan. A similar case is XHHA at Shanghai and XHHA at Hangchow. No doubt this situation will be cleared up shortly but it appears that both are definitely using the call at present.

"From Japan, JFCK, Taichu, Formosa, is being heard consistently on 580 kcs, with 1000 watts. Another Eastern Station on 590 kcs. is being heard near 5 a. m. at good strength but is so far unidentified. It has been heard to announce 'JOJQ

experimental station of —Electric Company' but its location is still doubtful.

"There have been many alterations in the power of Australian 'A' stations, notably 2CO, Corowa, reduced from 7 k. w. to 1000 watts. Station 2GZ, Orange, N. S. W., 990 kc. 2000 watts, will be officially opened on October 31st. This station is being erected by the Farmers & Graziers Assn. of N. S. W., who have also let a contract to Amalgamated Wireless for another station, 2NZ, Narrabri, N. S. W., to be on the air early in 1936. Its aerial power will also be 2000 watts and tentatively its frequency has been assigned as 1170 kcs. 4GY, Gympie, Qld., and 4BU, Bundaberg, Qld., will be on the air toward the end of 1935. 2BE, Bega, N. S. W., will be opened in December, 1935. The transmitter of 4PM, Port Moresby, Qld., has been completed and it should be on the air by the time you receive this letter.

"The new Australian relay stations are well behind building schedule and the latest official information *re* opening dates of these stations is as follows: 3GI, October, 1935; 4QN and 2NR, end of December, 1935; 6WA, March, 1936; 2CR and 3WV, June, 1936.

"The New Zealand situation at present is very doubtful. The privately-owned stations have been served with notices to pay to the Copyright Association a royalty of 10/ per side in respect of all records broadcast during the last three years. In the meantime 1ZJ, Auckland, has ceased transmitting until the demands of the record companies are made more explicit while many others are working on a skeleton schedule with programs by local artists, talks, etc. 1ZH, Hamilton, has definitely closed down.

"The new 4YA 10-kw transmitter is being erected at Highcliff, near Dunedin, and is expected to be testing before the end of October."

Notes On The CDXR

●●● By George R. Schneider

THIS month commemorates the third anniversary of the Canadian DX Relay. Originally open only to Canadian DXers, it is today the Dominion's one DX Club.

Last season's Singleton & Eliminator Contest was won by Charles Hesterman, Saskatoon, Sask., with 630 points. William A. Ansell, Regina, Sask., took second honors with 195 points.

The Foreign Verifications Cup was also won by Mr. Hesterman, with 86 qualifying verifications. These included 39 from the Antipodes, 22 Japs, 16 Europeans, six South Americans, two Hawaiians and HHK.

A new contest is now open to all North American DXers. It is based on a mileage point system and the Randolph Hunt Trophy is the valued award.

Last season the CDXR set an all-time record at which future Courtesy Programs Committees may shoot. During the official season, more than 1100 special programs were dedicated to the club, exceeding by far the record of any club heretofore.

This year the CPC has prepared a special pamphlet which is sent to all stations transmitting for the CDXR. It is titled "How to get the best results from a DX broadcast" and gives helpful information on best times for different localities, importance of frequent and slow station announcements, the most-easily recognized musical selections, tests for fading, etc. We believe this will help bring about the production of better DX programs.

The CPC announces a novel series of DX programs for those able to tune long waves. The steamship "New Northland," sailing between Miami, Fla., and Nassau, Bahamas, will broadcast four special tests for

CDXR members on January 6, 7, 13 and 14. Using their 100 watt transmitter on a frequency of approximately 425 kcys, the tests will occur from 5:00 to 5:05 A. M., EST., on these dates.

The CDXR birthday party of special programs has been set for the mornings of December 14 and 15. While complete details are not ready at the time of writing, we expect to find the air jammed with specials.

Another CDXR scoop is the new official thank-you card for use by members when a verification of a special program is not desired. These cards are supplied free to all CDXR members and are to be used in thanking stations which have been good enough to honor us with a DX program.

Using a Second Speaker

OFTENTIMES it is desired to have an additional speaker in a distant room and we receive many requests for information in regard to connecting it. A speaker of the cone or magnetic type works on the same principle as do headphones and it may be connected to a set in exactly the same manner. For the installation the Perfect Phone Adapter is ideal as it permits the use of either speaker at will or of both at one time.

The Phone Adapter is attached to the set in the usual way by placing the small socket-adapters under the audio or power tube or tubes. The tips of an extension cord are then inserted in the Adapter and run to the second speaker. The toggle switch on the Adapter permits the set speaker to be silenced at will.

If it is desired to control the volume of the set from the room in which the second speaker is located, a Distant Volume Control is necessary. In this case the D. V. C. is connected to the extension cord and the speaker to the D. V. C. It will now

be possible to control the volume of the set from minimum to maximum from the bedroom even though the set itself is located in a distant room. Headphones may be used in place of the second speaker at any time desired.

The Newark News Club

(Continued from page 10)

We have made an excellent start with several new members added this fall. In addition, we persuaded WIRE to give us a tip period every week. Finally, we are publishing our own semi-monthly DX sheet and have received many favorable comments from DXers all over the country. We believe in letting our actions speak for themselves and do not resort to the blatant crowing of a rooster.

Arthur E. Forester.

Short Wave News

(Continued from page 17)

frequency standards. On each Tuesday and Friday the emissions will be continuous unmodulated waves (CW), and on each Wednesday they will be modulated by an audio frequency.

On all emissions three radio carrier frequencies will be transmitted as follows: noon to 1 p. m., EST, 15.000 megs.; 1:15 to 2:15 p. m., EST, 10.000 megs.; and 2:30 to 3:30 p. m., EST, on 5,000 megs. On the modulated emissions (Wednesdays only), the announcements will be given only at the beginning of the hour. The radiated power will be one kilowatt; it is hoped to increase this power later.

The Bureau welcomes reports of use and comments upon these emissions, including statements of relative fading, intensity, etc. Correspondence should be addressed National Bureau of Standards, Washington, D. C.

Noise Pick-up ABOARD SHIP

THE complaint of a reader, A. E. Pringle, published in our September issue regarding the annoyance of interference aboard ship, brings other letters from listeners on the great seas.

The Captain of a sea-going boat who asks that he be known as "Neptune", gives the following hints: First, Mr. Pringle must get on the good side of the Chief Engineer and have him connect two condensers on each dynamo in series across the generator brushes and ground the common condenser leads to the generator frame. Use 10 or 8-mfd. condensers. Second, try out the electric fans or motors in the house where his set is located. He will find that one fan may cause a noise on one waveband but not on another. Poor brushes—any brush that sparks—will cause plenty of noise. Do the same thing to the fans as was done to the generators only use two one-mfd. condensers. Third, keep the set converter ten feet or more away from his set—the further the better. Make sure there are no loose connections or contacts. Solder and cover all splices, insulate the leadin wires where they come in contact with the steel house.

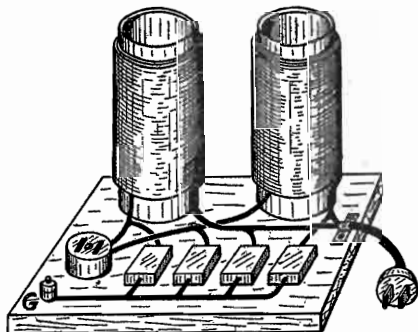
"Neptune" goes on to tell something of his own experiences: "My first set was a Philco 16-B but I now have a Philco 116-B, eleven tubes, with current supplied by a Janette Converter. I have two antennas—one Philco and one RCA—and I can switch from one to the other. Both Philcos have given me very good results. I have s.w. verifications from W2XAF-W8XK for reception from the West Coast of Mexico. From the Gulf of Mexico, I have veries from DJA, EAQ, 2RO, VK2ME-3ME, JVT, HC2RL, W1XAZ. This voyage I have sent reports to JVN, HJ4ABE, Radio Coloniale, KKJ and PCJ and this is

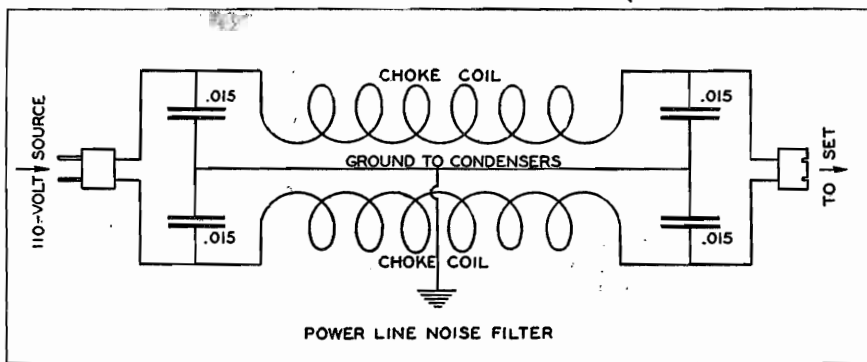
daylight reception. Station KKH, Hawaiian Island, I heard on Sunday morning, October 6, on 7.52 megs. between 1:00 and 1:15 a.m. EST. It came in so well that I copied it over the loud speaker. My daylight stations are GSF, GSC, EAQ, DJB, DJA, 12RO, PHI, PCJ, W8XK, and W3XL.

"If DXers want static, they should sail in the Gulf of Mexico and the Straits of Florida. The broadcast band is terrible. Shortwave is the only way one can get reception. This lasts all summer and is but now becoming fairly good again. I am a steady reader of RADEX but can't subscribe as I am never in the same port twice in one month."

The Chief Engineer of an American-Hawaiian ship writes from the Pacific that his Philco 650-B "brings them all in." This reader uses the noise filter which was fully described and illustrated in our April and May, 1933, issues. For the benefit of others troubled with power-line noises, we are reprinting the diagrams. The "Chief Engineer" says he finds that on some ships this works better without the ground.

The two coils are wound in two layers each. Start the winding at one end of the tube which is about six inches in length and two inches in diameter. Put on about 100 turns





of No. 18 dcc wire in a length of about five inches. Then begin a second layer over the first and return to the starting point with another 100 turns. The 110-volt plug and wire connects to the two outer ends of the two coils while the two inner ends connect to the socket provided for the radio set cord and plug.

The four fixed condensers, each having a capacity of .015 mfd. at about 200 volts, are connected to a common binding post for grounding; the other ends are connected to each of the four ends of the coil windings as shown in the diagram. To keep the wires from unwinding, make two small holes half an inch apart in the tube and pass the end of the wire in and out of these holes. Do not ground to the same wire that grounds the radio receiver.

A Decade of DXing

●●● By Henry T. Tyndall, Jr.

AS THIS is my twelfth season of DXing and verifying is already under way, one might wonder just what there is to this hobby which can keep a person interested for so long.

The start of DXing many years ago brought its share of thrills in the reception of a distant station. When one listener succeeded in tuning a supposedly-credible broadcaster, his boasts were usually squelched by some

more proficient (or blatant) individual and he was forced back for another try at obtaining an ever better catch. Perhaps it was this personal competition which was responsible for my original interest in the hobby.

During the more recent years, since the inception of the Newark News Radio Club, there has been a feeling of fellowship and wholehearted co-operation among the entire DXing fraternity. Many fine friendships are made among the DXers and the broadcasting officials, and undoubtedly this has been of vital importance in maintaining an undiminished interest in long distance reception.

I often wonder how many DXers continue to collect Ekko stamps. A good many became discouraged a few years ago when a stamp exchange was started, even though it came to an abrupt end. However, as this method of collecting verifications is purely a matter of personal honesty, most of us have continued with our collection. Personally, I value my most recent stamp just as much as I did way back in 1924 when my first one came in from WCK in St. Louis. Each stamp represents a station that was actually heard and many of them have an interesting bit of history attached.

At present, my album contains 1264 Ekko stamps. All but about 35 are backed by written verification of some kind and these few stations are now deleted.

During the earlier years, we used to make out a proof of reception card, enclose a dime and send it to the station. Quite often all we received was an Ekko stamp inserted in an envelope. More recently, most of us obtain a verification from the station and then send it to the Ekko company for the stamp.

Possibly every DXer has experienced a certain amount of trouble in getting a few stations to verify a report. My worst experience was with the old WMBA, Newport, R. I. I first heard them in December, 1928, and subsequently on five other occasions during that winter. Each of these receptions was reported in addition to numerous follow-ups on previous reports, but no reply was received. In August, 1929, I returned from a trip to Florida and made a point to stop over in Newport. Arriving at the station at two o'clock, I found that the studios were closed and inquiries resulted in the information that a recorded program would go on in two hours. I cooled my heels around the door until the operator nearly stumbled over me when he dashed in at four o'clock. Inviting me into the station and hurriedly putting a record on the air, the while apologizing profusely, he had me sit down at the station typewriter and tap out my own verification, which he signed. Needless to say, if such an experience was the rule instead of the exception, there wouldn't be many DXers today.

While much has been published concerning methods of making out reports to stations, there is one point which hasn't been emphasized to any extent. If a DXer finds a delinquent station on his log, he should never start sending out "hot" letters. No radio station in existence is compelled to answer reports and it is only a courtesy on their part which brings us our verification. Patience is a virtue and a DXer must have plenty of it.

The greatest possible credit must be given to the Courtesy Programs Committee. In addition to providing DX-



Henry T. Tyndall, Jr.

ers with an immense number of specials from all parts of the world, alertness on the part of CPC men has prevented many a scheduled DX program from going haywire.

On the morning of February 16, 1931, a program from RUS, San Salvador, was arranged. At 2:30 a. m., EST, when the program was scheduled to commence, WEAF began a test on the same frequency. While fans all over the country ran the gamut of emotions, club officials contacted the operators of WEAF and the station left the air. Although only a short time remained, over 100 reports were received by RUS.

Another case of the same type occurred in April of the same year, when the 15-watt KFPM, in Greenville, Texas, was scheduled for a DX program. Imagine the consternation of DXers everywhere when WKAV, Laconia, N. H., came on with a test on the same channel. It was nearly daylight in the East, and time was precious. To the relief of everyone the

announcer at WKAV cut off a recording, informed us that CPC Chairman C. M. Falconer had telephoned from Baltimore advising of the special from KFPM, and immediately signed off, leaving the air clear for the logging of another elusive catch.

A most unusual reception occurred in January, 1925. WTAT, a portable station mounted on a Reo truck, was lashed to the deck of the U. S. S. Tampa. The station was supposed to transmit the various phases of the solar eclipse. At the time of the reception, it was announced that the ship was 90 miles off the coast of Nantucket Island. A make-shift orchestra composed of members of the crew was furnishing the music for the test broadcast. As might be expected of a DXer, I was more thrilled with this reception than with the observation of the celestial phenomenon.

During the past eleven years, I have used only two receivers. A battery-operated Zenith, using four tubes with 135 volts "B," produced very satisfactory results until 1932, when I purchased an 11-tube Model SW32 Lincoln. About a thousand stations were logged on the Zenith, the rest on the Lincoln.

Unlike many DXers, I have not experimented to any great extent with aerial and ground systems. A cold water pipe furnishes my ground and the antenna is an inverted L type, 75 feet long and about 45 feet high. Pipes are used as masts, and the lead-in is shielded and grounded in an attempt to reduce electrical interference.

Much credit must be given to the editors of RADEX for putting out such an informative magazine. DXing would be a haphazard pastime without this wonderful little book. It helps the neophyte to increase his log and is equally valuable to the veteran dialer.

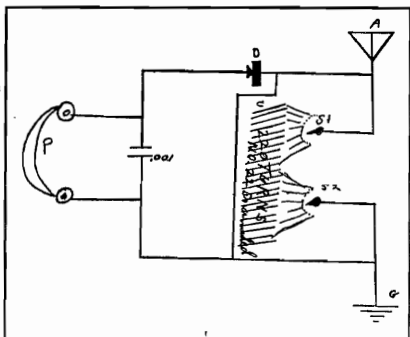
In the January issue, all the short wave stations of the world.

Another Crystal Set

● ● ● By Roy E. DeMent

THE October issue of RADEX opens with an article on building an all-wave crystal receiver. I built many, many crystal sets in 1921-1924 but never used the circuit you use though in those days I did use a 43-plate variable condenser and a vario-coupler for the tuning. I was on the point of making another crystal set for a young nephew of mine for his den. Along came your article so I built it on your lines only using a tapped coil for tuning instead of the two slides as the latter gives no way of logging a station should you want to tune it back. I wound a coil of some seven inches of turns of wire on an inch and a half paper tube, 20 taps taken off to brass pins for switch points, then 20 more taps, which gives the same single wire tuning as the slide coil with the advantage of a means of logging your station. The tuning, however, was so broad that the same station could be heard on every switch point by using the two switches and condenser.

I then decided to build the set using my old standby hookup which has proved very effective, as a station can easily be tuned out by turning from one switch point to the other. I am enclosing the hookup I used in which I have incorporated a few changes made from your circuit in RADEX.



More About Recording

• • • By Robert Base*

WHILE the installation of recording equipment in a radio den may sound like an expensive luxury to most DXers, it opens many new and interesting fields.

As F. Wiseman pointed out in his article in the September issue of RADEX, recorded programs provide an excellent means of submitting reports on reception of different stations. However, I have not gone into this angle very extensively. Besides having to consider the expense of the blank records and the cost of mailing, I have found that I spend most of my time getting an accurate, written report on what I hear.

Also, I suppose that I am rather selfish in that I like to keep good records on file and play them back for my own enjoyment as well as that of visitors. There is no getting around the fact that it is a decided thrill to run off a recording of a good DX catch and I guess this is the biggest argument in favor of making records yourself. If you have caught a station's call letters in an announcement, you have a prize well worth keeping.

Of course, I have sent a few records to stations on special occasions. One record in particular was sent to WHDL on their Cuckoo Club program last winter. I recorded several parts of this broadcast and, a week later when they acknowledged receipt of the records, I made a record of this.

Most of my recordings are made for my own use and include worthwhile DX stations; different programs such as Amos 'n' Andy and Lowell Thomas; baseball games and other features which I may want to hear again; and last, but by no means least, the voices of friends who visit me.

The latter angle is of great interest to me. I have quite a file of these records and it is a penalty every friend must pay when he visits my radio room.

I have also talked on a few records myself and sent them to other DXers with whom I correspond, instead of writing. And, incidentally, if there are any other DXers who also have recording equipment, we might start up a "correspondence" by exchanging messages on records instead of letters.

However, from a DXer's angle, I suppose the recording of actual DX catches would be of paramount importance. I have any number on file and the best include TGW, KOB, COH, Poste Parisien at 6 p. m., CT1AA, CJLS, RW59, CP5, LR5, 10BP, KFFPM, HHK at 8:30 p. m., VE9HX, CKNX, VK3ME, VK3LR, HIZ, as well as a number of foreign amateur phone stations such as HI7G, G5ML and ON4AC.

Of course, there are a great many stations which are received with sufficient volume to make excellent recordings, but the expense of recording every station heard would be too great and so I stick to those which I particularly care to keep.

Most of the DX stations are recorded on 6-inch blanks, while the 10-inchers are used for complete programs.

As can be seen in the accompanying picture, I use two microphones. The one on the table is a home-made velocity type which I bought from a local amateur. The one on the stand is also a velocity type and was made from a Bruno kit with a special, sensitive ribbon. The output of the ribbon feeds into a three-stage, battery-operated pre-amplifier which uses 864 tubes with the filaments hooked in series to permit the use of a 6-volt storage battery. This amplifier can be seen on the microphone stand.

The output of the pre-amplifier feeds into the control panel on the rack, where T-pads allow the mixing of radio, phonograph or microphone, or any one of these three. There is a transformer on the central panel and this feeds into the amplifier input. Additional volume and tone control are on the recording amplifier.

The latter amplifier consists of a

57 first stage, 56 second stage, two 2A5 output tubes, with a 5Z3 rectifier. There are two windings on the output transformer. One feeds into the recording head or to the voice coil of a dynamic speaker which can be used to play back records. The other winding feeds into a magnetic speaker for optional use.

The recording head uses a diamond needle for cutting and recording on blank aluminum disks. The turntable is rim-driven by a 1/20 h. p. motor at 78 r. p. m. When records are being cut, it is possible to monitor the program by means of the earphones hung on the rack.

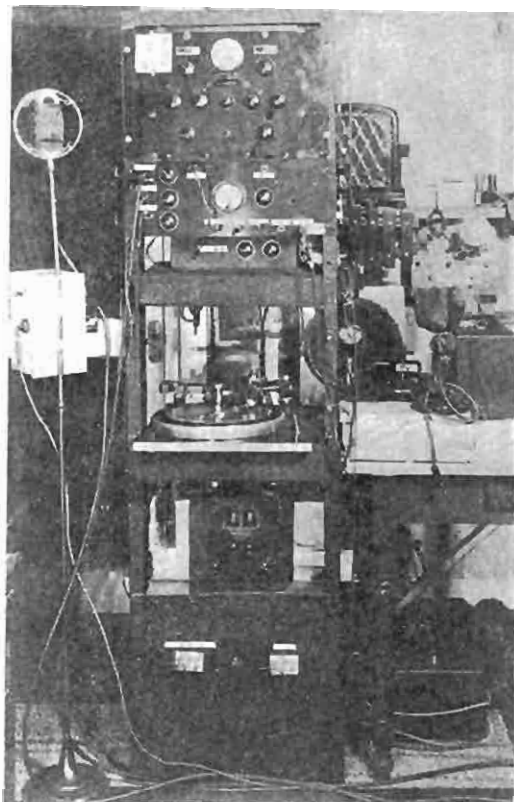
On top of the rack can be seen a cathode ray oscilloscope. While this can be used to check the quality and other characteristics of the recording amplifier, it does not necessarily have anything to do with the making of records and is only kept there because it is handy for other radio work.

The recorder shown may be used only on blank, ungrooved aluminum records and very good results have been obtained. While I do not know how long these records will last, I have never had any which showed any appreciable wear.

The biggest difficulty in this connection seems to be the necessity of sharpening frequently the fibre needle used for playing back the records, and it is possible that I will add another turntable and recording head to enable me to use some of the Universal record blanks called *Silveroid*. This, however, would be only for records where extra quality and durability are desired, since these blanks cost about twice as much as those made of aluminum.

The complete installation of amplifier, recorder and rack was obtained from the Wholesale Radio Service Co. of New York and has proved most satisfactory from every standpoint.

While the Scott receiver shown in the lower part of the rack may be fed



The recording equipment used by Mr. Base in making records of his reception.

into the control panel, most of the radio recording is done with the new 23-tube Scott Imperial which is shown in the other picture. Besides providing the greatest possible sensitivity for records of distant stations, the variable selectivity control of the new Scott provides exceptionally fine reproduction of local programs.

The picture of the new Scott and the display of verifications does not exactly tell the truth, since these confirmations were received on two previous Scott models. However, during the short time in which I have operated the new Imperial, I am convinced that it is a much finer instrument than the others and I am sure that these and many more stations will be heard and recorded during the current DX season.



The 23-tube Scott "Imperial" belonging to Mr. Base and some of his verifications.

At present, I am using two inverted "L" type aerials: one East-West and the other West-East. I expect to try out the doublet idea in the near future and see if it offers any advantage over my present system.

The ground system consists of an old water-heating boiler which is buried upright in the ground over a four foot copper sheet. Connections run from boiler and copper sheet to the receiver. The boiler is filled with water frequently and this, leaking out through small holes punched in the bottom, wets the ground thoroughly around the copper.

Of course, putting rock salt around the boiler might help reception somewhat, but I considered the possibility of the salt killing nearby grass and trees and decided against it.

As to my DXing, I have received a total of 845 stations on the broadcast band, of which 728 are verified. Ninety-eight of these are of the 2000-mile variety. The best veries, with the exception of those which would not show up well, are shown in the picture.

On short waves, nothing out of the ordinary has been received, although I got quite a kick out of hearing SUV, Rabat, HVJ, JVM and a number of foreign 20-meter amateur phone stations.

Still and all, whatever pleasure may be had by DXing is increased many fold by access to good recording equipment. While it is possible to go to extremes and invest heavily in such apparatus, the results obtained from

an inexpensive and relatively simple installation are most satisfactory and the dividends of personal enjoyment are usually well worth the investment.

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LEARNING the Code

A WRITER in World-Radio gives the following simple but extremely practical method of learning to read and write Morse. It is only necessary to memorize the following words given in connection with each letter of the alphabet. Thus A is "Ahoy," B "Boisterously," etc. The emphasized syllables as shown by capital letters indicate dashes while the unaccented syllables indicate dots. Thus Q "QUEEN! QUEEN the QUEEN!" becomes dash-dash-dot-dash.

A . —	a-HOY
B — . . .	BOIS-ter-ous-ly
C — . . .	CAL-e-DO-nia
D — . .	DROWS-i-ly
E .	egg!
F . . — .	fum-i-GA-tion
G — — .	GREAT-GRAND-ma
H	he! he! he! he!
I . .	it is
J . — — —	Ja PAN PAN PAN
K — . —	KING-ly CROWN
L . — . .	lu-CID-it-y
M — —	MORE MICE
N — .	NINE-ty
O — — —	OLD OLD OWL
P . — — .	pro-LONG LONG-er
Q — — . —	QUEEN! QUEEN the QUEEN!
R . — .	re-TURN-ing
S . . .	so she says
T —	TAKE
U . . —	un-der-STAND
V . . . —	ver-y im-MENSE
W . — —	wi-WILD WOLVES
X — . . —	X-cell-ent WINE
Y — . — —	YOUNG -ish YOUNG YOUTH
Z — — . .	ZINC-SINK it is

Anent *The DX Bug*

● ● ● *By Eugene C. Bataille*

THE question often is asked, "What part does the DXer play in the radio broadcasting industry?"

To provide a proper answer to this question, perhaps it would not be amiss to review the early stages of radio development. But first let us consider the definition of the term DX. D, representing Distance, apparently and X representing the Unknown Quantity, would indicate that DX is applied to reception of stations at unknown distances.

To some, however, DXing is described as a disease implanted by a bug. The origin of the bug appears to have come to light during the early history of radio broadcasting. We might say that the larva of the bug was found at the tip of the deceased "catwhisker."

DX, during the reign of the crystal set, was the reception of anything beyond the back fence. The introduction of the single tube increased the scope of the term to as great a distance as one thousand miles. With the development of multiple-tube receivers and the perfection of higher-powered transmitters, DXing reached the stage where we find it possible, today, to receive broadcasts from all parts of the globe.

The hardened critic might say that this development issues the death sentence to the DX bug. The fallacy of this is found in the ever-increasing number of applications received for memberships in the Newark News Radio Club, as well as in many similar organizations in existence today. What is the cause of this increasing interest in DXing?

Is it not true that a person's hobby holds more fascination for him when he discovers someone else with the same interest? This being the case, it might be assumed that

one person having an interest in DXing, having found another with a similar interest, will endeavor to locate more who are bitten by the same insect.

This has been the case in recent years and has brought about the formation of such organizations as the NNRC. While the massing of people with common interests to form clubs is not, in itself, new, nevertheless it tends to inaugurate policies which have the effect of developing new ideas.

Those of us who have assignments on the Courtesy Program Committee have been enabled to learn more and more concerning the broadcaster and the listener. The broadcaster may not be a DXer himself, but his presentations are affected in large measure by the DXer, although he may not be aware of the fact. The listener is oftentimes a DXer, without realizing it. On various occasions he may find himself obliged to tune in



Eugene C. Bataille

distant stations in order to hear the type of broadcast not provided by his local stations. The reception of this distant broadcast may be affected in some manner by atmospheric conditions, or the program may be so presented as to bring criticism or commendation from the listener. Through the interest which he has found in the reception of this distant station, he has become, in effect, a DXer.

Those of us who have had the opportunity of visiting club members and broadcasters at distant points, have found them to be real sportsmen in every sense of the word. Of course we all recognize DXing as a major indoor sport. We find that the real DXer plays the game in a straightforward manner. This is recognized by the broadcaster who assures us that he is more than willing to play the rules in the same respect. A trip through New York State, Quebec and northern Ontario this past summer, gave us the opportunity of proving these facts, for ourselves. Visits to such people as Frank Lynch in Albany, Les Buscoe and other members in Montreal, Reg Irvin of CFCH North Bay, Norman Smith and his family in Kirkland Lake and Pat Murphy of CJKL in that city, Jim Hill in Toronto, Joe Brauner of Williamsville and John Clark of Buffalo will long be remembered by us. In every case we found these folks to be real sportsmen, whose principal aim is to see to it that DXing retains its standing among the leading indoor sports.

The more we see of this DXers' world, the more we realize the magnitude of it all. Although there are those who don't believe it, nevertheless we find the DXer is a rational human being. We see that his interests have had tremendous power in developing the industry of radio broadcasting. It is observed that he is not a person to be pitied but rather someone to be respected for his share in perfecting the finest

source of entertainment known today.

The DXer's world is not confined to the art of dialing for distant transmissions. Instead, it embraces every factor vital to radio broadcasting. Through his suggestions and criticisms, programs may be made more interesting, while the quality of transmission and reception of these programs, may be improved.

We see that the engineering, announcing, program direction and presentation, and, in fact, every phase of radio broadcasting is influenced by and, we might add, dependent upon, the reactions of the DXer!

Idiosyncrasies

(Continued from page 20)

describe. If not, the whole plate circuit, or circuits of the pre-amplifier, will act as a load for the tube from which the power is taken and thus greatly reduce the efficiency of that tube.

Providing that all other connections are correct, the addition of a condenser in series with the antenna will help, but it will do little good if the original cause has not been cured.

The Radio Show

(Continued from page 23)

model which tunes from 530 to 23,700 keys. An accurately-calibrated, two-speed airplane dial, a ten-inch speaker, a phonograph pickup outlet, and a jack for extra speaker and headphones should prove popular with DXers.

A check of the entire show shows that all manufacturers have increased the size of the cabinets, both table and console type, with no appreciable boost in price.

WHAT'S ON THE AIR TONIGHT

Fill in calls and dial numbers for these stations through which you best receive the three chains. You can then turn quickly to the one that has the feature you want.

COLUMBIA..... (C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue (B)	
Call	Dial

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

RADEX is the only publication listing stations in alphabetical order for your convenience.

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

MONDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Buck Rogers 25th Century
 WAAB WABC WCAU WFBL WHK
 WJAS WJR WJSV WKBW WOKO

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Bobby Benson—Sunny Jim
 WAAB WABC WCAU WDRC WEAN
 WFBL WGR WHEC WOKO

E-6:45 p.m., C-5:45, M-4:45, P-3:45
B — Lowell Thomas
 CRCT KDKA WBAL WBZ WBZA
 WFLA WIOD WJAX WJZ WLW
 WMAL WOOD WRVA WSYR WTAM
 WXYZ

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge
 WABC WADC WBT WCAO WCAU
 WDAE WDBO WDRC WEAN WFBL
 WGR WHH WJAS WJR WJSV WKRC
 WNAC WOKO WQAM WSPD WTOG
 WWVA

R — Amos 'n' Andy
 CRCT KSD KYW WBN WCAE
 WCSH WFAE WEEI WFBW WGY
 WJAR WLB WRC WTAG WTAM
 WTTIC WWJ

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Vocals by Verrill
 CFRB CKAC KFH KGKO KLRA
 KLZ KMBC KOMA KSCJ KTRH
 KTSB KVOR KWKH WAAB WABC
 WALA WBT WCAO WCCO WDAE
 WDBJ WDBO WDNC WDOE WEAN
 WFBM WFEA WGR WJST WHEC
 WBW WICC WISN WJR WKBN
 WLAC WLBZ WMAS WMBG WMBR
 WNOX WOKO WORC WQAM WREC
 WSBT WJSV WSPD WTOG

R — Uncle Ezra's Radio Station
 KYW WBN WCAE WCSH WDAF
 WFAE WEEI WFBW WGY WHI
 WIRE WJAR WMAQ WOW WRC
 WSAI WTAG WTAM

B — Ivory Stamp Club
 KDKA KOIL KSO KWK WBAL WBZ
 WBZA WCKY WENR WFIL WGAR
 WHAM WJZ WMAL WMT WSYR
 WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Singing Sam
 KFAB KMOX KRNT WABC WADC
 WBBM WCAO WCAU WCCO WDRC
 WEAN WFBL WFBM WGR WHAS
 WHK WJAS WJR WJSV WKRC
 WNAC WOKO WSPD

B — Lum and Abner
 WBZ WBZA WENR WGAR WJZ
 WLW WSYR

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter
 KMBC KMOX KOMA KRLD WABC
 WBBM WBT WCAO WCAU WCCO
 WDRC WEAN WFBL WGR WHAS
 WHK WJAS WJR WJSV WKRC
 WNAC

B — Dangerous Paradise
 KDKA KOIL KSO KTBS WAVE
 WBAL WBZ WBZA WENR WJDX
 WJZ WLW WMAL WMC WREN
 WSB WSMB WSYR

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Guy Lombardo and Orchestra
 KLRA KWKH WABC WBIG WBT
 WCAO WCAU WCHS WCSC WDBJ
 WDNC WDOE WDRC WEAN WFBM
 WFBL WGR WHEC WHP WIBX
 WICC WJAS WJSV WLAC WLBZ
 WMAS WMBG WNAC WNBW WNOX
 WWO WROC WPG WREC WSJS
 WWL WWVA

R — Hammerstein's Music Hall
 KSD KYW WBN WCAE WCSH
 WDAF WFAE WEEI WFBW WGY
 WHI WHI WJAR WMAQ WOW
 WRC WSAI WTAG WTAM WTTIC
 WWJ

B — Fibber McGee and Molly
 KDKA KDYL KFI KFSD KFYR
 KGW KHQ KOA KOIL KOMO KPO
 KPRC KSO KSTP KTBS KVOO
 WAVE WBAL WBZ WBZA WCKY
 WDAY WECB WFAA WFIL WGAR
 WHAM WBA WIRE WJDX WJZ
 WKY WLS WMAL WMC WMT
 WOAJ WREN WSB WSM WSMB
 WSYR WTMJ WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — One Night Stands
 KFAB KMBC KMOX KRNT KSCJ
 WABC WADC WBBM WCAO WCAU

WDRC WEAN WFBL WFBM WGR
 WGST WHAS WHEC WHK WJAS
 WJR WJSV WKRC WMAS WNAC
 WOKO WORC WSPD

R — Voice of Firestone
 CFBC CRCT KFYR KPRC KSD
 KSTP KTBS KVOO KYW WAVE
 WBN WCAE WCSH WDAF WDAY
 WFAE WECB WEEI WFAA WFBM
 WFLA WGY WHO WHIO WIBA
 WIOD WIRE WIS WJAR WJAX
 WJDX WKY WMAQ WMC WOAJ
 WOW WPTF WRC WRVA WSB
 WSM WSMB WSOC WTAG WTAM
 WTAR WTTIC WTMJ WWJ WWNC

B — Evening in Paris
 KDKA KOIL KSO KWK WBAL WBZ
 WBZA WCKY WFIL WGAR WHAM
 WJZ WLS WMAL WMT WREN
 WSYR WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Lux Radio Theatre
 CFRB CKAC KDB KERN KFAB
 KFBC KFPY KFRC KGB KHJ
 KLRA KLZ KMBC KMJ KMOX
 KOIN KOL KOMA KRLD KRNT
 KSL KTRH KTSB KTUL KVI KWG
 WABC WADC WBBM WBNB WBRC
 WBT WCAO WCAU WCCO WDAE
 WDBJ WDRC WEAN WFBL WFBM
 WGST WHAS WHEC WHK WICC
 WISN WJAS WJR WJSV WKBW
 WKRC WLAC WNAC WNAJ WOKO
 WORC WQAM WREC WSPD WWL

R — A. & P. Gypsies
 KSD KYW WBN WCAE WCSH
 WDAF WFAE WEEI WGY WHO
 WHIO WIRE WJAR WMAQ WOW
 WRC WSAI WTAG WTAM WTTIC
 WWJ

B — Sinclair Greater Minstrels
 KDKA KDYL KFYR KOA KOIL
 KPRC KSO KSTP KTBS KTHS
 KVOO KWK WBAL WBZ WBZA
 WDAY WECB WFAA WFLA WGAR
 WHAM WBA WIOD WIS WJAX
 WJDX WJZ WKY WLS WLW WMAL
 WMC WMT WOAJ WPTF WREN
 WRVA WSB WSM WSMB WSOC
 WSN WSYR WTAR WTMJ WWNC
 WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R — Grace Moore
 KDYL KFI KFSD KFYR KOHL

MONDAY (Continued)

KGIR KGW KHQ KOA KOMO KPO
 KPRC KSD KSTP KTAR KTBS
 KV00 KYW WAVE WBEN WCAE
 WCSH WDAF WDAY WFAF WEBC
 WEEI WFBH WFLA WGY WHO
 WHIO WIBA WIOD WIRE WIS
 WJAR WJAX WJDX WKY WLW
 WMAQ WMC WOAI WOW WPTF
 WRC WRVA WSB WSM WSMB
 WSOC WTAG WTAM WTAR WTIC
 WTMJ WWJ WWNC

B - Princess Pat Players

KDKA KOIL KSO KWK WBAL WBZ
 WBZA WCKY WENR WFIL WGAR
 WHAM WJZ WMAL WMT WREN
 WSYR WXYZ

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

C - Wayne King and Orchestra
 KDB KERN KFAB KFBK KFPY
 KFRC KGB KHJ KLZ KMBC KMJ
 KMOX KOIN KOL KRLL KSL KVI
 KWG WAAB WABC WADC WBBM
 WBNS WCAO WCAU WCCO WDRS
 WEAN WFBL WFBS WHAS WHK
 WIBW WJAS WJR WJSV WKBW
 WKRC WOKO WSPD WWL

R - Contented Program

CFCT CRCT KDYL KFI KGW KHQ
 KOA KOMO KPO KPRC KSD KYW
 WBEN WCAE WCHS WDAF WFAF
 WEEI WFBH WFLA WGY WHO
 WHIO WIS WJAR WJAX WKY
 WMAQ WMC WOAI WOW WPTF
 WRC WRVA WSAI WSB WSM
 WTAG WTAM WTAR WTIC WWJ
 WWNC

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

C - March of Time
 KDB KERN KFAB KFBK KFPY
 KFRC KGB KHJ KLZ KMBC KMJ
 KMOX KOIN KOL KRLL KRNT
 KSL KVI KWG WABC WADC
 WBBM WCAO WCAU WCCO WDRS
 WEAN WFBL WFBS WGST WHAS
 WHK WJAS WJR WJSV WKBW
 WKRC WNAO WOKO WSPD WWL

B - Armco Iron Master Program
 KDKA KOIL KSO KWK WBAL WBZ
 WBZA WENR WFIL WGAR WHAM
 WJZ WLW WMAL WMT WREN
 WSYR WXYZ

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

C - Dance Orchestra
 CFRB CKAC WAAB WABC WADC
 WCAO WCAU WDRS WFBL WFAE
 WHCC WHK WIBX WJAS WKBN
 WKBW WLBS WMAS WOKO WORC
 WPG WSBT WSPD

C - Myrt and Marge

KDB KERN KFAB KFBK KFPY
 KFRC KGB KHJ KLRA KLZ KMBC
 KMJ KMOX KOIN KOL KOMA
 KRLL KSL KTRH KVI KWG WALA
 WBBM WBRC WCCO WFBS WGST
 WHAS WLAC WREB WSFA WWL

R - Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO
 KPO KPRC KSD KTHS WBAP
 WDAF WHO WKY WMAQ WMC
 WOAI WOW WSB WSM WSMB

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

C - Singing Sam
 KDB KERN KFBK KFPY KFRC
 KGB KHJ KLZ KMJ KOIN KOL
 KSL KVI KWG

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

C - Dance Orchestra
 CFRB CKAC KLRA WAAB WABC

WADC WALA WBNS WBRC WBT
 WCAO WCAU WDAE WDBJ WDBO
 WDNC WDDO WDRS WEAN WFBL
 WFBS WFEA WGST WHAS WHEC
 WHK WIBX WICC WJAS WJR
 WJSV WKBN WKBW WKRC WLAC
 WLBS WMAS WMBG WMBR WNOX
 WOKO WORC WQAM WREB WSBT
 WSJS WSMK WSPD WTOC

C - One Night Stands

KDB KERN KFBK KFPY KFRC
 KGB KHJ KLZ KMJ KOIN KOL
 KSL KVI KWG

R - Voice of Firestone

KDYL KFI KFSD KGHK KGIR KGU
 KGW KHQ KOA KOMO KPO KTAR

E-12:00 p.m., C-11:00, M-10:00, P-9:00

B - Helen Hayes; Drama
 KDYL KFI KGW KHQ KOA KOMO
 KPO

TUESDAY

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

C - Buck Rogers, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C - Benay Venuta
 KFH KGKO KLRA KLZ KMBC
 KOMA KRLL KSCJ KTRH KTSB
 KVOR KWKH WAAB WABC WACO
 WALA WBBM WBIG WBRB WCAO
 WCAU WDAE WDBJ WDBO WDNC
 WDDO WDRS WESG WFBL WFBS
 WFEA WGR WGST WHEC WIBX
 WJR WKBN WLAC WLBS WMAS
 WMBD WMBG WMBR WNOX WOC
 WOKO WORC WQAM WREB WSBT
 WSJS WSMK WSPD WTOC WWL

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

C - Understanding Opera
 KLRA WABC WADC WALA WBIG
 WBRC WCAO WDAE WDBJ WDBO
 WDNC WDDO WFBL WGST WIBX
 WJSV WKBN WLAC WLBS WMAS
 WNOX WORC WQAM WREB WSJS
 WSPD

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 - Myrt and Marge, 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 WJZ WMAL WMT
 WSYR WXYZ

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

R - Poppye, The Sailor
 KFYR KSD KSTP KYW WBEN
 WCAE WCHS WDAF WDAY WFAF
 WEBC WEEI WFBH WGY WHIO
 WIBA WIRE WJAR WMAQ WOW
 WRC WSAI WTAG WTAM WWJ

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

C - Kate Smith
 KFAB KMBC KMOX KRLL KRNT
 KTRH WABC WADC WBBM WBNS
 WBRC WBT WCAO WCAU WCCO
 WDAE WDRS WEAN WFBL WFBS
 WGR WGST WHAS WHK WISN
 WJAS WJR WJSV WKBN WKRC
 WLBS WMAS WMBG WMBR WNAO
 WOKO WWL WWVA

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 - Frank Munny; Lucy Monroe
 KFAB KMBC KMOX KRNT WABC
 WADC WBBM WCAO WCAU WDRS
 WEAN WFBL WFBS WGR WHAS
 WHK WJAS WJR WJSV WKRC
 WNAO WOKO WSPD

R - Leo Rolsman and Orchestra

KFYR KPRC KSD KSTP KTBS
 KV00 KYW WAVE WBAF WBEN
 WCAE WCHS WDAF WDAY WFAF
 WEBC WEEI WFBH WFLA WGY
 WHO WIBA WIOD WIRE WIS
 WJAR WJAX WJDX WKY WMAQ
 WMC WOAI WOW WPTF WRC
 WRVA WSB WSM WSMB WSOC
 WTAG WTAM WTAR WTIC WTMJ
 WWJ WWNC

B - Eno Crime Clues

KDKA KOIL KSO WBAL WBZ
 WBZA WFIL WGAR WHAM WJZ
 WLS WLW WMAL WMT WREN
 WSYR WXYZ

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

C - Lawrence Tibbett
 CFRB CROM KDB KERN KFAB
 KFBK KFH KFPY KFRC KGB
 KGKO KHJ KLRA KLZ KMBC KMJ
 KMOX KOH KOIN KOL KOMA
 KRLL KRNT KSCJ KSL KTRH
 KTSB KTUL KVI KVOR KWG
 KWKH WABC WACO WADC WALA
 WBIG WBNS WBRB WBT WCAO
 WCAU WCCO WCOA WDAE WDBJ
 WDBO WDNC WDDO WDRS WEAN
 WFBL WFBS WGR WGST WHAS
 WHEC WHK WHP WIBX WIBZ
 WICC WISN WJAS WJR WJSV
 WKBN WKRC WLAC WMAS WMBG
 WMBR WNAO WNAO WNOX WOC
 WOKO WORC WQAM WREB WSFA
 WSJS WSPD WTOC WWL

R - Wayne King and Orchestra

KFYR KPRC KSD KSTP KTBS
 KV00 KYW WAVE WBAF WBEN
 WCAE WCHS WDAF WDAY WFAF
 WEEI WGY WHO WIBA WIRE
 WJAR WJDX WKY WMAQ WMC
 WOAI WOW WRC WSAI WSB WSMB
 WTAG WTAM WTAR WTIC WTMJ
 WWJ

B - Edgar Guest, Welcome Valley

KDKA KOIL KSO KWK WBAL WBZ
 WBZA WFIL WGAR WHAM WJZ
 WLS WLW WMAL WMT WREN
 WSYR WXYZ

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

C - Walter O'Keefe; Glen Gray
 KFAB KFH KGKO KLRA KMBC
 KMOX KOMA KRLL KRNT KSCJ
 KTRH KTSB KTUL KWKH WABC
 WACO WADC WALA WBBM WBIG
 WBNS WBRB WBT WCAO WCAU
 WCCO WDAE WDBJ WDDO WDNC
 WDDO WDRS WEAN WFBL WFBS
 WFEA WGST WHAS WHEC WHK
 WHP WIBW WIBX WICC WJAS
 WJR WJSV WKBN WKBW WKRC
 WLAC WLBS WMAS WMBD WNOX
 WMBR WNAO WNAO WNOX WOKO
 WORC WOW WPG WQAM WREB
 WSBT WSFA WSJS WSPD WTOC
 WWL

R - N. T. G. and His Girls

KDYL KFI KGW KHQ KOA KOMO
 KPO KSD KYW WAVE WBEN
 WCAE WCHS WFAF WEEI WFBH
 WGY WHO WHIO WIRE WJAR
 WJDX WMAQ WMC WOW WRC
 WSAI WSB WSM WSMB WTAG
 WTAM WTIC WWJ

TUESDAY (Continued)

B — Ben Bernie and Orchestra
KDKA KOIL KPRC KSO KTBS
KTBS KVOO KWK WBAL WBAP
WBZ WBZA WFIL WFLA WGAR
WHAM WIOD WIS WJAX WJZ WKY
WLS WLW WMAL WMT WQAI
WPTF WREN WRVA WSOE WSYR
WTAR WUNC WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Fred Waring's Pennsylvanians
CFRB CKAC KFAB KFH KGKO
KLRA KLZ KMBC KMOX KOH
KOMA KRLL KSCJ KSL KTRH
KTSA KTUL KVOR KWKB WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WGOA WGSB WDAE WDBJ
WDOB WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHCC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBN WKWB WKRC WLAC
WLBB WMAS WMBD WMBR WNAC
WNAX WNEF WNOX WOC WOKO
WORC WOWO WPG WQAM WROC
WSBT WSFA WFSJ WSPD WTCC
WTVL

R — Jumbo-Fire Chief Show
KDYL KFI KFSD KFYR KGHL
KGRV KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KTBS KVOO KYW WAVE WBAP
WBEN WCAE WGSB WDAF WDAY
WEAF WEBC WEI WFBF WFLA
WGY WHO WHIO WJAX WIOD
WIRE WIS WJAR WKY WJZ
WKY WLW WMAQ WMC WQAI
WOW WPTF WRC WRVA WSB WSM
WSM WSOC WTAG WTAM WTAR
WTIC WTMJ WJW WJWC

B — Helen Hayes, Drama
KDKA KOIL KSO KWK WBAL WBZ
WBZA WCKY WFIL WFLA WGAR
WHAM WJZ WMAL WMT WREN
WSYR WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00
R — Swift Studio Party
CRCT KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP KTBS
KTBS KYW WBAP WBEN WCAE
WGSB WDAF WDAY WEAF WEBC
WEI WFBF WGY WHO WHIO
WJAX WJAR WKY WLW WMAQ
WQAI WOW WRC WTAG WTAM
WTIC WTMJ WJW

B — Wendell Hall
CFRC KDKA KOIL KSO KWK
WBAL WBZ WBZA WCKY WENR
WFIL WGAR WHAM WIRE WJZ
WMAL WMT WOOD WREN WSYR
WXYZ

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — March of Time, See Monday

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Dance Orchestra
CKAC WAAB-WABC WADC WCAO
WCAU WDRC WFBL WFEA WHCC
WHK WIBX WJAS WJSV WKWB
WLBB WMAS WOKO WORC WSBT
WSPD

C — Myrt and Marge, See Monday
R — Amos 'n' Andy, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Dance Orchestra
CFRB CKAC KLRA KSCJ WAAB
WABC WADC WALA WBBM WBNS
WBRC WBT WCAU WCCO WDBZ

WDBJ WDBO WDNC WDOO WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHCC WHK WIBX WICC
WISN WJAS WJR WJSV WKWB
WKRC WLAC WLBB WMAS WMBD
WMBG WMBR WNAX WNOX WOC
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTCC

C — Walter O'Keefe; Glen Gray
KDB KERN KFAB KFPY KFRC
KGB KHJ KLZ KMJ KOH KOIN
KOL KSL KVI KVOR KWG

R — Leo Reisman and Orchestra
KDYL KFI KFSD KGHL KGRV
KGW KHQ KOA KOMO KPO KTAR

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C — Fred Waring's Pennsylvanians
KDB KERN KFAB KFPY KFRC
KGB KHJ KMJ KOH KOIN KOL
KVI KWG

E-12:30 a.m., C-11:30, M-10:30, P-9:30
B — Enno Crime Clues
KDYL KFI KGW KHQ KOA KOMO
KPO

WEDNESDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Buck Rogers, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Bobby Benson, 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 — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday
B — Easy Aces, See Tuesday

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Imperial Hawaiian Band
KFAB KMOX KRNT WABC WADC
WBBM WCAO WCAU WDRC WEAN
WFBL WFBM WGR WHK WJAS
WJSV WKRC WNAC WOKO WSPD

R — Uncle Ezra, See Monday
B — Ivory Stamp Club, See Monday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Kate Smith, See Tuesday

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

B — Dangerous Paradise, See Monday

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

R — One Man's Family
EDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KTBS KVOO KYW WAVE
WBEN WCAE WGSB WDAF WDAY
WEAF WEBC WEI WFAA WFBF
WFLA WGY WHO WHIO WJAX
WJZ WKY WJZ WJZ WJZ
WJZ WKY WLW WMAQ WMC
WQAI WOW WPTF WRC WRVA
WSB WSM WSMB WTAG WTAM
WTIC WTMJ WJW WJWC

B — Rendezvous; Phil Dsey
CRCT KDKA KOIL KSO KWK
WBAL WBZ WBZA WCKY WFIL
WGAR WHAM WJZ WLS WMAL
WMT WREN WSYR WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Burns and Allen

CFRB CKAC KFAB KFH KLRA
KMBC KMOX KOMA KRLL KRNT
KSCJ KTRH KTSA KTUL KWKB
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHCC WHK WHP WIBW WIBX
WICC WJAS WJR WJSV WKRC
WLAC WLBB WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSPD
WTVL

R — Wayne King, See Tuesday
B — House of Glass

KDKA KOIL KSO KWK WBAL WBZ
WBZA WCKY WFIL WFLA WGAR
WHAM WHIO WIOD WIS WJAX
WJZ WLS WMAL WMT WPTF
WREN WRVA WSOC WSYR WTAR
WUNC WXYZ

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

KDB KERN KFAB KFBC KFH
KFPY KFRC KGB KGKO KMBC
KHJ KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSA
KTUL KVI KVOR KWG KWKB
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHCC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKWB WJRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WNAC WNAX WNEF WNOX WOC
WOKO WORC WOWO WPG WQAM
WREC WSFA WSJS WSPD WTCC
WTVL

R — Town Hall; Fred Allen
KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP KTBS
KTBS KYW WAVE WBEA WBEN
WCAE WGSB WDAF WDAY WEAF
WEBC WEI WFAA WFBF WFLA
WGY WHO WJAX WJZ WJZ
WJZ WKY WLW WMAQ
WMC WQAI WOW WPTF WRC WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WJW WJWC

B — John Charles Thomas
KDKA KOIL KFI KGW KHQ KOA
KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WFIL WGAR
WHAM WIRE WJZ WLS WMAL
WMT WREN WSYR WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Ray Noble and Orchestra

CFRB KDB KERN KFAB KFBC
KFH KFPY KFRC KGB KGKO KHJ
KLRA KLZ KMBC KMJ KMOX KOH
KOIN KOL KOMA KRLL KRNT
KSCJ KSL KTRH KTSA KTUL KVI
KWG KWKB WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WCCO WCOA
WDAE WDBJ WDOB WDDO WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHCC WHK WHP WIBW
WIBX WICC WJAS WJR WJSV
WKBH WKWB WJRC WLAC WLBB

Wednesday (Continued)

WMBD WMBG WMBR WNAC
WNOX WOC WOKO WORC WOWO
WPG WQAM WREC WSPA WSPD
WTOC WWL

B—Warden Lawes, Sing-Sing Drama
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAI
WBZ WBZA WKY WENR WFIL
WGAR WHAM WIRE WJZ WMAL
WMT WREN WSyr WXYZ

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

C—On the Air with Lud Gluskin
CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KRLD
KSCJ KTRH KTSa KVR KWKH
WABC WACO WADC WALA WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAB WDBJ WDBO WDNC
WDOD WDRC WEAN WFBL WFBM
WFEE WGST WHAS WHEC WHK
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBC WKRC WLAC
WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSMK WSPD WTCO

R—Lyle Cabin Revue

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTBS KTHS KYW
WBEN WCAE WCHS WDAF WFAF
WEEI WFAA WFER WGY WHIO
WJAR WSKY WMAQ WOA1 WOV
WRC WAT1 WTAG WTAM WTIC
WWJ

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

C—March of Time, See Monday
B—Jimmy Fidler; Hollywood Gossip
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KPRC KSO KTBS
KTHS KWK WBA1 WBZ WBZA
WKY WENR WFAA WFIL WGAR
WHAM WJZ WKY WMAL WMT
WOA1 WREN WSyr WXYZ

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

C—Jerry Cooper, Baritone
CFRB CKAC KFH KGKO KLRA
KMBC KMOX KSCJ KTRH KTSa
KVR KWKH WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WDAB WDBJ
WDBO WDNC WDOD WDRC WFBL
WFBM WFEA WGR WHAS WHEC
WHK WIBW WIBX WIC WJAS
WJSV WKRC WLAC WLWB WMAS
WMBD WMBR WNOX WOC WOKO
WORC WPG WQAM WREC WSJS
WSMK WSPD

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

C—Myrt and Marge, See Monday
R—Amos 'n' Andy, See Monday

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

C—Dance Orchestra
CKAC KLRA WAAB WABC WADC
WALA WBRC WBT WCAO WCAU
WDAE WDBJ WDBO WDNC WDOD
WDRC WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WICC
WJAS WJR WJSV WKBC WKRC
WLAC WLWB WMBG WMBR WNOX
WOKO WORC WQAM WREC WSPD
WTCO

C—Burns and Allen

KDB KERN KFBK KFPY KFRG
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KVR KWG

B—House of Glass

KDYL KFI KFYR KOA KOMO KPO

KPRC KTBS WAPI WAVE WBAP
WDAV WIBA WIRE WJDX WKY
WMC WOAI WSB WSM WSMB
WTMJ

E-12:00 p.m., C-11:00, M-10:00, P-9:00

R—Town Hall; Fred Allen
KDYL KFI KGW KHQ KOA KOMO
KPO

THURSDAY

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

C—Buck Rogers, See Monday

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

C—Dance Orchestra
KLRA WAAB WABC WADC WALA
WBIG WBRC WCAO WDAE WDBJ
WDBO WDNC WDOD WFBL WGST
WHEC WIBX WJSV WLAC WBLZ
WMAS WORC WQAM WREC WSJS
WSPD

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—Myrt and Marge, 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—Popeye, See Tuesday

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

C—Kate Smith, See Tuesday

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—Harv and Esther
KFBK KMBC KMOX KRNT WABC
WADC WBBM WBNS WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WGR WHAS WHK WJAS WJR WJSV
WKRC WMAS WNAC WOKO WSPD

R—Rudy Vallee's Variety Hour

CFBC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KSD
KSTP KTA1 KY WBN WCAE
WCHS WDAF WDAY WFAF WNBC
WEEI WFER WGY WHO WJAR
WLW WMAQ WOW WRG WTAG
WTAM WTIC WTMJ WWJ

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

C—Atwater Kent Program
KDB KERN KFBK KFPY
KFRG KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSL KTRH KTSa KVI KWG
KABC WADC WBBM WBT WCAO
WCAU WCCO WDAE WDBO WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WLAC WLWB WMBR WNAC
WNOX WOKO WQAM WREC WSPD
WWL

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

C—Walter O'Keefe, See Tuesday

R—Maxwell House Show Boat

KDYL KFI KFSB KFYR KGH
KGR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTA1 KTBS
KYW WAPI WAVE WBAP WBN
WCAE WCHS WDAF WDAY WFAF
WNBC WEEI WFER WFLA WGY
WHO WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC

WRVA WSAI WSB WSM WSMB.
WSOC WTAG WTAM WTAR WTIC
WTMJ WWJ WTNAC

B—Death Valley Days

KDKA KOIL KSO KWK WBA1 WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

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

C—To Arms for Peace
KDB KERN KFBK KFBK KFH
KFPY KFRG KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KRNT KSL KTRH KTSa
KVI KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDOD WDRC WEAN
WFBL WFBM WGST WHAS WHEC
WHK WHP WISN WJAS WJR WJSV
WKBC WKRC WLAC WMBG
WMBR WNAC WOKO WOWO WREC
WSPD WTCO WWL

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

C—Horace Heidt and Orchestra
KDB KERN KFBK KFBK KFH
KFPY KFRG KGB KHJ KLZ KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KRNT KSL KTRH KTSa
KTRH KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDOD WDRC WFBL WFBM
WGST WHAS WHK WISN WJAS
WJR WJSV WKBC WKRC WLAC
WMBG WNAC WNOX WOC WOKO
WQAM WREC WWL

R—Paul Whiteman's Music Hall

CFBC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTA1 KTBS KTHS
KVOC KYW WAVE WBAP WBN
WCAE WCHS WDAF WDAY WFAF
WNBC WEEI WFER WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

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

C—March of Time, See Monday

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

C—Mary Eastman, Soprano
CFRB CKAC KFH KGKO KLRA
KMOX KRNT KSCJ KTRH KTSa
KVR KWKH WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDNC WDOD WDRC
WFBL WFBM WFEA WGR WHAS
WHEC WHK WIBW WIBX WICC
WISN WJAS WKBN WKRC WLAC
WLWB WMAS WMBD WMBR WNAX
WNOX WOC WOKO WORC WPG
WQAM WREC WSBT WSJS WSMK
WSPD WTCO

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

C—Dance Orchestra
WAAB WABC WADC WCAO WCAU
WFBL WHK WIBX WJSV WKBN
WKBC WLWB WMAS WOKO WORC
WPG WSBT WSPD

C—Myrt and Marge, See Monday

R—Amos 'n' Andy, See Monday

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

C—Dance Orchestra
CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO

THURSDAY (Continued)

WDNC WDOD WDRC WEAN WFBL
WFBM WFBA WGST WHAS WHEC
WHK WIBX WICC WJAS WJR
WJVS WKBN WKWB WKRC WLAC
WLWB WMAS WMBG WMBR WNOX
WOKO WOCM WQAM WREC WSBT
WSJS WSMK WSPD WTOC

C — Walter O'Keefe, See Tuesday

FRIDAY

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

C — Kaltonborn Edits News
KFH KGKO KLRA KLZ KMBC
KMOX KOMA KRLD KSCJ KSL
KTRH KTSa KVOR KWKH WAAB
WABC WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WDAE WDBJ WDOD WDNC WDOD
WFBL WFBN WGST WHEC WHK
WISN WJAS WJVS WKBW WLAC
WLWB WMBR WNOX WOKO WORC
WQAM WREC WSBT WSJS WSMK
WSPD WTOC

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C — Bobby Benson, 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 — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

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

C — Lazy Dan, Minstrel Man
CKAC KFAB KMOX KOMA KRNT
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJVS
WKRC WMAS WMBG WNBC
WOKO WSPD WWL

R — Uncle Ezra, See Monday

B — Ivory Stamp Club, 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

B — Dangerous Paradise, See Monday

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

C — Flying Red Horse Tavern
KFAB KFH KMBC KOMA KRNT
WABC WADC WBBM WBNS WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WGR WHAS WHEC WHK
WIBW WICC WJAS WJR WJVS
WKRC WLWB WMAS WMBD WNBC
WOC WOKO WORC WSPD

R — Cities Service Concert

CRCT KOA KPRC KSD KSTP KTBS
KTHS KYW WBN WCAE WCHS
WDAF WFAF WIBC WBEI WFAA
WFBM WGY WHO WHIO WIOD
WJAR WKY WMAQ WOAI WOV
WRC WRVA WSAI WTAG WTAM
WTIC WTMJ WWJ

B — Irene Rich; Drama

KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KSO KTAR KWK WA VE
WBAL WBZ WBZA WCKY WFIL
WGAR WEAM WIRE WJZ WLS
WMAL WMC WMT WREN WSB
WSM WSYR WXYZ

E-8:15 p.m., C-7:15, M-6:15, P-5:15

B — Bob Crosby and Orchestra

KDKA KOIL KSO KWK WBAL WBZ

WBZA WKY WFIL WGAR WHAM
WJZ WLS WMAL WMT WREN
WSYR WXYZ

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

C — Broadway Varieties
KDB KERN KFAB KFBR KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT
KSL KVI KGW WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WGR WGST WHAS WHK
WJAS WJR WJVS WKRC WMAS
WMBG WNBC WOKO WSPD WWL

B — Red Nichols and Orchestra

KDKA KDYL KFI KFSD KGW KHQ
KOIL KOMO KPO KSO KTAR KWK
WBAL WBZ WBZA WFIL WGAR
WHAM WJZ WLS WLV 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
KFBR KFH KFPY KFRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLD KRNT
KSCJ KSL KTRH KTSa KTUL KVI
KVOR KVG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDOD
WDRC WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJR.
WJVS WKBW WKRC WLAC WLWB
WMAS WMBD WMBG WMBR
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WSPD WWL

R — Frank Munn; Vivienne Segal

KSD KYW WBN WCAE WCHS
WDAF WFAF WBEI WFBM WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WWJ

B — Palmolive Beauty Box Theatre

CFBC KDKA KFBR KOIL KFRC
KSO KSTP KTBS KWK WAPI
WAVE WBAL WBZ WBZA WCKY
WDAF WIBC WENR WFAA WFIL
WFLA WGAR WHAM WIBA WIOD
WIRE WIS WJAX WJDX WJZ WKY
WLS WMAL WMC WMT WOAI
WPTF WREN WRVA WSB WSM
WSMB WSOC WSYR WTAR WTMJ
WWNC WXYZ

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

R — True Story Court

KDYL KFI KFSD KGW KOA KOMO
KPO KSD KTAR KYW WBN
WCAE WCHS WFAF WBEI WFBM
WGY WHO WHIO WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WWJ

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

C — Richard Himber and Orchestra
KFAB KFH KLZ KMBC KMOX
KOMA KRLD KRNT KSL KTRH
KTSa KTUL WAAB WABC WADC
WBBM WBNS WCAO WCAU WCCO
WDBJ WDRC WFBL WFBM WGST
WHAS WHK WIBX WJAS WJR
WJVS WKBW WKRC WOKO WORC
WSBT WSPD

R — Compagna's First Nighter

KDYL KFI KFSD KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KVOO KYW WBN WCAE
WCHS WDAF WFAF WIBC WBEI
WFAA WFBM WFLA WGY WHO
WIOD WJAR WJAX WKY WLW
WMAQ WMC WOAI WOV WRC

WRVA WSB WSM WSMB WTAG
WTAM WTIC WTMJ WWJ WWNC

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

C — March of Time, See Monday

R — Mills Brothers; Art Kassel

KDYL KFI KFYR KGW KHQ KOA
KOMO KFI KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBN
WCAE WCHS WDAF WDAY WFAF
WIBC WBEI WFAA WFBM WFLA
WGY WHIO WIBA WIOD WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

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

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

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

C — Dance Orchestra

CFRB CKAC KLRA KSCJ WAAB
WABC WADC WALA WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDOD WDNC WDDC WDRC WFBL
WFEA WGST WHEC WHK WIBX
WISN WJAS WJR WKBW WLAC
WLWB WMAS WMBD WMBG
WMBR WNAX WNOX WOC WOKO
WORC WPG WQAM WREC WSBT
WSJS WSMK WSPD WTOC

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

C — Dance Orchestra

CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDOD
WDNC WDDC WDRC WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBX WICC WJAS WJR WJVS
WKBW WKRC WLAC WLWB WMAS
WMBG WMBR WNOX WOKO WORC
WQAM WREC WSBT WSJS WSMK
WSPD WTOC

B — Palmolive Beauty Box Theatre

KDYL KFI KFSD KGHM KGIR
KGW KHQ KOA KOMO KPO KTAR
WLW

SATURDAY

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

C — Frederic William Will

KFH KGKO KLRA KLZ KMBC
KMOX KOMA KRLD KSCJ KSL
KTRH KTSa KVOR KWKH WAAB
WABC WACO WADC WALA WBBM
WBIG WBRC WBT WCAO WCCO
WDAE WDBJ WDOD WDNC WDOD
WESG WFBL WFBM WGST WHEC
WHK WIBW WIBX WISN WJAS
WJR WJVS WKBW WKRC WLAC
WLWB WMBG WMBR WNOX WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C — Three Little Words

CFRB KFH KGKO KLRA KLZ
KMBC KMOX KOMA KRLD KSCJ
KTRH KVOR KWKH WAAB WABC
WACO WADC WALA WBBM WBIG
WBRC WCAO WCAU WDAE WDBJ
WDOD WDNC WDDC WDRC WESG
WFBL WFBM WFEA WGST WHEC
WHK WIBW WIBX WIOC WISN
WJR WJVS WKBW WLAC WLWB
WMAS WMBD WMBG WMBR
WNOX WOC WOKO WORC WQAM
WREC WSBT WSJS WSMK WSPD
WTOC WWL

SATURDAY (Continued)

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

C — Atlantic Family; Frank Parker
WABC WADC WBIC WENS WDAE
WBT WCAO WCAU WCBW WDAE
WDBJ WDBO WDRC WEAN WFBC
WFBL WGBI WGR WGST WHEC
WHK WHP WIBX WICC WJAS
WMA5 WMBG WMBR WNAC
WNBFWOKO WORC WQAM WRCM
WRAK WSJS WTOC WVVW

R — Old Gold Sport Page

KDYL KFYR KOA KPRC KSD
KSTP KTBS KYW WAPI WAVE
WBAP WBEN WCAE WCSH WDAF
WDAY WDAF WEBC WEEL WFBR
WFLA WGY WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOAI
WOW WPTT WRC WRVA WSM
WSM WSMB WSOB WTAG WTAM
WTAR WTIC WWJ WWNC

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

R — Popeye, See Tuesday

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

C — Carborundum Band

KFAB KMBC KMOX WABC WBBM
WBT WCAO WCAU WCCO WEAN
WFBL WGR WHAS WHK WJAS
WJR WKRC WNAC

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

C — Walter Pitkin, Interviews

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KSCJ
KSL KTRH KVR KWKH WABC
WACO WADC WALA WBIG WBNS
WBRC WCAO WCAU WCCO WDAE
WDBJ WDBO WDNC WDDO WDRC
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WIBW
WIBX WICC WISN WJAS WJR
WJSV WKRC WLAC WLZB WMA5
WMBD WMBG WMBR WNAC
WNOX WOC WOKO WORC WQAM
WRBC WSBT WSJS WSPD WTOC

R — The Hit Parade

KDYL KFI KFSD KFYR KGHL
KGR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR KTBS
KYW WAPI WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WDAF
WEBC WEEL WFBR WFLA WGY
WHIO WHIO WIBA WIOD WIRE
WIS WJAR WJAX WJDX WKY
WLW WMAQ WMC WOAI WOW
WPTT WRC WRVA WSB WSM
WSMB WSOB WTAG WTAM WTAR
WTIC WTMJ WWJ WWNC

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

C — Krueger Musical Toast

WABC WBIG WBT WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFEA WGST WJSV WKWB
WLZB WMA5 WMBG WMBR WNAC
WNBFWOKO WORC WQAM WRCM
WTOC

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

C — Chesterfield, See Wednesday

R — Chevrolet Program

KDYL KFI KFSD KFYR KGHL
KGR KGU KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KTBS KYW WAPI WAVE WBAP
WBEN WCAE WCSH WDAF WDAF
WDAF WEBC WEEL WFBR WFLA
WGY WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WLW
WMAQ WMC WOAI WOW WPTT

WRC WRVA WSB WSMB WSOB
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

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

C — Marty May; Johnny Augustine

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KRLD
KSCJ KSL KTRH KTSB KVR
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDDO WDRC WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBW WIBX WICC WISN
WJAS WJR WJSV WKWB WKRC
WLAC WLZB WMA5 WMBD WMBG
WMBR WNAC WNOX WOC WOKO
WORC WPG WQAM WREC WSBT
WSJS WSPD WTOC

R — Shell Chateau; Wallace Beery

KDYL KFI KFSD KFYR KGHL
KGR KGU KHQ KOA KOMO KPO
KSD KSTP KTAR KYW WBEN
WCAE WCSH WDAF WDAF WDAF
WDAF WEEL WFBR WGY WIBA
WJAR WLW WMAQ WOC WORC
WTAG WTAM WTIC WTMJ WWJ

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS
KTBS KVOO KWK WAPI WAVE
WBAL WBAP WBZ WBZA WFIL
WGAR WHAM WIRE WJDX WJZ
WKY WLS WMAL WMC WMT
WOAY WOOD WREN WSB WSMB
WSJR WXYZ

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

C — Public Opinion

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KSCJ
KTRH KTSB KVR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDDO WDRC WEAN WFBL WFBM
WFEA WHAS WHEC WHK WTBW
WIBX WICC WISN WJAS WJR
WJSV WKWB WKRC WLAC WLZB
WMA5 WMBD WMBG WMBR
WNAC WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSMK WSPD WTOC

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

C — Dance Orchestra

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KRLD
KSCJ KSL KTRH KTSB KVR
KWKH WABC WACO WADC WALA
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDDO WDRC WFBL WFBM
WFEA WGST WHAS WHEC WHK
WIBW WIBX WICC WISN WJAS
WJR WJSV WKWB WKRC WLAC
WLZB WMA5 WMBD WMBG
WMBR WNAC WNOX WOC WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

B — National Barn Dance

KDYL KFI KFSD KFYR KGHL
KGR KGU KHQ KOA KOMO KPO
KSTP KTAR WDAF WEBC
WIBA WLW WTMJ

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

C — Dance Orchestra

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KSL
KTRH KTSB KVR KWKH WABC
WACO WADC WALA WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN

WFBL WFBM WFEA WGST WHAS
WHEC WHK WIBW WIBX WICC
WJAS WJR WKWB WKRC WLAC
WLZB WMA5 WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

E-12:00 p.m., C-11:00, M-10:00, P-9:00

C — Dance Orchestra

CKAC KFH KLRA KMBC KMOX
KOMA KRLD KSCJ KSL KTRH
KTSB KVR KWKH WABC WBBM
WBNS WBRC WCAU WCCO WDNC
WDDO WEAN WFBL WFBM WGST
WIBW WIBX WICC WISN WJR
WKWB WKRC WLAC WMBD
WMBR WNOX WOC WOKO WQAM
WSBT WSMK WSPD

SUNDAY

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

C — Salt Lake Tabernacle Choir

KFH KGKO KLRA KLZ KMBC
KOMA KRLD KSCJ KSL KTRH
KTSB KWKH WACO WADC WALA
WBIG WBNS WBRC WBT WCCO
WDBO WDNC WDDO WDRC WFBL
WFBM WFEA WGST WHAS WIBW
WIBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLZB WMA5
WMBD WMBR WNAC WNAX
WNOX WOKO WORC WQAM WREC
WSBT WSMK WSPD WTOC

R — Major Bowes' Capitol Family

KDYL KFYR KOA KPRC KSTP
KTBS KVOO WAPI WCAE WDAF
WDAF WDAF WEBC WFAA WFBR
WFLA WGY WHO WHIO WJAR
WJAX WKY WMAQ WMC WOAI
WRC WRVA WSAI WSBM WTAG
WTAM WWNC

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

B — Radio City Music Hall

CPFC CRCT KDKA KDYL KFI
KPHY KGO KGW KHQ KOIL KOMO
KPRC KSO KVOO WAPI WBAL
WBZ WBZA WCKY WDAF WEBC
WGAR WHAM WIS WJDX WJZ
WKY WMAL WOAI WREN WSMB
WSYR WWNC

E-12:45 p.m., C-11:45, M-10:45, P-9:45

C — Trans-Atlantic Broadcast

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KRLD KSCJ KTRH
KTSB KVR WABC WACO WCAU
WALA WBIG WBBG WCAO WCAU
WCCO WDAE WDBJ WDBO WDRC
WEAN WESG WFBL WFBM WFEA
WGR WHAS WIBX WJAS WJSV
WKBN WLAC WLZB WMBD WMBR
WNAC WOC WOKO WORC WPG
WQAM WREC WSJS WSMK WSPD
WTOC WWL

E-1:00 p.m., C-12:00, M-11:00, P-10:00

C — Church of the Air

KFH KGKO KLRA KOMA KRLD
KSCJ KSL KTRH KTSB KVR
KWKH WABC WACO WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDDO WESG WFBM WGR
WHAS WHEC WIBW WIBX WJAS
WJSV WKBN WKRC WLAC WLZB
WMBD WMBR WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD

E-1:30 p.m., C-12:30, M-11:30, P-10:30

C — Musical Footnotes

KMBC KMOX KRNT WABC WBBM
WBNS WCAU WCCO WGR WHAS

SUNDAY (Continued)

WJAS WJR WJSV WKRC WNAC
WREC

E-1:45 p.m., C-12:45, M-11:45, P-10:45
C — Sisters of the Skillet
KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KSL KTRH KTSA KVI KWG WABC
WADC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDBJ WDRC
WEAN WFBL WFWM WFEA WHEC
WHK WHP WIBX WICC WJAS WJR
WJSV WKBW WKRC WMBG WMBR
WNOX WOKO WORC WREC WTOC
WNL

E-2:00 p.m., C-1:00, M-12:00, P-11:00
B — Magic Key of RCA
CFRC CRCT KDKA KDYL KFI
KFYR KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP KTBS
KTHS KVOO KWK WAPI WAVE
WBAL WBZ WBAZ WCKY WDAY
WEBC WENR WFAA WFL WFLA
WGAR WHAM WHIO WIBA WIOD
WIRE WIS WJAX WJDX WJZ WKY
WMAL WMC WMT WOAI WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWNC
WXYZ

E-2:30 p.m., C-1:30, M-12:30, P-11:30
C — Johnny Augustine and Orchestra
CFRB CKAC KFH KGKO KLRA
KLZ KMBC KRLD KSCJ KTRH
KTSA KVOR KWKH WABC WADC
WALA WBIG WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDDO WDRB WEAN
WESG WFBL WFBM WFEA WGST
WHAS WHEC WHK WIBX WIBZ
WICC WISN WJAS WJR WKBN
WKBW WKRC WLAC WLZ WMAS
WMBD WMBG WMBR WNAC
WNOX WOC WOKO WORC WPG
WQAN WREC WSJS WSMK WSPD
WTOC WWL

R — Vox Pop; Sidewalk Interviews
KSD KYW WBEN WCAE WCHS
WEAF WEEI WFBR WGY WYD
WHIO WIRE WJAR WMAQ WOV
WRC WSAI WTAG WTAM WTRC
WWJ

E-3:00 p.m., C-2:00, M-1:00, P-12:00
C — Philharmonic Symphony
CFRB CKAC KFH KGKO KLRA
KLZ KOMA KRLD KSCJ KSL KTRH
KTSA KVOR KWKH WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCCO WDAE
WDBJ WDBO WDNC WDDO WDRB
WEAN WESG WFBL WFBM WFEA
WGST WHAS WHEC WHK WIBX
WIBZ WICC WISN WJAS WJR
WKBN WKBW WKRC WLAC WLZ
WMAS WMBD WMBG WMBR
WNOX WOC WOKO WORC WQAM
WREC WSBT WSJS WSMK
WSPD WTOC

B — Your English
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KPRC KSO KSTP
KTHS KVOO KWK WAPI WAVE
WBAL WBZ WBAZ WDAY WEBC
WENR WFAA WFL WFLA WGAR
WHAM WIOD WJAX WJZ WKY
WLW WMAL WMC WMT WOAI
WPTF WREN WRVA WSB WSM
WSMB WSYR WXYZ

E-3:15 p.m., C-2:15, M-1:15, P-12:15
B — Pine Mountain Merry-makers
KDKA KFYR KOIL KSO KSTP KWK
WBAL WBZ WBAZ WDAY WEBC
WENR WFIL WGAR WHAM WIBA
WJZ WLW WMAL WMT WREN
WSYR WXYZ

E-4:00 p.m., C-3:00, M-2:00, P-1:00
Rev. Charles E. Coughlin
KFEL KNX KSFO KSTP KVOD
KWK WATR WCAO WCAU WDRC
WEAN WFBL WFEA WGAR WGR
WHK WHO WICC WISN WJAS
WJJD WJR WLZ WLLH WLW
WMAS WNAK WNBH WOKO WOL
WOR WORC WOW WRDO

E-5:00 p.m., C-4:00, M-3:00, P-2:00
C — Abe Lyman and Orchestra
CFRB KFAB KMBC KMOX KRNT
WAAB WABC WADC WBBM WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WHAS WHEC WHK WJAS
WJR WJSV WKBW WKRC WOKO
WSPD

R — Penthouse Serenade
CFRC KDYL KFI KFYR KGW KHQ
KOA KOMO KPO KPRC KSTP
KTBS KTHS KVOO KYW WAPI
WAVE WBAP WBEN WCAE WCHS
WDAF WDAY WEAF WEBC WEEI
WFBR WFLA WGY WHIO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOV
WPTF WRC WRVA WSAI WSB WSM
WSMB WSOC WTAG WTAM WTRC
WTRC WJW WWNC

B — Roses and Drums
KDKA KOIL KSO KWK WBAL WBZ
WBAZ WENR WFIL WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

E-5:30 p.m., C-4:30, M-3:30, P-2:30
C — Frank Crumit; Julia Sanderson
KFH KMBC KMOX KOMA KTUL
WAAB WABC WADC WBNS WCAO
WCAU WDRB WEAN WFBL WFBM
WGR WHAS WHEC WHK WIBX
WICC WJR WJSV WMAS WOKO
WORC WSPD WWL WWVA

R — Dream Drama
KYW WBEN WCAE WCHS WDAF
WEAF WEEI WFBR WGY WJAR
WMAQ WRC WSAI WTAG WTAM
WTRC WJW

B — Bob Becker's Dog Chats
KDKA KOIL KSO KWK WBAL WBZ
WBAZ WCKY WENR WFIL WGAR
WHAM WJZ WMAL WMT WREN
WSYR WXYZ

E-5:45 p.m., C-4:45, M-3:45, P-2:45
R — Music by Al Goodman
KSD KYW WBEN WCAE WCHS
WDAF WEAF WEEI WFBR WGY
WHO WHO WIRE WJAR WMAQ
WOW WRC WSAI WTAG WTAM
WTRC WJW

B — Gabriel Heatter, News Review
KDKA KOIL KSO KWK WAPI
WAVE WBAL WBZ WBAZ WCKY
WENR WFIL WGAR WHAM WJDX
WJZ WMAL WMC WMT WREN
WSB WSM WSMB WSYR WXYZ

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — National Amateur Night
CFRB CKAC KDB KERN KFAB
KFBK KFPY KFRC KGB KHJ KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KSL KVI KWG WAAB WABC
WBBM WBNS WBT WCAO WCAU

WCCO WDRC WFBL WFBM WGST
WHAS WHEC WHK WJAS WJR
WJSV WKBW WKRC WLAC WOKO
WREC WWL

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C — Smiling Ed McConnell
KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KHJ KLZ KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WAAB WABC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDBJ WDRC WEAN
WFBL WHAS WHEC WHK WJAS
WJR WJSV WKBW WKRC WLAC
WWL WWVA

B — Compana's Grand Hotel
KDKA KDYL KFI KHQ KOA KOIL
KOMO KPO KSO WBAL WBC WBAZ
WCKY WENR WGAR WHAM WJZ
WMAL WMT WREN WSYR

E-6:45 p.m., C-5:45, M-4:45, P-3:45
C — Voice of Experience
KMOX WAAB WABC WADC WBBM
WBT WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WHAS WHEC
WHK WJAS WJR WKBW WKRC
WSPD WWVA

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Alexander Woolcott
KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WABC WBBM
WCAO WCAU WCCO WDRB WFBL
WGR WHAS WHK WJAS WJR
WJSV WKRC WNAC WOKO

B — Jack Benny; Johnny Green
CFRC CRCT KDKA KFYR KOIL
KPRC KSO KSTP KTBS KVOO KWK
WAVE WBAL WBZ WBAZ WDAY
WEBC WENR WFAA WFL WFLA
WGAR WHAM WIBA WIOD WIS
WJAX WJDX WJZ WKY WLW
WMAL WMC WMT WOAI WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWNC
WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Phil Baker; Hal Kemp
KLRA KLZ KRLD KTRH KTSA
KWKH WABC WACO WADC WALA
WBIG WBNS WBRC WBT WCAO
WCAU WCOA WDAE WDBJ WDBO
WDNC WDDO WDRB WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHK WHP WIBX WICC
WJAS WJR WJSV WKBW WKRC
WLAC WLZ WMAS WMBR WNAC
WNEF WNOX WOKO WORC WQAM
WREB WRSB WSPA WSJS WSMK
WSPD WTOC WWL WWVA

R — Fireside Recitals
KSD KYW WBEN WCAE WCHS
WDAF WEAF WFBR WGY WHIO
WIRE WJAR WMAQ WOV WRC
WSAI WTAG WTAM WTRC WJW
B — Ozzie Nelson; Robt. L. Ripley
KDKA KDYL KFI KFYR KGW
KHQ KOA KOIL KOMO KPO KPRC
KSO KSTP KTAR KVOO KWK
WBAL WBZ WBAZ WCKY WDAY
WEBC WFAA WFLA WGAR WHAM
WIBA WIOD WJAX WJDX WJZ
WKY WLS WMAL WMC WMT
WOAI WPTF WREN WRVA WSB
WSB WSMB WSYR WTMJ WWNC
WXYZ

E-7:45 p.m., C-6:45, M-5:45, P-4:45
R — Sunset Dreams; Morin Sisters
CFRC CRCT KSD KYW WBEN

SUNDAY (Continued)

WCAE WCSH WDAF WFAF WFBR
WGY WHO WHIO WIRE WJAR
WLW WMAQ WOOD WOW WRC
WTAG WTAM WTC WWJ

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

KFAB KFH KLRA KLZ KMBC
KMOX KOMA KRLD KRNT KTRH
KTSa KTUL KWKH WABC WDAE
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDOD WDRC WEAN
WFBL WFBM WGR WGST WHAS
WHEC WHK WICC WJAS WJR
WJSV WKRC WLAC WNAc WOKO
WOW WREC WSPD WWL

R — Major Bowes' Amateur Hour
CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KVOO KYW
WAVE WBEN WBZ WBZA WCAE
WCSH WDAF WDAY WFAE WFCB
WFaa WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOA1
WOW WPTF WRC WRVA WSB
WSM WSMB WTAG WTAM WTAR
WTIC WTMJ WWJ WWNC

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

C — Leslie Howard, Drama
KDB KERN KFAB KFBC KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KRNT KSL KTRH KTUL
KVI KWG WABC WADC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WGR WHAS WHEC WHK WJAS
WJR WJSV WKRC WLAC WNAc
WOKO WOW WREC WSPD WWL

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

C — Ford Concert
CFRB CKAC KDB KERN KFAB
KFBC KFH KFPY KFRC KGB
KGKO KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSa KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNC WDOD WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBH WKBN WKBW WKRC
WLAC WLbZ WMAS WMbD WMbR

WNAc WNAx WNOx WOC WOKO
WORC WOWO WQAM WREC WBSB
WSFA WSJS WSMK WSPD WTOC
WWL

R — Manhattan Merry-Go-Round
CFCF KDYL KFI KFYR KGW KHQ
KOA KOMO KPO KSD KSTP KYW
WBEN WCAE WCSH WDAF WDAY
WFAE WFCB WFBR WGY WHO
WHIO WHIA WJAR WMAQ WOW
WRC WSAI WTAG WTAM WTIC
WTMJ WWJ

B — Charles Previn; Olga Albani
KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFIL WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R — Album of Familiar Music

CFCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KYW WAPI
WAVE WBEN WCAE WCSH WDAF
WDAY WFAE WFCB WEEI WFAA
WFBR WFLA WGY WHO WHIO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOA1
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTMJ WWJ WWNC

B — Walter Winchell
KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFIL WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

E-9:45 p.m., C-8:45, M-7:45, P-6:45

B — Niola Goodelle, Songs
KDKA KOIL KSO KWK WBAL WBZ
WBZA WCKY WENR WFIL WGAR
WHAM WJZ WMAL WMT WREN
WSYR WXYZ

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

C — Wayne King and Orchestra
KDB KERN KFAB KFBC KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KSL KVI
KWG WAAB WABC WADC WBBM
WBNS WCAO WCAU WCCO WDRC
WFBL WFBM WHAS WHK WIBW
WJAS WJR WJSV WKBW WKRC
WOKO WSPD WWL

R — General Motors Concert
CFCF CRCT KDYL KFI KFSB
KFYR KGHL KGIR KGU KGW
KHQ KOA KOMO KPO KPRC KSTP
KTAR KTBS KTHS KYW WAPI

WAVE WBAP WBEN WCAE WCSH
WDAF WDAY WFAE WFCB WEEI
WFBR WFLA WGY WHO WHIO
WIBA—WIOD—WIRE WIS—WJAR
WJAX WJDX WKY WMAQ—WMC
WOA1 WOW WPTF WRC WRVA
WSAI WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

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

C — Freddie Rich and Orchestra
KLRA WABC WALA WBIG WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFEA WGST WICC WJSV WLAC
WLbZ WMAS WMbG WMbR WNAc
WORC WQAM WREC WSJS WTOC

C — Jack Hylton and Orchestra
KFAB KFH KLZ KMBC KMOX
KRNT KRCJ KVOR WBBM WCCO
WFBM WIBW WISN WJR WKBH
WMbD WOC WOW WBSB

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

C — Eddie Cantor
KDB KERN KFBC KFPY KFRC
KGB KHJ KMJ KOIN KOL KSL
KVI KWG

R — The Melody Master
KYW WBEN WCAE WFAE WEEI
WFBR WGY WJAR WMAQ WRC
WTAG WTAM WTC WWJ

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 KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS WAPI WAVE
WBAP WJDX WKY WMC WOA1
WSB WSM WSMB

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

C — Voice of Experience
KDB KERN KFBC KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL KSL
KVI KWG

B — Jack Benny; Johnny Green
KDYL KFI KFSB KGHL KGIR
KGU KGW KHQ KOA KOMO KPO
KTAR

E-12:00 p.m., C-11:00, M-10:00, P-9:00

B — Charles Previn; Olga Albani
KDYL KFI KGW KHQ KOA KOMO
KPO

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

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

*These features are correct at the time of going to press,
but changes are being made daily.*

CONCERTS

Armo Iron Master, 10:30 p.m. Monday, B
Artwater Kent Concert, 8:30 p.m. Thursday, C
Ford Concert, 9:00 p.m. Sunday, C
General Motors Concert, 10:00 p.m. Sunday, R
Philharmonic Symphony, 3:00 p.m. Sunday, C
Radio-City Music Hall, 12:30 p.m. Sunday, B

DANCE DANCES

Victor Arden, 8:00 p.m. Thursday; 8:30 p.m. Friday, B
Johnny Augustine, 2:30 p.m. Sunday; 9:30 p.m.
Saturday, C
Ben Bernie, 9:00 p.m. Tuesday, B
Ray Block, 8:30 p.m. Saturday, C
Bob Crosby, 8:15 p.m. Friday, B

Al Goodman, 5:45 p.m. Sunday, R; 9:00 and 11:30 p.m. Friday, B
 Glen Gray, 9:00 and 11:30 p.m. Tuesday and Thursday, C
 Johnny Green, 7:00 and 11:30 p.m. Sunday, B
 Horace Heidt, 10:00 p.m. Thursday, C
 Richard Himber, 10:00 p.m. Friday, C
 Jack Hytton, 10:30 p.m. Sunday, C
 Art Kassel, 10:30 p.m. Friday, R
 Hal Kemp, 7:30 p.m. Sunday, C
 Wayne King, 10:00 p.m. Sunday and Monday, C; 8:30 p.m. Tuesday and Wednesday, R
 Guy Lombardo, 8:00 p.m. Monday, C
 Abe Lyman, 5:00 p.m. Sunday, C; 9:00 p.m. Friday, R
 Ozzie Nelson, 9:30 p.m. Sunday, B
 Red Nichols, 8:30 p.m. Friday, B
 Ray Noble, 9:30 p.m. Wednesday, C
 Raymond Paige, 9:00 p.m. Friday, C
 Charles Previn, 9:00 and 12:00 p.m. Sunday, B
 Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R
 Freddie Rich, 10:30 p.m. Sunday; 8:00 p.m. Friday, C
 Rudy Vallee, 8:00 p.m. Thursday, R
 Fred Waring, 9:30 and 12:00 p.m. Tuesday, C
 Paul Whiteman, 10:00 p.m. Thursday, R
 Victor Young, 9:30 p.m. Saturday, R

DIALOG

Fred Allen, 9:00 and 12:00 p.m. Wednesday, R
 Amos 'n' Andy, 7:00 and 11:00 p.m. daily, except Sat. and Sun., R
 Phil Baker, 7:30 p.m. Sunday, C
 Jack Benny, 7:00 and 11:30 p.m. Sunday, B
 Burns and Allen, 8:30 and 11:30 p.m. Wednesday, C
 Eddie Cantor, 8:00 and 11:00 p.m. Sunday, C
 Easy Aces, 7:00 p.m. Tues., Wed., and Thurs., B
 Fibber McGee and Molly, 8:00 p.m. Monday, B
 Harv and Esther, 8:00 p.m. Thursday, C
 Lum and Abner, 7:30 p.m. daily, except Sat. and Sun., B
 Marty May, 9:30 p.m. Saturday, C
 Walter O'Keefe, 9:00 and 11:30 p.m. Tues. and Thurs., C
 Pick and Pat, 8:30 and 11:30 p.m. Monday, C
 Popeye, The Sailor, 7:15 p.m. Tues., Thurs. and Sat., R
 Sisters of Skillet, 1:45 p.m. Sunday, C

DRAMA

Cavalcade of America, 8:00 p.m. Wednesday, C
 Dangerous Paradise, 7:45 p.m. Mon., Wed. and Fri., B
 Death Valley Days, 9:00 p.m. Thursday, B
 Dream Drama, 8:30 p.m. Sunday, R
 Eno Crime Clues, 8:00 p.m. and 12:30 a.m. Tuesday, B
 First Nighter, 10:00 p.m. Friday, R
 Grand Hotel, 6:30 p.m. Sunday, B
 Helen Hayes, 12:00 mid. Monday; 9:30 p.m. Tues., B
 House of Glass, 8:30 and 11:30 p.m. Wednesday, B
 Leslie Howard, 8:30 p.m. Sunday, C
 Warden Lawes, 9:30 p.m. Wednesday, B
 Lux Radio Theatre, 9:00 p.m. Monday, C
 March of Time, 10:30 p.m. daily, except Sat. and Sun., C
 Myrt and Marge, 7:00 and 11:00 p.m. daily, except Sat. and Sun., C
 One Man's Family, 8:00 p.m. Wednesday, R
 Princess Pat Players, 9:30 p.m. Monday, B
 Irene Rich, 8:00 p.m. Friday, B
 Buck Rogers, 6:00 p.m. Mon., Tues., Wed., Thurs., C
 Roses and Drums, 5:00 p.m. Sunday, B
 True Story Court, 9:30 p.m. Friday, R
 Welcome Valley, 8:30 p.m. Tuesday, B

POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m. Monday, R
 Album of Familiar Music, 9:30 p.m. Sunday, R
 Atlantic Family, 7:00 p.m. Saturday, C
 Major Bowes, 11:30 a.m. and 8:00 p.m. Sunday, R
 Broadway Varieties, 8:30 p.m. Friday, C
 Camel Program, 9:00 and 11:30 p.m. Tues. and Thurs., C
 Carborundum Band, 7:30 p.m. Saturday, C
 Chesterfield Program, 9:00 p.m. Wed. and Sat., C
 Chevrolet Program, 9:00 p.m. Saturday, R
 Cities Service Concert, 8:00 p.m. Friday, R
 Contented Program, 10:00 p.m. Monday, R
 Evening in Paris, 8:30 p.m. Monday, B
 Fireside Recitals, 7:30 p.m. Sunday, R
 Fleischmann Variety Hour, 8:00 p.m. Thursday, R
 Flying Red Horse Tavern, 8:00 p.m. Friday, C
 Hammerstein's Music Hall, 8:00 p.m. Monday, R
 Hit Parade, 8:00 p.m. Saturday, R

Hollywood Hotel, 9:00 p.m. Friday, C
 Imperial Hawaiian Band, 7:15 p.m. Wednesday, C
 Jumbo-Fire Chief Show, 9:30 p.m. Tuesday, R
 Log Cabin Revue, 10:00 p.m. Wednesday, R
 Magie Key of RCA, 2:00 p.m. Sunday, B
 Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R
 Maxwell House Show Boat, 9:00 p.m. Thursday, R
 Melody Master, 11:00 p.m. Sunday, R
 Musical Footnotes, 1:30 p.m. Sunday, C
 National Amateur Night, 6:00 p.m. Sunday, C
 National Ballroom Dance, 9:30 and 11:00 p.m. Saturday, B
 N.T.C. and His Girls, 9:00 p.m. Tuesday, R
 Palmolive Beauty Box, 9:00 and 11:30 p.m. Friday, B
 Penthouse Serenade, 5:00 p.m. Sunday, R
 Pine Mountain Merry-makers, 8:15 p.m. Sunday, B
 Shell Chateau, 9:30 p.m. Saturday, R
 Sinclair Minstrels, 9:00 p.m. Monday, B
 Swift Studio Party, 10:00 p.m. Tuesday, R
 Town Hall Tonight, 9:00 and 12:00 p.m. Wednesday, R
 Uncle Ezra, 7:15 p.m. Mon., Wed., and Fri., R
 Voice of Firestone, 8:30 and 11:30 p.m., Monday, R

SINGERS

Countess Olga Albani, 9:00 and 12:00 p.m. Sunday, B
 Babs and Her Brothers, 9:30 p.m. Wednesday, C
 Vivian Della Chiesa, 1:30 p.m. Sunday, C
 Bernice Claire, 5:00 p.m. Sunday, C
 Jerry Cooper, 8:30 p.m. Saturday, C
 Crumit-Sanderson, 5:30 p.m. Sunday, C
 Jessica Dragonette, 8:00 p.m. Friday, R
 Phil Dues, 8:00 and 11:30 p.m. Tuesday, R; 8:00 p.m. Wednesday, B
 Jack Fulton, 5:00 p.m. Sunday, R
 Niela Goodelle, 9:45 p.m. Sunday, B
 Wendell Hall, 10:00 p.m. Tuesday, B
 Helen Jepson, 10:00 p.m. Thursday, R
 Frances Langford, 9:00 p.m. Friday, C
 Lazy Dan, 7:15 p.m. Friday, C
 Elizabeth Lennox, 8:30 p.m. Friday, C
 Nino Martin, 9:00 p.m. Saturday, C
 Mills Brothers, 10:30 p.m. Friday, R
 Lucy Monroe, 8:00 p.m. Tuesday, C
 Grace Moore, 9:30 p.m. Monday, R
 Morin Sisters, 7:45 and 11:00 p.m. Sunday, R
 Frank Munn, 8:00 p.m. Tuesday, C; 9:30 p.m. Sunday and 9:00 p.m. Friday, R
 Frank Parker, 7:00 p.m. Saturday, C
 Piekens Sisters, 8:30 p.m. Monday, B
 Lily Pons, 9:00 p.m. Wednesday, C
 Carmella Ponselle, 8:30 p.m. Friday, C
 Dick Powell, 9:00 p.m. Friday, C
 Virginia Rea, 9:00 p.m. Saturday, R
 Lanny Ross, 9:00 p.m. Thursday, R
 Fritzi Scheff, 8:00 p.m. Tuesday, C
 Vivienne Segal, 9:30 p.m. Sunday; 9:00 p.m. Friday, R
 Oscar Shaw, 8:30 p.m. Friday, C
 Singin' Sam, 7:30 and 11:15 p.m. Monday, C
 Smiling Ed McConnell, 6:30 p.m. Sunday, C
 Kate Smith, 7:30 p.m. Tues., Wed., and Thurs., C
 Conrad Thibault, 10:00 p.m. Wednesday, R
 John Charles Thomas, 9:00 p.m. Wednesday, B
 Three Little Words, 6:15 p.m. Saturday, C
 Lawrence Tibbett, 8:30 p.m. Tuesday, C

TALKS

Bob Becker's Dog Chats, 5:30 p.m. Sunday, B
 Boake Carter, 7:45 p.m. daily except Sat. and Sun., C
 Rev. Chas. E. Coughlin, 4:00 p.m. Sunday
 Jimmy Fidler, 10:30 p.m. Wednesday, B
 Thornton Fisher, 7:00 p.m. Saturday, R
 Gabriel Heatter, 5:45 p.m. Sunday, B
 Ivory Stamp Club, 7:15 p.m. Mon., Wed., and Fri., B
 H. V. Kaitenborn, 6:00 p.m. Friday, C
 Walter Pitkin, 8:00 p.m. Saturday, C
 Public Opinion, 10:30 p.m. Saturday, C
 Robert L. Ripley, 7:30 p.m. Sunday, B
 Sidewalk Interviews, 2:30 p.m. Sunday, R
 Lowell Thomas, 6:45 p.m. daily except Sat. and Sun., B
 To Arms for Peace, 9:30 p.m. Thursday, C
 Trans-Atlantic Broadcast, 12:45 p.m. Sunday, C
 Voice of Experience, 6:45 and 11:30 p.m. Sunday, C
 Frederic William Wile, 6:00 p.m. Saturday, C
 Walter Winchell, 9:30 and 11:15 p.m. Sunday, B
 Alexander Woolcott, 7:00 p.m. Sunday, C
 Your English, 3:00 p.m. Sunday, B

Australian Specials

THE Australian stations to whom Oliver Amlic of Philadelphia has submitted 275 reports so far in 1935, will put on special programs in his honor during December. Mr. Amlic tells us that greetings will also be given to readers of RADEX. The stations presenting these programs will appreciate reports of reception as would Mr. Amlic whose address is 56th City Line Ave., Philadelphia. The times of the programs are as follows: Thursday morning, December 26th, 6:45-7:15 EST, VK3MC 9.503 megs. 5 kw., Melbourne; Sunday morning, December 29th, 6:45-7:15 EST, VK2ME 9.585 megs. 120 kw. Sydney; Monday morning, December 30th, 6:45-7:15 EST, VK3LR 9.580 megs. Melbourne.

* * *

According to Sir Arthur Eddington, quoted in *Egyptian Radio*, the end of the world may be caused by the protons and electrons of the universe

releasing their energy in the form of radiations.

"It would seem," he says, "that the universe will become a ball of radiation, passing into longer and longer wavelengths. I may describe the end of the world as one stupendous broadcast."

What a DX special that would be! All creation broadcasting itself into oblivion and nobody left to tune it in!

* * *

You can believe it or not, but engineers at WOR swear that they discovered birds making nests in coils of discarded wire in a field near the transmitter. One meadow-lark was quite surprised to find that the heat picked up by the wire from the 50-KW station was sufficient to hatch her eggs without maternal attention. Other birds came to grief trying to build their nests of wire. When they used too much wire, the eggs were cooked; and when they used too little, the eggs were underdone.

Where to Get the DAY'S NEWS

Daily except Sunday unless otherwise noted.

- 1 Thursday only
- 2 Sunday only
- 3 Monday only
- 4 Except Monday
- 5 Except Saturday

- 6 Tuesday and Friday
- 7 Tuesday, Thursday and Saturday
- 8 Monday, Wednesday and Friday
- 9 Saturday only
- a Including Sunday

- b Tuesday and Wednesday
- c Tues., Thurs. and Fri
- d Thurs., Fri., and Sat.

ATLANTIC TIME	EASTERN TIME	7:55 a.m.	WKZO 590	WMFF 1310	WJSV 1460	WNEL 1290	WFMD 900
7:50 a.m.	7:00 a.m.	WBNS 1430	WNBC 1380	WSOC 1210	WKJC 1200	WSAR 1450	WGAR 1450
CHSJ 1120	WBX 1200	WMBR 1370	WSAR 1450	9:15 a.m.	WNBH 1310	WTIC 1040 ²	WIBX 1200
9:00 a.m.	WNEI 1290	8:00 a.m.	8:30 a.m.	WBRE 1310	WNYC 810	11:15 a.m.	WINS 1180
CKCW 1370	7:15 a.m.	CFRB 690	WCAU 1170	WBSO 920	WPAR 1420	WMPG 1200	WIOD 1300
9:30 a.m.	WCML 1310	CKLW 1030	WEHC 1420	9:30 a.m.	WPTF 680	WSPD 1340	WIP 610
CHNS 930	WKZO 590	CMLJH 1360	WFBC 1300	KQV 1380	WSPA 920	11:30 a.m.	WIS 1010
10:30 a.m.	WNAC 1230	CMKM 1120	WOPI 1500	WFDF 1310	10:15 a.m.	WAGM 1420	WJW 1210
CJCB 1240	WNAJ 1260	WAAB 1410	8:45 a.m.	WHDL 1420	WKZO 590	WBNS 1430	WKJC 1200
12:15 p.m.	WSAJ 1310 ¹	WCKY 1490	WJEG 1210	WIP 610	WLW 700	WDBO 580	WKOK 1210
CKCW 1370	7:30 a.m.	WFBR 1270	8:55 a.m.	WKBZ 1500	WSAR 1450	WSYB 1500	WLEU 1420
12:30 p.m.	WBT 1080	WKBN 570	WEAN 780	WNEW 1250	10:30 a.m.	11:45 a.m.	WDAE 1220
CHNC 1410	WMBC 1420	WKJC 1200	9:00 a.m.	9:45 a.m.	WBIG 1440	WNAC 1230	12:03 p.m.
CJLS 1810	WSAI 1330	WPRO 630	WAJM 1200	9:55 a.m.	CBS Sun.	WSYR 570	WWJ 920
1:00 p.m.	7:35 a.m.	WPBD 1346	WBEN 900	OKLW 1030	10:45 a.m.	11:55 a.m.	12:15 p.m.
CJCB 1240	WICC 600	WTAG 580	WBGJ 1440	WOKO 1430	WBT 1080	CFCF 600	WBG 1440
5:05 p.m.	7:45 a.m.	WIC 1040	WCSC 1360	10:00 a.m.	11:00 a.m.	WBAL 1060	WBZA 990
CHSJ 1120	WBIG 1440	WWVA 1160	WGAR 1450	Red & Blue	Red & Blue ²	Noon	WCAP 1280
7:00 p.m.	WFIL 560	8:05 a.m.	WIS 1010	CBS	CMKM 1120	CJIC 890	WDAS 1370
CFNB 550	WINS 1180	WEEI 590	WJKB 1500	WCAU 1170	WCKY 1490	CMJA 1010	WHAM 1570
CJCB 1240	WKRC 550	8:15 a.m.	WKJC 1200	WDEI 1150	WGBI 850	WBZ 990	WKBN 570
8:00 p.m.	WMAZ 1180	WASH 1270	WLEU 1420	WELL 1420	WKJC 1200	WCAE 1220	WOL 1310
CJCB 1240	WSAZ 1190	WBSO 920	WMAZ 1180	WIBX 1200	WMBC 1420	WFBP 1270	WSOC 1210
		WIP 610	WMBR 1370			WFIL 560	WEEI 590

LONG WAVE STATIONS BY FREQUENCIES

Keys.	Meters	Power	Call	Location	Keys.	Meters	Power	Call	Location
208	1446	60.	FLE	Paris, France			1.2	KJF	Omaha, Nebr.
		35.	RW10	Minsk, USSR			.15	WWIE	Goshen, Ind.
		16.	TFU	Reykjavik, Ice.	326	920	1.2	KCAP	Big Spring, Tex.
216	1389	30.	SBG	Motala, Sweden			1.2	KSG	Cheyenne, Wyo.
218	1380	100.	RW76	Novorossiisk, USSR			2.	VFS	Lethbridge, Alta.
224	1339	.125	KCCU	Davenport, Iowa			.05	VXR	Jarvis, Ont.
		.125	KCDJ	Livingston, Mond.	332	903	1.2	KCAU	Houston, Tex.
		.5	SP1	Warsaw, Poland			1.2	KCCR	Fontana, Calif.
		150.	WSG	Warsaw, Poland			1.2	KCY	Portland, Ore.
		1.2	WWAT	LaCrosse, Wis.			1.5	VFN	St. Hubert, Que.
		1.2	WWQ	Birmingham, Ala.			2.	VFP	Forrest, Man.
		....	WWQ	Bellefonte, Pa.			1.2	WBP	Key West, Fla.
226	1330	.1	HJIABB	Barranquilla, Cib.			1.2	WEK	Wichita, Kans.
227	1322	10.	RW62	Iakutsk, USSR			1.2	WWAS	Cincinnati, O.
230	1304	.8	KCAF	Albuquerque, N. M.			1.2	WWAW	Charleston, S. C.
		1.2	KCAK	Shreveport, La.	333	900	10.	RW19	Ashkhabad, USSR
		.125	KCDV	Bismarck, N. D.			1.	RW66	Krasnovarsk, USSR
		1.2	WWAR	Jackson, Mich.	338	887	1.2	KCAM	Tucson, Ariz.
		150.	.....	Luxembourg, Lux.			1.2	KGD	Salt Lake City, Utah
232	1293	20.	RW4	Kharkov, USSR			1.2	WWAG	New Orleans, La.
236	1270	.....	.....	U. S. Common Wave			.8	WWHS	Chattanooga, Tenn.
238	1261	10.	RW8	Baku, USSR			1.2	WUW	Newark, N. J.
		60.	.....	Kalundborg, Den.	340	882	20.	RW3	Saratov, USSR
242	1239	1.2	KCAO	El Paso, Tex.	344	872	1.2	KCAV	Springfield, Mo.
		.125	KCDK	Billings, Mont.			.15	KCDU	Pendleton, Ore.
		.125	KCDN	Pembina, N. D.			1.2	KCS	Pasco, Wash.
		1.2	KCV	Oakland, Calif.			1.2	KCU	Fresno, Calif.
245	1224	100.	RW53	Leningrad, USSR			1.2	WWAV	Jacksonville, Fla.
248	1209	.05	CYW	Strathburn, Ont.			1.2	WVO	Cleveland, Ohio
		1.2	KCAG	Amarillo, Tex.	350	857	1.2	KCAH	Kingman, Ariz.
		.8	WFT	Spartanburg, S. C.			.05	KCCA	Oklahoma City
		1.2	WVBF	Mobile, Ala.			1.2	KCR	Boise, Idaho
		2.	VFT	Red Deer, Alta.			1.2	KDA	Chicago, Ill.
250	1205	2.	.....	Scheveningen, Neth.			10.	RW63	Verkhnecoudinsk
254	1180	1.2	KCAW	San Antonio, Tex.			1.2	WWBI	Raleigh, N. C.
		1.2	KLK	Reno, Nevada	355	845	10.	LKI	Finnmark, Nor.
		1.2	WWAP	Pittsburgh, Pa.			20.	RW12	Rostov, USSR
		1.2	WWBC	Titusville, Fla.	359	835	1.2	KCAD	Idaho Falls, Ida.
256	1170	25.	RW11	Tashkent, USSR			1.2	KRC	Kansas City, Mo.
260	1153	1.2	KCT	Los Angeles, Calif.	360	834	18.	HAC	Budapest, Hung.
		1.5	KCZ	Seattle, Wash.			18.	HAL2	Budapest, Hung.
		60.	LKO	Oslo, Norway	364	824	2.	RW24	Smolensk, USSR
		1.2	WNR	Richmond, Va.	365	821	1.2	KCAN	Fargo, N. D.
		1.2	WWAQ	Jackson, Miss.			.6	KCAS	Spokane, Wash.
266	1127	1.2	KCAE	Winslow, Ariz.			1.2	KKJ	Ft. Worth, Tex.
		1.2	KCAL	Yuma, Ariz.			1.2	WWAH	Albany, N. Y.
		1.2	KCAQ	Minneapolis, Minn.			1.2	WRW	Greensboro, N. C.
		1.2	KCX	Medford, Ore.	370	810	10.	RW21	Erivan, USSR.
		1.2	WHZ	Atlanta, Ga.	371	808	.125	KCDH	Helena, Mont.
		1.2	WSX	Boston, Mass.			1.2	WWAU	Memphis, Tenn.
		1.2	WWAB	Buffalo, N. Y.	375	800	40.	RW5	Sverdlovsk, USSR.
270	1100	.5	.....	Godthaab, Grn.	385	779	1.2	WWAC	Nashville, Tenn.
271	1107	100.	RCZ	Moscow, USSR			1.2	WWIF	Elmira, N. Y.
		100.	RW43	Moscow, USSR	387	775	.6	SBE	Boden, Sweden
272	1102	1.2	KCAJ	Little Rock, Ark.	390	769	4.	RW27	Nakhatch, USSR.
		1.2	KIS	Iowa City, Iowa	392	763	30.	.....	Banska Bystrica, Cz.
		1.2	WWAF	Miami, Fla.	401	748	100.	RW49	Moscow, USSR.
		1.2	WWX	Washington, D. C.			1.25	.....	Geneva, Switz.
278	1078	.....	.....	U. S. Common Wave	414	726	10.	RW25	Voronezh, USSR.
284	1056	1.2	KCAC	Butte, Mont.			.6	SBF	Ostersund, Swe.
		1.2	KVM	North Platte, Neb.	421	712	2.	RW47	Stalinabad, USSR.
286	1060	35.	RW7	Tiflis, USSR	431	696	1.5	OFF	Oleaborg, Fin.
290	1034	1.2	KCO	St. Louis, Mo.	436	688	10.	RW37	Oufa, USSR.
		1.2	KDN	Rock Springs, Wyo.	450	667	1.	RW83	Oiret Tura, USSR.
296	1013	1.2	KCAA	Tulsa, Okla.	472	636	1.	RW41	Syktykvar, USSR.
302	993	1.2	KCAR	Pueblo, Colo.			1.2	RW44	Omsk, USSR.
		.125	KCDZ	Advance, Mo.			1.	RW74	Tchobokary, USSR.
308	973	.125	KCAY	Missoula, Mont.	477	629	20.	.....	Lisbon, Port.
		.125	KCDR	Dickinson, N. D.	510	588	.7	LKH	Hamar, Norway
309	971	2.	.....	Soro, Denmark	519	578	.5	.....	Innsbruck, Aust.
310	968	10.	RW60	Alma Ata, USSR	527	569	10.	OFH	Viipuri, Fin.
314	955	1.2	KOJ	Elko, Nevada			3.5	.....	Grenoble, France
		2.	VFR	Maple Creek, Sask.			5.25	.....	Liubljana, Yugo.
		2.	VFU	London, Ont.	531	565	5.	.....	Bresle, Poland
320	937	.05	CE32	Los Andes, Chile	536	560	1.	IBZ	Bolzano, Italy
		1.2	KCAT	Millford, Utah			16.	SP10	Wilna, Poland
		1.2	KCAZ	Miles City, Mont.					

LONG WAVE STATIONS BY LOCATIONS

AUSTRIA	Paris	Warsaw	Rostov	Key West	MONTANA
Innsbruck 519	FLE 208	..... 224	RW12 355	WBP Miami 332	Billings 242
Vienna 240	..... 182	SP1 Wilna 536	Saratov 340	WWAF Titusville 272	KCDK Butte 284
CANADA	GERMANY	PORTUGAL	RW24 364	W/WBC 254	KCAC Helena 371
..... 191	Berlin	.....	Stalinabad 421	GEORGIA	KCDH Livingston 224
ALBERTA	GREAT BRITAIN	Lisbon 477	RW47 Sverdlovsk 375	Atlanta WHZ 266	KCDJ Miles City 320
Lethbridge VFS 326	Droitwich 200	RUMANIA	RW41 Syktykvar 472	IDAHO	KCAZ Missoula 308
Red Deer VFT 248	.....	Brasov 160	RW11 Tashkent 256	Boise KCR 350	NEBRASKA
MANITOBA	GREENLAND	.....	RW74 Tcheboksary 472	Idaho Falls KCAD 359	North Platte KVM 284
Forrest VFP 332	Godhavn	SPAIN	Tiflis 286	ILLINOIS	Omaha KJF 320
ONTARIO	Godthaab 270	Madrid 183	RW7 Verkhneoudinsk 350	Chicago KDA 350	NEVADA
Jarvis VXR 326	.....	.....	RW63 Voronezh 414	INDIANA	Elko KOJ 314
London VFU 314	HUNGARY	SWEDEN	RW25 YUGOSLAVIA 527	Goshen WWIE 320	Reno KLK 254
Strathburn CYW 248	Budapest	Boden SBE 387	UNITED STATES	IOWA	NORTH CAROLINA
QUEBEC	HAC 360	Motala SBG 216	ALABAMA	Davenport KCCU 224	Greensboro WRW 365
St. Hubert VFN 332	HAL2 360	Ostersund SBF 414	Birmingham WWAT 224	Iowa City KIS 272	Raleigh WWBI 350
SASKATCHEWAN	ICELAND	SWITZERLAND	Mobile WWBF 248	KANSAS	N. DAKOTA
Maple Creek VFR 314	Reykjavik TFU 183	Geneva 401	ARIZONA	Wichita WEK 332	Bismarck KCDV 230
CHILE	TFU 208	TURKEY	Kingman KCAH 350	LOUISIANA	Dickinson KCDR 308
Los Andes CE32 320	ITALY	Angora TAE 193	Tucson KCAM 338	New Orleans WWAG 338	Fargo KCAN 365
COLOMBIA	Bolzano I1BZ 536	Istanbul TAL 188	Winslow KCAE 266	Shreveport KCAK 230	Pembina KCDN 242
Barranquilla HJ1AB 226	LITHUANIA	USSR	ARKANSAS	MASSACHUSETTS	N. MEXICO
EUROPE	Kovno LYT 155	Alma Ata RW60 310	Little Rock KCAJ 272	Boston WSX 266	Albuquerque KCAF 230
CZECHOSLAVAKIA	LUXEMBOURG	Ashkhabad RW19 333	CALIFORNIA	MICHIGAN	NEW JERSEY
.....	Luxembourg 230	Baku RW8 238	Fontana KCCR 332	Jackson WWAR 230	Newark WWU 338
NETHERLANDS	NETHERLANDS	Erivan RW21 370	Fresno KCU 344	MINNESOTA	NEW YORK
De Bilt 182	.....	Iakutsk RW14 188	Los Angeles KCT 260	Minneapolis KCAQ 266	Albany WWAH 365
Huizen PX2 160	NETHERLANDS	RW62 227	Oakland KCV 242	MISSISSIPPI	Buffalo WWAB 266
Kootwijk 160	De Bilt 182	Kharkov RW4 232	COLORADO	Jackson WWAQ 260	Elmira WWIF 385
.....	Huizen PX2 160	Krasnovarsk RW66 333	Pueblo KCAR 302	MISSOURI	OHIO
Scheveningen 250	Kootwijk 160	Leningrad TW53 245	DISTRICT OF COLUMBIA	Advance KCDZ 302	Cincinnati WWAS 332
.....	Scheveningen 250	Makhatch RW27 390	Washington WWX 272	Kansas City KRC 359	Cleveland WWO 344
Soro 309	Zeesen 191	Minsk RW10 208	FLORIDA	St. Louis KCQ 290	OKLAHOMA
FINLAND	.....	Moscow RCZ 271	Jacksonville WWAV 344	Springfield KCAV 344	King
Lahti OFB 166	NORWAY	RW1 172			KCCA
Oleborg OFF 431	Finnmark LKI 355	RW49 401			
Viipuri OFH 527	Hamar LKH 510	RW43 271			
FRANCE	Oslo LKO 260	Novorossisk RW76 218			
Grenoble 527	POLAND	Olret Tura RW83 450			
	Brese 531	Omsk RW44 472			
		Oufa RW37 436			

LONG WAVE STATIONS BY LOCATIONS

Tulsa KCAA 296	Harrisburg WWHP 242 Pittsburgh WWAP 254	TENNESSEE Chattanooga WWHS 338 Memphis WWAU 371 Nashville WWAC 385	El Paso KCAO 242 Ft. Worth KKJ 365 Houston KCAU 332 San Antonio KCAW 254	Salt Lake KGD 338	Spokane KCS 365
OREGON Medford KCX 266 Pendleton KCDU 344 Portland KCY 332	SOUTH CAROLINA Charleston WWAW 332 Spartanburg WFT 248	TEXAS Amarillo KCAC 248 Big Spring KCAP 326	UTAH Milford KCAT 320	VIRGINIA Richmond WNR 260	WISCONSIN La Crosse WSG 224
PENN-SYLVANIA Bellefonte WWQ 224				WASHINGTON Pasco KCS 344 Seattle KCY 260	WYOMING Cheyenne KSG 326 Rock Spring KDN 290

LONG WAVE STATIONS BY CALLS

CE32 320	KCAR 302	KCS 344	LYT 155	RW37 436	TFU 183	WWAG 338
CYW 248	KCAS 365	KCT 260	OFB 166	RW41 472	TFU 208	WWAH 365
FLE 208	KCAT 320	KCU 344	OFF 431	RW43 271	VFN 332	WWAP 254
HAC 360	KCAU 322	KCV 242	OFH 527	RW44 472	VFP 332	WWAQ 260
HAL2 360	KCAV 344	KCX 266	PX2 160	RW47 421	VFQ 296	WWAR 230
HJ1ABB 226	KCAW 254	KCY 332	RCZ 271	RW49 401	VFR 314	WWAS 332
IBZ 536	KCAY 308	KCZ 260	RW1 172	RW53 245	VFS 326	WWAT 224
KCAA 296	KCAZ 320	KDA 350	RW3 340	RW60 310	VFT 248	WWAU 371
KCAC 284	KCCA 350	KDN 290	RW4 232	RW62 227	VFU 314	WWAV 344
KCAD 359	KCCR 332	KGD 338	RW5 375	RW63 350	VXR 326	WWAW 332
KCAE 266	KCCU 224	KIS 272	RW7 286	RW66 333	WBP 332	WWBC 254
KCAF 230	KCDH 371	KJF 320	RW8 238	RW74 472	WEK 332	WWBF 248
KCAG 248	KCDJ 224	KKJ 365	RW10 208	RW76 218	WFT 248	WWBI 350
KCAH 350	KCDK 242	KKL 254	RW11 256	RW83 450	WHZ 266	WWHP 242
KCAJ 272	KCDN 242	KOJ 314	RW12 355	SBE 387	WNR 260	WWHS 338
KCAK 230	KCDR 308	KRC 359	RW14 188	SBF 414	WRW 365	WWIE 320
KCAM 338	KCDU 344	KSG 326	RW19 333	SBG 216	WSG 224	WWIF 385
KCAN 365	KCDV 230	KVM 284	RW21 370	SP1 224	WSX 266	WWO 344
KCAO 242	KCDZ 302	LKH 510	RW24 364	SP10 536	WWAB 266	WWQ 224
KCAP 326	KCQ 290	LKI 395	RW25 414	TAE 193	WWAC 385	WWU 338
KCAQ 266	KCR 350	LKO 260	RW27 390	TAL 188	WWAF 272	WWX 272

FOREIGN B. C. STATIONS BY FREQUENCIES

Wavelength in meters is given in parentheses following frequencies in kilocycles. Entering dial number in square provided will enable you to identify stations heard. Power is given in second column in kilowatts and decimals thereof. Actual frequency is given in parentheses. While call letters are given wherever possible, very few European stations use these calls. Time is Local unless otherwise stated

520 (576.6)

LKH 7	Hamar, Nor. (519)
OFH 10	Viipuri, Fin. (527)
RW34 10	Stalingrad, U.S.R. (522)
..... 1.	Innsbruck, Aust. (519)
..... 5.	Ljubljana, Yug. (527)
..... .5	Tartu, Est. (517)

530 (565.7)

IBZ 1.	Bolzano, I. (536)
..... 16.	Wilno, Pol. (536)

540 (555.2)

HAL 120.	Budapest, Hun. (546)
	Budapest VIII, San- dor Utca No. 7.
	Weekdays 0045-1815; Sun. 315-1900 EST
RW52 20.	Tchita, U.S.R. (546)

550 (545.1)

2CR 10.	Cumnock, Ausl.
..... 100.	Beromunster, Sw. (556) Report to PTT, Berne, Speichergrasse No. 6. Weekdays 600-1630; Sun. 130-1630 EST

560 (535.4)

II1PA 4.	Palermo, I. (565)
MTCY 100.	Hsinking, Meh.
RW41 1.2	Syktyvkar, U.S.R. (563)
RW42 10.	Gorki, U.S.R. (565)
XLHB .045	Shanghai, Chn.
ZUG 10.	Grahamstown, S. Af.
6WA 10.	Minding, Ausl.
..... 60.	Athlone, IFS (565) Radio Atha Luain. Daily 830-1800 EST

570 (526)

CX2 ..	Montevideo, Uru.
XGOH 1.	Changsha, Chn.
2YA 5.	Wellington, N. Z. Featherstone St., Mon. to Sat. 700-900; 1000-1100; Sun. 900- 1215; 1300-1430; 1800- 2200.
..... 100.	Stuttgart, G. (574) Charlottenplatz No. 1 Daily 0000-2000 EST
..... 10.	Magnitogorsk, U.S.R. (571)

580 (516.9)

CE58 1.	Santiago, Chl. (585) Siam I. Villaseca (420)
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FOREIGN B. C. STATIONS BY FREQUENCIES

JFCK 1. Taichu, Formosa
 RW36 10. Archangel, USSR (586)
 RW54 10. Khabarovsk, USSR
 XQHA .25 Shanghai, Chn.
 YLZ 15. Riga, Lat. (583)
 3WV 10. Horsham, Ausl.
 20. Lisbon, Por. (629)
 15. Grenoble, F. (583)
 Daily 300-1730 EST

590 (508.2)

JOAK2 10. Tokyo, Jap. M.
 Tomabecio, EST.
 Daily 4 a.m.-7:30 a.m.
 LS10 5. Buenos Aires, Arg.
 Radio Callao, Callao
 666
 RW35 10. Astrakhan, USSR (598)
 7ZL 1. Hobart, Ausl.
 Elizabeth St. Mon. to
 Fri. 830-1030; 1290-
 1530; 1630-1800; 1900-
 100; Sat. 830-1000;
 1230-1300; Sun. 1200-
 300; 1630-1830; 1915-
 2400
 120. Vienna, Aust. (592)
 Wein No. 1, Johanne-
 nesgrasse No. 4B.
 Daily 310-1900 EST

600 (499.7)

CNR 25. Rabat, Mor. (601)
 Radio Maroc, Office
 Cheriffien des Postes et
 Telegraphes.
 PRH2 25. Porto Alegre, Brz.
 (new building)
 RW82 2.5 Frounze, U.S.R. (608)
 SBD 10. Sundsvall, Swe. (601)
 XMHA .6 Shanghai, Chn.
 ZTC 10. Cape Town, S. Af.
 4QN 7. Clevedon, Ausl.

610 (491.5)

CX4 1. Montevideo, Uru.
 Direccion de Agrono-
 mia, Millan, 746; 10-
 12; 17-19
 IIFI 20. Florence, I. EIAR
 Stazione di Firenze.
 Weekdays 130-1730;
 Sun. 310-1730 EST
 JODK2 10. Seoul, Ko.
 KZRM 50. Manila, P. I. (618.5)
 Daily 600-2300
 RW18 1. Pratiorsk, USSR
 RW22 10. Oufa, U.S.R. (617)
 RW50 2.5 Oust Abakansk, USSR
 (617)
 RW79 10. Murmansk, U.S.R.
 XGSS .015 Tsunshi, Chn.
 2FC 3. Sydney, Ausl.
 96 Market St. Mon.
 to Fri. 830-930; 1100-
 1300; 1330-1530; 1630-
 1745; 1900-100; Sat.
 830-930; 1100-1830;
 1900-100; Sun. 1130-
 1345; 1630-1815; 1930-
 2400

620 (483.6)

CE62 1. Santiago, Chl. (625)

Radio Chilena, Ed.
 Mutual 930-1130;
 1230-15; 1630-24
 Lisbon, Por. (629)
 Emissora Nacional.
 Daily 700-1900 EST
 JOTK .5 Matsuye, Jap. (625)
 LKT 20. Trondelag, Nor. (629)
 LV3 2. Cordoba, Arg.
 RW31 10. Ivanovo, U.S.R. (625)
 ZEK .25 Hong Kong, Chn.
 4ZP .5 Invercargill, N. Z.
 R. T. Parsons, 155
 Layard St. N., Mon.,
 Wed. 1230-1330; 1830-
 2130; Tue., Thus.,
 Fri. 1230-1330; 1900-
 2200; Sat. 1830-2130;
 Sun. 1100-1200; 1830-
 2200.

No. 1 15. Brussels, Belg. la
 Rue du Bastion
 Weekdays 655-1800;
 Sun. 445-1900 EST
 20. Cairo, Egypt.
 20. Jerusalem, Pal.

630 (475.9)

JODG .5 Hamamatsu, Jap.
 (635)
 LS3 4.5 Buenos Aires, Arg.
 Radio Mayo, Callao
 1526
 OKP 120. Praha, Cz. (633). The
 Radio Journal, Praha,
 Cz. Daily 0030-1730
 EST
 RW28 .3 Vladivostok, U.S.R.
 (635)
 RW32 10. Vladivostok, U.S.R.
 (635)
 TW84 1.2 Oust-Abakansk, USSR
 (635)
 3AR 4.5 Melbourne, Ausl.
 120A Russel St., Mon.
 to Fri. 830-1100; 1300-
 1900; 1930-2400; Sat.
 830-1100; 1300-1900;
 1930-130; Sun. 1225-
 1630; 1810-2230

640 (468.5)

JOUK .3 Akita, J. (645)
 RW29 10. Petrozavodsk, U.S.R.
 (648)
 RW56 1.2 Penza, U.S.R.
 YN 90. Lyons, F. (648). La
 Doua (testing).
 Daily 215-1800 EST
 ZEK .5 Hong Kong, Chn.
 GMT Mon., Thurs.,
 Sat., from 12:30. The
 Secretary, Hong Kong
 Brdstg. Com., P. O.
 Box 200.
 ZTJ 10. Johannesburg, S. Af.
 (645)
 5CK 7.5 Crystal Brook, Ausl.
 Relays SCL Mon. to
 Fri. 9-10; 1230-1600;
 17-1830; 1930-130; Sat.
 9-1030; Sun. 1230-
 1530; 17-19; 1945-0030
 Shanghai, Chn.

650 (461.3)

CX6 10. Montevideo, Uru.
 Estacion Oficial, Mar-
 tin Fierro 2603. 12-
 14; 17-23
 JOCG .3 Asahigawa, J. (655)
 Pres. NBC, Hokkaido
 Asahikawa Branch,
 EST Daily 11 p.m.-
 7:30 a.m.
 JQAK .5 Dairen, Mnch. (652)
 IYA 10. Auckland, N.Z.
 Karangahape Rd.
 Mon. to Sat. 7-9; 10-
 23; Sun. 9-1215; 13-
 1630; 18-22
 100. Colonge, G. (658)
 Dagoberstrabe No. 38
 Daily 0000-1800 EST

660 (454.3)

CE66 1. Santiago, Ch. (665)
 Union Espanola, De-
 licias 1159 (now bldg.)
 XGOA 75. Nanking, Chn.
 RW38 2. Alexandrovsk U.S.R.
 (662)
 50. Manchester, G. B.
 (668) North Regional
 Weekdays 515-1900;
 Sun. 730-1745 EST

670 (447.5)

JFAK 10. Taihoku, For.
 LS4 6. Buenos Aires, Arg.
 MTFY 3. Harbin, Mnch. (674)
 RW23 1. Grozny, U.S.R. (676)
 YV6RV .3 Valencia, Vnz.
 2CO 1. Corowa, Ausl.
 Relays 3LO and 3AR.
 Mon. to Fri. 830-13;
 1330-1530; 1630-1745;
 19-1; Sat. 830-1030;
 1130-13; 1330-1830; 19-
 100; Sun. 1130-1345;
 1430-1815; 1930-2400
 25. Sottens, Swi. (677)
 Report to PTT Berne.
 Speichergasse No. 6.
 Weekdays 630-1630;
 Sun. 355-1630 EST

680 (440.9)

HJN .5 Bogota, Col. (681)
 JOLK .5 Fukuoka, J.
 JOVK .5 Hakodate, J.
 LKD .5 Bodo, Nor. (686)
 RW17 10. Kazan, USSR. (686)
 RW27 4. Makhkhal, USSR. (689)
 RW46 1.2 Karaganda, U.S.R.
 (686.5)
 RW71 1.2 Petropavlovsk, U.S.R.
 (689)
 RW74 1.2 Tcheboksary, U.S.R.
 2.5 Belgrade, Yug. (686)
 1.5 Salisbury, S. Af.
 (681.9)

690 (434.5)

CX8 1. Montevideo, Uru.
 Estacion Oficial

FOREIGN B. C. STATIONS BY FREQUENCIES

XGOY .5 Yunnan-fu, Chn.
 6WF 3.5 Perth, Ausl.
 Hay St. Mon. to Fri.
 1030-1230; 1400-1730;
 1830-20; 21-3; Sat.
 1030-12; 1430-3; Sun.
 Sun. 14-17; 1830-2030;
 2115-200
 7. Paris, F. (895) FPTT
 Ecole Superieure des
 Postes et Telegraphes
 (Testing with 120 kw.)
 Daily 300-1800 EST

700 (428.3)

CE70 1. Santiago, Chl. (705)
 Ultimas Noticias,
 Compania 1283; 1130-
 1230; 16-20; 22-24
 JOKK .5 Okayama, J.
 PRA7 .05 Sao Paulo, Brz., Rua
 Tibirica 26 (706)
 RW48 2.5 Elista, USSR. (704)
 SBA 55. Stockholm, Swe. (704)
 Weekdays 145-1700;
 Sun. 3-17 EST
 VPB 1.75 Colombo, Cey. (705)
 XMHC .5 Shanghai, Chn.
 ZP15 .. Villarrica, Par.
 2NR 7. Lawrence, Ausl.

710 (422.3)

11RO 50. Rome, I. (713)
 Weekdays 130-1730;
 Sun. 335-1730 EST
 JOJK 3. Kanazawa, J.
 LS1 5. Buenos Aires, Arg.
 Radio Municipal,
 Teatro, Colon
 RW16 10. Kouibychew, USSR.
 XGML .0075 Kashing, Chn. (714.3)
 XGOS 1 Chunking, Chn. (711)

720 (416.4)

CW9 .12 Colonia, Brz. Ernesto
 W. Labbe (bldg.)
 JFBK 1. Tainan, For.
 JORK .5 Kochi, J. Mr. Mat-
 suo, Mgr., EST Daily
 10:15 p.m.-7:30 a.m.;
 Sun., 10:30 p.m.-7:30
 a.m.
 PRF2 .25 Rio Claro, Brz. (725)
 Radio Club of Rio
 Claro
 PRG5 .75 Santos, Brz. Radio
 Atlantica
 RW9 36. Kiev, USSR. (722)
 XLHC .05 Shanghai, Chn.
 XLHD .05 Shanghai, Chn.
 3YA 10. Christchurch, N. Z.
 Gloucester St. Mon.
 to Sat. 7-9; 10-23;
 Sun. 9-1215; 13-1630;
 1730-22
 6GF 2. Kalgoolie, Ausl.

730 (410.7)

CE73 1. Vina del Mar, Chl.
 La Union, Ave. Por-
 taes 528
 CX10 1. Montevideo, Uru.
 Internacional Brd-

..... 50. csg. Industria 2840;
 11-15; 16-24
 EAJ2 3. Madrid, Sp. (731)
 Radio-Espana
 EAJ5 5.5 Seville, Sp. (731)
 Daily 230-1630 EST
 JOSK 1. Kokura, J. (735)
 LVI 1.5 San Juan, Arg. Radio
 Graffigna, C. de
 Correo 44
 RW65 1. Saransk, USSR. (734)
 XMGS .05 Wuchow, Chn.
 SCL 2. Adelaide, Ausl.
 Hindmarsh Square.
 Same Schedule as
 5CK, 640 kc.
 20. Tallin Est. (731)

740 (405.2)

OFD 1. Peri, Fin. (749)
 PR6G 1.5 Uberaba, Brz.
 XHHB 1. Shanghai, Chn.
 2BL 3. Sydney, Ausl.
 98 Market St. Mon.
 to Fri. 830-1100; 13-
 19; 1930-2400; Sat.
 830-11; 13-15; 1930-
 130; Sun. 1225-1630;
 18-2330
 100. Munich, G., Funk-
 naus Rundfunkplatz
 No. 1
 Daily 0000-1800 EST
 5. Marseilles, F. (745)
 PTT Daily 245-17 EST
 2. Sortavala, Fin. (749)

750 (399.8)

HS7PJ 10. Bangkok, Siam
 JOBK1 10. Osaka, J.
 LR7 1. Buenos Aires, Arg.
 LUHO .02 T'ung Hsien, Chn.
 OAX4A 1.5 Lima, Peru. Daily 11
 a.m.-1 p.m.; 6-7; 9-11
 p.m.
 PRA2 1.5 Rio de Janeiro, Brz.
 Rua da Carcoca 45
 PRA8 3. Pernambuco, Brz.
 Ave. Cruz Cabuga 394
 RW64 10. Urdjonikidze, USSR.
 (752)
 XGOK 1. Canton, Chn.
 YV4RC .1 Caracas, Vnz.
 ZTD 1.5 Durban, S. Af.
 7NT 7. Kelso, Ausl. Same
 schedule as 7ZL, 590
 kc.
 15. Tientsin, Chn.
 12. Katowice, Pol. (758)
 10. Maritzburg, S. Af.

760 (394.5)

CE76 10. Valparaiso, Chl. (765)
 Coop. Vitalicia, Ed.
 La Nacion, 9 Piso
 LT4 .2 Mendoza, Arg.
 PRD9 .25 Sorocaba, Brz. (769)
 Radio Soc. Sorocaba
 RW78 3. Ijevsk, USSR. (767)
 XLHI .0075 Shanghai, Chn.
 XLHJ .015 Shanghai, Chn.
 2YB .1 New Plymouth, N. Z.
 Empire Bldg., King
 St. Mon. 19-22; Wed.

1830-22; Sat. 1330-17
 1830-22; Sun. 18-22
 Falkirk, G.B. (767)
 Scottish Regional
 Weekdays 515-19;
 Sun. 730-1730 EST

770 (389.4)

CX12 1. Montevideo, Uru.
 Radio Westinghouse.
 Itacabo 2620; 10-23
 Sendai, J.
 JOHK 10. LKF .7 Frederikstad, N. (776)
 RW26 10. Stalino, U.S.R. (776)
 VUM .2 Madras, In.
 3LO 3.5 Melbourne, Ausl.
 120A Russel St. Mon.
 to Fri. 830-930; 11-13;
 1330-1530; 1630-1745;
 19-1. Sat. 830-930; 11-
 1830; 19-1; Sun. 1130-
 1345; 1630-1815; 1930-
 24
 2. Toulouse, F. (776)
 PTT Daily 330-1730
 EST

780 (384.4)

CE78 1. Santiago, Chl. (785)
 Huke, Providencia:
 10-1130; 13-14; 1830-
 20; 2130-24
 JOPK .5 Shizuoka, J.
 KZEG 1. Manila, P. I.
 Daily 8-20
 LT1 5. Rosario, Arg.
 Radio Litoral, Cor-
 doba 1049
 PRE7 5. Sao Paulo, Brz. (788)
 Radio Cosmos, Praca
 Marechal Deodoro 52
 Shanghai, Chn.
 XHHC .05 Leipsig, G. (785)
 120. Temporarity on low
 power.
 Daily 00-18 EST

790 (379.5)

EAJ1 7.5 Barcelona, Sp. (795)
 Union Radio. Daily
 215-19 EST
 JOGK 10. Kumamoto, J.
 LR10 8. Buenos Aires, Arg.
 Radio Cultura, Bel-
 grano 1841
 RW51 1. Naitchik, USSR. (794)
 ZTB .5 Bloemfontaine, S. Af.
 4YA .5 Dunedin, N. Z.
 Stuart St. Mon. to
 Sat. 7-9; 10-23; Sun.
 9-1215; 13-1630; 1730-
 22
 16. Lwow, Pol. (795)
 Polskie Radio SA.
 Rozglosnia we Lwowie
 Daily 1-18 EST

800 (374.8)

LU2 .5 Bahianblanca, Arg.
 Radio Educadora do
 Brasil, Rua Senador
 Dantas 82

FOREIGN B. C. STATIONS BY FREQUENCIES

PRB7 .5 Rio de Janeiro, Brz.
 XLHK .0075 Shanghai, Chn.
 XLHL .1 Shanghai, Chn.
 4QG 2.5 Brisbane, Austral.
 State Insurance Bldgs. Mon. to Fri. 830-1030; 12-1530; 1630-18; 19-1; Sat. 830-10; 1230-1; Sun. 12-15; 1630-1830; 1915-24
 50. Cardiff, G.B. (804)
 West Regional Weekdays 1515-1900; Sun. 730-1745 EST

810 (370.2)

CE81 1. Valparaiso, Chl. Chilena Consolidada, Edwards 383.
 CX14 5. Montevideo, Uru. El Espectador Ltd., Lanus 5760, 10-24
 11MI 50. Milan, I. (814) Radio Milano, Corso 28, Ottobre 102, Milano 134
 Weekdays 1330-1730; Sun. 330-1730 EST
 JOCK1 10. Nagoya, J.
 PRA6 19. Sao Paulo, Brz. (815) Radio Educadora Paulista, Rua Jose Bonifacio 12
 VUC 3. Calcutta, In.
 1. Peiping, Chn.

820 (365.6)

CE82 1 Santiago, Chl. (825) El Diario Ilustrado, Moneda 1158, 9-10; 12-14; 16-1830; 20-24
 LV7 .5 Tucuman, Arg. G. Acha Munoz y Cia. Mendoza 437
 PRH8 5. Rio de Janeiro, Brz. Radio Ipanema
 RW68 1.5 Tseliabinsk, U.S.R. (824)
 XLKB .055 Tientsin, Chn.
 2ZH .065 Napier, N. Z. C. B. Hansen & Co., 59 Latham St., Mon., Tue., Fri. 12-14; 19-22; Wed. 12-14; 1830-2230; Thu. 12-14; Sat. 10-17; 19-23; Sun. 12-15; 1830-22
 7HO 1. Hobart, Austral. 82 Elizabeth St. Mon. to Sat. 930-1030; 1330-1530; 1900-0030; Sun. 2130-2330
 12. Bucharest, Ru. (823) Weekdays 6-1730; Sun. 430-1830 EST

830 (361.2)

JOIK 10. Sapporo, J. T. Okada, Chf. Engr. EST Daily, 4 a.m.-7:30 a.m.
 LR5 16. Buenos Aires, Arg. Radio Excelsior, Malpu 462

RW39 100. Moscow, U.S.R. (832) Innan Marr, Esq. Moscow-Stalin Radio Station.
 XGF .0075 Tsinan, Chn. (833) Daily 9-1630 EST
 XGWH .03 Wuhu, Chn.
 3GI 7. Longford, Austral.

840 (356.9)

F31CD 12. Saigon, Indo. Cie Generale de Telegraphie sans Fil, P.O. Box, 238
 LT8 .35 Rosario, Arg. Julio Blomberg, Sarmiento 958
 PRA4 .5 Bahia, Brz. Radio Soc. da Bahia Chang-sha, Chn. Shanghai, Chn.
 XGTM .015 Hengkong, C. (845)
 XHHA .15 The Secretary, Hong Kong Brdcastg. Com., P. O. Box 200.
 ZBW 2. Wellington, N. Z. Featherstone St. Mon. to Sat. 17-18; 19-220; Sun. 18-22
 100. Berlin, G. (841) Radio Reichsender, Berlin Brdcastg. House Daily 0000-1300 EST

850 (352.7)

CX16 1. Montevideo, Uru. SADREP, Av. S. Martinez 13500; 8-1
 EAJ3 3. Valencia, Sp.
 HSP1 2.5 Bangkok, Siam (856)
 JOFK 10. Hiroshima, J.
 LKA .35 Aalesund, Nor.
 LKB 1. Bergen, Nor.
 LKP .7 Porsgrund, Nor.
 PRB3 .25 Juiz de Fora, Brz. (857)
 RW73 10. Radio Soc. de Juiz de Fora, Parque Herald Simferopol, U.S.R. (859)
 VQ7LO .6 Nairobi, Ken. (858)
 VUB 3. Bombay, In. (855)
 VOG .5 Tsinan, Chn. (852)
 XQHB .1 Shanghai, Chn.
 5RM 1. Ronmark, Austral.
 1. Sofia, Bul.
 35. Strasbourg, F. (859) Radio Strasbourg PTT, 30 Rue du 22 Nov. Weekdays 545-19; Sun. 1630-19 EST
 05 Hangchow, Chn.

860 (348.6)

CE86 .5 Santiago, Chl. (865) Otto Becker, Alameda 113, 10-1230; 15-17; 19-22.
 LV10 .5 Mendoza, Arg.
 PRA3 2.5 Rio de Janeiro, Brz. Radio Club de Brasil, Rua Betancourt da Silva 21
 XHHD .05 Shanghai, Chn.

..... 16. Poznan, Pol. (868) Daily 1-18 EST
6 Paris, F. (868) AGEN

870 (344.6)

CE87 .1 Talcahuano, Chl. (875) Francisco Morales, Aldea 96
 JOAK1 10. Tokyo, J. M. Tomabe, EST Daily 4 a.m.-7:30 a.m.
 LR6 16. Buenos Aires, Arg. La Nacion, Florida 347
 RW85 2. Igarka, U.S.R. (871)
 XLIL .02 Suchow, Chn.
 2GB 1. Sydney, Austral. "The Nation's Station", Adyar House, 29 Bligh St., Mon. to Sat. 830-1; Sun. 930-1330; 1415-24
 50. London, G.B. (877) London Regional. Weekdays 515-1930; Sun. 730-1745 EST

880 (340.7)

CE88 1. Valparaiso, Chl. (885) El Mercurio de Valparaiso, Casiono de Vina del Mur. 1230-1345; 1630-1730; 20-23
 LV2 7. Cordova, Arg. Radio Central, San Lorenzo 339
 PRB2 .25 Curitiba, Brz. (882) Radio Club Paranaense
 RW61 1. Iochar-Ola, U.S.R. (888)
 XHHV .1 Shanghai, Chn.
 YV2RC .1 Caracas, Venez. (882)
 1YX .5 Auckland, N. Z. Karangahape Road Mon. to Sat. 17-18; 19-22; Sun. 18-22
 6PR .5 Perth, Austral. Barrack St., Mon. to Sat. 1030-12; 14-1530; 21-2; Sun. 2330-130
 7. Graz, Aust. (886) Daily 310-19 EST

890 (326.9)

CX18 .75 Montevideo, Uru. Difusora El Espectador, E. Martinez Esq. J. Paullier, 11-14; 1730-24
 MTBY 1. Mukden, Mnch.
 OFA 10. Helsinki, Fin. (895)
 XGKA .015 Kashing, Chn. (895)
 ZP9 1.5 Asuncion, Par. (898)
 5. Limoges, F. (895)

900 (333.1)

CE90 1. Santiago, Chl. (905) El Mercurio, Compania esq. Morande. 15-1630; 21-24
 JODK1 10. Seoul, Korea
 KZIB 1. Manila, P. I. Daily 10-20
 LV9 .5 Salta, Arg.

FOREIGN B. C. STATIONS BY FREQUENCIES

PRF3 5. G. Sanchez y Cia., Alberdi 110
 XGON .2 Sao Paulo, Brz.
 XGTM .1 Nanking, Chn.
 2ZP .105 Tengchow, Chn.
 Wairoa, N. Z.
 E. A. Perry, 128 Queen St. Tue. 7-9; 18-2230; Wed. to Sat. 7-9; Sun. 730-930

3MA .05 Mildura, Ausl.
 22 Deakin Ave. Mon. to Thu. 9-10; 12-13; 1930-24; Fri. 9-10; 12-13; 1930-0030; Sat. 9-10 1930-0030; Sun. 1230-1530; 1945-2330

4WK .05 Warwick, Ausl.
 King and Albion Sts. Daily 1230-1530; 19-2330
 100. Hamburg, G. (904)
 Radio Reichsender Hamburg. Daily 00-18 EST

910 (329.6)

LR2 6. Buenos Aires, Arg. Radio, Bolivar 1356 Argentina

RW30 10. Dnepropetrovsk, U.S.R. (913)

XLIM .05 Manim, Chn.
 4RK 2. Rockhamton, Ausl. Relays 4QG. Same schedule as 4QG 800 kc.

60. Toulouse, F. (913)
 Villa Schmidt, Rue Monie. Daily 3-1930 EST
 .5 Limoges, F. (913)

920 (325.9)

CW19 .05 Rocha, Uru. Arispuru y Machado, 10-13; 18-21

JOJK .5 Niigata, J.
 OKB 32. Brno, Cz. (922)
 Daily 0030-1730 EST

PRC3 .25 Pelotas, Brz.
 Soc. Radio Pelotense R'de Janeiro, Brz. (923). Soc. Anonima "Journal de Brasil"

PRF4 10. Shanghai, Chn.
 2ZR .015 Nelson, N. Z. Trafalgar St. Temporarily silent.

930 (322.4)

CX20 2. Montevideo, Uru. Radio Monocarolo, Humberto I No. 3. 11-1430; 16-24

JOAG .5 Nagasaki, J.
 PRD2 1. R'de Janeiro, Brz. (932) Soc. Radio Cruzeiro do Sul; Rua Mariz e Barros 270

RW55 1. Engels, U.S.R. (932)
 VUG 1. Delhi, India
 3UZ .65 Melbourne, Ausl.

45 Bourke St. Mon. to Thu. 830-1530; 1645-100; Fri. 830-16;

1645-100; Sat. 830-1330; 1930-130; Sun. 1130-1400; 1915-2330
 No. 2 15. Brussels, Belg. (932) Weekdays 7-19; Sun. 5-19 EST

940 (319)

CE94 1. Santiago, Chl. (945) Chilena Consolidada, E. Llanos 35. 12-14; 17-20; 21-24

JONK .5 Nagano, J. K. Yanada, Dir. EST Daily 4-1930

PRE4 .25 Rio de Janeiro, Brz. (941). Soc. Radio Cultura "A Voz do Espacao"

SEB 10. Goteborg, Swe. (941) Weekdays 145-17; Sun. 3-17 EST

XHHE 1. Shanghai, Chn.
 3ZR .4 Greymouth, N. Z. West Coast Radio Soc., Bright St., Cobden. Mon. to Fri. 730-830; 15-17; 18-19; 1930-22; Sat. 730-830; 1330-17; 18-21; Sun. 12-1330; 1730-1830; 19-21

..... 12. Algiers Alg. (941) Radio PTT du Govt. Gen., Rue Berthezene, Alger, Algeria, N. Af. Daily 8-18 EST

950 (315.6)

LR3 12. Buenos Aires, Arg. Radio Belgrano. Belgrano 1841

PP 60. Paris, F. (959) Poste Parisien, 4 Rue du General-Foy. Daily 210-18 EST

PRF8 .5 Bahia, Brz. (959) Radio Commercial da Bahia

RW40 1. Gomel, U.S.R. (959)
 RW54 1. Gomel U.S.R. (959)

XGOP .28 Pelping, Chn.
 ZTP .5 Pretoria, S. Af. (952)

2UE 1. Sydney, Ausl. Rex Shaw, 296 Pitt St., Mon. to Fri. 730-15; 16-1; Sat. 730-1230; 1500-130; Sun. 930-1330; 1815-0030

..... 100. Breslau, G. Schlesische Funktunde, GIMBH, Breslau 18 Daily 23-18 EST

960 (312.3)

JOOK .3 Kyoto, J.
 PRB4 1. Santos, Brz. Radio Club de Santos, Rua de Pedro II 16.

RW13 10. Odessa U.S.R. (968)
 RW67 2. Oukhta, U.S.R. (968)
 RW69 10. Odessa, U.S.R. (968)

XHHF .1 Shanghai, Chn.
 YVIRC 5. Caracas, Venez. (961)

Brdestg. Car. as, Apt de Correos 2009. Sun. 9-23; Weekdays 16-2230

2ZF .25 Palmerston, N. Z. King St., Mon. Thurs., Sat., 20-22; Wed. 1815-22; Fri., Sun., 19-2130

5DN .3 Adelaide, Ausl. 29 Rundle St., Mon. to Fri. 915-115; Sat. 915-15; 20-115; Sun. 845-0015

970 (309)

CX22 .25 Montevideo, Uru. Fada Radio, Larranga 278. 1030-1530; 17-23

JOBG .5 Maebashi, J.
 XHIB .075 Wushih, Chn.
 3BO .2 Bendigo, Ausl.

Kangaroo Flat. Mon. to Fri. 1230-1500; 19-24; Sat. 1230-24; Sun. 1130-1430; 2030-2330
 1. Belfast, GB (977)

980 (303.9)

CE98 1. Santiago, Chl. (985) Radio Bayer, E. Llanos 35. 13-14; 1930-2330

CNO .025 Casablanca, Mor. (983)

IIGE 10. Genoa, I. (986) EIAR Stazione di Genova. Weekdays 130-1730; Sun. 310-1730 EST

JOJK .5 Tokushima, J. T. Tsutsumi, Chf. Engr. EST Daily 2205-730; Sun., 2230-730

OAX4E .05 Lima, Peru, Juan P. Goicochea, Jiron Ocona No. 158

PRC6 1. R'de Janeiro, Brz. Soc. Radio Phillips, Rua Sacadura Cabral 43

XMH8 .5 Shanghai, Chn.
 2LV .. Invernell, Ausl.
 2ZJ .06 Gisborne, N. Z.

229 Gladstone Rd. Mon., Fri., Sat., 19-22; Tues., Wed., 12-1330; 19-22; Thurs., 19-20

4AY .1 Ayr., Ausl. Norman L. Dahl, Airdmillon Rd. "The Voice of the Cane Fields" Mon. to Sat. 16-1830; 1930-24; Sun. 2130-2330

6AM 1. Northam, Ausl. Mon. to Sat. 10-12; 1530-1730; 21-2; Sun. 1330-1730; 1830-2030; 2130-130

..... 24. Torun, Pol. (986) (Testing)

990 (302.8)

JOFG .3 Fukui, J.
 LR4 12. Buenos Aires, Arg.

FOREIGN B. C. STATIONS BY FREQUENCIES

Radio Splendid, Cal-
lao 1526. Daily 11-24
PFBI 60. Hilversum, Hol. (995)
Heir Radio Hilver-
sum, Ouden, Engweg,
4. Daily 310-1810 EST
XGCK .075 Chuching, Chn.
XGOD 1. Hangchow, Chn.
2GZ 2. Orange, Ausl.

1000(299.8)

CE100 .5 Santiago, Chl. (1005)
La Nacion, Fontecilla
66
CW23 .25 Salto, Uru.
Modesto Llantada.
10-1230; 17-20
HJ3ABH 2. Bogota, Col. (1005)
"La Voz de La Vic-
tor", Aptdo 565, Sun.,
12-14; 16-21; Wednes-
days 1130-14; 18-23
HJ4ABJ .05 Armenia, Col.
OKR 13.5 Bratislava, Cz. (1004)
Daily 8030-1730 EST
FRA9 1. Rio de Janeiro, Brz.
Radio Soc. Mayrink
Veiga, Rua Mayrink
Veiga 17
PRB8 .05 Mogy das Cruzes, Brz.
XGMK .015 Poatung, Chn. (1005)
XGOT .05 Taiyuan, Chn.
ZP3 .3 Asuncion, Par.
4GR .5 Toowoomba, Ausl.
Ruthven St.. Mon. to
Fri. 8-1530; 19-2330;
Sat. 8-1430; 1930-2330;
Sun. 1130-1430; 030-
2330

1010(296.9)

CE101 1. Vima del Mar, Chl.
Los Castanos Ave.
393, 1230-1330; 18-19;
21-22
CX24 10. Montevideo, Uru.
PRB9 5. Sao Paulo, Brz. (1017)
Radio Soc. Record,
Praça da Republica 17
RW86 5. Tchernigov, USR.
(1013)
XGOW 5. Hangkow, Chn.
3HA .3 Hamilton, Ausl. 37
Gray St., "The Age
Brdcstg. Service".
Mon. to Sat. 830-1030;
1330-1745; 1915-2400;
Sun. 1230-1800; 2015-
0030
4ZB .025 Dunedin, N. Z. 180
Ratray St. Wed.,
Thu. 18-23; Sun. 10-
12
4ZM .003 Dunedin, N. Z.
McCracken & Wells,
17 George St. Mon.,
Wed., Thu., Fri. 9-
1145; 13-14; Tue. 9-
1145; 13-14; 18-23;
Fri. 10-12; 13-14; Sat.
9-12; 17-22; Sun. 14-22
4Z0 .025 Dunedin, N. Z.
Mon. 12-13; 14-15; 20-
23; Tue., Wed., Thu.,
12-13; 14-15; 17-18;
Fri. 12-13; 14-15; 17-

..... 50. 18; 19-23; Sat. 12-13
Davenport, G. B. (1013)
Midland Regional.
Weekdays 545-1815;
Sun. 1130-1745 EST

1020(293.9)

CE102 .1 Santiago, Chl. (1025)
Nacimiento, J. In-
fante 2290, 13-14;
2130-2330
EAJ15 3. Barcelona, Sp. (1022)
EAJ19 .7 Oviedo, Sp. (1022)
JBAK .5 Fuzan, Korea
OBJ .. Lima, Peru. Escuela
MIHtor de Chorrillos.
Shanghai, Ch.
XHMG .1 Sydney Ausl. The
2KY 1. Block, George St.
Mon., Tue., Thu.,
Fri. 815-1330; 1430-17;
1745-0930; Wed. 815-
1330; 14-0030; Sat.
815-1240; 14-18; 1845-
0930; Sun. 9-0030
..... 2. Cracow, Pol. (1022)

1030(291.1)

CE103 .1 Valdivia, Chl. (1035)
Carlos Kahler, Ista
Teja
CT10L 5. Pareda, Por. (1031)
Radio Club Portu-
guese.
LR9 5. Buenos Aires, Arg.
Radio Fenix, Santa
Fe 1174
PRC8 1. Rio de Janeiro, Brz.
Radio Soc. Guanar-
abara, Rua 1st de Mayo
123
XGOF 1. Foochow, Chn.
YV1RMO .. Maracaibo, Venz.
(1034)
3DB .6 Melbourne, Ausl.
36 Flinders St. Mon. to
Fri. 8-1; Sat. 8-130;
Sun. 1130-1330; 1530-
24
..... 100. Konigsberg, G. (1031)
Daily 00-18 EST

1040(288.3)

CE104 .1 Magallanes, Chl.
Ramon Verde San-
ches, Mexicana 936.
1630-1730; 18-19; 2130-
2230
CP4 10. La Paz, Bol.
Carlos Lopez Vedela,
Casilla 637
CW25 .5 Durazno, Uru.
Artola Evangelisti y
Cia. 10-13; 18-23
RW70 10. Leningrad USR.
XHHH .1 Shanghai, Chn.
5PI 2. Port Pirie, Ausl.
Relays 5AD. Mon. to
Fri. 8-16; 19-1; Sat.
8-16; 17-1; Sun. 1930-
24
..... 40. Rennes-Bretagne, F.
Daily 3-1730 EST

1050(285.5)

CE105 1. Valparaiso, Chl.
Radio Valparaiso,
Prat 773. 1230-1315;
17-18; 2130-2235
CX26 2. Montevideo, Uru.
Radio Uruguay,
Millan 2370. 9-1430;
16-23
11BA 20. Bari, I. (1059) EIAR
Stazione di Bari
Weekdays 130-1730;
Sun. 335-1730 EST
PRF6 10. Rio de Janeiro, Brz.
RW33 1. Krasnodar, USR.
XHKA .1 Tien-tsin, Chn.
2CA .5 Canberra, Ausl. Mon.
to Fri. 14-15; 19-2330;
Sat. 1930-2330; Sun.
2130-2330
..... 50. Falkirk, G. B. Scot-
tish National. Week-
days 545-1815; Sun.
1130-1745 EST

1060(282.8)

CE106 1. Santiago, Chl.
Sud America, Goi-
colea 0222. 11-13;
17-18
LT9 .2 Santa Fe, Arg.
Radio Roca Solor
RW57 4. Tiraspol, USR. (1068)
XHMI .1 Shanghai, Chn.
3YB .025 Melbourne, Ausl.
430 Little Collins St.
Mon. to Sat. 20-24;
Sun. 2030-2330
4MB .05 Maryborough, Ausl.
Wynne's Stn. Mon. to
Fri. 10-1130; 1330-
1530; 20-2330; Sat.
10-1130; 1330-1530
..... 2. Paris, F. (1068)
Radio-Cite

1070(280.2)

LR1 .5 Buenos Aires, Arg.
Radio El Mundo
PYG2 10. Sao Paulo, Brz. Ra-
dio Tupy Sao Paulo
XGOX .2 Honan-fu, Chn.
XKRI .1 Canton, Chn. (1071)
..... 30. Bordeaux, F. (1077)
Hotel des PTT, 220
Chemin do Tondou
Daily 300-1730 EST

1080(277.6)

CE108 .1 Concepcion, Chl.
(1085) El Sur, Freyre
799. 14-15; 20-22
CW27 .25 Salto, Uru.
Ernesto Popelka. 8-
14; 17-23
JOBK2 10. Osaka, I. (1085)
LT3 3.5 Rosario, Arg. Radio
Soc. Rural de Cereal-
istas, Pto. Roca 770
OAX4F .05 Lima, Peru
F. W. Castelano &
Hno. Opens and
closes "Anchors A-

FOREIGN B. C. STATIONS BY FREQUENCIES

weigh" Daily except
Sun., 15-17 EST
SCC 2. Fatun, Swe. (1086)
XHHJ .2 Shanghai, Chn.
ZP7 .7 Asuncion, Par. (1083)
2AD .. Armidale, Ausl.
35H .05 Swan Hill, Ausl.
Mon. to Sat. 14-15;
2030-24; Sun. 1345-
1545; 1745-1930; 2045-
2330
..... .7 Zagreb, Yu. (1086)

1090(275.1)

CE109 .1 Valparaiso, Chi.
Zenith, Atahualpa
816 13-14; 2130-2330
CX28 3. Montevideo, Uru.
EAJ7 10. Madrid, Sp. (1095)
Union Radio Station
EAJ7, Apto 745.
Daily 3-19 EST
PRC2 3. Porto Alegre, Brz.
Radio Soc. Gaucha,
Galerie Chaves
PRC7 .25 Bello Horizonte, Brz.
Soc. Radio Mineira
Vinnitza, USR. (1095)
RW75 10. Loyang, Chn.
XGOB .25 Auckland, N. Z.
153 Krangahape Rd.
Tue. to Fri. 9-930;
1015-1100; 1830-2130;
Sat. 9-930; 1015-11;
1515-1645; Sun. 9-12;
1830-2130
..... . Shuhsing, Chn.

1100(272.6)

CE110 1. Santiago, Chi. (1105)
Mavis, Ave. J. D.
Canas 655. 12-13;
21-23
HJ3ABD .05 Bogota, Col.
Alford's Radio, Calle
16. No. 5-40
IINA 1.5 Naples, I. (1104)
XHHS .1 Shanghai, Chn.
7LA .3 Lancelton, Ausl.
67 Brisbane St. Mon.
to Fri. 9-1030; 1330-
1530; 19-24; Sat. 9-
1030; 16-1830; 19-24;
Sun. 1915-2330
..... 50. Madona, Lat. (1104)
Weekdays 00-1630;
Sun. 200-1700 EST

1110(270.1)

CE111 .1 Osorno, Chi. (1115)
David Arriagada,
Baquedano 715
LS5 4.5 Buenos Aires, Arg.
Radio Rivadavia,
Callao 1526
OKK 11.2 Moravska, Cz. (1113)
Daily 0030-1730 EST
2UW 1. Sydney, Ausl., J. M.
Prentice, Box 241D,
GPO. "At the Cross
Roads of Sydney",
24 hrs. daily.
..... 10. Normandie, F. (1113)
Fecamp

Daily 2-21 EST
..... .001 Suchow, Chn.

1120(267.7)

CE112 .1 San Felipe, Chi.
Ilustre Municipalidad,
Baquedano 715
CW29 .05 Mercedes, Uru.
Bautista Abbo. 1130-
13; 1830-2230
HAE 6.2 Nyiregyhaza, Hung.
(1122)
LV5 .7 San Juan, Arg.
Radio Los Andes, G.
Acha 362
PRH3 10. Sao Paulo, Brz.
Radio Piratininga
XLHM .05 Shanghai, Chn.
XLHN .2 Shanghai, Chn.
4BC 1. Brisbane, Ausl., R. F.
Roberts, 43 Adelaide
St., Mon. to Fri. 8-
0030; Sat. 8-11; 1330-
0030; Sun. 830-1330;
1630-24
..... .25 Alexandria, Eg. (1122)
..... 1. Newcastle, G.B. (1122)

1130(265.3)

CX30 .5 Montevideo, Uru.
Radio Nacional, Por-
venir 2384. 9-24.
PRD8 1. Nitheroy, Brz. (1132)
Radio Club Flumini-
ense
SBH 10. Horby, Swe. (1131)
Weekdays 145-1700;
Sun. 3-17 EST
XGOC .5 Nan-chang, Chn.
ZP1 1. Asuncion, Par. (1135)
6ML .5 Perth, Ausl.
Lyric House, Murray
St. Mon. to Fri. 1030-
1230; 1430-16; 21-2;
Sat. 1030-1230; 1430-
16; 2130-2; Sun. 2230-
130

1140 (263)

CE114 .1 Santiago, Chi. (1145)
Spencer y Vivado,
Roman Diaz 1132.
13-14; 2130-2330
CW30 .. Tucuaremo, Uru.
Turin, I.
IITO 7. Weekdays 130-1730;
Sun. 310-1730 EST
XHHL .1 Shanghai, Chn.
2HD .5 Newcastle, Ausl.
Box 123. Mon. to Fri.
730-1530; 1630-1730;
19-24; Sat. 730-1530;
1630-1730; 19-130;
Sun. 1030-1330; 1630-
1730; 1830-130
4YO 1.5 Dunedin, N. Z.
Mon. to Sat. 17-18;
19-22; Sun. 18-22
..... 20. London National,
G.B. (1149)
..... 20. North National, G.B.
(1149)
Weekdays 545-1815;
Sun. 1130-1745 EST

..... 20. West National, G.B.
(1149)
Same as North
National

1150(260.7)

CE115 .1 Talca, Chi. (1155)
Enrique Garcia, Mo-
lino Holman
HC2ET .3 Guyaquil, Ec. (1153)
HJ1ABM .05 Cartagena, Cib. (1154)
LR8 5. Buenos Aires, Arg.
Radio Paris, Cangallo
860
XGGW .05 Tengchow, Chn.
XGOZ .1 Kongsu, Chn.
XGYV .015 Tsangchow, Chn.
YV7RMO .5 Maracaibo, Venz.
(1153)
2WG .2 Wagga, Aus.
16 Fitzmaurice St.
Mon. to Sat. 930-1030;
1330-1530; 1930-24;
Sun. 2130-2330
2ZM .015 Gisborne, N. Z.
Mon., Tue., Wed., Fri.,
Sat. 915-1015; Thu.
915-1015; 20-2230;
Sun. 19-22
..... 2.6 Kosice, Cz. (1158)

1160(258.5)

CW31 .25 Salto, Uru.
Salvador E Pera. 9-
1230; 16-23
LT5 .5 Resistencia, Arg.
Radio Chaco, Av. 9
de Julio
XHHU .1 Shanghai, Chn.
2KA .1 Katoomba, Ausl.
80 Market St. Time
indefinite
4MK .1 Mackay, Ausl.
64 Nelson St., Mon.
to Fri. 11-1230; 15-
19; 20-0030; Sat. 11-
19; 20-0030; Sun.
1130-14; 1630-1830;
20-23
6BY .05 Bunbury, Ausl.
Bedford Hall
..... 15. Mte. Ceneri, Sw.
(1167)
Report to PTT Berne,
Spighergrasse No. 6
Weekdays 6-17; Sun.
430-1630 EST

1170(256.3)

CE117 .25 Valparaiso, Chi.
A Garcia y Cia, Cerro
Carcel 47
CX32 .5 Montevideo, Uru.
Radio Marconi, Gen.
Hornos 537. 10-2
Nagoya, J. (1175)
JOCK2 10. Sao Paulo, Radio
Cruceiro do Sul, Largo
da Misericordia 4
PRB6 1. Campinas, Brz. (1175)
Radio Educadora di
Campinas
PRC9 .25 Wusih, Chn.
XLIF .03 Narrabri, Ausl.
2NZ 2. Masterton, N. Z.
2ZD .005

FOREIGN B. C. STATIONS BY FREQUENCIES

W. D. Ansell, 7 Rimu St. Daily 20-22. Relays 2YA Tue., Fri., Sat., Sun.
4TO .2 Townsville, Aus. Mon., Tue., Thu., Fri. 9-1; 1330-1530; 1930-2345; Wed., Sat. 9-10; 15-19; 1930-2345; Sun. 2030-2330
 10. Cophgen., Den. (1176) Strats Radio Fonien Heibergsgrade No. 7

1180(254.1)

CE118 1. Santiago, Chl. (1185) Siam. Boliver 1551 Salto, Uru.
CW32 .25 Tromsø, Nor. (1186) LKM .1 Kharkov, USR. (1185) RW20 10. Shanghai, Chn. XHHZ .15 Melbourne, Ausl., S. Morgan, 64 Elizabeth St., "The Brighton Brdcastg. Service", 24 Victoria St. Mon. to Fri. 8-1530; 16-18; 1830-1900; Sat. 8-1215; 1345-230; Sun, 16-18; 1930-24
3KZ .6

1190(252)

CE119 .1 Magallanes, Chl. Radio Austral, Independencia s/n. 20-23
LS2 25. Buenos Aires, Arg. Radio Prieto, Bolivar 1356
OAX4H ... Lima, Peru. Radio Zenith, Casa Davilo Peiping, Chn. (1194)
XLKA .03 Sydney, Ausl. 2CH 1. 77 York St., Mon. to Fri. 830-15; 1630-0030; Sat. 830-14; 1445-0030; Sun. 12-14; 16-2330
 25. Frankfurt, G. (1195) Eschersheimer Landstrabe No. 33. Daily 00-20 EST
 5. Freiburg, G. (1195) Kaiserslautern (1195)
 2. Trier, G. (1195)
 5. Cassel, G. (1195)
 2. Coblenz, G. (1195)

1200(249.9)

CE120 .1 Curico, Chl. (1205) Melw 11
CW33 .075 Florida, Uru. Omar F. Barreiro. 11-13; 2030-23
HJ3ABE 1. Bogota, Cib., Uribe y Moreno, P. O. Box 317.
OAX4B .25 Lima, Peru
PRD3 .25 Taubato, Brz. (1207) Soc. Radio Bandeirante
PRG9 5. Sao Paulo, Brz.
XHNN .1 Shanghai, Chn.
YV3RC 3. Caracas, Vnz. Bajos Pasaje Ramella Lahore, India
VUL .1 Christchurch, N. Z.
3YL .5

Mon. to Sat. 17-18; 19-22; Sun. 18-22
SKA .3 Adelaide, Ausl. Richards Bldg., Mon. to Fri. 830-1; Sat. 830-2; Sun. 12-14; 17-18; 1845-100
No. 2 5. Praha, Cz. (1204) Bangkok, Siam

1210(247.8)

CX34 .5 Montevideo, Uru. Radio Artigas, Millan 2370. 10-16; 18-23
OA4AR .025 Lima, Peru
OA4D .025 Lima, Peru
XLPH .015 Pinghu, Chn.
XLTC .015 Wusih, Chn.
2GF .05 Grafton, Ausl. 47 York St., Mon. 9-10; 1330-1430; 1930-2330; Tue. to Sat. 9-10; 1430-1530; 1930-2330
6KG .085 Kalgoorlie, Ausl. 86 Palace Chambers. Mon. to Fri. 1430-1630 22-2; Sat. 1730-2030; 2230-2; Sun. 2315-0130
 60. Lille, F. (1213) Radio PTT Nord (testing) Daily 3-1730 EST

1220(245.8)

CE122 1. Santiago, Chl. (1225) Radio Mayo, Bandera 154. 11-12; 21-23
CW34 .25 Salto, Uru.
I1TR 10. Trieste, I. (1222) Weekdays 130-1730; Sun. 310-1730 EST
PRE3 10. Rio de Janeiro, Brz. Radio Transmissora Brasileira
XGOT .5 Pei-ping, Chn.
4AK 1. Oakey, Ausl. Daily 19-0030
4ZL .1 Dunedin, N. Z. 243 Macandrew Rd. Mon., Thu., Sat. 8-9; 1930-23; Tue., Wed., Fri. 8-9; Sun. 830-1030
 3. Narvik, Norway (1222)

1230(243.8)

HJ4ABK .3 Medellin, Cib.
LS8 20. Buenos Aires, Arg. Radio Stentor, Florida 8
2NC 2. Newcastle, Ausl. Relays 2FC and 2BL. Mon. to Fri. 830-1530; 1630-1745; 19-100; Sat. 830-1030; 1130-1830; 19-100; Sun. 1130-1815; 1930-24
 5. Gleiwitz, G. (1231)
 05. Hangchow, Chn.

1240(241.8)

CE124 .1 Concepcion, Chl. (1245) Rolando Beckendorf, Ave. Argentina 977

CW35 .25 Paysandu, Uru. Buenaventura y Mahler. 9-13; 17-22
LV-14 .2 La Rioja, Arg. Radio Provincia de La Rioja
XHHY .1 Shanghai, Chn.
2ZL .05 Hastings, N. Z. John Holden, 609 Park Rd. Thurs., 1830-23; Sun. 930-1200

3TR .5 Sale, Ausl. A. Gilchrist, Raymond St., "Gippsland's Radio Station." Mon. to Fri. 12-15; 19-24; Sat. 12-1430; 1930-24; Sun. 20-24
6CK 1. Cork, I. F. S.
6IX .5 Perth, Ausl. St. George's Terrace. Mon. to Fri. 1230-1430 2130-230; Sat. 1230-1545; 2130-230; Sun. 17-1830; 2130-200
 2. Juan-les-Pins, F. (1249). Radio Cote d'Azur.
 2. Swedish Relay Stations.

1250(239.9)

CE125 1. Valparaiso, Chl. David Wallace, Esmerald 1111. 13-14; 19-20; 2130-22.
CX36 .25 Montevideo, Uru. Centenario Brdcastg. Ignacio Nunez 2133. 9-14; 17-24
EAJ8 1. Sn. Sebastian, Sp. (1258)
HC2JB .03 Guayaquil, Ec.
MABS .035 Siangyuang, Chn.
PYG8 .25 Bauru, Brz.
XLIE .05 Wusih, Chn.
 No. 3 1. Rome, I. (1258)
 10. Kuldiga, Lat. (1258)

1260(238)

CE126 1. Santiago, Chl. (1265) Consorcio Espanol, Gran Ave. 2564. 9-10; 16-17; 21-22.
CW36 .03 Salto, Uru.
LT11 .25 Parana, Arg. Radio Provincia de Entre Rios.
XHHP .1 Shanghai, Chn.
1ZM .05 Manurewa, N. Z. W. Rodgers, Massey Rd. Mon. to Fri. 17-22; Sat. 13-16; 17-24; Sun. 10-18; 19-22
3WR .05 Shepparton, Ausl. High St. Mon. to Fri. 12-1430; 1930-0030; Sat. 12-1430; 2030-2330; Sun. 2130-2230
 2. Nurnberg, G. (1267)

1270(236.1)

LKK .5 Khristiansand, Nor. (1276)

FOREIGN B. C. STATIONS BY FREQUENCIES

LKS .5 Stavanger, Nor. (1276)
 LS9 5. Buenos Aires, Arg.
 Radio La Voz del
 Aire, Pozos 439.
 OA40 .1 Lima, Peru (1277)
 PRE8 7. Rio de Janeiro, Brz.
 Soc. Radio Nacional
 Rua Buenos Aires 120.
 Tunis, Tun. (1275)
 TUA .5 Wu-hu, Chn.
 XDYF .015 Asuncion, Par. (1275)
 ZP4 .15 Sydney, Ausl. 46
 25M 1. Carrington St.,
 "Double D Eucalyptus"
 Australia House, Mon. to Sat. 830-1030;
 1430-24; Sun. 1230-24

1280(234.2)

CE128 .5 Temuco, Chl.
 Luis Brain. 14-15; 20-22.
 CW37 .025 Colonia, Uru.
 N. Gonzales Moreno. 9-11; 14-18; 20-23.
 LU7 .2 Bahiablanca, Arg.
 Radio Gen. San Martin,
 Calle Saromiento 60.
 PRG3 10. Rio de Janeiro, Brz.
 Shanghai, Chn.
 XHHQ .08 Melbourne, Ausl.
 3AW .6 218 Exhibition St.
 Mon. to Sat. 8-1130;
 1230-1; Sun. 1145-14;
 18-24.
 4ZC .007 Cromwell, N. Z.
 John I. Bilton, Lowburn
 Ferry. Daily 9-11.
 .1. Aberdeen, G. B. (1285)
 .25 Dresden, G. (1285)
 .1 Tientsin, Chn.

1290(232.4)

CX38 .5 Montevideo, Uru.
 Ramon Puyal, Caigua 3710.
 11-14; 18-23.
 PRA5 5. Sao Paulo, Brz. (1295)
 Radio Club de Sao Paulo,
 Rua 7 de Abril Bishane, Ausl.
 Mon. to Fri. 830-0030;
 Sat. 830-0130; Sun. 13-1530;
 1830-24.
 .15. Linz, Aust. (1294)
 .5 Dornbirn, Aust. (1294)
 .4.2 Klagenfurt, Aust. (1294)
 .2. Vorarlberg, Aus. (1294)

1300(230.6)

CPX 5. La Paz, Bol.
 CW38 .03 Salto, Uru.
 LT10 .1 Santa Fe, Arg.
 Radio del Inst. Soc. de la Univ. Nac. del Litoral
 OAX4C .. Lima, Peru, Estacion Radiodifusora DUSA,
 Calle de Plumeros.
 PRC4 .05 Ampara, Brz. (1304)
 XGOE 1. Nanning, Chn.

XQHC .5 Shanghai, Chn.
 YVSRMO .15 Maracaibo, Vnz.
 2TM .05 Tamworth, Ausl.
 Peel St. Mon. to Sat. 830-1030;
 1330-1530;
 17-18; 19-2330; Sun. 1330-1530;
 1630-1830;
 2030-2330.
 .5 Danzig, Dan. (1303)

1310(228.9)

CE131 .1 Santiago, Chl. (1315)
 Los Cuatro Ases, Roman Diaz 1972.
 14-1530; 2130-23.
 LS7 .3 Buenos Aires, Arg.
 PRE9 5. Fortaleza, Brz. (1315)
 Ceara Radio Club
 SBC 1.25 Malmo, Swe. (1312)
 SCK .25 Karlstad, Swe. (1312)
 SCO .25 Norrkoping, Swe. (1312)
 SCQ .25 Trollhattan, Swe. (1312)
 XL1J .05 Wusih, Chn.
 5AD .3 Adelaide, Ausl.
 Weymouth St. Daily 9-0100

1320(227.1)

CW39 .1 Paysandu, Uru.
 Miguel Penna. 1030-1230;
 1730-2245
 HAE2 1.25 Magyaroar, Hun. (1321)
 HJ3AB .05 Bogota, Col.
 XL1A .015 Ningpo, Chn.
 3BA .05 Ballarat, Ausl.
 Armstrong and Dana Sts.
 Mon. to Fri. 9-1145;
 1330-1530; 2030-24;
 Sat. 9-1145; 2030-0030;
 Sun. 1430-1630; 20-2330

1330(225.4)

CE133 .1 Osorno, Chl. (1335)
 Radio Austrai Montevideo, Uru.
 Radio Fenix, Chayos 4534;
 8-24
 HJ1ABA .1 Barranquilla, Ciba., E. J. Pellet B., P. O. Box 751
 PRE2 .5 R' de Janeiro, Brz.
 Soc. Radio Cajuti, Rua Conde de Bomfim 457
 PRG7 .25 Jahu, Brz.
 Radio Club Jahuense Kiangyin, Chn. (1335)
 XGSA .001 Changchow, Chn.
 XL1K .075 Broken Hill, Ausl., 10 O'Connell St., Mon. to Sat. 9-11; 20-0030;
 Sun. 1230-15; 20-24
 2BH .1 Rockhampton, Ausl.
 Mon., Tue., Thu., Fri., Sat. 1930-2330;
 Wed. 1930-2345; Sun. 2030-2330
 4RO .05 .5. Montpellier, F. (1339)
 .2. Bremen, G.
 .2. Hanover, G.
 .2. Madgeburg, G.

..... 2. Stettin, G.
 2. Flensburg, G.
 1.7 Lodz, Pol. (1339)

1340(223.7)

CE134 .15 Santiago, Chl. (1345)
 Luis Desmaras Los Leones, Camelia 2860 (bldg.)
 CW40 .03 Paysandu, Uru.
 LKR .15 Rjukan, Nor. (1348)
 LT7 .04 Corrientes, Arg.
 Radio Provincialde Corrientas
 XGED .015 Suchow, Chn.
 XHHR .05 Shanghai, Chn.
 2RN .5 Dublin, I. F. S. (1348)
 2XN .05 Lismore, Aus. P. O. Box 138B.
 Mon. to Fri. 830-930; 1530-1630;
 1930-2330; Sat. 830-930; 1930-2330
 4ZR .004 Balclutha, N. Z.
 Renton & Clark. Clyde St.
 Tue. 1930-20; Thu. 19-20; Sun. 10-12; 1930-2130
 No. 2 4. Milan I. (1348)
 2. Ille de F., F. (1348)
 5. Salzburg, Aust. (1348)
 2. Konigsberg, G. (1348)
 1. Bordeaux, F. (1348)
 5. Cairo, Eg. (1348)

1350(222.4)

CE135 .1 San Antonio, Chl. (1355)
 Puerto San Antonio Casa 12
 LKN .15 Notodden, Nor. (1357)
 LS6 3.5 Buenos Aires, Arg.
 Radio del Pueblo, Estados Unidos 1816
 OA6E .03 Arequipa, Peru
 3GL .05 Geelong, Ausl.
 National Mutual Bldg., Mon. 830-1045; 1430-1530;
 19-24; Tue., Wed., Thu. 9-1045; 1430-1530;
 19-24; Fri. 845-1045; 1430-1530;
 19-24; Sat 9-1045; 1930-0030;
 Sun. 2030-2335.
 No. 2 .2 Turin, I. (1357)

1360(220.4)

CW41 .05 San Jose, Uru.
 Radio San Jose 10-14; 18-23.
 OAK .15 Lima, Peru
 PRC5 .1 Belom, Brz. (1364)
 Radio Club de Para Arraraquara, Brs. (1364)
 PRD4 .25 Arraraquara, Ave. Araraquara, Ave. Feijo 25
 PRF9 .5 Porto Alegre, Brz.
 Empresa Radiodifusora
 XQHD .2 Shanghai, Chn.
 2MO .05 Gunnodah, Ausl. P. O. Box 78.
 Mon. to Sat. 830-1030; 1330-1530;
 1930-2330; Sun. 930-1130; 1530-1730; 1930-2330

FOREIGN B. C. STATIONS BY FREQUENCIES

4PM .1 Port Moresby, Ausl.
No. 2 .1 Turin, I. (1366)

1370(218.8)

CX42 1. Montevideo, Uru.
Colonial Brdcast.
Ave. Italia 3646. 11-24
XHHA .05 Hangchow, Chn.
3HS .05 Horsham, Ausl. 84
Wilson St. Mon.,
Thu. 1330-15; 20-24;
Tue., Wed., Fri. 1330-
15; 1930-24; Sat. 1330-
15; 20-0030; Sun.
1330-15; 2030-2330
..... .5 Basle, Swi. (1375)
..... .5 Berne, Swi. (1375)

1380(217.3)

CE138 .5 Santiago, Chl. (1385)
Radio Aliviol, Gumer-
sindo 135 (bldg.)
CW42 .02 Artigas, Uru.
LUG .05 Mar del Plata, Arg.
Radio Atlantica
PRF7 .5 Campos, Brz.
XLHE .05 Shanghai, Chn.
XLHF .05 Shanghai, Chn.
4BH .6 Brisbane, Ausl. Par-
bury House, Eagle St.
Mon. to Fri. 830-1030;
1230-1430; 19-0030;
Sat. 830-1030; 19-0030;
Sun. 1330-1630; 20-
24.
No. 2 2. Warsaw, Pol. (1384)
..... 150. Motala, Sw. (1389)
(testing)

1390(215.7)

CE139 .1 Rancagua, Chl.
Jorge Romero, Ave.
O'Higgins 128. 1130-
1230; 18-20
LR11 1. La Plata, Arg.
Radio Univ. Nac. de
La Plata
XLIN .05 Wushu, Chn.
2GN .1 Goulburn, Ausl.
Auburn St. Mon. to
Fri. 1345-1515; 1930-
24; Sat. 1330-1430;
1930-24; Sun. 2030-
2330
7BU .. Burnie, Ausl.
..... 5. Radio-Lyons, F.
(1393)

1400(214.2)

CW43 .02 Melo, Uru.
Difusora Electra
(bldg.)
FFZ .25 Shanghai, Chn.
OA6D .15 Arequipa, Peru
PRDS 1. R' de Janeiro, Brz.
Dpto. de Educacao da
Prof. Largo da Carlo-
ca 5
XLHO .1 Shanghai, Chn.
ZZO .1 Palmerston, N. Z.
J. V. Kyle, 50 Walde-
grave St. Tue. 1830-
22; Thu. 1830-21; Sun.
10-1230

Swedish Common Wave (1402)
See SC in Index by Calls

1410(212.6)

CE141 .1 Concepcion, Chl.
Radio Phillips, Cau-
polican 370.
CX44 .2 Montevideo, Uru.
SADREP, Solis
Grande 912. 8-2
PRB5 .05 Franca, Brz. (1415)
Radio Club Hertz
PRE5 .25 Uberaba, Brz.
Radio Soc. Triangulo
Mimero
2KO .5 Newcastle, Ausl.
57 Hunter St. Mon.
to Fri. 830-1730; 1830-
24; Sat. 1130-0030;
Sun. 1030-1130; 1930-
2330

Portuguese Common Wave (1411)

1420(211.1)

CE142 .1 Santiago, Chl. (1425)
S. Pitz y Cia (bldg.)
CW44 .1 Paysandu, Uru.
..... .8 Paris, F. (1424)
Radio LL
LS11 1. Buenos Aires, Arg.
OFE .7 Tampere, Fin.
XHHK .1 Shanghai, Chn.
LZS .05 Auckland, N. Z.
3XY .6 Melbourne, Ausl.
Princess Theatre.
Mon. to Sat. 8-1530;
1615-01; Sun. 1130-14;
16-24
..... 1.5 Beziars, F. (1429)
..... .5 Alexandria, Eg. (1429)
..... .5 Turku, Fin. (1429)

1430(209.7)

CE143 .1 Magallanes, Chl.
Santiago G. Aguilera
Valdivia 250
HAE3 1.25 Miskolc, Hung. (1438)
LP9 1.5 La Plata, Arg.
LS11 .7 La Plata, Arg.
Radio Prov. de Bs.
Aires
PRD7 .25 Sorocaba, Brz.
Radio Club Sorocaba
Minsk, U.S.R. (1438)
RW10 100. Wollongong, Ausl.
2WL .05 Russell Yeldon, Woon-
glongong Brdcastg. Co.
"Ferranti Products".
Mon. to Fri. 12-1330;
20-2330; Sat. 20-2330;
Sun. 2030-2230
4GY .05 Gympie, Ausl.

1440(208.2)

CW45 .03 Durazno, Uru.
OA6U .05 Arequipa, Peru (1443)
PRG4 .25 Jabotical, Brz. Radio
Club Jabotical (1442)
XLHQ .03 Shanghai, Chn.
ZQN .. Deniliquin, Ausl.
4IP .05 Ipswich, Ausl.
Spanish Common Wave (1447)

1450(206.8)

CE145 .1 Rancagua, Chl.
Guillermo Espinosa,
Brasil 1174. 16-17;
19-20; 22-23
CX46 1.5 Montevideo, Uru.
Radio America, Cam-
mino Corrales 2808.
10-24
XLIB .015 Suchow, Chn.
XOMO .015 Pelping, Chn.
5MU .01 Murray Bridge, Ausl.
Regional unit of 5AD.
Daily 9-24
..... 5. Paris F. (1456) Eiffel
Tower

1460(205.4)

CE146 .. Santiago, Chl.
Markoff Hnos.
CW46 .03 Tucumano, Uru.
HAE4 1.25 Pecs, Hun. (1465)
ON4EB .1 Antwerp, Belg. (1465)
XQHE .25 Shanghai, Chn.
ZP5 .15 Asuncion, Par. (1465)
7UV .3 Ulverstone, Ausl.
Mon. to Fri. 9-1030;
19-24; Sat. 9-1030;
1330-0030; Sun. 1330-
1530; 19-2330
..... 1.5 Dresden, G. (1465)
..... 3. Courtrai, Belg. (1465)
..... .. Bega, Ausl.

1470(204)

XGDZ .001 Changchow, Chn.
2BE .1 Bega, Ausl.
3ZM .06 Christchurch, N. Z.
Green & Younger, 253
Brougham St. Mon.
to Thu. 730-10; 17-
18; 19-22; Fri. 730-10;
Sat. 730-10; 20-24;
Sun. 11-14; 17-18; 19-
22
4CA .1 Cairns, Aus.
..... .3 Plymouth, G. B.
(1474)
..... 1. Bournemouth, G. B.
(1474)

1480(202.6)

CW47 .1 Canelones, Uru.
Rafael J. Espiga, 11-
14; 16-23
PRH4 1. Petropolis, Brz.
XQHF .2 Shanghai, Chn.
2AY .1 Albany, Ausl. John
Dower, 47 York St.,
(Sydney). Mon. to
Fri. 1345-1515; 19-24;
Sat. 14-1515; 19-0030
4BU .1 Bundaberg, Ausl.

1490(201.2)

CX48 1.5 Montevideo, Uru.
Ciulow & Abella (now
bldg.)
ON4CE .1 Chatelineau, Belg.
(1492)
XLKS .02 Kashing, Chn.
No. 1 .1 Wallonia, Belg. (1492)

FOREIGN B. C. STATIONS BY FREQUENCIES

<p>2TM .05 Tamworth, Ausl. 1 Binche, Blg. (1492) 2 Nimes, F. (1492) 1 Courtral, Belg. Spanish Common Wave (1492) See EAJ in Index by Calls</p> <p style="font-size: 1.2em;">1500(199.9) </p> <p>HJSABE .. Cali, Colombia Jose Calderon N, Cia. Radiodifusora Co- lombiana, S. A. Aptd. 50</p>	<p>PRG6 .25 Cruzeiro, Brz. Soc. Radio Manti- queira VUP 2. Peshawar, India XHHT .1 Shanghai, Chn. XOCL .0075 Tsinan, Chn. 3AK .2 Melbourne, Ausl. 116 Queen St. Mon. 630-830; Tue. to Fri. 0100-0330; 630-830; Sat. 0100-0330; 630- 830; 1430-1530; Sun. 0100-430; 14-16; 2330- 8130 Hobart, Ausl.</p>	<p>..... .25 Pietersaari, Fin. 2 Radio Alcala, Sp. Belgium has several 100 watt sta- tions on 1500.</p> <p style="font-size: 1.2em;">1510(198.6) </p> <p>YDA .5 Tandjongpriok, Java</p> <p style="font-size: 1.2em;">1530(196.0) </p> <p>SCJ .2 Karlskrona, Swe.</p>
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FOREIGN B. C. STATIONS BY LOCATIONS

SOUTH AMERICA	LV5	1120	700	PRB7	800	500	Santiago	
ARGENTINA				PRC6	980	1000	CE58	585 1000
Bahia Blanca				PRC8	1030	1000	CE62	625 1000
LU2 800 500	Santa Fe			PRD2	932	1000	CE66	665 1000
LU7 1280 200	LT9 1060 200			PRD5	1400	1000	CE70	705 1000
Buenos Aires	LT10 1300 100			PRE2	1330	500	CE78	785 1000
LR1 1070 500	Tucuman			PRE3	1220	10000	CE82	825 1000
LR2 910 6000	LV7 820 500			PRE4	940	250	CE86	865 500
LR3 950 12000	BOLIVIA			PRE8	1270	7000	CE90	905 1000
LR4 990 12000	La Paz			PRF4	923	10000	CE94	945 1000
LR5 830 16000	CPX 1300 5000			PRF6	1050	10000	CE98	985 1000
LR6 870 16000	CP4 1040 10000			PRG3	1280	10000	CE100	1005 500
LR7 750 1000	BRAZIL			Santos			CE102	1025 100
LR8 1150 5000	Arraraquara			PRB4	960	1000	CE106	1065 1000
LR9 1030 5000	Bahia			PRG5	720	750	CE110	1105 1000
LR10 790 8000	PRA4 840 500			Sao Paulo			CE114	1145 100
LS1 710 5000	Bauru			PRA5	1295	5000	CE118	1185 1000
LS2 1190 25000	PYG8 1250 250			PRA6	815	10000	CE122	1225 1000
LS3 630 4500	Belem			PRA7	706	50	CE126	1265 1000
LS4 670 6000	PRC5 1360 100			PRB6	1170	1000	CE131	1315 100
LS5 1110 4500	Bello Horizonte			PRB8	1000	50	CE134	1345 150
LS6 1350 3500	PRC7 1090 250			PRB9	1017	5000	CE138	1385 500
LS7 1310 3000	Campinas			PRC4	1304	50	CE142	1425 100
LS8 1230 20000	PRC9 1175 250			PRF7	788	5000	CE146	1460
LS9 1270 5000	Campos			PRF3	900	5000	Talcahuano	
LS10 590 5000	PRF7 1380 500			PRG9	1200	5000	CE87	875 100
Cordoba	Cruzeiro			PRH3	1120	10000	Tala	
LV2 880 7000	PRG6 1500 250			PYG2	1070	10000	CE115	1155 100
LV3 620 2000	Curityba			Sorocaba			Tomuco	
Corrientes	PRB2 882 250			PRD7	1430	250	CE128	1285 500
La Plata	Fortaleza			PRD9	769	250	Valdivia	
LP9 1430 1500	PRE9 1315 500			Taubate			CE103	1035 100
LR11 1390 1000	Franca			PRD3	1207	250	Valparaiso	
LS11 1430 700	PRB5 1415 50			Uberaba			CE76	765 10000
La Rioja	Jabotical			PRE5	1410	250	CE81	810 1000
LV14 1240 200	PRG4 1442 250			PRE6	740	1500	CE88	885 1000
Mar del Plata	Juiz de Fora			CHILE			CE105	1050 1000
LU6 1380 50	PRB3 857 250			Concepcion			CE109	1090 105
Mendoza	Nitheroy			CE124	1245	100	CE117	1170 250
LT4 760 200	PRD8 1132 1000			CE141	1410	100	CE125	1250 1000
LV10 860 500	Pelotas			Curico			Vina del Mar	
Parana	PRC3 920 250			CE120	1205	100	CE73	730 1000
LT11 1260 250	Pernambuco			Magallanes			CE101	1010 1000
Resistencia	PRA8 750 3000			CE104	1040	100	COLOMBIA	
LT5 1160 500	Petropolis			CE119	1190	100	Armenia	
Rosario	PRH4 1480 1000			CE143	1430	100	HJ4ABJ	1000 50
LT1 780 5000	Porto Alegre			Osorno			Barranquilla	
LT3 1080 3500	PRC2 1090 3000			CE111	1115	100	HJ1ABA	1330 100
LT8 840 350	PRF9 1360 500			CE133	1335	100	Bogota	
Salta	PRH2 600 25000			Rancagua			HJN	681 500
LV9 900 500	Rio Claro			CE139	1390	100	HJ3ABD	1100 50
San Juan	PRF2 725 250			CE145	1450	100	HJ3ABE	1200 1000
LV1 730 1500	Rio de Janeiro			San Antonio			HJ3ABH	1005 2000
	PRA2 750 1500			CE135	1355	100	HJ3ABK	1320 50
	PRA3 860 2500			San Felipe			Cartagena	
	PRA9 1000 1000			CE112	1120	100	HJ1ABM	1154 50

FOREIGN B. C. STATIONS BY LOCATIONS

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3">Medellin</td></tr> <tr><td>HJ4ABK 1230</td><td>300</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">ECUADOR</td></tr> <tr><td colspan="3">Guyaquil</td></tr> <tr><td>HC2ET 1153</td><td>300</td><td></td></tr> <tr><td>HC2JB 1250</td><td>30</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">PARAGUAY</td></tr> <tr><td colspan="3">Asuncion</td></tr> <tr><td>ZP1 1135</td><td>1000</td><td></td></tr> <tr><td>ZP3 1000</td><td>300</td><td></td></tr> <tr><td>ZP4 1275</td><td>150</td><td></td></tr> <tr><td>ZP5 1465</td><td>150</td><td></td></tr> <tr><td>ZP7 1083</td><td>700</td><td></td></tr> <tr><td>ZP9 898</td><td>1500</td><td></td></tr> <tr><td colspan="3">Villarrica</td></tr> <tr><td>ZP15 700</td><td>....</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">PERU</td></tr> <tr><td colspan="3">Arequipa</td></tr> <tr><td>OA6D 1400</td><td>150</td><td></td></tr> <tr><td>OA6E 1350</td><td>30</td><td></td></tr> <tr><td>OA6U 1443</td><td>50</td><td></td></tr> <tr><td colspan="3">Lima</td></tr> <tr><td>OAX4A 750</td><td>1500</td><td></td></tr> <tr><td>OAX4B 1200</td><td>....</td><td></td></tr> <tr><td>OAX4C 1300</td><td>....</td><td></td></tr> <tr><td>OAX4E 980</td><td>50</td><td></td></tr> <tr><td>OAX4F 1080</td><td>50</td><td></td></tr> <tr><td>OA4K 1360</td><td>150</td><td></td></tr> <tr><td>OA4O 1277</td><td>100</td><td></td></tr> <tr><td>OA4D 1210</td><td>25</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">URUGUAY</td></tr> <tr><td colspan="3">Artigas</td></tr> <tr><td>CW42 1380</td><td>20</td><td></td></tr> <tr><td colspan="3">Canelones</td></tr> <tr><td>CW47 1480</td><td>100</td><td></td></tr> <tr><td colspan="3">Colonia</td></tr> <tr><td>CW9 720</td><td>120</td><td></td></tr> <tr><td>CW37 1280</td><td>25</td><td></td></tr> <tr><td colspan="3">Durazno</td></tr> <tr><td>CW25 1040</td><td>500</td><td></td></tr> <tr><td>CW45 1440</td><td>30</td><td></td></tr> <tr><td colspan="3">Florida</td></tr> <tr><td>CW33 1200</td><td>75</td><td></td></tr> <tr><td colspan="3">Melo</td></tr> <tr><td>CW43 1400</td><td>20</td><td></td></tr> <tr><td colspan="3">Mercedes</td></tr> <tr><td>CW29 1120</td><td>50</td><td></td></tr> <tr><td colspan="3">Montevideo</td></tr> <tr><td>CX2 570</td><td>....</td><td></td></tr> <tr><td>CX4 610</td><td>1000</td><td></td></tr> <tr><td>CX6 650</td><td>10000</td><td></td></tr> <tr><td>CX8 690</td><td>1000</td><td></td></tr> <tr><td>CX10 730</td><td>1000</td><td></td></tr> <tr><td>CX12 770</td><td>1000</td><td></td></tr> <tr><td>CX14 810</td><td>5000</td><td></td></tr> <tr><td>CX16 850</td><td>1000</td><td></td></tr> <tr><td>CX18 890</td><td>750</td><td></td></tr> <tr><td>CX20 930</td><td>2000</td><td></td></tr> <tr><td>CX22 970</td><td>250</td><td></td></tr> <tr><td>CX24 1010</td><td>10000</td><td></td></tr> <tr><td>CX26 1050</td><td>2000</td><td></td></tr> <tr><td>CX28 1090</td><td>3000</td><td></td></tr> <tr><td>CX30 1130</td><td>500</td><td></td></tr> <tr><td>CX32 1170</td><td>500</td><td></td></tr> <tr><td>CX34 1210</td><td>500</td><td></td></tr> <tr><td>CX36 1250</td><td>250</td><td></td></tr> <tr><td>CX38 1290</td><td>500</td><td></td></tr> <tr><td>CX40 1330</td><td>500</td><td></td></tr> <tr><td>CX42 1370</td><td>1000</td><td></td></tr> <tr><td>CX44 1410</td><td>200</td><td></td></tr> <tr><td>CX46 1450</td><td>1500</td><td></td></tr> <tr><td>CX48 1490</td><td>1500</td><td></td></tr> </table>	Medellin			HJ4ABK 1230	300		ECUADOR			Guyaquil			HC2ET 1153	300		HC2JB 1250	30		PARAGUAY			Asuncion			ZP1 1135	1000		ZP3 1000	300		ZP4 1275	150		ZP5 1465	150		ZP7 1083	700		ZP9 898	1500		Villarrica			ZP15 700		PERU			Arequipa			OA6D 1400	150		OA6E 1350	30		OA6U 1443	50		Lima			OAX4A 750	1500		OAX4B 1200		OAX4C 1300		OAX4E 980	50		OAX4F 1080	50		OA4K 1360	150		OA4O 1277	100		OA4D 1210	25		URUGUAY			Artigas			CW42 1380	20		Canelones			CW47 1480	100		Colonia			CW9 720	120		CW37 1280	25		Durazno			CW25 1040	500		CW45 1440	30		Florida			CW33 1200	75		Melo			CW43 1400	20		Mercedes			CW29 1120	50		Montevideo			CX2 570		CX4 610	1000		CX6 650	10000		CX8 690	1000		CX10 730	1000		CX12 770	1000		CX14 810	5000		CX16 850	1000		CX18 890	750		CX20 930	2000		CX22 970	250		CX24 1010	10000		CX26 1050	2000		CX28 1090	3000		CX30 1130	500		CX32 1170	500		CX34 1210	500		CX36 1250	250		CX38 1290	500		CX40 1330	500		CX42 1370	1000		CX44 1410	200		CX46 1450	1500		CX48 1490	1500		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="3">Paysandu</td></tr> <tr><td>CW35 1240</td><td>250</td><td></td></tr> <tr><td>CW39 1320</td><td>100</td><td></td></tr> <tr><td>CW40 1340</td><td>30</td><td></td></tr> <tr><td>CW44 1420</td><td>100</td><td></td></tr> <tr><td colspan="3">Rocha</td></tr> <tr><td>CW19 920</td><td>50</td><td></td></tr> <tr><td colspan="3">Salto</td></tr> <tr><td>CW23 1000</td><td>250</td><td></td></tr> <tr><td>CW27 1080</td><td>250</td><td></td></tr> <tr><td>CW31 1160</td><td>250</td><td></td></tr> <tr><td>CW32 1180</td><td>250</td><td></td></tr> <tr><td>CW34 1220</td><td>250</td><td></td></tr> <tr><td>CW36 1260</td><td>30</td><td></td></tr> <tr><td>CW38 1300</td><td>30</td><td></td></tr> <tr><td colspan="3">San Jose</td></tr> <tr><td>CW41 1360</td><td>50</td><td></td></tr> <tr><td colspan="3">Tucumẽmbõ</td></tr> <tr><td>CW30 1140</td><td>....</td><td></td></tr> <tr><td>CW46 1460</td><td>30</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">VENEZUELA</td></tr> <tr><td colspan="3">Caracas</td></tr> <tr><td>YV1RC 960</td><td>5000</td><td></td></tr> <tr><td>YV3RC 1200</td><td>3000</td><td></td></tr> <tr><td>YV4RC 750</td><td>100</td><td></td></tr> <tr><td colspan="3">Maracaibo</td></tr> <tr><td>YV5RMO 1300</td><td>150</td><td></td></tr> <tr><td>YV7RMO 1153</td><td>500</td><td></td></tr> <tr><td>YV11RMO 1034</td><td>....</td><td></td></tr> <tr><td colspan="3">Valencia</td></tr> <tr><td>YV6RV 670</td><td>350</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">EUROPE</td></tr> <tr><td colspan="3" style="text-align: center;">AUSTRIA</td></tr> <tr><td colspan="3">Dornbirn</td></tr> <tr><td>..... 1294</td><td>500</td><td></td></tr> <tr><td colspan="3">Graz</td></tr> <tr><td>..... 886</td><td>7000</td><td></td></tr> <tr><td colspan="3">Innsbruck</td></tr> <tr><td>..... 519</td><td>1000</td><td></td></tr> <tr><td colspan="3">Klagenfurt</td></tr> <tr><td>..... 1294</td><td>4200</td><td></td></tr> <tr><td colspan="3">Linz</td></tr> <tr><td>..... 1294</td><td>15000</td><td></td></tr> <tr><td colspan="3">Salzburg</td></tr> <tr><td>..... 1348</td><td>500</td><td></td></tr> <tr><td colspan="3">Vienna</td></tr> <tr><td>..... 592</td><td>120000</td><td></td></tr> <tr><td colspan="3">Vorarlberg</td></tr> <tr><td>..... 1294</td><td>2000</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">BELGIUM</td></tr> <tr><td colspan="3">Antwerp</td></tr> <tr><td>ON4EB 1465</td><td>100</td><td></td></tr> <tr><td colspan="3">Binche</td></tr> <tr><td>..... 1492</td><td>100</td><td></td></tr> <tr><td colspan="3">Brussels</td></tr> <tr><td>No. 1 620</td><td>15000</td><td></td></tr> <tr><td>No. 2 932</td><td>15000</td><td></td></tr> <tr><td colspan="3">Chatelineau</td></tr> <tr><td>ON4CE 1492</td><td>100</td><td></td></tr> <tr><td colspan="3">Courtrai</td></tr> <tr><td>..... 1465</td><td>100</td><td></td></tr> <tr><td colspan="3">Liege</td></tr> <tr><td>ON4RW 1500</td><td>100</td><td></td></tr> <tr><td colspan="3">Radio Comte</td></tr> <tr><td>..... 1500</td><td>100</td><td></td></tr> <tr><td colspan="3">Seraing</td></tr> <tr><td>..... 1500</td><td>100</td><td></td></tr> <tr><td colspan="3">Verviers</td></tr> <tr><td>No. 1 1500</td><td>100</td><td></td></tr> <tr><td>No. 2 1500</td><td>100</td><td></td></tr> <tr><td colspan="3">Wallonia</td></tr> <tr><td>No. 1 1492</td><td>100</td><td></td></tr> <tr><td>No. 2 1500</td><td>100</td><td></td></tr> </table>	Paysandu			CW35 1240	250		CW39 1320	100		CW40 1340	30		CW44 1420	100		Rocha			CW19 920	50		Salto			CW23 1000	250		CW27 1080	250		CW31 1160	250		CW32 1180	250		CW34 1220	250		CW36 1260	30		CW38 1300	30		San Jose			CW41 1360	50		Tucumẽmbõ			CW30 1140		CW46 1460	30		VENEZUELA			Caracas			YV1RC 960	5000		YV3RC 1200	3000		YV4RC 750	100		Maracaibo			YV5RMO 1300	150		YV7RMO 1153	500		YV11RMO 1034		Valencia			YV6RV 670	350		EUROPE			AUSTRIA			Dornbirn		 1294	500		Graz		 886	7000		Innsbruck		 519	1000		Klagenfurt		 1294	4200		Linz		 1294	15000		Salzburg		 1348	500		Vienna		 592	120000		Vorarlberg		 1294	2000		BELGIUM			Antwerp			ON4EB 1465	100		Binche		 1492	100		Brussels			No. 1 620	15000		No. 2 932	15000		Chatelineau			ON4CE 1492	100		Courtrai		 1465	100		Liege			ON4RW 1500	100		Radio Comte		 1500	100		Seraing		 1500	100		Verviers			No. 1 1500	100		No. 2 1500	100		Wallonia			No. 1 1492	100		No. 2 1500	100		<table border="1" style="width: 100%; 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FOREIGN B. C. STATIONS BY LOCATIONS

London			Bodo			SWEDEN			Kiev		
LN	1149	20000	LKD	686	500	Falun			RW9	722	36000
LR	877	50000	Fredrikstad			Sci	1086	2000	Krasnodar		
Manchester			LKF	776	700	Goteborg			RW33	1050	1000
NN	1149	20000	Hamar			SBB	941	10000	Kouibychew		
NR	668	50000	LKH	519	700	Horby			RW16	710	10000
Newcastle			Kristianssand			SBH	1131	10000	Leningrad		
.....	1122	1000	LKK	1276	500	SK	1530	200	RW70	1040	10000
Plymouth			Narvik			SK	1312	250	Magnitogorsk		
.....	1474	300	Notodden			Malmö			.....	571	10000
HOLLAND			LKN	1357	150	SCK	1312	250	Makhatsh		
Hilversum			Porsgrund			SBC	1312	1250	Minsk	689	4000
PFBI	995	60000	Rjukan			Motala			RW10	1438	100000
HUNGARY			LKR	1348	150	.....	1389	15000	RW39	832	100000
Budapest			Stavanger			Norrköping			Mourmanskt		
HAL	546	120000	LKS	1276	500	SCO	1312	250	RW79	610	10000
Magyarovar			Tromsø			Stockholm			Naitchik		
HAE-2	1321	1250	LKM	1186	100	SBA	704	55000	RW51	794	1000
Miskolc			Trondelag			Sundsvall			Odesa		
HAE-3	1438	1250	LKT	629	20000	SBD	601	10000	RW13	968	10000
Nyiregyhaza			POLAND			Trollhattan			RW69	968	10000
HAE	1122	6200	.....			SCQ	1312	250	RW22	617	10000
Pecs			Cracow			Swedish Common			Dukhta		
HAE-4	1465	1250	.....	1022	2000	Wave 1402. See Index			RW67	968	2000
IRISH FREE STATE			Katowice			by Calls.			Dust-Abakansk		
Athlone			.....	758	12000	SWITZERLAND			RW50	617	2500
.....	565	60000	.....	1339	1700	Basle			RW84	635	1200
Cork			Lwow			.....	1375	500	Penza	640	1200
6CK	1240	1000	.....	795	16000	Berne			RW56	640	1200
Dublin			Poznan			.....	1375	500	Petropavlovsk		
2RN	1348	500	.....	868	16000	Beremunster			RW71	689	1200
ITALY			Torun			.....	556	100000	Petrozavodsk		
Bari			Warsaw			Monte Ceneri			RW29	648	10000
IIBA	1059	20000	No. 2	1384	2000	.....	1167	15000	Pratigorsk		
Bolzano			Wilno			Sottens			RW18	610	1000
IIBZ	536	1000	.....	536	16000	.....	677	25000	Saransk		
Firenze			PORTUGAL			U. S. S. R.			RW65	734	1000
IIFI	610	20000	Lisbon			Alexandrovs			RW73	859	10000
Genoa			CTIAA	629	20000	RW38	662	2000	Stalingrad		
IIGE	986	10000	Parede			Archangel			RW34	522	10000
Milan			CTIGL	1031	5000	RW36	586	10000	Stalino		
IIMI	814	50000	ROUMANIA			Astrakhan			RW26	776	10000
No. 2	1348	4000	Bucharest			RW35	598	10000	Syktyvkar		
Naples			.....	823	12000	Dnepropetrovsk			RW41	563	1200
IINA	1104	1500	SPAIN			RW30	913	10000	Tcheboksary		
Palermo			Aicaia			Elista			RW74	680	1200
IIPA	565	4000	.....	1500	200	RW48	704	2500	Tchellabinsk		
Rome			Barcelona			Engels			RW68	824	1500
IIRO	713	50000	EAJ1	795	7500	RW55	932	1000	Tchernigv		
No. 3	1258	1000	EAJ15	1022	3000	Frounze			RW86	1013	5000
Trieste			Madrid			RW82	608	2500	Tchita		
IITR	1222	10000	EAJ2	731	3000	Gomel			RW52	546	20000
Turin			EAJ7	1095	10000	RW40	959	1000	Tiraspol		
IITO	1140	7000	Oviedo			RW54	959	1000	RW57	1068	4000
No. 2	1357	200	EAJ19	1022	700	Gorki			Vinnitza		
LATVIA			San Sebastian			RW42	565	10000	RW75	1095	10000
Kuldiga			EAJ8	1258	1000	Groznyl			Urdjonikidze		
.....	1258	10000	Seville			RW23	676	1000	RW64	752	10000
Madona			EAJ5	731	5500	Igarka			Vladivostok		
.....	1104	50000	Valencia			RW85	871	2000	RW28	635	300
Riga			EAJ3	850	3000	Ijevsk			RW32	635	10000
YLZ	583	15000	ASIA			RW78	767	3000	YUGOSLAVIA		
NORWAY			Spain has many stations of 100 watts or less on 1492 and 1500 kcs. For complete list see Index by Calls.			Iochar-Ola			Belgrade		
Aalesund						RW61	888	1000	.....	686	2500
LKA	850	350				Ivanovo			Ljubijana		
Bergen						RW31	625	10000	.....	527	5000
LKB	850	1008				Karaganda			Zagreb		
						RW46	686.5	1200	.....	1086	700
						Kazan			ASIA		
						RW17	686	10000	CEYLON		
						Kharkov			Colombo		
						RW20	1185	10000	VPB	705	1750

FOREIGN B. C. STATIONS BY LOCATIONS

CHINA				Tainan		JAVA	
Canton		XHHT 1500	100	JFBK 720	1000	Tandjongpriok	
XGOK 750	1000	XHHU 1160	100			YDAS 1510	500
XKRI 1071	100	XHHV 880	100	INDIA		KOREA	
Chang-Chow		XHHX 920	1000	Bombay		Fuzan	
XGDZ 1470	10	XHHY 1240	100	VUB 855	3000	JBAK 1020	500
XLXK 1330	75	XHHZ 1180	150	Calcutta		Seoul	
Chang-sha		XLHB 560	45	VUC 810	3000	JODK-1 900	10000
XGOH 570	1000	XLHC 720	50	Delhi		JODK-2 610	10000
XGTM 840	15	XLHD 720	50	VUG 933	1000	MANCHUOKUO	
Chuching		XLHE 1380	50	Lahore		Dalren	
XGCK 990	7.5	XLHF 1380	50	VUL 1200	100	JOAK 652	500
Chunking		XLHI 760	7.5	Madras		Harbin	
XGOS 711	1000	XLHJ 760	15	VUM 770	200	MTFY 675	3000
Foo-chow		XLHK 800	7.5	INDO-CHINA		MTCY 560	100000
XGOF 1030	1000	XLHL 800	100	Salgon		Mukden	
Hangchow		XLHM 1120	50	F31CD 840	12000	MTBY 890	1000
XGOD 990	1000	XLHN 1120	200	JAPAN		PHILIPPINES	
XHHA 1370	50	XLHO 1400	100	Akita		Manila	
..... 850	50	XLHQ 1440	30	JOUK 645	300	KZEG 780	1000
..... 1230	50	XMHA 600	600	Asahigawa		KZIB 900	1000
Hangkow		XMHB 980	500	JOCC 655	300	KZRM 618.5	50000
XGOW 1010	5000	XMHC 700	500	Fukui		SIAM	
Hanlim		XQHA 580	250	JOFG 990	300	Bangkok	
XLIM 910	50	XQHB 850	100	Fukuoka		HSP-1 856	2500
Honan-fu		XQHC 1300	1000	JOLK 680	500	HS7PJ 750	10000
XGOX 1070	200	XQHD 1360	200	Hakodate		..... 1200	.....
Hongkong		XQHE 1460	250	JOVK 680	500	AFRICA	
ZBW 845	2000	XQHF 1480	200	Hamamatsu		ALGERIA	
ZEK 620	250	..... 640	1000	JODG 635	500	Algiers	
Kiangyin		Shuhing		Hiroshima		..... 941	12000
XGSA 1335	10	..... 1090	....	JOFK 850	10000	EGYPT	
Kashing		Siangyang		Kanazawa		Alexandria	
XGKA 895	15	MABS 1250	35	JOJK 710	3000	..... 1122	250
XGML 714.3	7.5	Suchow		Kochi		..... 1429	500
XLKS 1490	20	XLIB 1450	15	JORK 720	500	Cairo	
Kongsu		XLIL 870	20	Kokura		..... 620	20000
XGOZ 1150	100	..... 1110	10	JOSK 735	1000	..... 1348	500
Loyang		Taiyuan		Kumamoto		KENYA	
XGOB 1090	250	XGOT 1000	50	JOJK 790	10000	Nairobi	
Nan-chang		Tengchow		Kyoto		VQ7LO 858	600
XGOC 1130	500	XGOW 1150	50	JOOK 960	300	MOROCCO	
Nanking		XTGM 900	100	Maebashi		Casablanca	
XGOA 660	75000	Tientsin		JOBB 970	500	CNO 983	25
XGON 900	200	XLKB 825	55	Matsuye		Rabat	
Nanning		XHKA 1050	100	JOJK 625	500	CNR 601	25000
XGOE 1300	1000	..... 750	150	Nagano		SOUTH RHODESIA	
Ningpo		..... 1280	100	JONK 940	500	Salisbury	
XLIA 1320	15	Tsangchow		Nagasaki		..... 618.8	1500
Peiping		XKYY 1150	15	JOAG 930	500	TUNISIA	
XGOP 950	280	Tsinan		Nagoya		Tunis	
XGOT 1220	500	XGF 833	7.5	JOCK-1 810	10000	TUA 1275	500
XLKA 1194	30	XGOF 852	500	JOCK-2 1175	10000		
XOMO 1450	100	XOCL 1500	7.5	Niigata			
..... 810	100	Tsunshi		JOJK 920	500		
Pinghu		XGSS 610	15	Okayama			
XLPH 1210	15	T'ung Hsien		JOJK 700	500		
Peatung		LUHO 750	20	Osaka			
XGMK 1005	15	Wuchow		JOBK-1 750	10000		
Shanghai		XHGS 730	50	JOBK-2 1085	10000		
FFZ 1400	250	Wu-hu		Sapporo			
XHHA 840	150	XDYF 1270	15	JOJK 830	10000		
XHHB 740	100	XGWH 830	30	Sendai			
XHHC 780	50	Wusih		JOHK 770	10000		
XHHD 860	50	XHIB 970	75	Shizuoka			
XHHE 940	1000	XLIE 1250	50	JOJK 780	500		
XHHE 960	100	XLIF 1170	30	Tokushima			
XHHG 1020	100	XLIJ 1310	50	JOJK 980	500		
XHHH 1040	100	XLIN 1390	50	Tokyo			
XHHI 1060	100	XLTC 1210	15	JOAK-1 870	10000		
XHHJ 1080	200	XLWU 1250	50	JOAK-2 590	10000		
XHHK 1420	100	Yunan-fu					
XHHL 1140	100	XGOY 698	250				
XHHN 1200	100	FORMOSA					
XHHP 1260	100	Taichu					
XHHQ 1280	80	JFCK 580	1000				
XHHR 1340	50	Taihoku					
XHHS 1100	100	JFAK 670	10000				

FOREIGN B. C. STATIONS BY LOCATIONS

UNION S. AFRICA				Corowa												
Bloemfontaine				2CO	670	1000	3UZ	930	650	Wagga	1150	200				
ZTB	790	500		Crystal Brook			3XY	1420	600	Warwick						
Cape Town				5CK	640	7500	3YB	1060	25	4WK	900	50				
ZTC	600	10000		5PI	1040	2000	Mildura			Wollongong						
Durban				Cummock			3MA	900	50	2WL	1430	50				
ZTD	750	1500		2CR	550	10000	Minding			NEW ZEALAND						
Grahamstown				Denilquin			6WA	560	10000	Auckland						
ZUG	560	10000		2QN	1440	....	Murray Bridge			1YA	650	10000				
Johannesburg				Geelong			5MU	1450	100	1YX	880	150				
ZTJ	645	10000		3GL	1350	50	Narrabri			1ZB	1090	100				
Maritzburg				Goulburn			2NZ	1170	2000	Balclutha						
.....	750	10000		2GN	1390	100	Newcastle			4ZR	1340	4				
Pretoria				Grafton			2HD	1140	500	Christchurch						
ZTP	952	500		2GF	1210	50	2KO	1410	500	3YA	720	10000				
OCEANIA				Gunnedah			2NC	1230	2000	3YL	1200	500				
AUSTRALIA				2MO	1360	50	Northam			3ZM	1470	60				
				Gympie			6AM	980	1000	Cromwell						
				4GY	1430	50	Oakey			4ZC	1280	7				
				Hamilton			4AK	1220	1000	Dunedin						
				3HA	1010	300	Orange			4YA	790	500				
				Hobart			2GZ	990	2000	4YO	1140	150				
				7HO	820	100	Perth			4ZB	1010	25				
				7ZL	590	1000	6IX	1240	500	4ZL	1220	100				
				Horsham			6ML	1130	500	4ZM	1010	30				
				3HS	1370	50	6PR	880	500	4ZO	1010	25				
				3WV	580	10000	6WF	690	3500	Gisborne						
				Invernell			Port Moresby			2ZJ	980	60				
				2LV	980	....	4PM	1360	100	2ZM	1150	15				
				Ipswich			Renmark			3ZR	940	400				
				4IP	1440	50	5RM	850	1000	Hastings						
				Kalgoorlie			Rockhampton			2ZL	1240	50				
				6GF	720	2000	4RK	910	2000	Invercargill						
				6KG	1210	85	4RO	1330	50	4ZP	620	500				
				Katoomba			Sale			Manurewa						
				2KB	1160	100	3TR	1240	500	1ZM	1260	50				
				Kelso			Shepparton			Masterton						
				7NT	750	7000	3WR	1260	50	2ZD	1170	5				
				Launceston			Swan Hill			Napier						
				7LA	1100	300	3SH	1080	50	2ZK	820	65				
				Lawrence			Sydney			Nelson						
				2NR	700	7000	2BL	740	3000	2ZR	920	15				
				Lismore			2CH	1190	1000	New Plymouth						
				2XN	1340	50	2FC	610	3000	2YB	760	100				
				Longford			2GB	870	1000	Palmerston N.						
				3GI	830	7000	2KY	1020	1000	2ZF	960	250				
				Mackay			2SM	1270	1000	2ZO	1400	100				
				4MK	1160	100	2UE	950	1000	Wairoa						
				Maryborough			2UW	1110	1000	2ZP	900	105				
				4MB	1060	50	Tamworth			Wellington						
				Melbourne			2TM	1300	50	2YA	570	5000				
				3AK	1500	200	Teewoomba			2YC	840	200				
				3AR	630	4500	4GR	1000	500							
				3AW	1280	600	Townsville									
				3DB	1030	600	4TO	1170	200							
				3KZ	1180	600	Uiverstone									
				3LO	770	3500	U7V	1460	300							

FOREIGN B. C. STATIONS BY CALLS

CE58	585	CE104	1040	CE131	1315	CW19	920	CW44	1420	CX32	1170	EAJ11	1500
CE62	625	CE105	1050	CE133	1335	CW23	1000	CW45	1440	CX34	1210	EAJ12	1492
CE66	665	CE106	1065	CE134	1345	CW25	1040	CW46	1460	CX36	1250	EAJ13	1492
CE70	705	CE108	1085	CE135	1355	CW27	1080	CW47	1480	CX38	1290	EAJ14	1500
CE73	730	CE109	1090	CE138	1385	CW29	1120	CX2	570	CX40	1330	EAJ15	1022
CE76	765	CE110	1105	CE139	1390	CW30	1140	CX4	610	CX42	1370	EAJ16	1492
CE78	785	CE111	1115	CE141	1410	CW31	1160	CX6	650	CX44	1410	EAJ17	1492
CE81	810	CE112	1120	CE142	1425	CW32	1180	CX8	690	CX46	1450	EAJ19	1022
CE82	825	CE114	1145	CE143	1430	CW33	1200	CX10	730	CX48	1490	EAJ20	1492
CE86	865	CE115	1155	CE145	1450	CW34	1220	CX12	770	EAJ1	795	EAJ21	1492
CE87	875	CE117	1170	CE146	1460	CW35	1240	CX14	810	EAJ2	731	EAJ23	1492
CE88	885	CE118	1185	CNO	983	CW36	1260	CX16	850	EAJ3	850	EAJ24	1492
CE90	905	CE119	1190	CNR	601	CW37	1280	CX18	890	EAJ4	1492	EAJ25	1502
CE94	945	CE120	1205	COA	1175	CW38	1300	CX20	930	EAJ5	731	EAJ26	1492
CE98	985	CE122	1225	CPX	1300	CW39	1320	CX22	970	EAJ6	1492	EAJ27	1502
CE100	1005	CE124	1245	CP4	1040	CW40	1340	CX24	1010	EAJ7	1095	EAJ29	1500
CE101	1010	CE125	1250	CT1AA	629	CW41	1360	CX26	1050	EAJ8	1258	EAJ30	1500
CE102	1025	CE126	1265	CT1GL	1031	CW42	1380	CX28	1090	EAJ9	1492	EAJ31	1492
CE103	1035	CE128	1285	CW9	720	CW43	1400	CX30	1130	EAJ10	1492	EAJ32	1500

530 kilocycles (565.7)

CJKL ak 1000 Kirkland Lake, Ont. E-.....

540 kilocycles (555.2)

CJRM ak 1000 F Moose Jaw, Sask. M-7:30-23:00*

550 kilocycles (545.1)

CFNB ak 500	F (1)	Fredericton, N. B.	A-8:10-10:30*
KFUO ae 500	2 (1)	St. Louis, Mo.	C-7-8; 9:30-9:45; 12:15-12:45; 3-3:45*
KFYR ae 1000	N (5)	Bismarck, N. D.	C-7:00-24:00*
KOAC ak 1000	....	Corvallis, Ore.	P-9:00-21:00*
KSD ak 1000	2R	St. Louis, Mo.	C-8-9:15; 9:30-12:15; 12:45-15; 15:45-21; 22-1*
KTSA ak 1000	C (5)	San Antonio, Texas	C-6:30-24*
WDEV ae 500	D	Waterbury, Vt.	E-7:00-17:00*
WGR ck 1000	C	Buffalo, N. Y.	E-7:00-1:00*
WKRC ak 1000	C	Cincinnati, Ohio	E-7:00-1:00*
WSVA ak 500	D	Harrisonburg, Va.	E-7:00-ss*

560 kilocycles (535.4)

KFDM ak 500	(1)	Beaumont, Texas	C-7:15-14:00; 16:00-22:00*
KLZ ae 1000	C	Denver, Colo.	M-6:30-24:00*
KSFO ak 1000	....	San Francisco, Calif.	P-7:30-1:00*
KWTO ak 5000	D	Springfield, Mo.	C-6:00-17:45*
WFIL ak 1000	B	Philadelphia, Pa.	E-7:00-1:00*
WIND ak 1000	(5)	Gary, Ind.	C-7:00-24:00*
WNOX ak 1000	C (2)	Knoxville, Tenn.	C-6:45-23:30*
WQAM ae 1000	C	Miami, Fla.	E-7:00-24:00*
XEAO ak 250	(.15)	Mexicali, L. C.	P-8:00-22:00*
XEFC ak 100	....	Merida, Yuc.	C-.....

570 kilocycles (526.0)

KGKO ak 250	C (1)	Wichita Falls, Tex.	C-7:30-23:30*
KMTR ak 1000	....	Hollywood, Calif.	P-6:45-23:30*
KVI ak 1000	C	Tacoma, Wash.	P-6:00-24:00*
WKBN ae 500	1C	Youngstown, Ohio	E-7:30-9; 11-13; 15-20*
WMCA ak 500	....	New York, N. Y.	P-7:00-1:00
WNAX ak 1000	C (5)	Yankton, S. D.	C-6:00-24:00*
WOSU ak 750	1 (1)	Columbus, Ohio	E-9-11; 13-16
WSYR ak 250	BX	Syracuse, N. Y.	E-7:00-1:00*
WWNC ak 1000	N	Asheville, N. C.	E-7:30-1:00*

580 kilocycles (516.9)

CFPR z 50	....	Prince Rupert, B. C.	P-.....
CHRC ak 100	F	Quebec, Que.	E-8:30-14:00; 16:30-23:00*
CKCL ae 100	F	Toronto, Ont.	E-8:00-23:30*
CKUA ak 500	....	Edmonton, Alta.	M-13:00-15:15; 19-21*
KMJ ak 1000	C	Fresno, Calif.	P-7:00-24*
KSAC ak 500	2 (1)	Manhattan, Kans.	C-9:30-10:30; 12:30-14; 16:30-17:30
WCHS ak 500	(1)	Charleston, W. Va.	E-7:00-23:00*
WDBO ae 1000	C	Orlando, Fla.	E-7:00-24:00*
WIBW ak 1000	C2 (5)	Topeka, Kans.	C-5:30-9:30; 10:30-12:30; 14-16:30; 17:30-24*
WTAG ae 500	R	Worcester, Mass.	E-7:45-1:00*

590 kilocycles (508.2)

KHQ ak 1000	N (2.5)	Spokane, Wash.	P-6:45-24:00*
WEEI ak 1000	R	Boston, Mass.	E-7:00-1:00*
WKZO ae 1000	D	Kalamazoo, Mich.	E-7:00-18:00*
WOW ae 1000	R (5)	Omaha, Neb.	C-6:30-00:30*
XEPN ak 50000	....	PiedrasNegras, Coah.	C-5:00-8:00; 18:00-24:00*

600 kilocycles (499.7)

CFCF ae 400	FN	Montreal, Que.	E-8:00-24:00*
CJOR ak 500	....	Vancouver, B. C.	P-7:30-23:15*
CMW ak 1000	....	Havana, Cuba	E-.....
CRCW z 500	F (1)	Windsor, Ont.	E-4:30-23:30
FON z 250	609	St. Pierre, Miquelon	L-.....
KFSD ae 1000	N	San Diego, Calif.	P-7:00-24:00*
WCAC ak 500	2	Storrs, Conn.	E-.....

Monday to Friday Time on the Air, B. C. Stations of N. A.

WCAO	ae	500	C (1)	Baltimore, Md.	E—7:00-24:00*
WICC	ae	500	2 C (1)	Bridgeport, Conn.	E—.....
WMT	ak	1000	B (2.5)	Cedar Rapids, Iowa	C—6:00-24:00*
WREC	ak	1000	C (2.5)	Memphis, Tenn.	C—7:00-24:00*

610 kilocycles (491.5)

KFRC	ck	1000	C (5)	San Francisco, Calif.	P—6:00-24:00*
WDAF	ak	1000	R (5)	Kansas City, Mo.	C—6:30-24:00*
WIP	ae	1000	....	Philadelphia, Pa.	E—7:00-1:00*
WJAY	ae	500	D	Cleveland, Ohio	E—6:00-17:15*
XFX	ak	1000	....	Mexico City, D. F.	C—.....

620 kilocycles (483.6)

KGW	ak	1000	N (5)	Portland, Ore.	P—7:00-24:00*
KTAR	ae	1000	N	Phoenix, Ariz.	M—7:00-23:15*
WFLA	ae	1000	Na (5)	Clearwater, Fla.	E—7:00-24:00*
WHJB	ak	250	D	Greensburg, Pa.	E—7:00-17:00*
WLBZ	ak	500	C (1)	Bangor, Maine	E—8:00-24:00*
WSUN	ae	1000	Na (5)	St. Petersburg, Fla.	E—7:30-1:00 T & Th
WTMJ	ae	1000	N (5)	Milwaukee, Wis.	C—6:45-00:30*

630 kilocycles (475.9)

CFCO	ak	100	F	Chatham, Ont.	E—7:30-9:00; 11:00-13:30; 17:00-23:00*
CFCY	ae	1000	F	Char't'w'n, P.E.I.	A—11:45-13:30; 17:30-23:30*
CJGX	ae	500	F	Yorkton, Sask.	C—8:00-14:00; 17:30-22:00
CKOV	ak	100	F	Kelowna, B. C.	P—8:00-22:30*
KFRU	ak	500	1 (1)	Columbia, Mo.	C—6-9; 16-ss; 19-29
KGFX	ak	200	D	Pierre, S. D.	C—9:30-11:00; 12:00-17:15*
WGBF	ak	500	1	Evansville, Ind.	C—7:00-19:00; 20:00-24:00
WMAL	ak	250	B (.5)	Washington, D. C.	E—7:00-1:00*
WOS	ak	500	1D	Jefferson City, Mo.	C—9:00-16:00
WPRO	ak	250	....	Providence, R. I.	E—7:30-24:00*
XEZ	z	500	....	Merida, Yuc.	C—.....

640 kilocycles (468.5)

CMBY	z	150	....	Havana, Cuba	E—.....
KFI	ah	50000	N	Los Angeles, Calif.	P—6:45-24:00*
WAIU	ae	500	....	Columbus, Ohio	E—6:15-17:30*
WOI	ae	5000	D	Ames, Iowa	C—6:45-ss
XEOX	ak	500	....	Saltito, Coah.	C—10:00-14:00; 19:00-22:00

650 kilocycles (461.3)

RDN	z	500	....	San Salvador, E. S.	L—.....
WSM	ae	50000	N	Nashville, Tenn.	C—6:30-24:00*

660 kilocycles (454.3)

CMCX	z	150	....	Havana, Cuba	E—.....
WAAW	ak	500	D	Omaha, Neb.	C—6:00-17:45*
WEAF	ak	50000	R	New York, N. Y.	E—6:45-1:00*

670 kilocycles (447.5)

WMAQ	ak	50000	N	Chicago, Ill.	C—7:00-1:00*
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680 kilocycles (440.9)

CMCQ	z	250	Havana, Cuba	E—.....
KFEO	ak	2500	D	St. Joseph, Mo.	C—6:00-17:00*
KPO	ak	50000	N	San Francisco, Calif.	P—7:00-24:00*
VAS	akn	2000	685	Glace Bay, N. S.	A—23:00-23:10; 00:00-00:10*
VOWR	ck	500	681	St. John's Nfld.	L—11:00-18:30*
WPTF	ae	5000	DnN	Raleigh, N. C.	E—7:00-23:00*

690 kilocycles (434.5)

CFRB	ak	10000	C	Toronto, Ont.	E—8:00-24:00*
CJGJ	aj	100	F	Calgary, Alta.	M—7:30-16:30; 20:00-23:00*
NAA	akn	1000	....	Arlington, Va.	E—10:10-10:15; 11:55-12:00; 15:45-15:50; 21:55-22:05*
XET	ak	500	....	Monterrey, N. L.	C—12:00-21:00*

700 kilocycles (428.3)

WLW ak 50000 N Cincinnati, Ohio E-6:30-2:00*

710 kilocycles (422.3)

KIRO ae 500 Seattle, Wash. P-5:30-ss; 22:00-4:00*
 KMPK ak 500 Beverly Hills, Calif. P-6:00-18:00; 21:00-1:00*
 WOR ak 50000 Newark, N. J. E-6:45-00:30*
 XEN ak 1000 Mexico City, D. F. C-9:00-12:00; 13:00-16:00; 17:00-24:00*

720 kilocycles (416.4)

WGN ak 50000 Chicago, Ill. C-7:00-1:30

730 kilocycles (410.7)

CFPL ak 100 F London, Ont. E-8:15-10:30; 12:00-13:30; 17:00-23:30*
 CJCA ah 1000 F Edmonton, Alta. M-7:30-13:30; 16:30-1:00*
 CKAC ck 5000 C Montreal, Que. E-7:30-1:00*

740 kilocycles (405.2)

KMMJ ae 1000 D Clay Center, Neb. C-5:00-18:00*
 KTRB ak 250 D Modesto, Calif. P-6:00-17:30*
 WHEB ak 250 D Portsmouth, N. H. E-9:00-17:30*
 WSB ah 50000 N Atlanta, Ga. C-6:55-24:00*

750 kilocycles (399.8)

CMCW dk 150 Havana, Cuba E-.....
 KGU aj 2500 N Honolulu, T. H. L-6:30-22:30*
 WJR ak 50000 C Detroit, Mich. E-6:00-1:00*
 XEAM z 7.5 Matamoros, Tams. C-.....

760 kilocycles (394.5)

CMHX ak 500 (.15) Cienfuegos, Cuba E-8:00-22:00*
 KXA ae 250 (.5) Seattle, Wash. P-6:30-ss; 22:00-1:00*
 WBAL ae 10000 BSy Baltimore, Md. E-.....
 WEW ae 1000 D St. Louis, Mo. C-6:00-ss*
 WJZ ak 50000 BSy New York, N. Y. E-8:00-1:00*
 XEOK z 250 Tijuana, L. C. P-.....

770 kilocycles (389.4)

CMBS ak 150 Havana, Cuba E-10:00-12:00; 15:30-18:00*
 KFAB ae 10000 CSy Lincoln, Neb. C-6:00-24:00*
 WBBM ae 50000 CSy Chicago, Ill. C-6:50-2:15*

780 kilocycles (384.4)

CHWK dk 100 F Chilliwack, B. C. P-11:45-22:30*
 CKSO ak 1000 F Sudbury, Ont. L-12:00-14:00; 17:00-23:00*
 CMJK ak 250 Camaguey, Cuba E-11:30-13:30; 18-22
 KEHE ak 500 2 (1) Los Angeles, Calif. P-6:00-10:00; 13:00-17:00; 20:00-4:00* (KTM)
 KELW ak 500 2 Burbank, Calif. P-10:00-13:00; 17:00-20:00; 4:00-6:00*
 KFDY ae 1000 D Brookings, S. D. C-12:30-14:00*
 KFQD ck 250 Anchorage, Alaska L-18:00-24:00*
 KGHL ak 1000 N (2.5) Billings, Mont. M-8:00-23:00*
 WEAN ae 500 C Providence, R. I. E-7:45-1:00*
 WMC ak 1000 N (2.5) Memphis, Tenn. C-6:45-24:00
 WTRAR ae 500 N (1) Norfolk, Va. E-7:00-24:00*
 XEYZ z 10000 Mexico City, D. F. C-10:00-23:00*

790 kilocycles (379.5)

CMOA z 150 Havana, Cuba E-.....
 KGO ak 7500 N San Francisco, Calif. E-7:30-24:00*
 WGY ak 50000 R Schenectady, N. Y. E-6:45-1:00*

800 kilocycles (374.8)

HIX ak 700 Santo Domingo, D.R. L-11:30-13:00; 17:00-18:00*
 WBAP ak 50000 Na Fort Worth, Tex. C-6:00-24:00*

Monday to Friday Time on the Air, B. C. Stations of N. A.

WFAA ak 50000 Na Dallas, Tex. C-6:00-24:00*
 WTBO ak 250 D Cumberland, Md. E-8:45-ss*

810 kilocycles (370.2)

CMCF ak 250 815 Havana, Cuba E-10:30-24*
 CMHW ak 100 Cienfuegos, Cuba E-13:00-14:00; 17:00-21:00*
 WCOC ae 50000 C Minneapolis, Minn. C-6:45-24:00
 WNYC ak 1000 D New York, N. Y. E-8:00-1 hour after ss
 XFC z 350 Aguascalientes, Ags. C-.....

820 kilocycles (365.6)

WHAS aj 50000 C Louisville, Ky. C-7:00-24:00*
 XETW dk 500 Mexico City, D. F. C-12:00-24:00*

830 kilocycles (361.2)

KOA ak 50000 N Denver, Colo. M-7:00-24:00*
 WEEU ak 1000 D Reading, Pa. E-8:00-ss*
 WHDH ae 1000 Dn Boston, Mass. E-7:00-ss in Denver*
 WRUF ae 5000 Dn Gainesville, Fla. E-8:00-18:45*

840 kilocycles (356.9)

CFQC ak 1000 F Saskatoon, Sask. M-8:00-13:30; 17:30-23:00*
 CMQ ak 500 Havana, Cuba E-6:55-1:00*
 CRCT ak 5000 FN Toronto, Ont. E-6:45-24:00*
 VOGY ak 400 St. John's, Nfld. L-10:00-11:30; 13:00-14:30; 18:00-21:00*
 XEP z 500 Mexico City, D. F. C-.....

850 kilocycles (352.7)

KIEV ak 100 D Glendale, Calif. P-6:00-18:00*
 TIEP z 500 San Jose, C. R. C-.....
 WESG ak 1000 C Elmira, N. Y. E-7:30-18:15*
 WWL ae 10000 C New Orleans, La. C-6:00-24:00*
 XEFE z 250 Nuevo Laredo, T. C-.....

860 kilocycles (348.6)

WABC ak 50000 C New York, N. Y. E-7:30-2:00* (WBOQ)
 WHB ak 1000 D Kansas City, Mo. C-6:00-17:00*
 XEMO ak 5000 Tijuana, L. C. P-7:00-1:00*

870 kilocycles (344.6)

WENR ak 50000 Na Chicago, Ill. C-15:00-19:00; 20:30-1:00
 WLS ae 50000 Na Chicago, Ill. C-8:00-15:00; 19:00-20:30; 24-1:00

880 kilocycles (340.7)

CFJC ak 100 F Kamloops, B. C. P-7:30-10:30; 12:00-14:00; 18:00-21:00*
 CMBN z 150 Havana, Cuba E-.....
 CRCO ak 1000 F Ottawa, Ont. E-8:00-9:00; 11:50-14:00; 17:00-24:00*
 KFKA ak 500 2 (1) Greeley, Colo. M-5-7; 9-14; 16:30-19; 20:30-24*
 KLX ae 1000 Oakland, Calif. P-8:00-23:00*
 KPFO ae 500 2 Denver, Colo. M-7:30-9:00; 14:30-16:00; 19:00-20:30*
 WCOG ae 500 (1) Meridian, Miss. C-7:30-14:00; 17:00-22:30*
 WGBI ae 500 1 Scranton, Pa. E-9:30-12:30; 13:30-16:30; 17:30-20:00
 WPHR ak 500 D Petersburg, Va. E-7:30-ss*
 WQAN ae 250 1 Scranton, Pa. E-12:30-13:30; 16:30-17:30*
 WSUI ae 500 (1) Iowa City, Iowa C-9:00-22:00*

890 kilocycles (336.9)

KARK ak 250 (.5) Little Rock, Ark. C-6:00-22:00*
 KFNK ak 500 2 (1) Shenandoah, Iowa C-5:30-8:00; 11:00-16:00; 18:00-21:00*
 KFPY ak 1000 C Spokane, Wash. P-6:50-24:00*
 KUSD ae 500 2 Vermillion, S. D. C-16:00-17:00; M W & F 21-22
 WBAA ak 1000 D W. Lafayette, Ind. C-11:00-17:00*
 WGST ak 500 C (1) Atlanta, Ga. C-6:00-24:00*
 WILL ak 250 2 (1) Urbana, Ill. C-8:00-11:00; 17:00-18:00
 WJAR ae 500 R Providence, R. I. E-8:00-1:00*
 WMMN ak 500 (1) Fairmont, W. Va. E-7:30-22:00*
 XEW ak 50000 Mexico City, D. F. C-.....

900 kilocycles (333.1)

KGBU	ak	500	...	Ketchikan, Alaska	L-.....
KHJ	ae	1000	C (5)	Los Angeles, Calif.	P-6:00-1:00*
KSEI	ck	250	(.5)	Pocatello, Idaho	M-7:30-23:00*
WBEN	ak	1000	R	Buffalo, N. Y.	E-7:00-24:00
WELI	z	500	D	New Haven, Conn.	E-.....
WFMD	ah	500	DP	Frederick, Md.	E-7:00-ss*
WJAX	aeH	1000	N (5)	Jacksonville, Fla.	E-7:00-1:00*
WKY	ae	1000	N	Oklahoma City, Ok.	C-6:45-24:00
WLBL	ak	2500	D	Stevens Point, Wis.	C-8:00-16:00*
WTAD	ak	500	D	Quincy, Ill.	C-7:00-ss*

910 kilocycles (329.6)

CJAT	ak	250	F	Trail, B. C.	P-7:00-22:30
CRCM	ak	5000	F	Montreal, Que.	E-5:00-23:00
XENT	ak	65000	....	Nuevo Laredo, Tams.	C-19:30-1:30*

920 kilocycles (325.9)

CMX	ae	650	....	Havana, Cuba	E-8:00-1:00*
HHK	ae	1000	....	Port-au-Prince, Haiti	E-.....
KFEL	ak	500	a	Denver, Colo.	M-6:00-1:00*
KOMO	ak	1000	N (5)	Seattle, Wash.	P-7:00-24:00*
KPRC	ak	1000	N (5)	Houston, Texas	C-6:30-24:00*
KVOD	ak	500	a	Denver, Colo.	M-6:00-24:00*
WAAF	ak	1000	D	Chicago, Ill.	C-6:00-16:30*
WBSO	ae	500	D	Babson Park, Mass.	E-8:30-17:00*
WPEN	ak	250	(.5) I	Philadelphia, Pa.	E-7:30-22:00*
WRAX	ak	250	I (.5)	Philadelphia, Pa.	E-7:30-22:00*
WSPA	ae	1000	D	Spartanburg, S. C.	E-6:00-19:30*
WWJ	ak	1000	R (5)	Detroit, Mich.	E-6:15-00:30*
XEAA	ak	200	....	Mexicali, L. C.	P-6:00-22:00*

930 kilocycles (322.4)

CFAC	ak	100	F	Calgary, Alta.	M-7:00-23:00*
CFCH	ak	100	F	North Bay, Ont.	E-12:00-14; 17:30-23:00*
CFCL	ae	100	....	Prescott, Ont.	E-8:00-10:00; 12-14; 17-19:30*
CHNS	ae	1000	F	Halifax, N. S.	A-9:30-12:30; 18:00-24:00
CKPC	ae	100	F	Brantford, Ont.	E-7:00-24:00*
CKPR	ak	100	F	Fort William, Ont.	E-.....
KGBZ	ak	1000	2 (2.5)	York, Neb.	C-7:30-9:30; 11-12:30; 14-15:30; 17-18:30; T W & F 20:30-22:00
KMA	ak	1000	2 (2.M)	Shenandoah, Iowa	C-9:30-11; 12:30-14; 15:30-17; 18:30-20:30*
KROW	ak	500	(1)	Oakland, Calif.	P-6:00-2:00*
TIRH	z	50	....	San Jose, C. R.	C-.....
WBRC	ak	1000	C	Birmingham, Ala.	C-7:00-23:00*
WDBJ	ae	1000	C	Roanoke, Va.	E-7:00-24:00*

940 kilocycles (319.0)

CMBC	dj	500	....	Havana, Cuba	E-9:00-00:30*
KOIN	ak	1000	C (5)	Portland, Ore.	P-6:30-24:00*
VOAS	ak	100	....	St. John's Nfld.	L-11-12:30; 16-17:30; 19:45-21:30*
WAAT	ae	500	D	Jersey City, N. J.	E-6:30-18:00*
WAVE	bk	1000	N	Louisville, Ky.	C-7:00-24:00*
WCSS	ae	1000	R (2.5)	Portland, Maine	E-7:45-24:00*
WDAY	ae	1000	N (5)	Fargo, N. D.	C-7:00-24:00*
WHA	ak	1000	D (5)	Madison, Wis.	C-8:00-16:30*
XEFO	ak	5000	(XF0)	Mexico City, D. F.	C-7:00-24:00*

950 kilocycles (315.6)

GRCS	ak	100	F	Chicoutimi, Que.	E-17:00-23:00*
KFWB	ak	1000	(2.5)	Hollywood, Calif.	P-7:00-23:30*
KHSL	ak	250	D	Chico, Calif.	P-7:00-ss*
KMBC	ae	1000	C (5)	Kansas City, Mo.	C-5:55-24:00*
WRC	ak	500	R (1)	Washington, D. C.	E-7:00-1:00*
YNVA	z	30	....	Managua, Nic.	C-.....

960 kilocycles (312.3)

CKY	ak	15000	F	Winnipeg, Man.	C-8:00-14; 16-24*
CMCD	ak	250	....	Havana, Cuba	E-11:00-24:00*
XEAW	ak	50000	....	Reynosa, Tams.	C-19:00-10:00*

970 kilocycles (309.1)

KJR	ak	5000	N	Seattle, Wash.	E-7:30-24:00*
WCFL	ae	5000	B	Chicago, Ill.	C-7:00-24:00*
WIBG	ak	100	D	Glenside, Pa.	E-6:00-ss*

980 kilocycles (303.9)

KDKA	ae	50000	B	Pittsburgh, Pa.	E-7:00-1:00*
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990 kilocycles (302.8)

WBZ	ak	50000	BSy	Boston, Mass.	E-7:00-1:00*
WBZA	ak	1000	BSy	Springfield, Mass.	E-7:00-1:00*
XEAF	ak	500	....	Nogales, Sonora	M-9:00-13; 18-22*
XEK	ak	100	....	Mexico City, D. F.	C-11:00-16; 18:00-2:00*
XES	dk	250	....	Tampico, Tams.	C-9:30-14:30; 17-22; 1:00-2:30*

1000 kilocycles (299.8)

CMBZ	ak	250	....	Havana, Cuba	E-7:00-24:00*
KFVD	ak	250	Dn	Los Angeles, Calif.	P-6:30-ss; 22-24*
TIGH	z	500	....	San Jose, C. R.	C-.....
WHO	ak	50000	R	Des Moines, Iowa	C-6:30-7:15; 12:45-15:30; 18:30-22:15
XEY	z	10	....	Merida, Yuc.	C-.....

1010 kilocycles (296.9)

CHML	ak	100	F	Hamilton, Ont.	E-8:00-23:00*
CHWC	ak	500	3F	Regina, Sask.	M-7:00-9:00; 10-11; 12-13; 15:30-17:30
GKCD	ak	109	....	Vancouver, B. C.	P-7:30-23:30*
CKCK	ak	500	3F	Regina, Sask.	M-9-10; 11-12; 13:30-15:30; T Th & F 17:30-24
CKCO	ak	100	F	Ottawa, Ont.	E-12-14; 18-23*
CKIC	ak	50	....	Wolfville, N. S.	A-18:00-19:00*
CKWX	ak	100	F	Vancouver, B. C.	P-7:00-19:30; W T F 21-24
CMJA	ak	300	....	Camaguey, Cuba	E-12:00-22:00*
KGGF	ak	1000	2	Coffeyville, Kans.	C-7:00-14; 16:30-19:30
KQW	ak	1000	....	San Jose, Calif.	P-6:30-24:00*
TIGA	z	30	1014	Cartago, C. R.	C-.....
WHN	ae	1000	(5)	New York, N. Y.	E-8:00-1:00*
WIS	ae	500	N (1)	Columbia, S. C.	E-7:30-24:00*
WNAD	ae	1000	2 (1)	Norman, Okla.	C-12:00-16; T W T 19:30-21:30
XEU	ak	250	....	Veracruz, Ver.	C-7:00-8:00; 10-15; 18-23

1020 kilocycles (293.9)

KYW	ak	10000	R	Philadelphia, Pa.	C-8:00-1:00*
XEJ	ak	1000	....	Juarez, Chih.	C-10:00-14:00; 17-23:30*

1030 kilocycles (291.1)

CFCN	ak	10000	....	Calgary, Alta.	M-7:00-23:00; Th to 24
CKLW	ag	5000	....	Windsor, Ont.	E-6:45-1:45*
CMCY	ak	1000	....	Havana, Cuba	E-.....
XEB	ak	10000	....	Mexico City, D. F.	C-9:00-24:00*

1040 kilocycles (288.3)

KRLD	ae	10000	C	Dallas, Texas	C-6:30-23:30
KWJJ	ak	500	....	Portland, Ore.	P-7:00-ss; 21-3:00*
WKAR	ae	1000	D	East Lansing, Mich.	E-12-12:30; 14-17*
WTIC	ah	50000	R	Hartford, Conn.	E-7:00-24:00*

1050 kilocycles (285.5)

CMKD	ak	250	....	Santiago, Cuba	E-7:30-22:30*
CRCK	ak	1000	F	Quebec, Que.	E-16:30-24*
KFBI	ak	5000	Dn	Abilene, Kans.	C-6:45-19:30*
KNX	ak	50000	....	Hollywood, Calif.	P-7:00-24:00*
TIFA	z	75	....	San Jose, C. R.	C-.....

1060 kilocycles (282.8)

CMK	ae	250	....	Havana, Cuba	E-11-13; 19-24*
KTHS	ae	10000	N	Hot Springs, Ark.	C-8-13; 15-17; 20-23*

Monday to Friday Time on the Air, B. C. Stations of N. A.

VOAC	z	40	1065	St. John's, Nfld.	L—.....
WBAL	ak	10000	B	Baltimore, Md.	E—7:00-24:00*
WJAG	ak	1000	D	Norfolk, Neb.	C—7:00-ss*
XEA	ak	500	....	Guadalajara, Jal.	C—8:00-9:30; 12:00-15; 19-23*

1070 kilocycles (280.2)

CMHA	z	50	....	Sagua la Grande, C.	E—.....
KJBS	ak	500	Dn	San Francisco, Calif.	P—22:00-21:00*
WCAZ	ak	100	D	Carthage, Ill.	C—9:30-15:30*
WDZ	ak	100	D	Tuscola, Ill.	C—8:00-16:00*
WTAM	ak	50000	R	Cleveland, Ohio	E—6:30-1:00*

1080 kilocycles (277.6)

WBT	ak	50000	C	Charlotte, N. C.	E—6:45-24:00*
WCBD	ak	5000	1Dny	Waukegan, Ill.	C—7:30-10:30; 13-15; M W F 16:30-17:15
WMBI	ak	5000	1Dn	Chicago, Ill.	C—7:00-7:30; 10:30-13; 15-16:30*
XEMA	z	50	Tampico, Tams.	C—.....

1090 kilocycles (275.1)

KMOX	ak	50000	C	St. Louis, Mo.	C—5:30-24:00*
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1100 kilocycles (272.6)

GRCV	ak	500	F	Vancouver, B. C.	P—5:30-23:00*
KGDM	ak	1000	D	Stockton, Calif.	P—6:00-ss*
KWKH	ae	10000	C	Shreveport, La.	C—.....
WLWL	ae	5000	1	New York, N. Y.	E—6:00-20:00*
WPG	ak	5000	1C	Atlantic City, N. J.	E—8:30-18; 20-00:30*
XEL	z	250	....	Mexico City, D. F.	C—.....

1110 kilocycles (270.1)

CMGO	ak	250	....	Havana, Cuba	E—9:00-24:00*
KS00	ak	2500	Dn	Sioux Falls, S. D.	C—6:30-18:30*
WRVA	ae	5000	N	Richmond, Va.	E—7:00-24:00*
XELO	z	10000	....	Piedras Negras, Co.	C—.....

1120 kilocycles (267.7)

CHLP	ak	100	F	Montreal, Que.	E—8:00-23:00*
CHSJ	ae	500	F (1)	St. John, N. B.	A—6:00-7:45; 17-24*
CKOC	ae	500	F (1)	Hamilton, Ont.	E—8:00-24:00*
CKX	ak	100	F	Brandon, Man.	C—11:30-12:30; 19-23
CMGF	dk	100	....	Matanzas, Cuba	E—15-17; 20-22:30*
CMKM	ak	200	....	Manzanillo, Cuba	E—8:00-11:55; 19-22*
KFIO	ae	100	D	Spokane, Wash.	P—6:00-17:00*
KFSG	ag	500	a (1)	Los Angeles, Calif.	P—6:30-7:15; 19:30-24*
KRKC	aj	500	a (1)	Los Angeles, Calif.	P—7:45-19:30; M W & F to 24
KRSC	ak	100	D	Seattle, Wash.	P—6:00-ss*
WCOP	ak	500	D	Boston, Mass.	E—7:00-ss*
WDEL	ak	250	(5)	Wilmington, Del.	E—9:00-24:00*
WISN	ak	250	(1)	Milwaukee, Wis.	C—7:00-24:00*
WTAW	ae	500	....	College Station, Tex.	C—12:20-12:50; M & F 20-21

1130 kilocycles (265.3)

CMJI	ak	50	....	Ciego de Avila, Cuba	E—.....
KSL	ae	50000	C	Salt Lake City, Utah	M—6:30-24:00*
WJJD	ak	20000	Dn	Chicago, Ill.	C—6:00-18:45*
WOV	ag	1000	D	New York, N. Y.	E—8:00-18:00*

1140 kilocycles (263.0)

CMBG	z	200	....	Havana, Cuba	E—.....
KVOO	ak	25000	1N	Tulsa, Okla.	C—6:00-ss; Th & F 21-1
WAPI	ae	5000	1N	Birmingham, Ala.	C—.....

1150 kilocycles (260.7)

CMJF	z	200	....	Camaguey, Cuba	E—.....
WHAM	ae	50000	B	Rochester, N. Y.	E—7:30-00:30*

Monday to Friday Time on the Air, B. C. Stations of N. A.

XED	ak	2500	1155	Guadalajara, Jal.	C—8:00-9:00; 12:00-24:00*
XEFL	z	500	....	Tijuana, L. C.	P—24 hours daily
XEH	ak	250	....	Monterrey, N. L.	C—9:00-21:00*
XEWZ	ak	100	....	Mexico City, D. F.	C—12:00-1:00*

1160 kilocycles (258.5)

CMHJ	z	100	....	Cienfuegos, Cuba	E—11:00-13:00; 17:00-21:00*
WOWO	ae	10009	1C	Fort Wayne, Ind.	C—7:00-17; 19:30-24
WVVA	ak	5000	1C	Wheeling, W. Va.	E—6:00-20:30; T & T* 23:30-1
XEAS	z	100	....	Saltillo, Coah.	C—10:00-14:00; 18:00-21:00
XEC	z	30	....	Tijuana, L. C.	P—.....

1170 kilocycles (256.3)

CMBD	z	150	....	Havana, Cuba	E—.....
WCAU	ae	50000	C	Philadelphia, Pa.	E—8:00-1:00*

1180 kilocycles (254.1)

CMJO	ak	50	....	Ciego de Avila, Cuba	E—9:00-13; 18-22*
KEX	ak	5000	2N	Portland, Ore.	P—6:30-17:30; 20-24*
KOB	ak	10009	2	Albuquerque, N. M.	M—11:00-21:00*
VE9EK	ak	10	1185	Montmagny, Que.	E—.....
WDGY	ak	1000	Dn (5)	Minneapolis, Minn.	C—6:30-18:30*
WINS	ak	1000	....	New York, N. Y.	E—6:00-19:30*
WMAZ	ak	1000	....	Macon, Ga.	E—7:00-19:30*
XEFA	z	500	....	Mexico City, D. F.	C—.....

1190 kilocycles (252.0)

CMKV	z	50	....	Santiago, Cuba	E—.....
HJ	z	15	1195	Santo Domingo, D.R.	E—.....
VONF	ak	500	1195	St. John's, Nfld.	L—12:00-14:00; 18-20
WATR	ak	100	D	Waterbury, Conn.	E—9:00-17:15*
WOAI	ak	50000	N	San Antonio, Texas	C—6:55-23:30*
WSAZ	ak	1000	....	Huntington, W. Va.	E—7:00-19:15*

1200 kilocycles (249.9)

CHAB	ak	100	F	Moose Jaw, Sask.	M—7:00-22:00*
CKNX	ak	50	....	Wingham, Ont.	E—11-13; 17-21*
CKTB	ae	100	F	St. Catharines, Ont.	E—10-24:00*
CMCJ	ak	350	....	Havana, Cuba	E—.....
KADA	ak	100	D	Ada, Okla.	C—7:00-17:45*
KBTM	ak	100	D	Jonesboro, Ark.	C—8:30-18:30*
KFBJ	ak	100	(.25)	Marshalltown, Iowa	C—6:00-21:00*
KFXD	ae	100	(.25)	Nampa, Idaho	M—7:00-21:00*
KFXJ	ak	100	(.25)	Grand Junction, Col.	M—9:00-21:00*
KGDE	ak	100	(.25)	Fergus Falls, Minn.	C—7:00-21:00*
KGEX	ak	100	....	Sterling, Colo.	M—11:30-13:30*
KGFI	ae	100	....	Los Angeles, Calif.	P—24 hours daily
KGHI	ak	100	(.25)	Little Rock, Ark.	C—8:00-13; 15-22*
KMLB	ak	100	....	Monroe, La.	C—.....
KSUN	ak	100	....	Lowell, Ariz.	M—9:00-17:45*
WVOS	dk	100	....	Bellingham, Wash.	P—6:00-24:00*
KWVG	ak	100	C	Stockton, Calif.	P—7:00-24:00*
WABI	ak	100	....	Bangor, Maine	E—9:00-14; 18-22*
WAIM	ak	100	....	Anderson, S. C.	E—7:30-21:30*
WBBZ	ak	100	....	Ponca City, Okla.	C—6:30-21:45*
WBNO	ak	100	1	New Orleans, La.	C—12-17; 20-23*
WCAT	ak	100	D	Rapid City, S. D.	C—12:30-13:30*
WCAX	ak	100	....	Burlington, Vt.	E—12:00-1:00*
WCLO	ak	100	....	Janesville, Wis.	C—7:00-20:00*
WCPO	ak	100	(.25)	Cincinnati, Ohio	E—7:30-23:00*
WFAM	ak	100	8	South Bend, Ind.	C—6:30-24:00*
WHBC	ak	100	(.25)	Canton, Ohio	E—9:00-21:30*
WHBY	ak	100	(.25)	Green Bay, Wis.	C—7:00-22:00*
WIBX	aej	100	(.3) C	Utica, N. Y.	E—7:00-1:00*
WIL	ak	100	(.25)	St. Louis, Mo.	C—7:00-24:00*
WJBC	ak	100	6	Bloomington, Ill.	C—9:00-12:30; 15-19:30*
WJBL	ak	100	6	Decatur, Ill.	C—6:30-9; 12:30-15; 19:30-24*
WJBW	ak	100	1	New Orleans, La.	C—8:00-12:00; 17-20*
WKBO	ak	100	3 (.25)	Harrisburg, Pa.	E—7:30-11; 15-18; 20-23*
WKJC	ae	100	3 (.25)	Lancaster, Pa.	E—11:00-15; 18-20*
WLVA	ak	100	(.25)	Lynchburg, Va.	E—7:00-14; 17-22*
WMFR	ae	100	PD	High Point, N. C.	E—7:00-ss*
WMPC	ak	100	(.25)	Lapeer, Mich.	E—10-14; 15:30-18; 19-22:30

WNRI	ak	100	(.25) P	Newport, R. I.	E—.....
WRBL	ak	100	....	Columbus, Ga.	C—7:00-21:00*
WWAE	ae	100	8	Hammond, Ind.	C—7:00-8:30; 11-13; 16-24*
.....	z	100	DP	San Diego, Calif.	P—.....

1210 kilocycles (247.8)

CJCS	z	50	....	Stratford, Ont.	E—9:00-13:30; 16:30-22*
CJCU	z	50	....	Aklavik, N. W. T.	P—20:30-21:30*
CKBI	ak	100	F	Prince Albert, Sask.	M—8:00-13:30; 17-23*
CKCH	ak	100	F	Hull, Que.	E—8-9; 10:30-13:15; 17-23:15*
CKMC	ak	50	....	Cobalt, Ont.	E—.....
CMHI	ak	150	....	Santa Clara, Cuba	E—11-12; 20-21*
KASA	ck	100	....	Elk City, Okla.	C—6-8; 9-13:30; 14:30-20*
KDLR	ak	100	....	Devils Lake, N. D.	C—6:30-16; 18-20:30*
KDON	z	100	....	Del Monte, Calif.	P—.....
KRJI	ak	100	....	Klamath Falls, Ore.	P—8:30-21:00*
KFOR	ae	100	(.25) C	Lincoln, Neb.	C—7:00-23:00*
KFPW	ak	100	....	Fort Smith, Ark.	C—6:30-14; 17-21:30*
KFVS	ak	100	6 (.25)	Cape Girardeau, Mo.	C—9:00-12; 16-19:30; T & T 21-24
KFXM	ak	100	9	San Bernardino, Cal	P—9:00-12:45; 18-22*
KGY	ak	100	....	Olympia, Wash.	P—7:00-23:00*
KIUL	ak	100	....	Garden City, Kans	M—6:00-19:30
KPPC	ak	50	9	Pasadena, Calif.	P—.....
KVSO	ak	100	D	Ardmore, Okla.	C—7:00-18:00*
KWEA	z	100	....	Shreveport, La.	C—.....
KWITN	ak	100	....	Watertown, S. D.	C—7:00-21:00*
TGW	ak	10000	....	Guatemala City	C—11-13; 18:30-19:30
WALR	ak	100	....	Zanesville, Ohio	E—.....
WBAX	ae	100	....	Wilkes Barre, Pa.	E—7:30-12; T & T 18-24
WBBL	ak	100	....	Richmond, Va.	E—Wed. at 19:30
WBRB	ak	100	3	Red Bank, N. J.	E—17:00-19:00; Fri. to 24
WCOL	ak	100	....	Columbus, Ohio	E—7:00-23:00*
WCRW	ae	100	4	Chicago, Ill.	C—11-14; 17-19*
WBOQ	ae	100	6 (.25)	Harrisburg, Ill.	C—6-9; 12-16; 19:30-21; M W F to 24
WEDC	ae	100	4	Chicago, Ill.	C—8:30-10; 15:30-17; 0-2*
WFAS	ak	100	3	White Plains, N. Y	E—9-11:30; 15-17; T & T to 24
WGBB	ae	100	3	Freeport, N. Y.	E—19-21; M & W to 24
WGCM	ae	500	....	Gulfport, Miss.	C—8-00-14:00; 16-22:30*
WGNV	ak	100	3	Chester, N. Y.	E—6:45-9; 11:30-15*
WHBF	ak	100	(.25)	Rock Island, Ill.	C—7:30-23:00*
WHBU	ak	100	(.25)	Anderson, Ind.	C—6:30-24:00*
WIBU	ak	100	(.25)	Poyette, Wis.	C—7:00-19:00*
WJBY	ak	100	....	Gadsden, Ala.	C—9:00-21:00*
WWEJ	ae	100	D	Hagerstown, Md.	E—6:30-17:30; T & T to 23
WJIM	z	100	(.25)	Lansing, Mich.	E—.....
WJW	ae	100	(.25)	Akron, Ohio	E—9:00-23:00*
WKOK	ak	100	1	Sunbury, Pa.	E—12:00-18:00; M W F to 24
WMBG	ak	100	C (.25)	Richmond, Va.	E—7:00-24:00*
WMFG	z	100	....	Hibbing, Minn.	C—.....
WMFN	ak	100	....	Clarksdale, Miss.	C—7:00-21:00*
WOCL	ak	50	....	Jamestown, N. Y.	E—10:30-22:30*
WOMT	ak	100	....	Manitowoc, Wis.	C—7:00-21:00*
WPAX	ak	250	D	Thomasville, Ga.	E—7:00-ss*
WSAY	z	100	DP	Rochester, N. Y.	E—.....
WSBC	ae	100	4	Chicago, Ill.	C—6-8:30; 10-11; 14-15:30; 20-22; 23-24*
WSIX	ak	100	Y	Springfield, Tenn.	C—6:00-14:30; 17-20:30*
WSOC	ak	100	N (.25)	Charlotte, N. C.	E—7:00-24:00*
WTAX	ak	100	....	Springfield, Ill.	C—7:00-22:30*
XEE	z	9	....	Durango, Dgo.	C—.....
XEFV	ak	1	....	Juarez, Chih.	M—8:00-15; 17-22*
XEMZ	z	250	....	Tijuana, L. C.	P—.....
XETH	ak	100	....	Puebla, Pue.	C—8:30-11; 13-15; 19-24*

1220 kilocycles (245.8)

CMJE	z	50	....	Camaguey, Cuba	E—.....
KFKU	ae	1000	a (5)	Lawrence, Kas.	C—14:30-15; 18-18:15*
KTW	ak	1000	S2	Seattle, Wash.	P—Silent*
KWSC	ae	1000	2 (5)	Pullman, Wash.	P—6:45-8; 10:30-21:30*
WCAD	ak	500	D	Canton, N. Y.	E—12:30-13:30; 15-16*
WCAE	ak	1600	R (5)	Pittsburgh, Pa.	E—6:45-1:00*
WDAE	ae	1000	C (2.5)	Tampa, Fla.	E—8:00-24:00*
WREN	ak	1000	Ba(5)	Lawrence, Kas.	C—7:00-24:00*
XETF	ak	12	....	Veracruz, Ver.	C—10:00-15:00; 18:30-23:00*

1230 kilocycles (243.8)

CJOC	ak	100	F	Lethbridge, Alta.	M—7:30-23:00
CMCB	ak	150	....	Havana, Cuba	E—10:00-23:00*

Monday to Friday Time on the Air, B. C. Stations of N. A.

KGBX	ak	500	....	Springfield, Mo.	C—7:00-13; 16-23*
KGGM	ak	250	(.5)	Albuquerque, N. M.	M—7:00-14; 16-21*
KYA	ak	1000	N	San Francisco, Calif.	P—8:00-23:00*
WFBB	ae	1000	C	Indianapolis, Ind.	C—6:30-24:00*
WNAC	ak	1000	C (2.5)	Boston, Mass.	E—6:30-1:00*
XEFJ	ak	100	....	Monterrey, N. L.	C—11:00-14; 18-21:30*
YNOP	z	100	....	Managua, Nic.	C—.....

1240 kilocycles (241.8)

CJCB	ak	1000	F	Sydney, N. S.	A—10-14; 17:30-24*
CMHB	z	50	....	Sancti Spiritus, Cuba	E—.....
KCGU	ak	250	1	Mandan, N. D.	M—12:00-17; 18:45-21*
KLPM	ak	250	1	Minot, N. D.	C—7:00-13; 18-19:45; 22-23:30*
KTAT	ak	1000	....	Fort Worth, Texas	C—7:00-24:00*
KTFI	ae	1000	....	Twin Falls, Idaho	M—5:45-00:15*
WKAQ	ae	1000	....	San Juan, P. R.	A—11-13:30; 18-22
WXYZ	ak	1000	B	Detroit, Mich.	E—7:00-1:00*
XEAI	z	100	....	Mexico City, D. F.	C—.....
XEKL	z	500	....	Leon, Guan.	C—10:30-16; 17-23*

1250 kilocycles (239.9)

CMCG	ak	250	1255	Havana, Cuba	A—8:00-24:00*
CMCK	ak	150	....	Santiago, Cuba	E—8:00-14; 16-23*
KFCU	ae	1000	....	Long Beach, Calif.	P—5:30-24:00*
WCAL	ah	1000	2 (2.5)	Northfield, Minn.	C—9:45-10:16; M & W 19-20
WDSU	ak	1000	....	New Orleans, La.	C—7:00-24:00*
WHBI	ak	1000	a (2.5)	Newark, N. J.	E—M 14-17; 20-22
WLB	ak	1000	2	Minneapolis, Minn.	C—13-13:30; 16-17; Th & F 19-20
WNEW	ae	1000	a (2.5)	Newark, N. J.	E—24 hours daily
WTGN	ak	1000	2 (5)	Minneapolis, Minn.	C—6:00-9:43; 10:16-19; 20-24*

1260 kilocycles (238.0)

CERN	ak	100	F	Edmonton, Alta.	M—7:30-21:00
KGVO	ak	1000	....	Missoula, Mont.	M—7:30-22:00*
KOIL	ak	1000	B (2.5)	Council Bluffs, Iowa	C—6:00-1:00*
KPAC	ak	500	D	Port Arthur, Texas	C—6:00-ss*
KRGV	ak	500	....	Weslaco, Texas	C—7:00-21:00*
KUOA	ak	1000	D	Fayetteville, Ark.	C—6:00-10; 12-18*
KVOA	ak	500	....	Tucson, Ariz.	M—6-9; 12-15; 18-21*
WHIO	ae	1000	R	Dayton, Ohio	E—7:30-1:00*
WNBX	ak	1000	....	Springfield, Vt.	E—7:15-13; 14:30-17:45
WTOC	ae	1000	C	Savannah, Ga.	E—7:00-1:00*

1270 kilocycles (236.1)

CMHD	dk	250	....	Caibarien, Cuba	E—20:00-21:00*
HRN	z	100	....	Tegucigalpa, Hond.	C—.....
KGCA	ak	100	2D	Decorah, Iowa	C—8:30-9:45; 10:45-11:30; 12:30-14:30*
KOL	ae	1000	C (2.5)	Seattle, Wash.	P—6:45-24:00*
KVOR	ae	1000	C	Colorado Spgs., Colo.	M—7:00-22:00*
KWLC	ak	100	2D	Decorah, Iowa	C—7:30-8:30; 9:45-10:45; 11:30-12:30; 14:30-15:30*
WASH	ak	500	aN	Grand Rapids, Mich.	E—7:00-24:00*
WFBR	ak	500	R	Baltimore, Md.	E—7:00-24:00*
WJDX	ae	1000	N (2.5)	Jackson, Miss.	C—7:00-23:00*
WOOD	ak	500	aN	Grand Rapids, Mich.	E—7:00-24:00*
XEG	z	200	....	Ensenada, L.C.	P—.....
XFB	ak	250	....	Jalapa, Ver.	C—8:00-9:00; 13-14:30; 20-23:30*
YNLF	z	20	1275	Managua, Nic.	C—.....

1280 kilocycles (234.2)

CMCU	z	150	....	Havana, Cuba	E—12:00-18:00*
KFBB	ae	1000	(2.5)	Great Falls, Mont.	M—8:00-22:00*
WCAM	ae	500	1	Camden, N. J.	E—14-17; M & F to 24
WCAP	ae	500	1	Asbury Park, N. J.	E—10:30-14:00; T W T 20-24
WDDO	ak	1000	C (5)	Chattanooga, Tenn.	C—7:00-23:30*
WIBA	ae	1000	N (5)	Madison, Wis.	C—7:00-24:00*
WORC	ak	500	C	Worcester, Mass.	E—8:00-24:00*
WRR	ak	500	....	Dallas, Texas	C—7:00-23:00*
WTNJ	ak	500	1	Trenton, N. J.	E—8:00-8:30; 13-14; 17-20*
XEMX	z	12	....	Mexico City, D. F.	C—.....

1290 kilocycles (232.4)

KDYL	ak	1000	N	Salt Lake City, Utah	M-6:20-1:00*
KLCN	ak	100	D	Blytheville, Ark.	C-8:00-18:00*
KTRH	ak	1000	C (5)	Houston, Texas	C-6:30-24:00*
WEBC	ae	1000	N (5)	Superior, Wis.	C-7:00-24:00*
WJAS	ak	1000	C (2.5)	Pittsburgh, Pa.	E-7:30-0:30
WNBZ	z	100	D	Saranac Lake, N. Y.	E-.....
WNEL	ak	500	....	San Juan, P. R.	E-7:00-9; 11:14:30

1300 kilocycles (230.6)

HIZ	z	10	....	Santo Domingo, D.R.	E-.....
KALE	ak	500	3C	Portland, Ore.	P-7:00-10:30; 14:30-17; 18-19; 20-23*
KFAC	ak	1000	.....	Los Angeles, Calif.	P-24 hours daily
KFH	ak	1000	C	Wichita, Kans.	C-7:00-24:00*
KFJR	ag	500	3	Portland, Ore.	P-10:30-14:30; 17-18; 19-20; T W & F to 23
WAML	ak	100	....	Laurel, Miss.	C-.....
WBRR	ae	1000	I	Brooklyn, N. Y.	E-6:30-7; 10-12; T W & Th 18-20
WEVD	ak	1000	I	New York, N. Y.	E-7:00-12; 15-21; 22-23; 24-1:00*
WFAB	ae	1000	I	New York, N. Y.	E-9:00-10; 12-15; 21-22; 23-24*
WFBC	ak	1000	(5)	Greenville, S. C.	E-7:30-22:30*
WHAZ	ae	500	I	Troy, N. Y.	E-Mon. 18-24
WIOD	ak	1000	N	Miami, Fla.	E-7:30-24:00*

1310 kilocycles (228.9)

CHCK	ak	50	....	Charlottetown, P.E.I.	A-12:00-13:30; 17:00-21:00*
CJLS	ak	100	....	Yarmouth, N. S.	A-10-13; 17:30-19:30*
KCKV	ak	100	F	Quebec, Que.	E-8:00-14; 17-23*
KCRJ	ak	100	D	Jerome, Ariz.	M-7:30-9:30; 12-13; 16:30-18*
KFPL	dk	100	(.25)	Dublin, Texas	C-6:00-21:30*
KFXR	ak	100	(.25)	Oklahoma City, Ok.	C-6:00-24:00*
KFYO	dk	100	(.25)	Lubbock, Texas	C-7:00-21:15*
KGCX	ak	100	(.25)	Wolf Point, Mont.	M-7:30-9:30; 12-15; 18-19*
KGEZ	aj	100	....	Kallispell, Mont.	M-7:00-21:00*
KGFW	ak	100	....	Kearney, Neb.	C-7:00-13:30; 15:30-21*
KINY	ak	100	....	Juneau, Alaska	L-8:00-14; 16-22:00*
KIT	ak	100	(.25)	Yakima, Wash.	P-7:00-23:00
KIUJ	ak	100	....	Santa Fe, N. Mex.	P-7:00-13:30; 16:30-22*
KMED	ck	100	(.25)	Medford, Ore.	P-8:00-20:00*
KRMD	ak	100	....	Shreveport, La.	C-7:00-21:00*
KROC	z	100	....	Rochester, Minn.	C-.....
KTSM	ak	100	....	El Paso, Texas	M-6:30-22:30*
KVOL	ak	100	....	Lafayette, La.	C-7:00-14; 17-22*
KXRO	ak	100	....	Aberdeen, Wash.	P-7:30-22:00*
WBEO	ae	100	....	Marquette, Mich.	C-9:30-16:30*
WBOW	ak	100	(.25)	Terre Haute, Ind.	C-6:45-14; 16-23*
WBRE	ak	100	....	Wilkes Barre, Pa.	E-8:00-23:30
WCLS	ak	100	....	Joliet, Ill.	C-7:00-20:30; F to 22:30
WCMI	z	100	D	Ashland, Ky.	E-6:30-24:00*
WDAH	ak	100	S	El Paso, Texas	M-Silent*
WEBR	aeh	100	(.25)	Buffalo, N. Y.	E-7:00-24:00*
WEMP	z	100	D	Milwaukee, Wis.	C-.....
WEXL	ak	50	....	Royal Oak, Mich.	E-8:00-4:00*
WFBG	ae	100	3	Altoona, Pa.	E-10:30-16:30; 18:15-22:30; W to 24
WFDF	mk	100	....	Flint, Mich.	E-7:00-24:00*
WGH	aj	100	(.25)	Newport News, Va.	E-7:00-23:00
WHAT	ak	100	4	Philadelphia, Pa.	E-9:00-11:30; 13-16; 17-18:30
WJAC	ae	100	3	Johnstown, Pa.	E-8:00-10:30; 16:30-18:15
WLBC	ak	100	6 (.25)	Muncie, Ind.	C-7:00-18:00; 19:30-23:00*
WLNH	ak	100	....	Laconia, N. H.	E-8:00-23:00*
WMBO	ak	100	....	Auburn, N. Y.	E-8:00-20:00*
WMFF	ak	100	D (.25)	Plattsburg, N. Y.	E-8:00-16:00*
WNBH	ak	100	(.25) C	New Bedford, Mass.	E-7:45-23:30*
WOL	ak	100	....	Washington, D. C.	E-7:00-24:00*
WRAW	ak	100	....	Reading, Pa.	E-7:00-13; 16-22*
WRAL	ak	100	(.25)	Knoxville, Tenn.	C-7:00-24:00*
WSAJ	ae	100	....	Grove City, Pa.	E-T & Th 19:15-20:15
WSGN	ak	100	(.25)	Birmingham, Ala.	C-7:00-21:00*
WSJS	ak	100	C	Winston-Salem, N.C.	E-8:00-24:00*
WTAL	ak	100	P	Tallahassee, Fla.	E-7:00-23:00*
WTEL	ce	100	4	Philadelphia, Pa.	E-7:00-9; 11:30-13; 16-21*
WTJS	ak	100	(.25)	Jackson, Tenn.	C-7:00-13:45; 16-22*
WTRC	ak	100	6 (.25)	Elkhart, Ind.	C-8:00-14; 17:30-19:30*
XEAJ	z	15	....	Oaxaca, Oax.	C-.....
XECW	z	10	....	Mexico City, D. F.	C-.....
XEFW	ak	250	....	Tampico, Tams.	C-9:00-11; 12-14:30; 17-21*
XETB	ak	125	....	Torreón, Coah.	M-11:00-16; 18:30-21*
XEX	ak	125	....	Monterrey, N. L.	C-.....
XFA	z	5	....	Aguascalientes, Ags.	C-.....

1320 kilocycles (227.1)

CMOX	ak	250	....	Havana, Cuba	E-12:00-24:00*
KGHF	ak	500	....	Pueblo, Colo.	M-7:00-22:00*
KGMB	ak	1000	C	Honolulu, T. H.	L-6:00-23:00
KID	ak	250	(5)	Idaho Falls, Idaho	M-9:00-21:00*
KRNT	ak	500	C (1)	Des Moines, Iowa	C-6:00-24:00*
WADC	ak	1000	C (2.5)	Akron, Ohio	E-8:00-24:00*
WORK	ak	1000	....	York, Pa.	E-8:00-17:30*
WSMB	ak	500	N	New Orleans, La.	C-7:00-24:00

1330 kilocycles (225.4)

CMHK	z	250	....	Cruces, Cuba	E-10:00-11:30*
KGB	ag	1000	C (2.5)	San Diego, Calif.	P-7:00-1:00*
KMO	ak	250	....	Tacoma, Wash.	P-6:45-23:00*
KSCJ	aj	1000	1C (2.5)	Sioux City, Iowa	C-7:30-23:00*
WDRG	ae	1000	C (2.5)	Hartford, Conn.	E-8:00-24:00*
WSAI	ak	1000	R (2.5)	Cincinnati, Ohio	E-7:00-24:00*
WTAQ	ae	1000	1	Eau Claire, Wis.	C-7:00-20:00*

1340 kilocycles (223.7)

CMJL	z	100	....	Camaguey, Cuba	E-.....
KGDY	ak	250	D	Huron, S. D.	C-7:00-18:00*
KGIR	ak	1000	N (2.5)	Butte, Mont.	M-8:00-23:00*
KGNO	ak	250	....	Dodge City, Kans.	C-7:00-20:00*
WCOA	ak	500	C	Pensacola, Fla.	C-7:30-23:00*
WFEA	ae	500	C (1)	Manchester, N. H.	E-9:00-23:00*
WSPD	ae	1000	C (2.5)	Toledo, Ohio	E-7:00-1:00*
XFD	z	350	....	Jalapa, Ver.	C-.....

1350 kilocycles (222.1)

CMCA	z	250	....	Havana, Cuba	E-12:00-14:00; 17:00-23:00*
KIDO	ak	1000	(2.5)	Boise, Idaho	M-7:30-22:00*
KWK	ak	1000	B (5)	St. Louis, Mo.	C-6:30-00:30*
WAWZ	ae	500	1 (1)	Zarephath, N. J.	E-6-9; 17-18:30; M & W to 20:30
WBNX	ae	250	1	New York, N. Y.	E-6:00-7:30; 9-13*

1360 kilocycles (220.4)

CMJH	dk	100	....	Ciego de Avila, Cuba	E-8:00-9:30; 10-14; 17-22*
KGRB	ak	250	....	Enid, Okla.	C-7:00-14; 16:30-23*
KGER	ak	1000	....	Long Beach, Calif.	P-7:00-23:00*
WCSC	ak	500	(1)	Charleston, S. C.	E-8:00-15:30; 17-22*
WFBL	ak	1000	C (5)	Syracuse, N. Y.	E-7:00-1:00*
WGES	ae	500	1	Chicago, Ill.	C-7:00-12; 15:30-20*
WQBC	ak	1000	D	Vicksburg, Miss.	C-8:00-10; 12-17:30*
WSBT	ak	500	1	South Bend, Ind.	C-6:30-24:00*

1370 kilocycles (218.8)

CKCW	ak	100	F	Moncton, N. B.	A-8:00-9:30; 12-14; 17-24*
CMGE	ak	50	....	Cardenas, Cuba	L-11:00-14; 18-22:30*
KAST	ak	100	D	Astoria, Ore.	P-7:00-18:30*
KELD	z	100	....	El Dorado, Ark.	C-.....
KERN	ak	100	....	Bakersfield, Calif.	P-7:00-24:00*
KFGO	ak	100	....	Boone, Iowa	C-.....
KFJM	ak	100	(.25)	Grand Forks, N. D.	C-8:00-20:00*
KFJZ	ae	100	....	Fort Worth, Texas	C-7:00-23:00*
KFRO	ak	100	D	Longview, Texas	C-6:00-ss*
KGAR	ae	100	(.25)	Tucson, Ariz.	M-7:00-13; 16-22*
KGFQ	bk	100	....	Oklahoma City, Ok.	C-9:00-11; 14-19; 19:45-22*
KGFL	ak	100	4	Roswell, N. M.	M-7:00-9:30; 12-13; 16-19:30*
KGKL	ak	100	(.25)	San Angelo, Texas	C-8:00-21:30*
KIGA	ak	100	4	Clovis, N. M.	M-7:00-16:30; 19:30-21:30*
KIUP	ak	100	P	Durango, Colo.	M-7:00-23:00*
KLUF	z	100	(.25)	Galveston, Texas	C-.....
KMAC	ak	100	5	San Antonio, Texas	C-7-8:30; 10-11; 12-13:30; 16-18; 19-20; 22-00:30*
KONO	ak	100	5	San Antonio, Texas	C-6-7; 8:30-10; 11-12; 13:30-16; 18-19; 20-22*
KRE	ak	100	(.25)	Berkeley, Calif.	P-24 hours daily
KRKO	ak	50	1	Everett, Wash.	P-7:30-12; 16:30-20*
KSLM	ak	100	....	Salem, Ore.	P-9:00-21:00; T to 23
KUJ	ak	100	....	Walla Walla, Wash.	P-6:30-22:00*
KVL	ak	100	1	Seattle, Wash.	P-12:00-16:30; 19-22*; F to 23:30
KWKC	ak	100	....	Kansas City, Mo.	C-6-9; 12-15; 18-21*

Monday to Friday Time on the Air, B. C. Stations of N. A.

KWYO ak	100	....	Sheridan, Wyo.	M-7:00-24:00*
WABY aj	100	....	Albany, N. Y.	E-7:00-24:00*
WAGF ak	100	....	Dothan, Ala.	C-8:00-17:15*
WBNY z	109	2P (.25)	Buffalo, N. Y.	E-.....
WBTM ak	100	(.25)	Danville, Va.	E-7:00-14; 17-22*
WCBM ae	100	(.25)	Baltimore, Md.	E-.....
WDAS ae	100	(.25)	Philadelphia, Pa.	E-7:30-24:00*
WGL ae	100	C	Fort Wayne, Ind.	C-6:30-9:30; 11:45-13:30; 17-24*
WHBO ak	100	....	Memphis, Tenn.	C-7:55-14; 16-22:30*
WHDF ak	100	(.25)	Calumet, Mich.	E-7:00-9; 11:30-13:30; 17:30-20:30*
WIBM ak	100	(.25)	Jackson, Mich.	E-7:00-00:45*
WJTL ak	100	....	Atlanta, Ga.	C-6:30-24:00*
WLLH ak	100	(.25)	Lowell, Mass.	E-7:30-24:00*
WMBR ak	100	C (.25)	Jacksonville, Fla.	E-7:00-24:00*
WMFD ak	100	D	Wilmington, N. C.	E-7:30-17:45*
WMFO ak	100	D	Decatur, Ala.	E-7:00-17:15*
WOC ak	100	C (.25)	Davenport, Iowa	C-7:00-24:00*
WPAY ak	100	....	Portsmouth, Ohio	E-8:00-11:30; 12-21*
WFFB ak	100	....	Hattiesburg, Miss.	C-7:00-21:00*
WQDM ae	100	D	St. Albans, Vt.	E-.....
WRAC ak	100	(.25)	Williamsport, Pa.	E-7:30-20:00*
WRDO ae	100	....	Augusta, Maine	E-8:00-23:30*
WRJN ak	100	(.25)	Racine, Wis.	C-7:45-22:45*
WSVS ak	50	D2	Buffalo, N. Y.	E-8:30-10:30; 14:00-15:00*
XEFZ ak	100	....	Mexico City, D. F.	C-18:00-1:00*
XEI ak	125	....	Morelia, Mich.	C-14:00-15:30; 21:00-22:00*
XEZZ z	100	....	San Luis Potosi, SLP	C-9:30-15; 17-22*
..... z	100	P	Evansville, Ind.	C-.....
..... z	100	P	Virginia, Minn.	C-.....

1380 kilocycles (217.3)

CMBX ak	150	....	Havana, Cuba	E-.....
KOH ak	500	C	Reno, Nev.	P-8:00-24:00*
KQV ae	500	....	Pittsburgh, Pa.	E-7:00-24:00*
WALA af	500	C (1)	Mobile, Ala.	C-8:00-23:00*
WKBH ae	1000	....	LaCrosse, Wis.	C-7:30-23:00*
WNSB mk	250	D	New Britain, Conn.	E-7:00-17:15*
WSMK ak	200	C	Dayton, Ohio	E-7:00-19:30; 22-1:00*

1390 kilocycles (215.7)

CJRC ak	100	F	Winnipeg, Man.	C-7:30-23:00*
CMJC z	150	....	Camaguey, Cuba	E-.....
HHH ak	15	....	1395 San Ped. de Macoris, DR	E-.....
KLRA ae	1000	C (2.5)	Little Rock, Ark.	C-6:30-2:00*
KOOS ae	250	....	Marshfield, Ore.	P-8:00-20:00*
KOY ae	500	(1)	Phoenix, Ariz.	M-7:00-22:15*
WHK ae	1000	C (2.5)	Cleveland, Ohio	E-7:30-24:00*

1400 kilocycles (214.2)

CMGC z	100	....	Matanzas, Cuba	E-.....
CMKR z	100	....	Santiago, Cuba	E-.....
KLO ak	500	....	Ogden, Utah	M-8:30-21:30*
KTUL ak	500	C (1)	Tulsa, Okla.	C-6:30-24:00*
TGX ak	250	....	Guatemala City, Gt.	C-7:00-10:30; 13-15; 19-23*
WARD ak	500	2	Brooklyn, N. Y.	E-.....
WBBC ae	500	2 (1)	Brooklyn, N. Y.	E-.....
WIRE ak	500	R (1)	Indianapolis, Ind.	C-7:00-24:00*
WLTH ak	500	2	Brooklyn, N. Y.	E-.....
WVFW ak	500	2	Brooklyn, N. Y.	E-.....

1410 kilocycles (212.6)

CHNC ak	500	F (1)	New Carlisle, Que.	A-9:00-10; 12-13; 17:30-23:30*
CKFC ak	50	5	Vancouver, B. C.	P-15-16:30*
CKMO ag	100	5F	Vancouver, B. C.	P-.....
CMCR z	150	....	Havana, Cuba	E-12:00-13; 16-18; 20-21*
KGNC ae	1000	(.25)	Amarillo, Texas	C-.....
WAAB ak	500	C	Boston, Mass.	E-7:30-24:00*
WBCM ae	500	....	Bay City, Mich.	E-8:45-00:45*
WHBL ae	500	4	Sheboygan, Wis.	C-6:00-10:00; 13-16:30; 18-19:30*
WHIS ak	250	(.5)	Bluefield, W. Va.	E-7:00-9; 12-15; 18-20*
WROK ak	500	4	Rockford, Ill.	C-10:00-13:00; 16-18; 20-22:30*
WSFA ak	500	C (1)	Montgomery, Ala.	C-6:30-22:30*

1420 kilocycles (211.1)

CKGB ak	100	....	Timmins, Ont.	E-12-13:30; 17-22:30*
CMGI z	50	....	Matanzas, Cuba	E-.....

Monday to Friday Time on the Air, B. C. Stations of N. A.

KABC	ak	100	(.25)	San Antonio, Texas	C—7:00-23:00*
KABR	ak	100	....	Aberdeen, S. Dak.	C—.....
KALB	z	100	D	Alexandria, La.	C—.....
KBPS	aj	100	4	Portland, Ore.	P—11-12:30; 15-17
KCMC	ak	100	....	Texarkana, Ark.	C—7:00-14; 16-21*
KFIZ	ak	100	....	Fond du Lac, Wis.	C—9-13; 16-21*
KGFF	ak	100	(.25)	Shawnee, Okla.	C—7:30-15; 17-21*
KGGC	ak	100	....	San Francisco, Cal.	P—9:00-13; 16-23*
KGIW	ak	100	1	Alamosa, Colo.	M—7:00-14; 18-21*
KHBC	z	100	....	Hilo, T. H.	L—.....
KIDW	ak	100	1	Lamar, Colo.	M—7:00-12; 15-18*
KIUN	ak	100	....	Pecos, Texas	C—7:00-14; 16-22*
KNET	z	100	DP	Palestine, Texas	C—.....
KORE	ae	100	....	Eugene, Ore.	P—7:45-21:00*
KRLC	ak	100	....	Lewiston, Idaho	P—6:30-22:00*
KRLH	z	100	DP	Midland, Tex.	C—.....
KUMA	ak	100	....	Yuma, Ariz.	M—4:00-9; 11-13:30; 18-22*
KWBG	ak	100	....	Hutchinson, Kans.	C—7:00-19:00*
KXL	ak	100	4 (.25)	Portland, Ore.	P—7:00-11; 12:30-15; 17-1
WACO	ak	100	C	Waco, Texas	C—7:00-23:00*
WAGM	ae	100	....	Presque Isle, Maine	E—11:00-13; 16-19*
WAZL	ak	100	2	Hazleton, Pa.	E—10:30-14:30; 16-22*
WCBS	ak	100	....	Springfield, Ill.	C—7:00-22:00*
WEED	ak	100	3	Rocky Mount, N. C.	E—7:00-16; 20-22*
WEHC	ak	100	3 (.25)	Charlottesville, Va.	E—7:00-13; 16-20*
WEHS	ak	100	a	Cicero, Ill.	C—16-18*
WELL	ak	100	....	Battle Creek, Mich.	E—7:30-24:00*
WGPC	ak	100	....	Albany, Ga.	C—7:00-21:00*
WHDL	ak	100	D	Olean, N. Y.	E—7:00-ss*
WHFC	ae	100	a	Cicero, Ill.	C—7:00-13:30; 18-1:00*
WILM	aj	100	2	Wilmington, Del.	E—7:00-11; 14-17; 21-24*
WJBO	ak	100	P	Baton Rouge, La.	C—6:45-22:00*
WJBR	z	100	P	Gastonia, N. C.	E—.....
WJMS	ak	100	....	Ironwood, Mich.	C—7:30-19:30*
WKBI	ak	100	a	Cicero, Ill.	C—13:30-16:00*
WLAP	ak	100	(.25)	Lexington, Ky.	C—7:00-22:00*
WLBK	ak	100	....	Kansas City, Kans.	C—7:00-22:00; Th to 23
WLEU	ak	100	(.25)	Erie, Pa.	E—8:00-23:00*
WMAS	ak	100	C (.25)	Springfield, Mass.	E—7:30-24:00*
WMCB	ae	100	(.25)	Detroit, Mich.	E—7:30-24:00*
WMBH	ak	100	(.25)	Joplin, Mo.	C—7:00-21:30*
WMFJ	ak	100	....	Daytona Beach, Fla.	E—8:00-24:00*
WNRA	ak	100	....	Sheffield, Ala.	C—7:00-13:00; 16-22*
WPAD	ak	100	(.25)	Paducah, Ky.	C—7:00-9:30; 11:00-14:00; 16-22:30*
WPAR	ak	100	....	Parkersburg, W. Va.	E—8:00-22; T & T to 23
WPRP	z	100	P (.25)	Ponce, P. R.	A—.....
WWC	z	1000	P	Spartanburg, S. C.	E—.....
XEAZ	z	7	....	Guanajuato, Gto.	C—.....
XEFB	ak	100	....	Monterrey, N. L.	C—10:00-14:00-17:00-21; W to 22:30

1430 kilocycles (209.7)

CMJP	ak	100	....	Camaguey, Cuba	E—10:00-12:00; 20:00-22:00*
KECA	ah	1000	(5) N	Los Angeles, Calif.	P—7:00-23:00*
KGNF	ak	1000	D	North Platte, Neb.	C—7:00-ss*
KSO	ak	500	B (1)	Des Moines, Iowa	C—6:30-1:00*
WBNS	ae	500	C (1)	Columbus, Ohio	E—6:30-24:00*
WHCC	ae	500	C (1)	Rochester, N. Y.	E—8:00-24:00*
WHP	ak	500	C (1)	Harrisburg, Pa.	E—8:00-24:00*
WNBR	ae	500	(1)	Memphis, Tenn.	C—7:30-22:15*
WOKO	aj	500	C (1)	Albany, N. Y.	E—8:00-1:00*

1440 kilocycles (208.2)

KDFN	ak	500	....	Casper, Wyo.	M—7:30-13:30; 15:00-21:00*
KLS	ag	250	D	Oakland, Calif.	P—7:00-18:00*
KXYZ	ak	1000	....	Houston, Texas	C—6:00-22:30*
TIPS	z	7.5	(1441)	Cartago, C. R.	C—.....
WBIG	ae	500	C (1)	Greensboro, N. C.	E—7:00-23:00*
WCBA	aj	500	a	Allentown, Pa.	E—7:00-1:00*
WMBD	ak	500	C (1)	Peoria, Ill.	C—6:00-24:00*
WSAN	aj	500	a	Allentown, Pa.	E—13:00-23:00*
XEFI	ae	250	....	Chihuahua, Chih.	C—13:00-16:00; 20-22:30*
HP50	z	25	....	Colon, Panama	C—.....

1450 kilocycles (206.8)

CFCT	ae	75	....	Victoria, B. C.	P—8:00-12:30; 17:30-20:15; 00-2:00*
CHGS	ae	50	F	Summerside, P.E.I.	A—7:30-8:45; 10:30-14; 16-23*

Monday to Friday Time on the Air, B. C. Stations of N. A.

KIEM	ak	500	....	Eureka, Calif.	P-7:30-22:00*
KTBS	ak	1000	N	Shreveport, La.	C-6:30-24:00*
WGAR	ak	500	B (1)	Cleveland, Ohio	E-7:00-24:00
WHOM	ae	250	....	Jersey City, N. J.	E-7:00-24:00*
WSAR	ae	250	....	Fall River, Mass.	E-8:00-15:30; 17-22:15*
WTFI	ak	500	....	Athens, Ga.	E-8:00-20:00*

1460 kilocycles (205.4)

CMKF	z	50	....	Holguin, Cuba	E-.....
KSTP	ak	25000	N	St. Paul, Minn.	C-6:45-00:15*
WJSV	ak	10000	C	Washington, D. C.	E-6:30-1:00*

1470 kilocycles (204.0)

CMOK	z	150	....	Havana, Cuba	E-.....
KGA	ak	5000	N	Spokane, Wash.	P-6:00-24:00*
WLAC	ak	5000	C	Nashville, Tenn.	C-6:30-24:00*

1480 kilocycles (202.6)

KOMA	ak	5000	C	Oklahoma City, Ok.	C-7:00-24:00*
WKBW	ck	5000	C	Buffalo, N. Y.	E-7:00-1:00*

1490 kilocycles (201.2)

KFBK	ak	5000	C	Sacramento, Calif.	P-7:00-24:00*
WCKY	ae	5000	B	Covington, Ky.	E-7:00-24:00

1500 kilocycles (199.9)

CJIC	ak	100	....	Sault Ste. Marie, Ont.	E-11:00-14; 17-20*
CMCN	z	150	....	Havana, Cuba	E-.....
KDB	ak	100	C	Santa Barbara, Calif.	P-7:00-24:00*
KGFI	ak	100	(.25)	Corpus Christi, Tex.	C-7:00-15; 18-22*
KGFK	ak	100	Y	Moorhead, Minn.	C-8:00-21:00*
KGKB	ak	100	....	Tyler, Texas	C-8:00-14:00; 17-23*
KGKY	ak	100	(.25)	Scottsbluff, Neb.	M-7:00-15; 17-21*
KNEL	z	100	DP	Brady, Tex.	C-.....
KNOW	ak	100	....	Austin, Texas	C-7:00-14; 16-22*
KOTN	ak	100	D	Pine Bluff, Ark.	C-7:00-ss*
KPJM	ak	100	....	Prescott, Ariz.	M-8:00-13:30; 17:30-20:00*
KPLC	ak	100	....	Lake Charles, La.	C-7:00-14; 17-21*
KPO	ak	100	(.25)	Wenatchee, Wash.	P-7:00-23:00*
KREG	ak	100	....	Santa Ana, Calif.	P-9:00-23:00*
KRRR	z	100	DP	Roseburg, Ore.	P-.....
KXO	ae	100	....	El Centro, Calif.	P-7:00-14:00; 16:00-21:00*
WCNW	ak	100	1 (.25)	Brooklyn, N. Y.	E-14-18; M & F 20-22; W 22-1
WDNC	ae	100	C	Durham, N. C.	E-7:30-00:30*
WGAL	ae	100	(.25)	Lancaster, Pa.	E-9:00-22:00*
WHBB	z	100	DP	Selma, Ala.	E-.....
WHFF	ak	100	(.25)	Kosciusko, Miss.	C-6:30-21:00*
WJBK	ae	100	(.25)	Detroit, Mich.	E-24 hours daily
WKBB	ak	100	(.25)	E. Dubuque, Ill.	C-7:00-21:00*
WKBV	ak	100	....	Richmond, Ind.	C-10:00-12:00; 18:00-22:00*
WKBZ	ak	100	(.25)	Muskegon, Mich.	E-7:30-22:00*
WKEU	ak	100	....	Griffin, Ga.	C-7:00-17:00*
WMBO	ae	100	1	Brooklyn, N. Y.	E-9:00-11:00; 18-20; T to 24
WMEX	ak	100	(.25)	Boston, Mass.	E-.....
WNBf	ae	100	C	Binghamton, N. Y.	E-7:00-22:00*
WOPI	ae	100	....	Bristol, Tenn.	E-7:00-21:30
WRDW	ak	100	....	Augusta, Ga.	E-8:00-21:00*
WRGA	ak	100	(.25)	Rome, Ga.	C-7:00-10:00; 12-15; 18-21*
WSYB	ak	100	....	Rutland, Vt.	E-10:00-13; 17-21*
WTMV	ak	100	....	East St. Louis, Ill.	C-6:00-22:00; M T W to 23
WVRL	ak	100	1 (.25)	Woodside, N. Y.	E-8-9; 11-12; 18-20; M Th & F to 00:30
WWSW	ae	100	(.25)	Pittsburgh, Pa.	E-8:00-24:00*
.....	z	100	P	Valley City, N. Dak.	C-.....

1510 kilocycles (198.6)

CFRC	ak	100	....	Kingston, Ont.	E-Irregular
CKCR	ak	100	....	Waterloo, Ont.	E-8:00-14:00; 17:00-24:00*

1530 kilocycles (196.0)

W1XBS z 1000	....	Waterbury, Conn.	E—.....
W9XBY ak 1000	....	Kansas City, Mo.	C—7:00-2:00*

1550 kilocycles (193.4)

W2XR z 1000	....	Long Isl. City, N. Y.	E—.....
W6XAI ak 1000	....	Bakersfield, Calif.	P—12:00-23:00*

KEY TO SYMBOLS

**As Shown in the index by
Frequencies and Dial Numbers**

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

- Second Column Symbols**
- a Verifies reception for return postage.
 - b Verifies only occasionally.
 - c Does not verify.
 - d Verification 10c; letter 25c.
 - e Sends Ekko stamp for 10c.
 - f Sends Ekko stamp for 5c.
 - g Sends Ekko stamp for postage.
 - h Sends own station stamp for 10c.
 - i Sends own station stamp for 5c.
 - j Sends own station stamp for postage.

- k Has no stamps.
 - m Verifies for 5c.
 - n Weather or time only.
 - z No information available.
- Fourth Column Symbols**
- B National "Blue" network.
 - C Columbia network.
 - D Day time only.
 - Dn Day time with occasional evening hours.
 - F Canadian Radio Brdctg. Commission.
 - N National "Red" and "Blue"

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

Time on the Air

*Asterisk indicates that the hours are the same for the other week days.

The time is given in accordance with the "24-hour clock." Noon is always 12:00, but midnight may be either 0:00 or 24:00. To change to time of your own clock, subtract twelve. Thus, 18:00-24:00 is 6:00 p. m. to midnight. 23:00-0:30 is 11:00 p. m. to 12:30 a. m. A signifies Atlantic Standard Time (AST). E is Eastern Standard Time (EST). C is Central Standard Time (CST). P is Pacific Standard Time (PST). L is Local Standard Time (LST).

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.

ALABAMA				ARKANSAS				CALIFORNIA			
Birmingham				Blytheville				Bakersfield			
WAPI	1140	5000 N		KLON	1290	100		KERN	1370	100 C	
WBRC	930	1000 C		El Dorado				W6XAI	1550	1000	
WSGN	1310	100		KELD	1370	100		Berkeley			
Decatur				ARIZONA				KRE	1370	100	
WMFO	1370	100		Jerome				Beverly Hills			
Dothan				KCRJ	1310	100		KMPC	710	500	
WAGF	1370	100		Lowell				Burbank			
Gadsden				KSUN	1200	100		KELW	780	500	
WJBY	1210	100		Phoenix				Chico			
Mobile				KOY	1390	500		KHSL	950	250	
WALA	1380	500 C		KTAR	620	1000 N		Del Monte			
Montgomery				Prescott				KDON	1210	100	
WSFA	1410	500 C		KPJM	1500	100		El Centro			
Selma				Tucson				KXO	1500	100	
WHBB	1500	100		KGAR	1370	100		Eureka			
Sheffield				KVOA	1260	500		KIEM	1450	500	
WNRA	1420	100		Yuma				Fresno			
ALASKA				KUMA	1420	100		KMJ	580	1000 C	
Anchorage								Glendale			
KFQD	780	250						KIEV	850	100	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Hollywood		
WKFWB	950	1000
WKMTR	570	1000
WKNX	1050	50000
Long Beach		
WKOX	1250	1000
WKGFR	1360	1000
Los Angeles		
WKECA	1430	1000 N
WKEHE	780	500
WKFAC	1300	1000
WKFI	640	50000 N
WKFSG	1120	500
WKFDV	1000	250
WKFJJ	1200	100
WKHJ	900	1000 C
WKRKD	1120	500
Modesto		
WTRB	740	250
Oakland		
WKL	1440	250
WKLX	880	1000
WKROW	930	1000
Pasadena		
WKPPC	1210	50
Sacramento		
WKFBB	1490	5000 C
San Bernardino		
WKFXX	1210	100
San Diego		
WKFSD	600	1000 N
WKBG	1330	1000 C
.....	1200	100
San Francisco		
WKFR	610	1000 C
WGGC	1420	100
WKG	790	7500 N
WKJBS	1070	500
WKO	680	50000 N
WKSFO	560	1000
WKYA	1230	1000 N
San Jose		
WQW	1010	1000
Santa Ana		
WKREG	1500	100
Santa Barbara		
WKDB	1500	100 C
Stockton		
WKGDM	1100	1000
WKGW	1200	100 C
COLORADO		
Alamosa		
WKGTV	1420	100
Colorado Springs		
WKVOR	1270	1000 C
Denver		
WKFEL	920	500
WKLZ	560	1000 C
WKO	830	50000 N
WPOF	880	500
WKVOD	920	500
Durango		
WKIUP	1370	100
Grand Junction		
WKFJX	1200	100
Greeley		
WKFKA	880	500
Lamar		
WKIDW	1420	100
Pueblo		
WKGHF	1320	500
Sterling		
WKGK	1200	100
CONNECTICUT		
Bridgeport		
WICC	600	500 C

Hartford		
WDR	1330	1000 C
WTRC	1040	50000 R
New Britain		
WNBC	1380	250
New Haven		
WELJ	900	500
Storrs		
WCAC	600	500
Waterbury		
WATR	1190	100
W1XBS	1530	1000
DELAWARE		
Wilmington		
WDEL	1120	250
WILM	1420	100
DISTRICT OF COLUMBIA		
Washington		
WJSV	1460	10000 C
WMAL	630	250 B
WOL	1310	100
WVRC	950	500 R
FLORIDA		
Clearwater		
WFLA	620	1000 N
Daytona Beach		
WMFJ	1420	100
Gainesville		
WRUF	830	5000
Jacksonville		
WJAX	900	1000 N
WMBR	1370	100 C
Miami		
WIOD	1300	1000 N
WQAM	560	1000 C
Orlando		
WDBO	580	1000 C
Pensacola		
WCOA	1340	500 C
St. Petersburg		
WSUN	620	1000 N
Tallahassee		
WTAL	1310	100
Tampa		
WDAE	1220	1000 C
GEORGIA		
Albany		
WGPC	1420	100
Athens		
WTFI	1450	500
Atlanta		
WGST	890	500 C
WJTL	1370	100
WSB	740	50000 N
Augusta		
WRDW	1500	100
Columbus		
WRBL	1200	100
Griffin		
WKEU	1500	100
Macon		
WMAZ	1180	1000
Rome		
WRGA	1500	100
Savannah		
WTOC	1260	1000 C
Thomasville		
WPAX	1210	250

HAWAII		
Hilo		
KHBC	1420	100
Honolulu		
WKM	1320	1000 C
WKG	750	2500 N
IDAHO		
Boise		
WKID	1350	1000
Idaho Falls		
WKID	1320	250
Lewiston		
WKRL	1420	100
Nampa		
WKF	1200	100
Pocatello		
WKSE	900	250
Twin Falls		
WKT	1240	1000
ILLINOIS		
Bloomington		
WJBC	1200	100
Carthage		
WCAZ	1070	100
Chicago		
WAAF	920	1000
WBBM	770	50000 C
WCFL	970	5000 B
WCRW	1210	100
WEDC	1210	100
WENR	870	50000 N
WGES	1360	500
WGN	720	50000
WJJD	1130	20000
WLS	870	50000 N
WMAQ	670	50000 N
WMBI	1080	5000
WSBC	1210	100
Cicero		
WEHS	1420	100
WHFC	1420	100
WKBI	1420	100
Decatur		
WJBL	1200	100
East Dubuque		
WKBB	1500	100
East St. Louis		
WMTV	1500	100
Harrisburg		
WBO	1210	100
Joliet		
WCLS	1310	100
Peoria		
WMBD	1440	500 C
Quincy		
WTAD	900	500
Rockford		
WROK	1410	500
Rock Island		
WHBF	1210	100
Springfield		
WCBS	1420	100
WTAX	1210	100
Tuscola		
WDZ	1070	100
Urbana		
WILL	890	250
Waukegan		
WCBD	1080	5000
INDIANA		
Anderson		
WHBU	1210	100

Elkhart		
WTRC	1310	100
Evansville		
WGBF	630	500
.....	1370	100
Fort Wayne		
WGL	1370	100 C
WOWO	1160	10000 C
Gary		
WIND	560	1000
Hammond		
WWAE	1200	100
Indianapolis		
WFBM	1230	1000 C
WIRE	1400	500 R
Muncie		
WLB	1310	100
Richmond		
WKBV	1500	100
South Bend		
WFAM	1200	100
WSBT	1360	500 C
Terre Haute		
WBOW	1310	100
West Lafayette		
WBAA	890	1000
IOWA		
Ames		
WVI	640	5000
Boone		
WKG	1370	100
Cedar Rapids		
WMT	600	1000 B
Council Bluffs		
WKOIL	1260	1000 B
Davenport		
WOC	1370	100 C
Decorah		
WGG	1270	100
WVLC	1270	100
Des Moines		
WKRN	1320	500 C
WKS	1430	500 B
WHO	1000	50000 R
Iowa City		
WSUI	880	500
Marshalltown		
WKFJB	1200	100
Shenandoah		
WPNF	890	500
WMA	930	1000
Sioux City		
WKSJ	1330	1000 C
KANSAS		
Abilene		
WFB	1050	5000
Coffeyville		
WGGF	1010	1000
Dodge City		
WGN	1340	250
Garden City		
WTUL	1210	100
Hutchinson		
WBG	1420	100
Kansas City		
WLB	1420	100
Lawrence		
WKU	1220	1000
WREN	1220	1000 B
Manhattan		
WSAC	580	500
Topeka		
WBW	580	1000 C
Wichita		
WKF	1300	1000 C

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

KENTUCKY	New Bedford	Kosciusko	NEW HAMPSHIRE
Ashland WCMI 1310 100 Covington WKCY 1490 5000 B Lexington WLAP 1420 100 Louisville WAVE 940 1000 N WHAS 820 5000 C Paducah WPAD 1420 100	WNBH 1310 100 C Springfield WBZA 990 1000 B WMAS 1420 100 C Worcester WORC 1280 500 C WTAG 580 500 R	WHEF 1500 100 Laurel WAML 1310 100 Meridian WCOC 880 500 Vicksburg WQBC 1360 1000	Laconia WLNH 1310 100 Manchester WFEA 1340 500 C Portsmouth WHEB 740 250
LOUISIANA	MICHIGAN	MISSOURI	NEW JERSEY
Alexandria KALB 1420 100 Baton Rouge WJBO 1420 100 Lafayette KVOL 1310 100 Lake Charles KPLC 1500 100 Monroe KMLB 1200 100 New Orleans WBNO 1200 100 WDSU 1250 1000 WJWB 1200 100 WMSB 1320 500 N WWL 850 10000 C Shreveport KRMD 1310 100 KTBS 1450 1000 N KWEA 1210 100 KWKH 1100 10000 C	Battle Creek WELL 1420 100 Bay City WBCM 1410 500 Calumet WHDF 1370 100 Detroit WJBK 1500 100 WJR 750 50000 C WMBBC 1420 100 WWJ 920 1000 R WXYZ 1240 1000 B East Lansing WKAR 1040 1000 Flint WFDF 1310 100 Grand Rapids WASH 1270 500 N WOOD 1270 500 N Ironwood WJMS 1420 100 Jackson WIBM 1370 100 Kalamazoo WKZO 590 1000 Lansing WJIM 1210 100 Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Royal Oak WEXL 1310 50	Cape Girardeau KFVS 1210 100 Columbia KFRR 630 500 Jefferson City WOS 630 500 Joplin WMBH 1420 100 Kansas City KMBC 950 1000 C KWKC 1370 100 WDAF 610 1000 R WHB 860 1000 W9XB 1530 1000 St. Joseph KFEO 680 2500 St. Louis KFVO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 KWTO 560 5000	Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Camden WCAM 1280 500 Jersey City WAAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WNEW 1250 1000 WOR 710 50000 Red Bank WBRB 1210 100 Trenton WTNJ 1280 500 Zarephath WAWZ 1350 500
MAINE	MINNESOTA	MONTANA	NEW MEXICO
Augusta WRDO 1370 100 Bangor WABI 1200 100 WLBZ 620 500 C Portland WCSH 940 1000 R Presque Isle WAGM 1420 100	Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 WLB 1250 1000 WTCN 1250 1000 Moorhead KGFK 1500 100 Northfield WCAL 1250 1000 Rochester KROC 1310 100 St. Paul KSTP 1460 25000 N Virginia 1370 100	Billings KGHL 780 1000 N Butte KGIR 1340 1000 N Great Falls KFBB 1280 1000 Kalispell KGEZ 1310 100 Missoula KGVO 1260 1000 Wolf Point KGCX 1310 100	Albuquerque KGGM 1230 250 KOB 1180 10000 Clovis KICA 1370 100 Roswell KGFL 1370 100 Santa Fe KIUJ 1310 100
MARYLAND	MISSISSIPPI	NEBRASKA	NEW YORK
Baltimore WBAL 1060 10000 B WCAO 600 500 C WCBM 1370 100 WFBR 1270 500 R Cumberland WTBO 800 250 Frederick WFMD 900 500 Hagerstown WJEJ 1210 100	Clarkdale WMFN 1210 100 Gulfport WGCM 1210 100 Hattiesburg WPFB 1370 100 Jackson WJDX 1270 1000 N	Clay Center KMMJ 740 1000 Kearney KGFW 1310 100 Lincoln KFAB 770 10000 C KFOR 1210 100 C Norfolk WJAG 1060 1000 North Platte KGNF 1430 1000 Omaha WAAW 660 500 WOW 590 1000 R Scottsbluff KGKY 1500 100 York KGBZ 930 1000	Albany WABY 1370 100 WOKO 1430 500 C Auburn WMBO 1310 100 Binghamton WNBH 1500 100 Brooklyn WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 WMBO 1500 100 WVFV 1400 500 Buffalo WBEN 900 1000 R WEBR 1310 100 WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 WBNY 1370 100 Canton WCAD 1220 500 Chester WGNV 1210 100 Elmira WESG 850 1000 C Freeport WGBB 1210 100 Jamestown WOCL 1210 50 Long Island City W2XR 1550 1000

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>New York</p> <p>WABC 860 50000 C WBNX 1350 250 WBOO 860 50000 WEAF 660 50000 R WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WLWL 1100 5000 WMCA 570 500 WNYC 810 1000 WOY 1130 1000</p> <p>Olean</p> <p>WHDL 1420 100</p> <p>Plattsburg</p> <p>WMFF 1310 100</p> <p>Rochester</p> <p>WHAM 1150 50000 B WHEC 1430 500 C WSAY 1210 100</p> <p>Saranac Lake</p> <p>WNBZ 1290 100</p> <p>Schenectady</p> <p>WGY 790 50000R</p> <p>Syracuse</p> <p>WFBL 1360 1000 C WSYR 570 250 B</p> <p>Troy</p> <p>WHAZ 1300 500</p> <p>Utica</p> <p>WIBX 1200 100 C</p> <p>White Plains</p> <p>WFAS 1210 100</p> <p>Woodside</p> <p>WWRL 1500 100</p>	<p style="text-align: center;">OHIO</p> <p>Akron</p> <p>WADC 1320 1000 C WJW 1210 100</p> <p>Canton</p> <p>WBHC 1200 100</p> <p>Cincinnati</p> <p>WCPO 1200 100 WKRC 550 1000 C WLW 700 500000 N WSAI 1330 1000 R</p> <p>Cleveland</p> <p>WGAR 1450 500 B WHK 1390 1000 C WJAY 610 500 WTAM 1070 50000 R</p> <p>Columbus</p> <p>WAU 640 500 WBNS 1430 500 C WCOL 1210 100 WOSU 570 750</p> <p>Dayton</p> <p>WHIO 1260 1000 R WSMK 1380 200 C</p> <p>Portsmouth</p> <p>WPAV 1370 100</p> <p>Toledo</p> <p>WSPD 1340 1000 C</p> <p>Youngstown</p> <p>WKBN 570 500 C</p> <p>Zanesville</p> <p>WALR 1210 100</p>	<p>KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100</p> <p>Reseburg</p> <p>KRNR 1500 100</p> <p>Salem</p> <p>KSLM 1370 100</p>	<p style="text-align: center;">PENNSYLVANIA</p> <p>Allentown</p> <p>WCBA 1440 500 WSAN 1440 500</p> <p>Altoona</p> <p>WFBG 1310 100</p> <p>Eric</p> <p>WLEU 1420 100</p> <p>Glenside</p> <p>WIBG 970 100</p> <p>Greensburg</p> <p>WHJB 620 250</p> <p>Groves City</p> <p>WSAJ 1310 100</p> <p>Harrisburg</p> <p>WHP 1430 500 C WKBO 1200 100</p> <p>Hazleton</p> <p>WAZL 1420 100</p> <p>Johnstown</p> <p>WJAC 1310 100</p> <p>Lancaster</p> <p>WGL 1500 100 WKJC 1200 100</p> <p>Philadelphia</p> <p>KYV 1020 10000 R WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 1000 WPEN 920 250 WRAX 920 250 WTEL 1310 100</p> <p>Pittsburgh</p> <p>KDKA 980 50000 B KOV 1380 500 WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100</p> <p>Reading</p> <p>WEEU 830 1000 WRAW 1310 100</p> <p>Scranton</p> <p>WGBI 880 500 WQAN 880 250</p> <p>Sunbury</p> <p>WKOK 1210 100</p> <p>Wilkes-Barre</p> <p>WEAB 1210 100 WBRE 1310 100</p> <p>Williamsport</p> <p>WRAK 1370 100</p> <p>York</p> <p>WORK 1320 1000</p>	<p>WJAR 890 500 R WPRO 630 250</p>				
<p style="text-align: center;">NORTH CAROLINA</p> <p>Asheville</p> <p>WWNC 570 1000 N</p> <p>Charlotte</p> <p>WBT 1080 50000 C WSOC 1210 100 N</p> <p>Durham</p> <p>WDNC 1500 100 C</p> <p>Gastonia</p> <p>WJBR 1420 100</p> <p>Greensboro</p> <p>WBG 1440 500 C</p> <p>High Point</p> <p>WMFR 1200 100</p> <p>Raleigh</p> <p>WPTF 680 5000 N</p> <p>Rocky Mount</p> <p>WEED 1420 100</p> <p>Wilmington</p> <p>WMFD 1370 100</p> <p>Winston-Salem</p> <p>WSJS 1310 100 C</p>	<p style="text-align: center;">OKLAHOMA</p> <p>Ada</p> <p>KADA 1210 100</p> <p>Ardmore</p> <p>KVSO 1200 100</p> <p>Elk City</p> <p>KASA 1210 100</p> <p>Enid</p> <p>KCRC 1360 250</p> <p>Norman</p> <p>WNAD 1010 1000</p> <p>Oklahoma City</p> <p>KFXR 1310 100 KFGF 1370 100 KOMA 1480 5000 C WKY 900 1000 N</p> <p>Ponca City</p> <p>WBBZ 1200 100</p> <p>Shawnee</p> <p>KGFF 1420 100</p> <p>Tulsa</p> <p>KTUL 1400 500 C KYOO 1140 25000 N</p>	<p style="text-align: center;">OREGON</p> <p>Astoria</p> <p>KAST 1370 100</p> <p>Corvallis</p> <p>KOAC 550 1000</p> <p>Eugene</p> <p>KORE 1420 100</p> <p>Klamath Falls</p> <p>KFJI 1210 100</p> <p>Marshfield</p> <p>KOOS 1390 250</p> <p>Medford</p> <p>KMED 1310 100</p> <p>Portland</p> <p>KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 N</p>	<p style="text-align: center;">PUERTO RICO</p> <p>Ponce</p> <p>WPRP 1420 100</p> <p>San Juan</p> <p>WKAO 1240 1000 WNEL 1290 500</p>	<p style="text-align: center;">RHODE ISLAND</p> <p>Newport</p> <p>WNRI 1200 100</p> <p>Providence</p> <p>WEAN 780 500 C</p>	<p style="text-align: center;">SOUTH CAROLINA</p> <p>Anderson</p> <p>WAIM 1200 100</p> <p>Charleston</p> <p>WCSC 1360 500</p> <p>Columbia</p> <p>WIS 1010 500 N</p> <p>Greenville</p> <p>WFBC 1300 1000</p> <p>Spartanburg</p> <p>WSPA 920 1000 WWC 1420 1000</p>	<p style="text-align: center;">SOUTH DAKOTA</p> <p>Aberdeen</p> <p>KABR 1420 100</p> <p>Brookings</p> <p>KFDY 780 1000</p> <p>Huron</p> <p>KGDY 1340 250</p> <p>Pierre</p> <p>KGFS 630 200</p> <p>Rapid City</p> <p>WCAT 1200 100</p> <p>Sioux Falls</p> <p>KSOO 1110 2500</p> <p>Vermillion</p> <p>KUSD 890 500</p> <p>Watertown</p> <p>KWTN 1210 100</p> <p>Yankton</p> <p>WNAX 570 1000 C</p>	<p style="text-align: center;">TENNESSEE</p> <p>Bristol</p> <p>WOPI 1500 100</p> <p>Chattanooga</p> <p>WDDO 1280 1000 C</p> <p>Jackson</p> <p>WTJS 1310 100</p> <p>Knoxville</p> <p>WNOX 560 1000 C WROL 1310 100</p> <p>Memphis</p> <p>WIBQ 1370 100 WMC 780 1000 N WNRN 1430 500 WREC 600 1000 C</p> <p>Nashville</p> <p>WLAN 1470 5000 C WSM 650 50000 N</p> <p>Springfield</p> <p>WSIX 1210 100</p>	<p style="text-align: center;">TEXAS</p> <p>Amarillo</p> <p>KGNC 1410 1000</p> <p>Austin</p> <p>KNOW 1500 100</p> <p>Beaumont</p> <p>KFDM 560 500</p> <p>Brady</p> <p>KNEL 1500 100</p> <p>College Station</p> <p>WTAW 1120 500</p> <p>Corpus Christi</p> <p>KGFI 1500 100</p> <p>Dallas</p> <p>KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500</p> <p>Dublin</p> <p>KFPL 1310 100</p>

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

El Paso	
KTSM 1310	100
WDAH 1310	100
Fort Worth	
KFJZ 1370	100
KTAT 1240	1000
WBAP 800	50000 N
Galveston	
KLUF 1370	100
Houston	
KPRC 920	1000 N
KTRH 1290	1000 C
KXYZ 1440	1000
Longview	
KFRO 1370	100
Lubbock	
KFYO 1310	100
KRLH 1420	100
Midland	
KNET 1420	100
Palestine	
KNET 1420	100
Pecos	
KIUN 1420	100
Port Arthur	
KPAC 1260	500
San Angelo	
KGKL 1370	100
San Antonio	
KABC 1420	100
KMAC 1370	100
KONO 1370	100
KTSA 550	1000 C
WOAI 119J	50000 N
Tyler	
KGKB 1500	100
Waco	
WACO 1420	100 C
Weslaco	
KRGV 1260	500
Wichita Falls	
KGKO 570	250 C
UTAH	
Ogden	
KLO 1400	500
Salt Lake City	
KDYL 1290	1000 N
KSL 1130	50000 C
VERMONT	
Burlington	
WCAX 1200	100
utland	
W ₅ YB 1500	100
St. Albans	
WQDM 137J	100
Springfield	
WNBX 1260	1000
Waterbury	
WDEV 550	500
VIRGINIA	
Arlington	
NAA 690	1000
Charlottesville	
WEHC 1420	100
Danville	
WBTM 1370	100
Harrisonburg	
W ₅ VA 550	500
Lynchburg	
WLYA 1200	100
Newport News	
WGH 1310	100
Norfolk	
WTAR 780	500 N

Petersburg	
WPHR 880	500
Richmond	
WBBL 1210	100
WMBG 1210	100 C
WRVA 1110	5000 N
Roanoke	
WDBJ 930	1000 C
WASHINGTON	
Aberdeen	
KXRO 1310	100
Bellingham	
KVOS 1200	100
Everett	
KRKO 1370	50
Olympia	
KGY 1210	100
Pullman	
KWSC 1220	1000
Seattle	
KIRO 710	500
KJR 970	5000 N
KOL 1270	1000 C
KOM 920	1000 N
KRSC 1120	100
KTW 1220	1000
KVL 1370	100
KXA 760	250
Spokane	
KFIO 1120	100
KFPY 890	1000 C
KGA 1470	5000 N
KHQ 590	1000 N
Tacoma	
KMO 1330	250
KVI 570	1000 C
Walla Walla	
KUJ 1370	100
Wenatche	
KPO 1500	100
Yakima	
KIT 1310	100
WEST VIRGINIA	
Bluefield	
WHIS 1410	250
Charleston	
WCHS 580	500
Fairmont	
WMMN 890	500 C
Huntington	
WSAZ 1190	1000
Parlersht g	
W ₅ PAR 1420	100
Wheeling	
WVVA 1160	5000 C
WISCONSIN	
Eau Claire	
WTAQ 1330	1000
Fond du Lac	
KFIZ 1420	100
Green Bay	
WBYB 1200	100
Janesville	
WCLO 1200	100
LaCrosse	
WKBH 1380	1000
Madison	
WHA 940	1000
WIBA 1280	1000 N
Manitowish	
WOMT 1210	100
Milwaukee	
WEMP 1310	100

WISN 1120	250 C
WTMJ 620	1000 N
Poyonette	
WIBU 1210	100
Racine	
WRJN 1370	100
Sheboygan	
WBBL 1410	500
Stevens Point	
WLB 90J	2500
Superior	
WEBC 1290	1000 N
WYOMING	
Casper	
KDFN 1440	500
Sheridan	
KWYO 1370	100
CANADA	
ALBERTA	
Calgary	
CFAC 930	100 F
CFCN 1030	10000
CJGJ 690	100 F
Edmonton	
CFRN 1260	100 F
CJCA 730	1000 F
CKUA 580	500
Lethridge	
CJOC 1230	100 F
BRITISH COLUMBIA	
Chilliwack	
CHWK 780	100 F
Kamloops	
CFJC 880	100 F
Kelowna	
CKOV 630	100 F
Prince Rupert	
CFPR 580	50
Trail	
CJAT 910	250 F
Vancouver	
CJOR 600	500
CKCD 1010	100
CKFC 1410	50
CKMO 1410	100 F
CKWX 1010	100 F
CRCV 1100	500 F
Victoria	
CFCT 1450	75
MANITOBA	
Brandon	
CKX 1120	100 F
Winnipeg	
CJRC 1390	100 F
CKY 960	1500 F
NEW BRUNSWICK	
Fredericton	
CFNB 550	500 F
Moncton	
CKCW 1370	100 F
St. John	
CHSJ 1120	500 F
N. W. TERRITORY	
Aklavik	
CJCU 1210	50

NOVA SCOTIA		
Glace Bay		
VAS 685	2000	
Halifax		
CHNS 930	1000 F	
Sydney		
CJCB 1240	1000 F	
Wolfville		
CKIC 1010	50	
Yarmouth		
CJLS 1310	100	
ONTARIO		
Brantford		
CKPC 930	100 F	
Catham		
CFCO 630	100 F	
Cobalt		
CKMC 1210	50	
Fort William		
CKPR 930	100 F	
Hamilton		
CHML 1010	100 F	
CKOC 1120	500 F	
Kingston		
CFRC 1510	100	
Kirkland Lake		
CJL 530	1000	
London		
CFPL 730	100 F	
North Bay		
CFCH 930	100 F	
Ottawa		
CKCO 1010	100 F	
CRCO 880	1000 F	
Prescott		
CFLC 930	100	
St. Catharines		
CKTB 1200	100 F	
Sault Ste. Marie		
CJIC 1500	100	
Stratford		
CJCS 1210	50	
Sudbury		
CKSO 780	1000 F	
Timmins		
CKGB 1420	100	
Toronto		
CFRB 690	10000 C	
CKCL 580	1000 F	
CRCR 840	500 N	
Waterloo		
CKCR 1510	100	
Windsor		
CKLW 1030	5000	
CRCW 600	500 F	
Wingham		
CKNX 1200	50	
PRINCE EDWARD ISLAND		
Charlottetown		
CFCY 630	1000 F	
CHCK 1310	50	
Summerside		
CHGS 1450	50 F	
QUEBEC		
Chicoutimi		
CRCS 950	100 F	
Hull		
CKGH 1210	100 F	
Montmagny		
VE9EK 1185	10	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Montreal		
CFCF	600	400 N
CHLP	1120	100 F
CKAC	730	5000 C
CRGM	910	5000 F
New Carlisle		
CHNC	1410	500 F
Quebec		
CHRC	580	100 F
CKCV	1310	100 F
CKCK	1010	1000 F

SASKATCHEWAN		
Moose Jaw		
CHAB	1200	100 F
CJRM	540	1000 F
Prince Albert		
CKBI	1210	100 F
Regina		
CHWC	1010	500 F
CKCK	1010	500 F
Saskatoon		
CFQC	840	1000 F
Yorkton		
CJGX	630	500 F

NEWFOUNDLAND		
St. John's		
VOAC	1065	40
VOAS	940	100
VOGY	840	400
VONF	1195	500
VOWR	681	500
MIQUELON		
St. Pierre		
FQN	609	250

CENTRAL AMERICA

COSTA RICA		
Cartago		
TIFS	1441	7.5
TIGA	1014	30
San Jose		
TIEP	850	500
TIFA	1050	75
TIGH	1000	500
TIRH	930	50

GUATEMALA		
Guatemala City		
TGW	1210	10000
TGX	1400	250

HONDURAS		
Tegucigalpa		
HRN	1270	100

NICARAGUA		
Managua		
YNLF	1275	20
YNOP	1230	100
YNVA	950	30

PANAMA		
Colon		
HP50	1440	25

EL SALVADOR		
San Salvador		
RDN	680	500

MEXICO		
AGUASCALIENTES		
Aguascalientes		
XFA	1310	5
XFC	810	350

CHIHUAHUA		
Chihuahua		
XEFI	1440	250
Juarez		
XEFV	1210	100
XEJ	1020	1000

COAHUILA		
Piedras Negras		
XELO	1110	10000
XEPN	590	50000
Saltillo		
XEAS	1160	100
XEOX	640	500
Torreon		
XETB	1310	125
XEGA	810	500
D. F.		

Mexico City		
XEAI	1240	100
XEB	1030	10000
XECW	1310	10
XEFA	1180	500
XEFO	940	5000
XEFZ	1370	100
XEK	990	100
XEL	1100	250
XEMX	1280	12
XEN	710	1000
XEP	840	500
XETW	820	500
XEW	890	50000
XEWZ	1150	100
XEYZ	780	10000
XFX	610	1000

DURANGO		
Durango		
XEE	1210	50

GUANAJUATO		
Guanajuato		
XEAZ	1420	7
Leon		
XEKL	1240	500

JALISCO		
Guadalajara		
XEA	1060	500
XED	1155	2500

LOWER CALIFORNIA		
Ensenada		
XEG	1270	200
Mexicali		
XEAA	920	200
XEAO	560	250
Tijuana		
XEC	1160	30

XEFL	1150	500
XEMO	860	5000
XEMZ	1210	250
XEOK	760	250

MICHOACAN		
Morelia		
XEI	1370	125

NUEVO LEON		
Monterrey		
XEFB	1420	100
XEFJ	1230	100
XEH	1150	250
XET	690	500
XEX	1310	125

OAXACA		
Oaxaca		
XEAJ	1310	15

PUEBLA		
Puebla		
XETH	1210	100

SAN LUIS POTOSI		
San Luis Potosi		
XEZZ	1370	100

SONORA		
Nogales		
XEAF	990	500

TAMAULIPAS		
Matamoros		
XEAM	750	7.5
Nuevo Laredo		
XEFE	850	250
XENT	910	65000

Reynosa		
XEAW	960	50000
Tampico		
XEFW	1310	250
XEMA	1080	50
XES	990	250

VERACRUZ		
Jalapa		
XFB	1270	250
XFD	1340	350
Veracruz		
XETF	1220	12
XEU	1010	250

YUCATAN		
Merida		
XEFC	560	100
XEY	1000	10
XEZ	630	500

WEST INDIES		
CUBA		
Cuba		
Calbarien		
CMHD	1270	250
Camaguey		
CMJA	1010	300
CMJC	1390	150
CMJE	1220	50

CMJF	1150	200
CMJK	780	250
CMJL	1340	100
CMJP	1430	100

Cardenas		
CMGE	1370	50
Ciego de Avila		
CMJH	1360	100
CMJI	1130	50
CMJO	1180	50

Cienfuegos		
CMHJ	1160	100
CMHW	810	100
CMHX	760	500

Cruces		
CMHK	1330	250

Havana		
CMBC	940	500
CMBD	1170	150
CMBG	1140	200
CMBN	880	150
CMBS	770	150
CMBX	1380	150
CMBY	640	150
CMBZ	1000	250
CMCA	1350	250
CMCB	1230	150
CMCD	960	250
CMCF	815	250
CMCG	1255	250
CMCJ	1200	350
CMCN	1500	150
CMCO	1110	250
CMCQ	680	250
CMCR	1410	150
CMCU	1280	150
CMCW	750	150
CMCX	660	150
CMCY	1030	1000

CMK	1060	250
CMOA	790	150
CMOK	1470	150
CMOX	1320	250
CMO	840	500
CMW	600	1000
CMX	920	650

Holguin		
CMKF	1460	50
Manzanillo		
CMKM	1120	200
Matanzas		
CMGC	1400	100
CMGF	1120	100
CMGI	1420	50

Sagua la Grande		
CMHA	1070	50
Sancti Spiritus		
CMHB	1240	50
Santa Clara		
CMHI	1210	150

Santiago		
CMKC	1250	150
CMKD	1050	250
CMKR	1400	100
CMKV	1190	50

DOMINICAN REPUBLIC		
San Pedro de Macoris		
HIH	1395	15
Santo Domingo		
HIJ	1195	15
HIX	800	700
HIZ	1300	10

HAITI		
Port-au-Prince		
HHK	920	1000

NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930 100 Calgary, Alta. T. P. & C. Brdsg. Co., Southam Bldg.	CJLS 1310 100 Yarmouth, N. S. Laurie L. Smith, Grand Hotel
CFCF 600 400 Montreal, Que. Mt. Royal Hotel	CJOC 1230 100 Lethbridge, Alta. Marquels Hotel
CFCH 930 100 North Bay, Ont. Capitol Theatre Bldg. Roy H. Thomson	CJOR 600 500 Vancouver, B. C. G. C. Chandler, Hotel Grosvenor
CFCN 1030 10000 Calgary, Alta. Toronto Gen. Trust Bldg.	CJRC 1390 100 Winnipeg, Man. Royal Alexandra Hotel
CFCO 630 100 Chatham, Ont. Wm. Pitt Hotel	CJRM 540 1000 Moose Jaw, Sask. 311 Main St. No.
CFCT 1450 75 Victoria, B. C. 620 View St.	CKAC 730 5000 Montreal, Que. 980 St. Catherine St. W.
CFCY 630 1000 Charlottetown, P.E.I. 143 Great George St.	CKBI 1210 100 Prince Albert, Sask Canada Bldg.
CFJC 880 100 Kamloops, B. C. Wilcox-Hall Bldg.	CKCD 1010 100 Vancouver, B. C. 142 Hastings St. W.
CFLC 930 100 Prescott, Ont. Hoy Bldg., 307 George St.	CKCH 1210 100 Hull, Que. Standish Hall Hotel
CFNB 550 500 Fredericton, N. B. York St.	CKCK 1010 500 Regina, Sask. 1853 Hamilton St.
CFPL 730 100 London, Ont. Richmond St.	CKCL 580 100 Toronto, Ont. 444 University Ave.
CFPR 580 50 Prince Rupert, B. C. Felix E. Batt	CKCO 1010 100 Ottawa, Ont. 272 Somerset St. W.
CFQC 840 1000 Saskatoon, Sask. 216 First Ave., No.	CKCR 1510 100 Waterloo, Ont. 24 King St., So.
CFRB 690 10000 Toronto, Ont. 37 Bloor St. W.	CKCV 1310 100 Quebec, Que. 142 St. John St.
CFRC 1510 100 Kingston, Ont. Queens University, Fleming Hall	CKCW 1370 100 Moncton, N. B. Moncton Brdsg. Co., Ltd., K. of P. Hall
CFRN 1260 100 Edmonton, Alta. 109 C. P. R. Building	CKFC 1410 50 Vancouver, B. C. Hemlock & 12th Ave.
CHAB 1200 100 Moose Jaw, Sask. P. O. Box 26	CKGB 1420 100 Timmins, Ont. R. H. Thompson, Press Bldg.
CHCK 1310 50 Charlottetown, P.E.I. 36 Upper Hillsboro St.	CKIC 1010 50 Wolfville, N. S. Acadia University
CHGS 1450 50 Summerside, P.E.I. 190 Water St.	CKLW 1030 5000 Windsor, Ont. Guaranty Trust Bldg.
CHLP 1120 100 Montreal, Que. Sun Life Bldg.	CKMC 1210 50 Cobalt, Ont. R. L. MacAdam
CHML 1010 100 Hamilton, Ont. Pigott Bldg.	CKMO 1410 100 Vancouver, B. C. 1604 Bekins Bldg.
CHNC 1410 500 New Carlisle, Que. Gaspesian Radio Brdsg. Co.	CKNX 1200 50 Wingham, Ont. Wingham Radio Club
CHNS 930 1000 Halifax, N. S. Lord Nelson Hotel	CKOC 1120 500 Hamilton, Ont. Wentworth Bldg.
CHRC 580 100 Quebec, Que. CHRC, Ltd., Victoria Hotel	CKOV 630 100 Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243
CHSJ 1120 500 St. John, N. B. Admiral Beatty Hotel	CKPC 930 100 Brantford, Ont. Arcade Bldg.
CHWC 1010 500 Regina, Sask. R. H. Williams & Sons, Kitchener Hotel	CKPR 930 100 Fort William, Ont. Royal Edward Hotel
CHWK 780 100 Chilliwack, B. C. Box 452	CKSO 780 1000 Sudbury, Ont. W. E. Mason, Grand Theatre Bldg.
CJAT 910 250 Trail, B. C. Kootenay Brdsg. Co., P. O. Box 1959	CKTB 1200 100 St. Catherines, Ont. E. T. Sandell, Welland House
CJCA 730 1000 Edmonton, Alta. 10122-100A St.	CKUA 580 500 Edmonton, Alta. University of Alberta
CJCB 1240 1000 Sydney, N. S. 318 Charlotte St.	CKWX 1010 100 Vancouver, B. C. Hotel Georgia
CJCJ 690 100 Calgary, Alta. New Albertan Bldg.	CKX 1120 100 Brandon, Man. City Hall Square
CJCS 1210 50 Stratford, Ont. M. I. Higgins, 151 Ontario St.	CKY 960 15000 Winnipeg, Man. Sherbrooke St.
CJCU 1210 50 Aklavik, N. W. T. Dr. J. A. Urquhart, Dept. of Interior	CMBC 940 500 Havana, Cuba Domingo Fernandez, Monte No. 139
CJGX 630 500 Yorkton, Sask. 188 Grain Exchange Bldg. (Winnipeg)	CMBD 1170 150 Havana, Cuba Luis Perez Garcia, Calle 17 No. 3, Vedado
CJIC 1500 100 S. Ste. Marie, Ont. Windsor Hotel, P. O. Box 504	CMBG 1140 200 Havana, Cuba John L. Stowers, Hospital No. 100
CJKL 530 1000 Kirkland Lake, Ont. Northern Brdsg. Co., Ltd.	CMBN 880 150 Havana, Cuba Pozos Dulces No. 3

NORTH AMERICAN B. C. STATIONS BY CALLS

CMBS 770 150 Havana, Cuba Calzada y H. St., Vedado	CMJK 780 250 Camaguey, Cuba Cla. Nacional de Radio, Finlay No. 3
CMBX 1380 150 Havana, Cuba Alberto Alvarez, San Miguel 194	CMJL 1340 100 Camaguey, Cuba M. Caymares, Republica 181
CMBY 640 150 Havana, Cuba Infanta 132 Callejas Estefan	CMJO 1180 50 Ciego de Avila, Cuba C. Central & Maceo
CMBZ 1000 250 Havana, Cuba Manuel y G. Salas, San Rafael No. 14	CMJP 1430 100 Camaguey, Cuba Cesar Canall, Callejas No. 28
CMCA 1350 250 Havana, Cuba Galiano No. 102	CMK 1060 250 Havana, Cuba Hotel Plaza
CMCB 1230 150 Havana, Cuba Metropolitan Bldg. 828 '30.	CMKC 1250 150 Santiago, Cuba J. A. Saco, P. O. Box 466
CMCD 960 250 Havana, Cuba Calle G y 25, Vedado	CMKD 1050 250 Santiago, Cuba Box 23
CMCF 815 250 Havana, Cuba Cuban Brdestg. Co., Paseo de Marti No. 9	CMKF 1460 50 Holguin, Cuba Libertad esq. Arias
CMCG 1255 250 Havana, Cuba Malecon No. 340 Altos	CMKM 1120 200 Manzanillo, Cuba Merchan P. Figaredo, P. O. Box 4
CMCJ 1200 350 Havana, Cuba Rafael Rodriguez, Estevez No. 4	CMKR 1400 100 Santiago, Cuba B. Maso alta 71
CMCN 1500 150 Havana, Cuba Reina y Ave. Buen Retiro, Marianao	CMKV 1190 50 Santiago, Cuba Oscar Vidal, Palma Soriano
CMCO 1110 250 Havana, Cuba Oficios 116, Enrique Lasanta	CMOA 790 150 Havana, Cuba Juan Fernandez, Agular 126 Aites
CMCQ 680 250 Havana, Cuba Vista Alegre No. 80, Vibora	CMOK 1470 150 Havana, Cuba Rafael Valdez, Estrella 121
CMCR 1410 150 Havana, Cuba Milagros No. 35, Vibora	CMOX 1320 250 Havana, Cuba 10 entre 17 y 19, Vedado
CMCU 1280 150 Havana, Cuba San Francisco No. 13, Vibora	CMQ 840 500 Havana, Cuba 25 Numero 445, Vedado
CMCW 750 150 Havana, Cuba San Lazaro No. 113	CMW 600 1000 Havana, Cuba Troncoso y Gil, Prado 105 (altos)
CMCX 660 150 Havana, Cuba Maceo No. 7, Guanabacoa	CMX 920 650 Havana, Cuba Edif. J. Calle, Oficios y Obraepa
CMCY 1030 1000 Havana, Cuba Manuel D. Autran, Calle G 215, Vedado	CRCK 1050 1000 Quebec, Que. Chateau Frontenac Hotel
CMCG 1400 100 Matanzas, Cuba Independencia No. 56	CRCM 910 5000 Montreal, Que. 1231 St. Catherine St. W.
CMGE 1370 50 Cardenas, Cuba Genaro Sebatier, Cespedes No. 180	CRCO 880 1000 Ottawa, Ont. Chateau Laurier Hotel
CMGF 1120 100 Matanzas, Cuba G. Betancourt No. 51	CRCS 950 100 Chicoutimi, Que. 4 Rue Larouche
CMGI 1420 50 Matanzas, Cuba Armando Lizama Mart No. 35	CRCT 840 5000 Toronto, Ont. 805 Davenport Road
CMHA 1070 50 Sagua la Grande, Cu. Abelardo Menocal, Carrillo No. 31	CRCV 1100 500 Vancouver, B. C. 1150 Main Street
CMHB 1240 50 Sancti Spiritus, Cuba Independencia No. 33	CRCW 600 500 Windsor, Ont. Guaranty Trust Bldg.
CMHD 1270 250 Caibarien, Cuba Manuel Alvarez, M. Escobar 17	FQN 609 250 St. Pierre, Miq.
CMHI 1210 150 Santa Clara, Cuba Lavis y Paz, Independencia No. 34	HHK 920 1000 Port-au-Prince, Haiti Haitian Government
CMHJ 1160 100 Cienfuegos, Cuba Romualdo Ugalde, Sta. Elena 184	HIH 1395 15 San Pedro de M., D.R. Domingo Dominguez
CMHK 1330 250 Cruces, Cuba Heredia No. 61	HJ 1195 15 Santo Domingo, D.R. Tuto Baez, Hostos 34
CMHW 810 100 Cienfuegos, Cuba P. O. Box 226, Ramon Gonzales	HIX 800 700 Santo Domingo, D.R. J. R. Saladin, Director General
CMHX 760 500 Cienfuegos, Cuba F. Chavarry, P. O. Box 205	HIZ 1300 10 Santo Domingo, D.R. Abbes and Garcia
CMJA 1010 300 Camaguey, Cuba Rafael Valdes, P. O. Box 64	HP50 1440 25 Colon, Panama Post Office Building
CMJC 1390 150 Camaguey, Cuba Cisneros y G. Gomez	HRN 1270 100 Tegucigalpa, Hond.
CMJE 1228 50 Camaguey, Cuba Manuel Fernandez, Hnos. Aguerre No. 2	KABC 1420 100 San Antonio, Texas Texas Theatre Bldg.
CMJF 1150 200 Camaguey, Cuba John L. Stowers, Republica No. 88	KABR 1420 100 Aberdeen, S. Dak. Aberdeen Broadcast Co.
CMJH 1360 100 Ciego de Avila, Cuba Luis Marauri, H. Castilla 37	KADA 1200 100 Ada, Okla. C. C. Morris
CMJI 1130 50 Ciego de Avila, Cuba Gilberto Gessa Lopez, Independencia 95	KALB 1420 100 Alexandria, La. Alexandria Brdestg. Co.

NORTH AMERICAN B. C. STATIONS BY CALLS

KALE 1300 500 Portland, Ore. Kale, Inc., New Heathman Hotel	KFJI 1210 100 Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel
KARK 890 250 Little Rock, Ark. N. S. L. Bldg.	KFJM 1370 100 Grand Forks, N. D. University of North Dakota
KASA 1210 100 Elk City, Okla. E. M. Woody, Casa Grande Hotel	KFJR 1300 500 Portland, Ore. 622 Lumberman's Bldg.
KAST 1370 100 Astoria, Ore. Abraham Shapiro, 611 Commercial St.	KFJZ 1370 100 Fort Worth, Texas 502 Trinity Life Bldg.
KBPS 1420 180 Portland, Ore. 546 N. E. 12th Ave.	KFKA 880 500 Greeley, Colo. Box 735
KBTM 1200 100 Jonesboro, Ark. Jay P. Beard	KFKU 1220 1000 Lawrence, Kans. University of Kansas
KCMC 1420 100 Texarkana, Ark. Box 865	KFNF 890 500 Shenandoah, Iowa 407 Sycamore St.
KCRC 1360 250 Enid, Okla. Enid Radiophone Co., Oxford Hotel	KFOR 1210 100 Lincoln, Neb. Howard Shuman, Hotel Lincoln
KCRJ 1310 100 Jerome, Ariz. Chas. C. Robinson, Drawer D	KFOX 1250 1000 Long Beach, Calif. 220 E. Anaheim St.
KDB 1500 100 Santa Barbara, Calif. 15-17 E. Haley St.	KFPL 1310 100 Dublin, Texas C. C. Baxter, Box 176
KDFN 1440 500 Casper, Wyo. Donald Lewis Hathaway, Box 930	KFPW 1210 100 Fort Smith, Ark. Goldman Hotel
KDKA 980 50000 Pittsburgh, Pa. Grant Building	KFPY 890 1000 Spokane, Wash. Symons Bldg.
KDLR 1210 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street	KFQD 780 250 Anchorage, Alaska 411—4th Ave.
KDON 1210 100 Del Monte, Calif. Richard F. Lewis	KFRC 610 1000 San Francisco, Calif. 1000 Van Ness Ave.
KDYL 1290 1000 Salt Lake City, Utah Ezra Thompson Bldg.	KFRO 1370 100 Longview, Texas Voice of Longview, Box 86
KECA 1430 1000 Los Angeles, Calif. 1000 S. Hope St.	KFRU 630 500 Columbia, Mo. KFRU, Inc., 9th and Elm Sts.
KEHE 780 500 Los Angeles, Calif. 214 S. Vermont St.	KFSO 600 1000 San Diego, Calif. U. S. Grant Hotel
KELD 1370 180 El Dorado, Ark. T. H. Baron	KFSG 1120 500 Los Angeles, Calif. 1100 Glendale Blvd.
KELW 780 500 Burbank, Calif. 3702 Magnolia Park Blvd.	KFUO 550 500 St. Louis, Mo. 801 De Mun St.
KERN 1370 100 Bakersfield, Calif. Elk's Club	KFVD 1000 250 Los Angeles, Calif. E. L. Cord, 645 S. Mariposa
KEX 1180 5000 Portland, Ore. Oregonian Bldg.	KFVS 1210 100 Cape Girardeau, Mo. Oscar C. Hirsch, Box 275
KFAB 770 10000 Lincoln, Neb. Cornhusker Hotel	KFWB 950 1000 Hollywood, Calif. Warner Bros. Motion Pictures, Inc.
KFAC 1300 1000 Los Angeles, Calif. E. L. Cord, 645 So. Mariposa	KFXD 1200 100 Nampa, Idaho Frank E. Hurt, 1024 12th Ave., S.
KFBB 1280 1000 Great Falls, Mont. Buttrey Broadcast., Inc., P. O. Box 1817	KFXJ 1200 100 Grand Jct., Colo. Hillcrest Manor
KFBI 1050 5000 Abilene, Kans. Box 345	KFXM 1210 180 San Bernardino, Calif. California Hotel
KFBK 1490 5000 Sacramento, Calif. Sacramento Bee, 7th & I Sts.	KFXR 1310 100 Oklahoma City, Okla. 541 Hightower Bldg.
KFDM 560 500 Beaumont, Texas Beaumont Hotel, P. O. Box 2950	KFYO 1310 100 Lubbock, Texas Kirksey Bros., Hotel Lubbock
KFDY 790 1000 Brookings, S. D. Box L. State College Station	KFYR 550 1000 Bismarck, N. D. 320 Broadway
KFEL 920 500 Denver, Colo. Albany Hotel	KGA 1470 5000 Spokane, Wash. 1023 W. Riverside Ave.
KEEQ 680 2500 St. Joseph, Mo. Schneider Bldg., KFEQ, Inc.	KGAR 1370 100 Tucson, Ariz. 142 S. 6th Ave.
KFGQ 1370 100 Boone, Iowa 924 W. 2nd St.	KGB 1330 1000 San Diego, Calif. 1012—1st Ave.
KFH 1300 1000 Wichita, Kans. 124 1/2 S. Market St.	KGBU 900 500 Ketchikan, Alaska Mile 5, Wards Cove Rd.
KFI 640 50000 Los Angeles, Calif. 1000 S. Hope St.	KGBX 1230 500 Springfield, Mo. KGBX, Inc., St. Louis at Kimbrough
KFIO 1120 180 Spokane, Wash. Ziegler Building	KGBZ 930 1000 York, Neb. KGBZ Broadcasting Co., 719 Grant Ave.
KFIZ 1420 180 Fond du Lac, Wis. 18 W. 1st St.	KGCA 1270 100 Decorah, Iowa Charles W. Greenley, 201 Water St.
KFJS 1200 100 Marshalltown, Iowa 1603 W. Main St.	KGCU 1240 250 Mandan, N. D. 404 W. Main St.

NORTH AMERICAN B. C. STATIONS BY CALLS

KGCX 1310	100	Wolf Point, Mont. E. E. Krebsbach.	KHBC 1420	100	Hilo, T. H. Honolulu Broadcasting Co.
KGDE 1200	100	Fergus Falls, Minn. C. L. Jaren	KHJ 900	1000	Los Angeles, Calif. 7th & Bixel Sts.
KGDM 1100	1000	Stockton, Calif. E. F. Pepper, 42 S. Calif. St.	KHQ 590	1000	Spokane, Wash. Sprague Ave. & Post St.
KGDY 1340	250	Huron, S. D. Voice of S. D., Inc., 347 Dakota Ave.	KHSL 950	250	Chico, Calif. Golden Empire Brdsteg. Co.
KGEK 1200	100	Sterling, Colo. Elmer G. Beehler, 109 W. 2nd St.	KICA 1370	100	Clovis, N. M. Southwest Broadcasting Co.
KGER 1360	1000	Long Beach, Calif. 435 Pine Ave.	KID 1320	250	Idaho Falls, Idaho Box 487
KGEZ 1310	100	Kalispell, Mont. Donald C. Treloar, Box 1	KIDO 1350	1000	Boise, Idaho Hotel Boise
KGFF 1420	100	Shawnee, Okla. 9th & Bell Sts.	KIDW 1420	100	Lamar, Colo. Lamar Broadcasting Co., Box 688
KGFG 1370	100	Oklahoma City, Okla. Okla. Broadcasting Co., 1113 N. Broadway	KIEM 1450	500	Eureka, Calif. Redwood Brdsteg. Co., Vance Hotel
KGFI 1500	100	Corpus Christi, Texas Eagle Broadcasting Co., Inc., P. O. Box 1508	KIEV 850	100	Glendale, Calif. Cannon System, Ltd., Glendale Hotel
KGFI 1200	100	Los Angeles, Calif. Ben S. McGlashan, 1417 S. Figueroa	KINY 1310	100	Juneau, Alaska Edwin A. Kraft
KGFK 1500	100	Moorhead, Minn. Comstock Hotel	KIRO 710	500	Seattle, Wash. Tower Bldg.
KGFL 1370	100	Roswell, N. M. KGFL, Inc., 507 N. Main St.	KIT 1310	100	Yakima, Wash. 109½ E. Yakima Ave.
KGFW 1310	100	Kearney, Neb. 919 West 27th St.	KIUJ 1310	100	Santa Fe, N. Mex. W. C. Irvin
KGFX 630	200	Pierre, S. D. Dana McNeil, Box 573	KIUL 1210	100	Garden City, Kans. Garden City Brdsteg. Co.
KGGC 1420	100	San Francisco, Calif. 230 Eddy St.	KIUN 1420	100	Pecos, Texas J. H. Hawkins & B. H. Hubbs
KGGF 1010	1000	Coffeyville, Kans. Coffeyville Journal Bldg.	KIUP 1370	100	Durango, Colo. C. Guy Shepard, 2800 Main Street
KGGM 1230	250	Albuquerque, N. M. Kimo Building	KJBS 1070	500	San Francisco, Calif. 1380 Bush St.
KGHF 1320	500	Pueblo, Colo. C. P. Ritchie, 113 Broadway	KJR 970	5000	Seattle, Wash. Skinner Bldg.
KGHI 1200	100	Little Rock, Ark. Arkansas Brdsteg. Co., Marion Hotel	KLCN 1290	100	Blytheville, Ark. C. L. Lintzenich, Main and Division St.
KGHL 780	1000	Billings, Mont. 5th & N. Broadway	KLO 1400	500	Ogden, Utah 405—25th St.
KGIR 1340	1000	Butte, Mont. KGIR, Inc., 121 W. Broadway	KLPM 1240	250	Minot, N. D. John B. Cooley, Box 707
KGIW 1420	100	Alamosa, Colo. Leonard E. Wilson, 328 N. Commercial	KLRA 1390	1000	Little Rock, Ark. Arkansas Broadcasting Co., Box 550
KGKB 1500	100	Tyler, Texas 115 S. College	KLS 1440	250	Oakland, Calif. Warner Bros., 2201 Telegraph Ave.
KGKL 1370	100	San Angelo, Texas KGKL, Inc., St. Angelus Hotel	KLUF 1370	100	Galveston, Texas Geo. R. Clough, Buccaneer Hotel
KGKO 570	250	Wichita Falls, Texas 9th St. & Indiana Ave.	KLX 880	1000	Oakland, Calif. Tribune Tower
KGKY 1500	100	Scottsbluff, Neb. Billiard Co., Inc., 1517 1/2 Broadway	KLZ 560	1000	Denver, Colo. Shirley-Savoy Hotel
KGMB 1320	1000	Honolulu, T. H. Honolulu Broadcasting Co., Box 2663	KMA 930	1000	Shenandoah, Iowa Earl E. May Seed & Nursery Co.
KGNC 1410	1000	Amarillo, Texas Plains Radio Brdsteg. Co.	KMAC 1370	100	San Antonio, Texas W. W. McAllister, Smith-Young Tower
KGNF 1430	1000	North Platte, Neb. Great Plains Broadcasting Co., W. 12th St.	KMBC 950	1000	Kansas City, Mo. Pickwick Hotel
KGNO 1340	250	Dodge City, Kans. First Natl. Bank Bldg.	KMED 1310	100	Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.
KGO 790	7500	San Francisco, Calif. 111 Sutter St.	KMJ 580	1000	Fresno, Calif. Van Ness & Calaveras Sts.
KGU 750	2500	Honolulu, T. H. Kapiolani at South St.	KMLB 1200	100	Monroe, La. Francis Hotel
KGVO 1260	1000	Missoula, Mont. Mosbys, Inc., 240 N. Higgins	KMMJ 740	1000	Clay Center, Neb. The M. M. Johnson Co.
KGW 620	1000	Portland, Ore. 325 Adler St.	KMO 1330	250	Tacoma, Wash. KMO, Inc., Hotel Winthrop
KGY 1210	100	Olympia, Wash. KGY, Inc., 11th and Capitol Way	KMOX 1090	50000	St. Louis, Mo. 401 S 12th St.

NORTH AMERICAN B. C. STATIONS BY CALLS

KMPC 710 500 Beverly Hills, Calif. 9631 Wilshire Blvd.	KRLD 1040 10000 Dallas, Texas KRLD Radio Corp., Adolphus Hotel
KMTR 570 1000 Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave.	KRLH 1420 100 Midland, Texas Clarence Scharbauer
KNEL 1500 100 Brady, Texas G. L. Burns	KRRM 1310 100 Shreveport, La. Jefferson Hotel
KNET 1420 100 Palestine, Texas Palestine Brdcastg. Assn.	KRRR 1500 100 Roseburg, Ore. Oregon Pub. Co.
KNOW 1500 100 Austin, Texas Norwood Building	KRRN 1320 500 Des Moines, Iowa 715 Locust Street
KNX 1850 50000 Hollywood, Calif. West. Broadcast Co., Inc., 1558 N. Vine St.	KROC 1310 100 Rochester, Minn. Southern Minnesota Broadcasting Co.
KOA 830 50000 Denver, Colo. General Electric Co., 1370 Krameria St.	KROW 930 1900 Oakland, Calif. 1803 Franklin St.
KOAC 550 1000 Corvallis, Ore. Oregon State Agricultural College	KRSJ 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club
KOB 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 1319	KSAC 580 500 Manhattan, Kans. State College of Agriculture
KOH 1380 500 Reno, Nev. 440 N. Virginia St.	KSCJ 1330 1000 Sioux City, Iowa Perkins Bros. Co., 415 Douglas St.
KOIL 1260 1000 Council Bluffs, Iowa Mona Motor Oil Co.	KSD 550 1800 St. Louis, Mo. St. Louis Post-Dispatch
KOIN 940 1000 Portland, Ore. KOIN, Inc., New Heathman Hotel	KSEI 900 250 Pocatello, Idaho Radio Service Corp., 141 S. 6th Ave.
KOL 1270 1000 Seattle, Wash. Northern Life Tower	KSFO 560 1000 San Francisco, Calif. Russ Building
KOMA 1480 5000 Oklahoma City, Okla. Biltmore Hotel	KSL 1130 50000 Salt Lake City, Utah Vermont Bldg.
KOMO 920 1000 Seattle, Wash. Skinner Bldg.	KSLM 1370 100 Salem, Ore. Oregon Radio, Inc.
KONO 1370 100 San Antonio, Texas Mission Broadcast Co., Milam Bldg.	KSO 1430 600 Des Moines, Iowa 715 Locust Street
KOOS 1390 250 Marshfield, Ore. H. H. Hanseth, Hall Bldg.	KSOD 1110 2500 Sioux Falls, S. D. Sioux Falls Brdcast. Assn., Carpenter Hotel
KORE 1420 100 Eugene, Ore. 733 Willamette St.	KSTP 1460 25000 St. Paul, Minn. St. Paul Hotel
KOTN 1500 100 Pine Bluff, Ark. Universal Brdcastg. Corp., Hotel Pines	KSUN 1200 100 Lowell, Ariz. Copper Electrical Co., Drawer C
KOY 1390 500 Phoenix, Ariz. P. O. Box 1323	KTAR 620 1000 Phoenix, Ariz. Heard Building
KPAC 1250 500 Port Arthur, Texas Port Arthur College	KTAT 1240 1000 Fort Worth, Texas Ft. Worth Natl. Bank Bldg.
KPJM 1500 100 Prescott, Ariz. Scott & Sturm, P. O. Box 782	KTBS 1450 1000 Shreveport, La. Box 17
KPLC 1500 100 Lake Charles, La. Calcasieu Brdcastg. Co., Majestic Hotel	KTFI 1240 1000 Twin Falls, Idaho Radio Broadcasting Corp., Box 521
KPO 680 50000 San Francisco, Calif. 111 Supter St.	KTHS 1060 10000 Hot Springs, Ark. Chamber of Commerce, Box 886
KPOF 880 500 Denver, Colo. Pillar of Fire, 1845 Champa St.	KTRB 740 250 Modesto, Calif. McTammany & Bates, P. O. Box 405
KPPC 1210 50 Pasadena, Calif. 585 E. Colorado St.	KTRH 1290 1000 Houston, Texas KTRH Broadcasting Co., Rice Hotel
KPQ 1500 100 Wenatchee, Wash. KPQ Bldg., 20 2nd St.	KTSA 550 1000 San Antonio, Texas Southwest Broadcasting Co., Plaza Hotel
KPRC 920 1000 Houston, Texas Lamar Hotel	KTSM 1310 100 El Paso, Texas P. O. Box 1976
KQV 1380 500 Pittsburgh, Pa. KQV Broadcasting Co., 1406 C. of C. Bldg.	KTUL 1400 500 Tulsa, Okla. National Bank of Tulsa Bldg.
KQW 1010 1000 San Jose, Calif. 87 E. San Antonio St.	KTW 1220 1000 Seattle, Wash. 7th & Spring St.
KRE 1370 100 Berkeley, Calif. 2337 Shattuck Ave.	KUJ 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel
KREG 1500 100 Santa Ana, Calif. 3rd & Synamore Sts.	KUMA 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267
KRGV 1260 500 Weslaco, Texas KRGV Inc.	KUOA 1260 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel
KRKD 1120 500 Los Angeles, Calif. 815 Spring Arcade Bldg.	KUSD 890 500 Vermillion, S. D. University of South Dakota
KRKO 1370 50 Everett, Wash. Lee Mudgett, 2814 Rucker Ave.	KVI 570 1000 Tacoma, Wash. W. R. Rust Bldg.
KRLC 1420 100 Lewiston, Idaho H. E. Studebaker, Lewis-Clarke Hotel	KVL 1370 100 Seattle, Wash. KVL, Inc., 2101 Smith Tower

NORTH AMERICAN B. C. STATIONS BY CALLS

KVOA 1260 500 Tucson, Ariz. Cons. Natl. Bank Bldg.
KVOD 920 500 Denver, Colo. Continental Oil Bldg.
KVOL 1310 100 Lafayette, La. Evangeline Hotel
KVOO 1140 25000 Tulsa, Okla. Wright Bldg.
KVOR 1270 1000 Colorado Spg., Colo. Antlers Hotel
KVOS 1200 100 Bellingham, Wash. 115 W. Magnolia St.
KVSO 1210 100 Ardmore, Okla. Ardmorette Pub. Co., Inc.
KWBG 1420 100 Hutchinson, Kans. W. B. Greenwald
KWEA 1210 100 Shreveport, La. Spring & Fannin Sts., Times Pub. Co.
KWG 1200 100 Stockton, Calif. Medico-Dental Bldg.
KWJJ 1040 500 Portland, Ore. 622 Salmon St.
KWK 1350 1000 St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase
KWKC 1370 100 Kansas City, Mo. 3915 Main St.
KWKH 1100 10000 Shreveport, La. Spring & Fannin Sts., Times Pub. Co.
KWLC 1270 100 Decorah, Iowa Luther College
KWSC 1220 1000 Pullman, Wash. State College of Washington
KWTN 1210 100 Watertown, S. D. Citizens Bank Bldg.
KWTO 560 5000 Springfield, Mo. KGBX Inc., St. Louis at Kimbrough
KWYO 1370 100 Sheridan, Wyo. Big Horn Brdstg. Co.
KXA 760 250 Seattle, Wash. American Radio Tel. Co., 312 Bigelow Bldg.
KXL 1420 100 Portland, Ore. KXL Broadcasters, Multnomah Hotel
KXO 1500 100 El Centro, Calif. F. M. Bowles, Box 140
KXRO 1310 100 Aberdeen, Wash. KXRO, Inc., Hotel Morek
KXYZ 1440 1000 Houston, Texas Gulf Building
KYA 1230 1000 San Francisco, Calif. 988 Market St.
KYW 1020 10000 Philadelphia, Pa. 1622 Chestnut Street
NAA 690 1000 Arlington, Va. United States Navy
RDN 680 580 San Salvador E. S. Republic of El Salvador
TGW 1210 10000 Guatemala, Gua. 2227 Maquilmaria 3389
TGX 1400 250 Guatemala City
TIEP 850 500 San Jose, C. R.
TIFA 1050 75 San Jose, C. R.
TIFS 1441 7.5 Cartago, C. R.
TIGA 1014 30 Cartago, C. R.
TIGH 1000 500 San Jose, C. R.
TIRH 930 50 San Jose, C. R.

VAS 685 2000 Glace Bay, N. S. Canadian Marconi Co., Ltd.
VESEK 1185 10 Montmagny, Que. J. A. Marquils, P. O. Box 52
VOAC 1065 40 St. John's, Nfld.
VOAS 940, 100 St. John's, Nfld. Ayre & Sons, Ltd., Water St.
VOGY 840 400 St. John's, Nfld. Newfoundland Hotel
VONF 1195 500 St. John's, Nfld. Dominion Broadcasting Co., Ltd., Box 135
VOWR 681 500 St. John's, Nfld. Wesley United Church, Box 157
WAAB 1410 500 Boston, Mass. 21 Brookline Ave.
WAAF 920 1000 Chicago, Ill. Palmer House
WAAT 940 500 Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq
WAAW 660 500 Omaha, Neb. Omaha Grain Exchange
WABC 860 50000 New York, N. Y. 485 Madison Ave.
WABI 1200 100 Bangor, Maine Community Brdstg. Service
WABY 1370 100 Albany, N. Y. Hotel Ten Eyck
WACO 1420 100 Waco, Texas Amicable Bldg.
WADC 1320 1000 Akron, Ohio Allen T. Simmons, P. O. Box 29
WAGF 1370 100 Dothan, Ala. P. O. Box 25
WAGM 1420 100 Presque Isle, Me. Aroostook Broadcasting Corp., Main St.
WAIM 1200 100 Anderson, S. C. Anderson College
WAIU 640 500 Columbus, Ohio Deshler-Wallick Hotel
WALA 1380 500 Mobile, Ala. Pape Brdstg. Corp., P. O. Box 288
WALR 1210 100 Zanesville, Ohio First Trust & Savings Bank Bldg.
WAML 1310 100 Laurel, Miss. New Laurel Radio Co., Box 26
WAPI 1140 5000 Birmingham, Ala. Protective Life Bldg.
WARD 1400 500 Brooklyn, N. Y. 427 Fulton St.
WASH 1270 500 Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg
WATR 1130 100 Waterbury, Conn. WATR Co. Inc., 47 Grand St.
WAVE 940 1000 Louisville, Ky. WAVE, Inc., 1525 Brown Hotel
WAWZ 1350 500 Zarephath, N. J. Pillar of Fire
WAZL 1420 100 Hazleton, Pa. Hazleton Broadcasting Service, Inc.
WBAA 890 1000 West Lafayette, Ind. Purdue University
WBAL 1060 10000 Baltimore, Md. Lexington Bldg., Amer. Radio News Corp.
WBAP 800 50000 Fort Worth, Texas Ft. Worth Star-Telegram
WBAX 1210 100 Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
WBBC 1400 500 Brooklyn, N. Y. 552-54 Atlantic Ave.
WBBL 1210 100 Richmond, Va. 1627 Monument Ave.

NORTH AMERICAN B. C. STATIONS BY CALLS

WBEM 770 50000 Chicago, Ill. 410 N. Michigan Ave.	WCCO 810 50000 Minneapolis, Minn. Nioclet Hotel
WBBR 1300 1090 Brooklyn, N. Y. 124 Columbia Heights	WCFL 970 5000 Chicago, Ill. 666 Lake Shore Drive
WBBZ 1200 100 Ponca City, Okla. C. L. Carrell, 407 W. South Ave.	WCHS 580 500 Charleston, W. Va. WOBU, Inc., Ruffner Hotel
WBCM 1410 500 Bay City, Mich. James E. Davison, Hotel Wenonah	WKCY 1490 5000 Covington, Ky. 6th & Madison Sts.
WBN 900 1000 Buffalo, N. Y. WBEH, Inc., Hotel Marler	WCLO 1200 100 Janesville, Wis. 200 E. Milwaukee St.
WBO 1310 100 Marquette, Mich. 146 W. Washington St.	WCLS 1310 100 Joliet, Ill. WCLS, Inc., 301 E. Jefferson St.
WBIG 1440 500 Greensboro, N. C. O. Henry Hotel	WCMI 1310 100 Ashland, Ky. Ashland Broadcasting Co., Box 106
WBNO 1200 100 New Orleans, La. Hotel New Orleans	WCNW 1500 100 Brooklyn, N. Y. Arthur Faske, 864-868 Flatbush Ave.
WBNS 1430 500 Columbus, O. 33 N. High St.	WCOA 1340 500 Pensacola, Fla. San Carlos Hotel
WBNX 1350 250 New York, N. Y. 260 E. 161st St.	WCOC 880 500 Meridian, Miss. Box 603
WBNY 1370 100 Buffalo, N. Y. Roy L. Albertson	WCOL 1210 100 Columbus, Ohio WCOL Inc., 33 N. High St.
WBOQ 860 50000 New York, N. Y. Atlantic Broadcasting Corp.	WCOP 1120 500 Boston, Mass. Joseph M. Kirby, Hotel Copley-Plaza
WBOV 1310 100 Terre Haute, Ind. Banks of Wabash, Inc., 19 Beach Block	WCPO 1200 100 Cincinnati, Ohio Continental Radio Co., Hotel Sinton
WBRB 1210 100 Red Bank, N. J. 63 Broad St.	WCRW 1210 100 Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.
WBRC 930 1800 Birmingham, Ala. Bankhead Hotel	WCSC 1360 500 Charleston, S. C. Francis Marion Hotel
WBRE 1310 100 Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main	WCSH 940 1000 Portland, Me. Congress Square Hotel
WBSO 920 500 Babson Park, Mass. Drawer B	WDAE 1220 1000 Tampa, Fla. Tampa Times Co., Tampa Terrace
WBT 1080 50000 Charlotte, N. C. Station WBT, Inc., Wilder Bldg.	WDAF 610 1000 Kansas City, Mo. 1729 Grand Ave.
WBTM 1370 100 Danville, Va. Miller Bldg.	WDAH 1310 100 El Paso, Texas Box 1976
WBZ 990 50000 Boston, Mass. Hotel Bradford	WDAS 1370 100 Philadelphia, Pa. WDAS Brdcastg. Co., Inc., 1211 Chestnut St
WBZA 990 1000 Springfield, Mass. Hotel Kimball	WDAY 940 1000 Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway
WCAC 600 500 Storrs, Conn. Connecticut State College	WDBJ 930 1000 Roanoke, Va. Times World Corp., P. O. Box 150
WCAD 1220 500 Canton, N. Y. St. Lawrence University	WDBO 580 1000 Orlando, Fla. P. O. Box 1097
WCAE 1220 1000 Pittsburgh, Pa. P. O. Box 1705	WDEL 1120 250 Wilmington, Del. WDEL, Inc., 10th and King Sts.
WCAL 1250 1000 Northfield, Minn. St. Olaf College	WDEV 550 500 Waterbury, Vt. Harry C. Whitehill, Stowe St.
WCAM 1280 500 Camden, N. J. City of Camden, City Hall	WDGY 1180 1000 Minneapolis, Minn Dr. Geo. W. Young, 909 W. Broadway
WCAO 600 500 Baltimore, Md. 811 W. Lanvale St.	WDNC 1500 100 Durham, N. C. Washington Duke Hotel
WCAP 1280 500 Asbury Park, N. J. Convention Hall	WDDO 1280 1000 Chattanooga, Tenn. WDOD Broadcasting Corp., Hotel Patten
WCAT 1200 100 Rapid City, S. D. South Dakota State School of Mines	WDRC 1330 1000 Hartford, Conn. WDRG, Inc., Corning Bldg., 11 Asylum St
WCAU 1170 50000 Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut	WDSU 1250 1000 New Orleans, La. WDSU Inc., Hotel Monteleone
WCAX 1200 100 Burlington, Vt. 203 College St.	WDZ 1070 100 Tuscola, Ill. James L. Bush, Star Store Bldg.
WCAZ 1070 100 Carthage, Ill. 97 1/2 Adams St.	WEAF 660 50000 New York, N. Y. 30 Rockefeller Plaza
WCBA 1440 500 Allentown, Pa. B. Bryan Musselman, 39-41 10th St.	WEAN 780 500 Providence, R. I. New Crown Hotel
WCBD 1080 5000 Waukegan, Ill. Karcher Hotel	WECB 1290 1000 Superior, Wis. Spaulding Hotel, Duuth, Minn.
WCBM 1370 100 Baltimore, Md. Keith Theatre Bldg.	WEBQ 1210 100 Harrisburg, Ill. 100 E. Popular St.
WCBS 1420 100 Springfield, Ill. WCBS, Inc., 208 1/2 S. 5th.	WEBR 1310 100 Buffalo, N. Y. Howel Broadcasting Co., Inc., 23 North

NORTH AMERICAN B. C. STATIONS BY CALLS

WEDC 1210 100 Chicago, Ill. Emil Denmark, 3860 Ogden Ave.	WGH 1310 100 Newport News, Va. 2813 Washington Ave.
WEED 1420 100 Rocky Mount, N. C. Wm. Averá Wynne, Box 221	WGL 1370 100 Fort Wayne, Ind. F. C. Zieg, 213 W. Main St.
WEEI 590 1000 Boston, Mass. 182 Tremont St.	WGN 720 50000 Chicago, Ill. WGN, Inc., 435 N. Michigan Ave.
WEEU 830 1000 Reading, Pa. Berks Broadcasting Co., 533 Penn.	WGNV 1210 100 Chester, N. Y. Peter Goelet (Orange County)
WEHC 1420 100 Charlottesville, Va. P. O. Box 221	WCPC 1420 100 Albany, Ga. Rylander Theatre Bldg.
WEHS 1420 100 Cicero, Ill. WEHS, Inc., 6138 W. Cermak Rd.	WGR 550 1000 Buffalo, N. Y. Rand Bldg.
WELI 900 500 New Haven, Conn. Patrick J. Goode	WGST 890 500 Atlanta, Ga. Ansley Hotel
WELL 1420 100 Battle Creek, Mich. Enquirer News, 38 W. State St.	WGY 790 50000 Schenectady, N. Y. 1 River Road
WEMP 1310 100 Milwaukee, Wis. Milwaukee Brdstg. Co.	WHA 940 1000 Madison, Wis. University of Wisconsin, Radio Hall
WENR 870 50000 Chicago, Ill. Merchandise Mart	WHAM 1150 50000 Rochester, N. Y. 100 Carlson Road
WESG 850 1000 Elmira, N. Y. Mark Twain Hotel	WHAS 820 50000 Louisville, Ky. 300 W. Liberty St.
WEST 1200 100 Lancaster, Pa. 16 W. King St.	WHAT 1310 100 Philadelphia, Pa. Public Ledger Bldg.
WEVD 1300 1000 New York, N. Y. Jewish Daily Forward, Hotel Claridge	WHAZ 1300 500 Troy, N. Y. 8th St.
WEW 760 1000 St. Louis, Mo. St. Louis University, 221 N. Grand Blvd.	WHB 860 1000 Kansas City, Mo. WHB Broadcasting Co., Scarritt Bldg.
WEXL 1310 50 Royal Oak, Mich. 212 W. 6th St.	WHBB 1500 100 Selma, Alabama YMCA Bldg.
WFAA 800 50000 Dallas, Texas Baker Hotel	WHBC 1200 100 Canton, Ohio Edw. P. Graham, 319 Tusc. St., W.
WFAB 1300 1000 New York, N. Y. 154 W. 57th St.	WHBF 1210 100 Rock Island, Ill. Hotel Harms
WFAM 1200 100 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.	WHBI 1250 1000 Newark, N. J. 100 Shipman St.
WFAS 1210 100 White Plains, N. Y. Hotel Roger Smith	WHBL 1410 500 Sheboygan, Wis. Press Publishing Co., Press Bldg.
WFBC 1300 1000 Greenville, S. C. Imperial Hotel	WHBQ 1370 100 Memphis, Tenn. Brdstg. Sta. WNBQ, Inc., Hotel Claridge
WFBG 1310 100 Altoona, Pa. Gable Broadcasting Co., 12th Ave. & 13th St.	WHBU 1210 100 Anderson, Ind. Anderson Broadcasting Corp., Box 816
WFBL 1360 1000 Syracuse, N. Y. Onondaga Hotel	WHBY 1200 100 Green Bay, Wis. WHBY, Inc., Bellin Bldg.
WFBM 1230 1000 Indianapolis, Ind. 307 N. Pennsylvania St.	WHDF 1370 100 Calumet, Mich. Box 643
WFBR 1270 500 Baltimore, Md. 7 St. Paul St.	WHDH 830 1000 Boston, Mass. Matheson Radio Co., 62 Boyiston
WFDF 1310 100 Flint, Mich. Union Industrial Bldg.	WHDL 1420 100 Olean, N. Y. Exchange Natl. Bank Bldg.
WFEA 1340 500 Manchester, N. H. Carpenter Hotel	WHEB 740 250 Portsmouth, N. H. Box 522, 39 Congress St.
WFIL 560 1000 Philadelphia, Pa. WFIL Broadcasting Co., 801 Market	WHEC 1430 500 Rochester, N. Y. WHEC, Inc., 40 Franklin St.
WFLA 620 1000 Clearwater, Fla. Box 119	WHEF 1500 100 Kosciusko, Miss. Box 631
WFMD 900 500 Frederick, Md. Francis Scott Key Hotel	WHFC 1420 100 Cicero, Ill. WHFC, Inc., 6138 W. Cermak Road
WGAL 1500 100 Lancaster, Pa. WGAL, Inc., 8 W. King St.	WHIO 1260 1000 Dayton, Ohio 39 S. Ludlow St.
WGAR 1450 500 Cleveland, Ohio WGAR Broadcasting Co., Hotel Statler	WHIS 1410 250 Bluefield, W. Va. Bland St.
WGBB 1210 100 Freeport, N. Y. H. H. Carman, 64 S. Grove St.	WHJB 620 250 Greensburg, Pa. Penn-Albert Hotel, 128 Pa. Ave.
WGBF 630 500 Evansville, Ind. 519 Vine St.	WHK 1390 1000 Cleveland, Ohio 1311 Terminal Tower
WGBI 880 500 Scranton, Pa. 1000 Wyoming Ave.	WHN 1010 1000 New York, N. Y. 1540 Broadway
WGCM 1210 100 Gulfport, Miss. Great Southern Golf Club, Box 207	WHO 1000 50000 Des Moines, Iowa Central Brdstg. Co., 914 Walnut St.
WGES 1360 500 Chicago, Ill. 4000 Washington Blvd.	WHOM 1450 250 Jersey City, N. J. 2870 Hudson Boulevard

NORTH AMERICAN B. C. STATIONS BY CALLS

	WHP 1430 500 Harrisburg, Pa. WHP, Inc., 216 Locust St.		WJR 750 50000 Detroit, Mich. WJR, Inc., Fisher Bldg.
	WIBA 1280 1000 Madison, Wis. 111 King St.		WJSV 1480 10000 Washington, D. C. Earle Building
	WIBG 970 100 Glenside, Pa. Seaboard Radio Brdcastg. Corp.		WJTL 1370 100 Atlanta, Ga. Atlanta Brdcastg. Co., Volunteer Life Bldg.
	WIBM 1370 100 Jackson, Mich. WIBM, Inc., 306 W. Michigan Ave.		WJW 1210 180 Akron, Ohio WJW, Inc., 41 S. High St.
	WIBU 1210 180 Poynette, Wis. Wm. C. Forrest, R. F. D. No. 3		WJZ 760 50000 New York, N. Y. 30 Rockefeller Plaza
	WIBW 580 1000 Topeka, Kans. 11th & Topeka Blvd.		WKAQ 1240 1000 San Juan, P. R. Radio Corp. of Puerto Rico, Box 1414
	WIBX 1200 100 Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg.		WKAR 1040 1800 East Lansing, Mich. Michigan State College
	WICC 600 500 Bridgeport, Conn. Stratfield Hotel		WKBB 1500 100 East Dubuque, Ill. Hotel Julien
	WIL 1200 100 St. Louis, Mo. Melbourne Hotel		WKBH 1380 1800 LaCrosse, Wis. WKBH, Inc., 409 Main St.
	WILL 890 250 Urbana, Ill. University of Illinois		WKBI 1420 100 Cicero, Ill. WKBI, Inc., 6138 W. Cermak Road
	WILM 1420 100 Wilmington, Del. 920 King St.		WKBN 570 500 Youngstown, Ohio 17 N. Champlon St.
	WIND 560 1000 Gary, Ind. 504 Broadway		WKBO 1200 100 Harrisburg, Pa. Penn Harris Hotel
	WINS 1180 1000 New York, N. Y. 114 E. 58th St., Hearst Radio, Inc.		WKBV 1500 100 Richmond, Ind. Knox Radio Corp., Box 308
	WIOD 1300 1000 Miami, Fla. News Tower, Boscayne Blvd.		WKBW 1480 5000 Buffalo, N. Y. Rand Bldg.
	WIP 610 1000 Philadelphia, Pa. Gimbel Bldg., 9th & Chestnut Sts.		WKBZ 1500 100 Muskegon, Mich. Occidental Hotel Bldg.
	WIRE 1400 500 Indianapolis, Ind. 540 N. Meridian St.		WKEU 1500 100 Griffin, Ga. Radio Station WKEU, 906 Hill St.
	WIS 1010 500 Columbia, S. C. Station WIS, Inc., Box 635		WKOK 1210 100 Sunbury, Pa. 1150 N Front St.
	WISN 1120 250 Milwaukee, Wis. 123 W. Michigan St., Hearst Radio, Inc.		WK 550 1000 Cincinnati, Ohio WKRC, Inc., Hotel Alms
	WJAC 1310 100 Johnstown, Pa. WJAC, Inc., Locust St.		WKY 900 1000 Oklahoma City, Okla. Plaza Court Bldg.
	WJAG 1060 1000 Norfolk, Neb. Norfolk Daily News		WKZO 590 1000 Kalamazoo, Mich. John E. Fetzer, Burdick Hotel
	WJAR 890 500 Providence, R. I. Outlet Co., Weybossett St.		WLAC 1479 5000 Nashville, Tenn. WLAC, Inc., 2421 West End Ave.
	WJAS 1290 1000 Pittsburgh, Pa. Chamber of Commerce Bldg.		WLAP 1420 100 Lexington, Ky. Main & Esplanade
	WJAX 900 1000 Jacksonville, Fla. City of Jacksonville		WLB 1250 1000 Minneapolis, Minn. University of Minnesota
	WJAY 610 500 Cleveland, Ohio 1224 Huron Road		WLBC 1310 100 Muncie, Ind. D. A. Burton, Anthony Bldg.
	WJBC 1200 100 Bloomington, Ill. Kaskaskia Broadcasting Co.		WLBK 1420 100 Kansas City, Kans. 901 N. 8th Street
	WJBK 1500 100 Detroit, Mich. 6559 Hamilton Ave.		WLBL 900 2500 Stevens Point, Wis. Fox Theater Bldg.
	WJBL 1200 100 Decatur, Ill. Gushard Bldg.		WLBZ 620 500 Bangor, Me. Maine Broadcasting Co., Inc., 100 Main
	WJBO 1420 100 Baton Rouge, La. 334 Florida Street		WLEU 1420 100 Erie, Pa. Commerce Building
	WJBR 1420 100 Gastonia, N. C. J. B. Roberts		WLLH 1370 100 Lowell, Mass. Merrimac Brdcastg. Co., Box D
	WJBW 1200 100 New Orleans, La. C. C. Carlson, Godechaux Bldg.		WLNH 1310 100 Laconia, N. H. 523 Main St.
	WJBY 1210 100 Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.		WLS 870 50000 Chicago, Ill. 1230 W. Washington Blvd.
	WJDX 1270 1000 Jackson, Miss. Lamar Life Bldg.		WLTH 1400 500 Brooklyn, N. Y. 105 2nd Ave., (N. Y. City)
	WJEJ 1210 100 Hagerstown, Md. Lovely Dame Bldg.		WLVA 1200 100 Lynchburg, Va. 915 Main St.
	WJIM 1210 100 Lansing, Mich. Capital City Brdcastg. Co.		WLW 700 500000 Cincinnati, Ohio 1329 Arlington St.
	WJJD 1130 20000 Chicago, Ill. WJJD, Inc., 201 N. Wells St.		WLWL 1100 5000 New York, N. Y. 415 W. 59th St.
	WJMS 1420 100 Ironwood, Mich. WJMS, Inc., St. James Hotel		WMAL 630 250 Washington, D. C. 712-11th St., N. W.

NORTH AMERICAN B. C. STATIONS BY CALLS

WMAQ 670 50000 Chicago, Ill. Merchandise Mart	WNRA 1420 100 Sheffield, Ala. P. O. Box 486.
WMAZ 1420 100 Springfield, Mass. WMAZ, Inc., 70 Chestnut St.	WNRI 1200 100 Newport, R. I. S. George Webb, 21 Bull St.
WMAZ 1180 1000 Macon, Ga. 211 Cotton Ave.	WNYC 810 1000 New York, N. Y. Centre & Duane Sts.
WMBC 1420 100 Detroit, Mich. 7310 Woodward Ave.	WOAI 1190 50000 San Antonio, Texas Southland Industries, Inc., 1038 Navarro
WMBD 1440 500 Peoria, Ill. 114 N. Madison St.	WOC 1370 100 Davenport, Iowa 1002 Brady Street
WMBG 1210 100 Richmond, Va. 914 W. Broad St.	WOCL 1210 50 Jamestown, N. Y. A. E. Newton, 840 N. Main St.
WMBH 1420 100 Joplin, Mo. 1334 Roosevelt St.	WOI 640 5000 Ames, Iowa Iowa State College
WMBI 1080 5000 Chicago, Ill. 153 Institute Place	WOKO 1430 500 Albany, N. Y. WOKO, Inc., Hotel Ten Eyck
WMBO 1310 100 Auburn, N. Y. WMBO, Inc., Metcalf Bldg.	WOL 1310 100 Washington, D. C. American Broadcasting Co., Annapolis Hotel
WMBQ 1500 100 Brooklyn, N. Y. Metropolitan Brdcastg. Corp., 95 Leonard St.	WOMT 1210 100 Manitowoc, Wis. Francis M. Kadow, Box 326
WMBR 1370 100 Jacksonville, Fla. F. J. Reynolds, Carling Hotel	WOOD 1270 500 Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.
WMC 780 1000 Memphis, Tenn. WMC, Inc., Hotel Gayoso	WOPI 1500 100 Bristol, Tenn. 22nd & State Sts.
WMCA 570 500 New York, N. Y. 1697 Broadway	WOR 710 50000 Newark, N. J. 147 Market St.
WMEX 1500 100 Boston, Mass. The Northern Corp., Hotel Manger	WORC 1280 500 Worcester, Mass. Alfred F. Kleindienst, 60 Franklin St.
WMFD 1370 100 Wilmington, N. C. Hotel Wilmington	WORK 1320 1000 York, Pa. York Broadcasting Co., 15 S. Beaver St.
WMFF 1310 100 Plattsburg, N. Y. Hotel Cumberland	WOS 630 500 Jefferson City, Mo. State Highway Control, Capitol Bldg.
WMFG 1210 100 Hibbing, Minn. Head of the Lakes Brdcastg. Co.	WOSU 570 750 Columbus, Ohio Ohio State University
WMFJ 1420 100 Daytona Beach, Fla. W. Wright Esch, 126 1/2 Magnolia Ave.	WOV 1130 1000 New York, N. Y. 132 West 43rd St.
WMFN 1210 100 Clarksdale, Miss. Attala Brdcastg. Corp., Box 180	WOW 590 1000 Omaha, Neb. Woodmen of the World, 4th and Farnam
WMFO 1370 100 Decatur, Ala. James R. Doss, Jr.	WOWO 1160 10000 Fort Wayne, Ind. Main Auto Supply Co., 213 W. Main
WMFR 1200 100 High Point, N. C. Hart & Nelson	WPAD 1420 100 Paducah, Ky. 2201 Broadway
WMIMN 890 500 Fairmount, W. Va. West Va. Brdcastg. Corp., 208 Main St.	WPAR 1420 100 Parkersburg, W. Va. Chancellor Hotel
WMPC 1200 100 Lapeer, Mich. 81 Liberty St.	WPAX 1210 250 Thomasville, Ga. H. Wimpy, 135 E. Jackson St.
WMT 600 1000 Cedar Rapids, Iowa Hotel Montrose	WPAY 1370 100 Portsmouth, Ohio Veebee Corp.
WNAC 1230 1000 Boston, Mass. 21 Brookline Ave.	WPEN 920 250 Philadelphia, Pa. 22nd & Walnut Sts.
WNAD 1010 1000 Norman, Okla. University of Oklahoma	WPFB 1370 100 Hattiesburg, Miss. Forest Brdcastg. Co., 512 Main St.
WNAX 570 1000 Yankton, S. D. House of Gurney, Inc., 2nd and Capital St.	WPG 1100 5000 Atlantic City, N. J. City of Atlantic City, Convention Hall
WNBC 1380 250 New Britain, Conn. Wm. J. Sanders, 147 Main St.	WPHR 880 500 Petersburg, Va. WLBG, Inc., Medical Arts Bldg.
WNBF 1500 100 Binghamton, N. Y. Arlington Hotel	WPRO 630 250 Providence, R. I. Cherry & Webb Brdcastg. Co., 15 Chestnut
WNBH 1310 100 New Bedford, Mass. 251 Union St.	WPRP 1420 100 Ponce, P. R. Julio M. Conesa
WNBR 1430 500 Memphis, Tenn. Memphis Broadcasting Co., Hotel DeVoy	WPTF 680 5000 Raleigh, N. C. 324 Fayetteville St.
WNBX 1260 1000 Springfield, Vt. WNBX Broadcasting Corp., 39 Main St.	WQAM 560 1000 Miami, Fla. Miami Brdcastg. Co., Inc, 327 N. E. 1st Ave.
WNBZ 1290 100 Saranac Lake, N. Y. Smith & Mace, 70 Broadway	WQAN 880 250 Scranton, Pa. Scranton Times, 149 Penn Ave.
WNEL 1290 500 San Juan, P. R. Box 1252	WQBC 1360 1000 Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg
WNEW 1250 1000 Newark, N. J. Wodaam Corp., 100 Shipman St.	WQDM 1370 100 St. Albans, Vt. 42 N. Main St.
WNOX 560 1000 Knoxville, Tenn. WNOX, Inc., Hotel Andrew Johnson	WRAK 1370 100 Williamsport, Pa. WRAK, Inc., 244 W. 4th St.

NORTH AMERICAN B. C. STATIONS BY CALLS

WRWA 1310 100 Reading, Pa. Reading Broadcasting Co., 533 Penn St.	WSVA 550 500 Harrisonburg, Va. Main & Market Sts.
WRAX 920 250 Philadelphia, Pa. WRAX Broadcasting Co., 217 S. Broad St.	WSVS 1370 50 Buffalo, N. Y. 666 E. Delavan Ave.
WRBL 1200 100 Columbus, Ga. Royal Theatre Bldg.	WSYV 1500 100 Rutland, Vt. Philip Weiss Music Co., Box 328
WRC 950 500 Washington, D. C. National Press Bldg.	WSYR 570 250 Syracuse, N. Y. 315 Starret-Syracuse Bldg.
WRDO 1370 100 Augusta, Me. WRDO, Inc., Augusta House	WTAD 900 500 Quincy, Ill. Illinois Brdcastg. Corp., State and 6th
WRDW 1500 100 Augusta, Ga. Augusta Brdcastg. Co., 309 8th St.	WTAG 580 500 Worcester, Mass. 18 Franklin St.
WREC 600 1000 Memphis, Tenn. WREC, Inc., Hotel Peabody	WTAL 1310 100 Tallahassee, Fla. Florida Capitol Broadcasters, Inc.
WREN 1220 1009 Lawrence, Kans. WREN Brdcastg. Co., 7th and Vermont St.	WTAM 1070 50000 Cleveland, Ohio 1367 E. 6th St.
WRGA 1509 100 Rome, Ga. 10 Third Ave.	WTAQ 1330 1000 Eau Claire, Wis. WHBY Inc., Hotel Eau Claire
WRJN 1370 100 Racine, Wis. Racine Broadcasting Corp., Hotel Racine	WTAR 780 500 Norfolk, Va. WTAR Radio Corp., Bank of Com. Bldg.
WROK 1410 500 Rockford, Ill. 109 So. Water St.	WTAW 1120 500 College Station, Tex. Agricultural and Mechanical College
WROL 1310 100 Knoxville, Tenn. Stuart Broadcasting Corp., 524 S. Gay	WTAX 1210 100 Springfield, Ill. WTAX, Inc., 416 E. Capitol Ave.
WRR 1280 500 Dallas, Texas City of Dallas, Southland Life Bldg.	WTBO 800 250 Cumberland, Md. Associated Brdcastg. Corp., Box 794
WRUF 830 5000 Gainesville, Fla. State University	WTCN 1250 1000 Minneapolis, Minn. Wesley Temple Bldg.
WRVA 1110 5000 Richmond, Va. Larus & Bros Co., Inc., 22nd and Gary St.	WTEL 1310 100 Philadelphia, Pa. 3701 N. Broad Street
WSAI 1330 1000 Cincinnati, Ohio Crosley Radio Corp., 1829 Arlington	WTFI 1450 500 Athens, Ga. Liberty Brdcastg. Co., 133 E. Washington St.
WSAJ 1310 100 Grove City, Pa. Grove City College, 418 Poplar St.	WTIC 1040 50000 Hartford, Conn. 26 Grove St.
WSAN 1440 500 Allentown, Pa. WSAN, Inc., 39 10th St.	WTJS 1310 100 Jackson, Tenn. Sun Publishing Co., Sun Bldg.
WSAR 1450 250 Fall River, Mass. Academy of Music Bldg.	WTMJ 620 1000 Milwaukee, Wis. The Journal Co., 333 W. State St.
WSAY 1210 100 Rochester, N. Y. Brown Radio Service, 192 S. Goodman St.	WTMV 1500 100 East St. Louis, Ill. Mississippi Valley Brdcastg. Co.
WSAZ 1190 1000 Huntington, W. Va. WSAZ, Inc., P. O. Box 729	WTNJ 1280 500 Trenton, N. J. Trenton Brdcastg. Co., Stacy Trent Hotel
WSB 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St	WTOC 1260 1000 Savannah, Ga. Savannah Brdcastg. Co., De Soto Hotel
WSBC 1210 100 Chicago, Ill. Gene T. Dyer, 1258 S. Michigan Ave.	WTRC 1310 100 Elkhart, Ind. Truth Pub. Co., Inc., Hotel Elkhart
WSBT 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.	WVFW 1400 500 Brooklyn, N. Y. Paramount Brdcastg. Co., 4 & 5 Court Sq
WSFA 1410 500 Montgomery, Ala. Jefferson Davis Hotel	WWAE 1200 100 Hammond, Ind. 402 Hammond Bldg.
WSGN 1310 100 Birmingham, Ala. Tutwiler Hotel	WWC 1420 1000 Spartanburg, S. C. Virgil V. Evans, Ravenal & Avant St.
WSIX 1210 100 Springfield, Tenn. 638 Tire & Vulcanizing Co.	WWJ 920 1000 Detroit, Mich. Evening News Assn., 616 Lafayette Blvd.
WSJS 1310 100 Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall	WWL 850 10000 New Orleans, La. Loyola University, Roosevelt Hotel
WSM 650 50000 Nashville, Tenn. 301-7th Ave. No.	WWNC 570 1000 Asheville, N. C. Citizen Brdcastg. Co., Inc., Flatiron Bldg
WSMB 1320 500 New Orleans, La. WSMB, Inc., Maison Blanche Bldg.	WWRL 1500 100 Woodside, N. Y. 41-30-58th St.
WSMK 1380 200 Dayton, Ohio WSMK, Inc., 121 N. Main St.	WWSW 1500 100 Pittsburgh, Pa. Hotel Keystone
WSOC 1210 100 Charlotte, N. C. WSOC, Inc., 516 W. Trade St.	WWVA 1160 5000 Wheeling, W. Va. Hawley Bldg.
WSPA 920 1000 Spartanburg, S. C. Virgil V. Evans, Ravenel and Avant St.	WXYZ 1240 1000 Detroit, Mich. Macabees Bldg.
WSPD 1340 1000 Toledo, Ohio Toledo Broadcasting Co., 505 Jefferson	WXBBS 1530 1000 Waterbury, Conn. 61 Leavenworth St., Amer. Republican, Inc
WSUI 880 900 Iowa City, Iowa State University of Iowa	W2XR 1550 1000 Long Island City, N. Y. Scientific Brdcastg. Serv., 41 Park Row, N. Y.
WSUN 620 1000 St. Petersburg, Fla. Recreation Pier	W6XAI 1550 1000 Bakersfield, Calif. Pioneer Mercantile Co.

NORTH AMERICAN B. C. STATIONS BY CALLS

W9XBY 1530 1000 Kansas City, Mo. 106 West 14th St.	XELO 1110 10000 Piedras Negras, Coah. Piedras Negras Brdstg. Co.
XEA 1060 500 Guadalajara, Jal. Edificio Assad., Pedro Loza 28	XEMA 1080 50 Tampico, Tams. Manuel M. Pier, Aretsans 10
XEAA 920 200 Mexicali, B. C. P. O. Box 714 (Calexico, Calif.)	XEMO 860 5000 Tijuana, L. C. P. O. Box 202, San Diego, Calif.
XEAF 990 500 Nogales, Son. Francisco G. Elias, Hotel Central	XEMX 1280 12 Mexico City, D. F. Alfonzo T. Avales, Salamanca 87
XEAI 1240 100 Mexico City, D. F. Carlos Gonzales Caballero, Insurgentes 366	XEMZ 1210 250 Tijuana, L. C. Ave. "D" No. 542
XEAJ 1310 15 Oaxaca, Oax. Enrique M. Crihuela, 3a, Gurrero 18	XEN 710 1000 Mexico City, D. F. Cerveceria Modelo Ave. Juarez 77
XEAM 750 7.5 Matamoros, Tams. Edificio Banco Longoria	XENT 910 65000 Nuevo Laredo, Tams. Box 410, Laredo, Texas
XEAO 560 250 Mexicali, B. C. Luis L. Castro, C. Altamirano 156	XEOK 760 250 Tijuana, L. C. Carlos de la Sierra, Calle Sa 312
XEAS 1160 100 Saltillo, Coah. "La Voz del Comercio en Saltillo"	XEOX 640 500 Saltillo, Coah. Victoria No. 4, Altos
XEAW 960 50000 Reynosa, Tams. Apartado No. 6	XEP 840 500 Mexico City, D. F. Cia Difusora de Mexico S. A., Rembrandt 11
XEAZ 1420 7 Guanajuato, Gto. Antonio Zavala, Pasco de la Presa 85	XEPN 590 50000 Piedras Negras, Coah. Piedras Negras Brdstg. Co., Box 360
XEB 1030 10000 Mexico City, D. F. El Buen Tono, S. A., Apdo. 79-44	XES 990 250 Tampico, Tams. Fernando Sada, Box 309
XEC 1160 30 Tijuana, B. C. Luis F. Enciso, Teatro Zaragoza	XET 690 500 Monterrey, N. L. P. O. Box 203, Hidalgo
XECW 1310 10 Mexico City, D. F. Maria Elena Bravode Cordero Ave. Juarez 104	XETB 1310 125 Torreon, Coah. P. O. Box 225
XED 1155 2500 Guadalajara, Jal. Cia. Radiofonografica. Apdo. 197	XETF 1220 12 Veracruz, Ver. Jose M. Lopez, Independencia 28
XEE 1210 50 Durango, Dgo. 20 de Nov. 112 (Apdo. 148)	XETH 1210 100 Puebla, Pue. Ramon Huerta G., Calle 17, Oriente 11
XEFA 1180 500 Mexico City, D. F. Eduardo Limon Segui, Mediterraneo 236	XETW 820 500 Mexico City, D. F. Rafael M. Pena, Ave. 16 de Sep. 83
XEFB 1420 100 Monterrey, N. L. Jesus Quintanilla, P. O. Box 317	XEU 1010 250 Veracruz, Ver. Fernando Pazos Sosa, Independencia 98
XEFC 560 100 Merida, Yuc. J. Molina Font, Calle 59, 517	XEW 890 50000 Mexico City, D. F. P. O. Box 2516
XEFE 850 250 Laredo, Tams. R. T. Carranza, Km. 4 Carretera Laredo Mt.	XEWZ 1150 100 Mexico City, D. F. P. O. Box 291
XEFJ 1440 250 Chihuahua, Chih. Feliciano Lopez Isles, Ap. 157	XEX 1310 125 Monterrey, N. L. L. F. Petit Jean, P. O. Box 10.
XEFJ 1230 100 Monterrey, N. L. R. Junco de la Vega, P. O. Box 186	XEY 1080 10 Merida, Yuc. Calle 64, Numero 568
XEFL 1150 500 Tijuana, L. C. (P. O. Box 6, San Diego, Cal.)	XEYZ 780 10000 Mexico City, D. F. Angel M. Diez, Ave. Juarez 48
XEFO 940 5000 Mexico City, D. F. Reforma No. 137	XEZ 630 500 Merida, Yuc. Jorge L. Falomeques, Estamores Ctd 214
XEFV 1210 100 Jaurez, Chih. Cordova & Prieto, Ave. Ferrocarril 104	XEZZ 1370 100 San Luis Potosi, SLP Emilio Delgado R. Ave. Chicosein 32
XEFW 1310 250 Tampico, Tams. J. E. Martinez, Salvador Diaz Miron 6	XFA 1310 5 Aguascalientes, Ags. A. Postal 92
XEFZ 1370 100 Mexico City, D. F. Manuel Zetina, Cedro & Nonoalco No. 344	XFB 1270 250 Jalapa, Ver. Gobierno del Estado de Veracruz
XEG 1270 200 Ensenada, B. C. Juan C. Chavez	XFC 810 350 Aguascalientes, Ags. Gobierno del Estado de Aguascalientes
XEH 1150 250 Monterrey, N. L. Tarnava y Cia, P. O. Box 147	XFD 1340 350 Jalapa, Ver. Gobierno Estado de Vera Cruz
XEI 1370 125 Morelia, Mich. Carlos Gutierrez M., F. I. Madero 845	XFO 940 5000 Mexico City, D. F. Nat. Rev. Party, Ave. Morelos 110
XEJ 1020 1000 Juarez, Chih. Juan G. Buttner, P. O. Box 111	XFX 610 1000 Mexico City, D. F. Secretaria de Educacion Publica
XEK 990 100 Mexico City, D. F. Arturo Martinez, Jalapa No. 51	YNLF 1275 20 Managua, Nicaragua
XEKL 1240 500 Leon, Guan. 5 de Mayo 26	YNLP 1230 100 Managua, Nicaragua
XEL 1100 250 Mexico City, D. F. Calzada del Rosel No. 1	YNVA 950 30 Managua, Nicaragua

In the January issue, the Short Wave Stations will be given. The foreign broadcast stations will appear again in February.

AROUND *the* CLOCK on the SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJA DJN DJQ VPD VK2ME W3XAL W8XAL W8XX	DJA DJN DJQ VPD VK2ME W3XAL W8XAL W9XF	GSB GSD W9XF	GSB GSD PCJ VK3LR RV15	DJB DJN DJQ JVM PCJ RV15 VK2ME VK3LR	DJB DJN HVJ JVM LKJ1 PCJ RV15 VK2ME VK3LR VK3ME YDA YDB	DJB DJN JVM LKJ1 RNE RV15 VK2ME VK3LR W8XAL YDA YDB	GSF GSG JVM LKJ1 PCJ RNE Pont. RV15 VK2ME VK3LR W8XAL YDA YDB	DJA DJB DJE DJN GSB GSG PCJ PHI Pont. RNE VK2ME W1XX W8XX YDA YDB	DJA DJB DJE DJN GSB GSE GSF GSG HAS3 PCJ PHI Pont. RNE W1XX W8XX	DJA DJB DJE DJN GSB GSE GSF GSG HVJ PCJ PHI Pont. RNE W1XX W8XAL W8XX W9XAA	DJA DJB DJE DJN GSB GSE GSF GSG Pont. W1XX W8XX W8XAL W8XX W9XAA

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJC DJD EAQ GSB GSD GSI GSL ORK Pont. W1XX W2XE W3XAU W8XAL W8XX W9XAA	DJC DJD EAQ GSB GSD GSI GSL ORK Pont. W1XX W3XAU W8XX W9XAA	DJC DJD GSB GSD GSI GSL I2RO W1XX W2XAD W3XAU W8XX W9XAA	CJRO CJRX DJC DJD GSB GSD GSI GSA GSL I2RO Pont. W1XX W2XE W3XAL W3XAU W8XAL W8XX W9XAA	CJRO CJRX CT1AA DJA DJC DJN GSA GSB GSC HBL GSL HJ1ABB Pont. PRF5 W3XAL W8XX W9XAA XEBT YV3RC	CJRO CJRX CT1AA DJA DJC DJN GSA GSB GSC HBL GSL HJ1ABB Pont. PRF5 W3XAL W8XX W9XAA XEBT YV3RC	CJRO CJRX COCO CRCX CT1AA DJA DJN GSA GSC HC2RL HJ1ABB HJ1ABG HP5B W1XAL W1XX W2XAF I2RO W3XAU W8XX W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX COCO CRCX DJA DJN GSA GSC HC2RL HJ1ABB HJ1ABG HP5B TIEP W1XAL W1XX W2XAF I2RO W3XAU W8XX W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CEC CJRO CJRX COCOD COCH CRCX DJA DJN DJC DJN HIX HJ1ABB HP5B TIEP W1XAL W1XX W2XAF I2RO W3XAU W8XX W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX COCOD COCH CRCX DJA DJN DJN HCJB HC2ET HC2RL HIX HJ1ABB HP5B OAX4D PRADO TGWA TIGPH W1XX W2XAF W3XAU W8XX W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX COCOD CRCX DJC DJN GSC GSD GSL HC2RL HC2ET HIX HJ1ABB HP5B OAX4D PRADO TGWA TIGX W1XX W2XAF W3XAU W8XX W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX COCOD CRCX H44ABL TGWA TGIX W1XX W3XAU W8XX W9XAA W9XF

BEST SHORTWAVE BROADCASTING STATIONS BY CALL LETTERS

Frequencies are given in megacycles and the time is Eastern Standard.

- CEC, Santiago, Chile, 10.670. Dally, 2000-2100; Thu., Sun. 2030-2100.
- CJRO, Winnipeg, Man. 6.150. Sun. 1500-2200; other days, 2000-2400
- CJRX, Winnipeg, Man., 11.720. Sun., 1500-2200; other days, 2000-2400.
- COCD, Havana, Cuba, 6.130. Sun., 1700-2300; weekdays, 1100-2400.
- COCH, Havana, Cuba, 9.428. Dally 1000-1200; 1600-1800; 2100-2200.
- COCO, Havana, Cuba, 6.010. Dally 1600-1900.
- CO9GC, Santiago, Cuba, 6.150. Sun., 0000-0200.
- CO9JQ, Camaguey, Cuba, 8.665.
- CO9WR, Sancti-Spiritus, Cuba, 11.800.
- CRCX, Bowmanville, Ont., 6.090. Dally 1830-2330.
- CTIAA, Lisbon, Portugal, 9.600. Tues., Thurs., Sat., 1630-1900.
- DJA, Berlin, Germany, 9.560, 0030-0215; 0800-1130; 1705-2115.
- DJB, Berlin, Germany, 15.200. 0345-0715; 0800-1130.
- DJC, Berlin, Germany, 6.020. 1200-1630; 1700-2245.
- DJD, Berlin, Germany, 11.770. 1200-1630.
- DJE, Berlin, Germany, 17.760. 0800-1130.
- DJN, Berlin, Germany, 9.540. 0030-0215; 0345-0715; 1705-2245.
- DJQ, Berlin, Germany, 15.280. 0030-0215
- EAQ, Madrid, Spain, 9.862. 1730-1900; Sat., 1200-1400.
- GSA, Daventry, England, 6.050. 1600-1745
- GSB, Daventry, England, 9.510. 0215-0415; 0900-1200; 1215-1545; 1600-1745; 1800-2000
- GSC, Daventry, England, 9.580. 1600-1745; 1800-2000; 2200-2300
- GSD, Daventry, England, 11.750. 0215-0415; 1215-1545; 2200-2300
- GSE, Daventry, England, 11.860. 0900-1200
- GSF, Daventry, England, 15.140. 0700-0845; 0900-1200
- GSg, Daventry, England, 17.790. 0700-0845; 0900-1200
- GSI, Daventry, England, 15.260. 1215-1545
- GSL, Daventry, England, 6.110. 1215-1545; 1800-2000; 2200-2300
- HASS, Budapest, Hungary, 15.370. Sun. 0900-1000.
- HAT4, Budapest, Hungary, 9.125. Sun., 1800-1900.
- HLB, Geneva, Switz., 9.595. Sat., 1730-1815.
- HBP, Geneva, Switz., 7.797. Sat., 1730-1815.
- HCJB, Quito, Ecuador, 8.214. Dally exc. Mon., 1915-2315.
- HC2ET, Guayaquil, Ecuador, 4.600. Wed., Sat., 2130-2300.
- HC2RL, Guayaquil, Ecuador, 6.659. Tues., 2115-2315; Sun., 1745-1945.
- HIB, San Pedro de Macoris, D. R., 6.800. 1600-2030.
- HIX, Santo Domingo, D. R., 5.980. Tues., Fri., 2000-2200.
- HIZ, Santo Domingo, D. R., 6.315. Sat., 2300-0100; dally exc. Sun., 1700-1800.
- HJIABB, Barranquilla, Colombia, 6.447. 1700-2200.
- HJIABD, Cartagena, Colombia. 7.280. 1945-2115.
- HJIABE, Cartagena, Colombia, 6.115. Sun. at 0400; Mon., 2200-2400; Wed., 2000-2200.
- HJIABG, Barranquilla, Colombia, 6.042. 1900-2200.
- HJIABH, Cienaga, Colombia, 6.300. Tues., Fri., 1945-2200.
- HJ2ABC, Cucuta, Colombia, 5.975. Dally exc. Sun., 1800-2100.
- HJ3ABD, Bogota, Colombia, 7.390. 1930-2300.
- HJ3ABF, Bogota, Colombia, 6.200. 1900-2300.
- HJ3ABH, Bogota, Colombia, 6.012. Sun., 1600-2100; other days, 1800-2300.
- HJ4ABA, Medellin, Colombia, 11.720. 1130-1300; 1830-2230.
- HJ4ABC, Pereira, Colombia, 6.230. 1900-2000.
- HJ4ABD, Medellin, Colombia, 5.770. 1800-2300.
- HJ4ABE, Medellin, Colombia, 5.900. 1900-2300.
- HJ4ABL, Manizales, Colombia, 6.100. Sat., 2300-2430.
- HJ5ABD, Cali, Colombia, 6.490. Thurs., Sat., Sun. 1900-2100
- HP5B, Panama City, Panama, 6.030. 1900-2200.
- HP5J, Panama City, Panama, 9.590. 1930-2200.
- HRN, Tegucigalpa, Honduras, 5.875. Dally 2000-2200.
- HVJ, Vatican City, 5.970. Sun., 0500-0530. 15.120. Tests late afternoons.
- I2RO, Rome, Italy, 9.630. Mon., Wed., Fri., 1800-1930.
- I2RO, Rome, Italy, 11.810. Dally, 1430-1700.
- JVM, Nazaki, Japan, 10.740. Dally, 0400-0745.
- LKJ1, Jeloy, Norway, 9.540. 0500-0800.
- OAX4D, Lima, Peru, 5.780. Wed., Sat., 2100-2330.
- ORK, Brussels, Belgium, 10.330. 1200-1400.
- PCJ, Hilversum, Netherlands, 15.220. Sun., 0730-1000; Tues. 0300-0600; Wed., 0700-1100.
- PHI, Hilversum, Netherlands, 11.730. 0830-1100, dally exc. Tues. and Wed.
- PRADO, Riobamba, Ecuador, 6.620. Thurs., 2100-2330.
- PRF5, Rio de Janeiro, Brazil, 9.505. 1700-1745.
- RNE, Moscow, USSR, 12.000. Dally, 1400-1800; Sun., 0700-1100; Wed., 0600-0700.
- RV15, Khabarovsk, USSR., 4.273. Dally, 0300-0900.
- TGWA, Guatemala City, 6.000. Weekdays, 1930-2030; 2200-2400
- TG1X, Guatemala City, 9.450. Weekdays, 1930-2030; 2200-2400
- TG2X, Guatemala City, 5.940. Dally 2100-2200.
- TIEP, San Jose, Costa Rica, 6.710. 1900-2200.
- TIGPE, San Jose, Costa Rica. 5.820. 1900-2200.
- TIPG, San Jose, Costa Rica, 6.385. Weekdays, 1730-2230.
- TIRCC, San Jose, Costa Rica. 6.550. Dally, 1800-1900. Sun., Thurs., 2000-2100; Sun., 1100-1300.
- VK2ME, Sydney, Australia, 9.585. Sun., 0000-0200; 0430-0830: 0900-1100.
- VK3LR, Melbourne, Australia, 9.580. Mon., Tues., Wed., Thurs., 0315-0730; Fri., 2230-0200; Sat., 0500-0730.
- VK3ME, Melbourne, Australia, 9.503. Wed., Thurs., Fri., Sat., 0500-0700.
- VPD, Suva, Fiji, 13.045. 0030-0130.
- VUB, Bombay, India, 9.565. Sun., near 7 a.m.
- W1XAL, Boston, Mass., 11.790. Tues., Thurs., Sun., 1830-2030.
- W1XK, Millis, Mass., 9.570. 0700-0100.
- W2XAD, Schenectady, N. Y.
- W2XAF, Schenectady, N. Y., 5.930. 1840-2300.
- W2XE, Wayne, N. J., 6.120. 2000-2300. 11.80; 1730-1900. 15.270: 1000-1700.
- W3XAL, Bound Brook, N. J., 6.100: Mon., Wed., Sat., 1700- 0100. 17.780: Tues., Thurs., Fri. 1500-1600.
- W3XAU, Philadelphia, Pa., 9.590: 1200-2000.
- W3XL, Bound Brook, N. J., 17.310. 1100-1700
- W4XB, Miami, Fla., 6.040. Sun., 1130-1500; 1700-2400. Other days, 1200-1400; 1730-2400.
- W8XAL, Cincinnati, Ohio, 6.060. Sun., 0700-1900; 2200-0130. Other days, 0630-1900; 2200-0200.
- W8XK, Pittsburgh, Pa., 6.140: 2100-0100. 11.870: 1700-2100. 15.210: 0900-1900. 21.540: 0700-0900.
- W9XF, Chicago, Ill., 6.100: Monday to Friday, 0100-0200; 2100-2200; Sat., 0100-0200; Sun., 0100-0230; 2100-2200.
- XEBT, Mexico City, D. F., 6.000. 1200-2400.
- XECR, Mexico City, D. F., 7.380: Sun., 1800-1900.
- YDA, Pandjonepriok, N. E. I., 11.000. 0530-1100.
- YDB, Soerabaya, N. E. I., 4.470. 0530-1100.
- YVQ, Maracay, Venez., 6.672. Sat., 2000-2100.
- YV2RC, Caracas, Venezuela, 6.112. 1700-2145.
- YV3RC, Caracas, Venezuela, 6.150. 1700-2200.
- YV4RC, Caracas, Venezuela, 6.375. 1630-2230.
- YV5RMO, Maracaibo, Venezuela,

5.850. Daily exc. Sun., 1700-2130.
 YV6RV, Valencia, Venezuela, 6.520; 1700-2200.
 Pontouse, France, 11.720.
 1800-2100; 2200-2400.
 11.880: 1015-1315; 1400-1700.
 15.250:

THE MONTH'S CHANGES IN STATION DATA

NEW		
1160	XEAS	Salttillo, Coah.
1200	.....	San Diego, Calif.
1210	WSAY	Rochester, N. Y.
1370	.....	Evansville, Ind.
1370	.....	Virginia, Minn.
1420	WJBR	Gastonia, N. C.
1440	HP50	Colon, Panama
POWER		
640	XEOX	Salttillo, Coah., 250 to 500
920	WAAF	Chicago, Ill., 500 to 1000
1060	XEA	Guadalajara, Jal., 125 to 500
1310	WLBC	Muncie, Ind., 50 to 100
1310	WTRC	Elkhart, Ind., 50 to 100
1450	KIEM	Eureka, Calif., 100 to 500

FREQUENCIES		
680	RDN	San Salvador, E. S., from 706
1210	WGCM	Gulfport, Miss., from 1120
1450	KIEM	Eureka, Calif., from 1210

LOCATION		
1420	WNRA	Sheffield, Ala., from Muscle Shoals, Ala.

RE-INSTATED		
1150	XEFL	Tijuana, L. C.
1300	WAML	Lauret, Miss.

DELETED		
1240	XELA	Salttillo, Coah.
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STATEMENT of the ownership, management, circulation, etc., required by the Act of Congress of August 24, 1912, of Radio Index, published monthly except July and August, at Cleveland, Ohio, for Oct. 1, 1935.

State of Ohio, County of Ashtabula, ss. Before me, a Notary Public in and for the State and county aforesaid, personally appeared Fred C. Butler, who, having been duly sworn according to law, deposes and says that he is the Editor of the Radio Index, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 411. Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher The Radex Press, Inc., 326 Penton Bldg., Cleveland, Ohio. Editor Fred C. Butler, Conneaut, Ohio. Managing Editor None. Business Managers, None.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.) The Radex Press, Inc., 326 Penton Building, Cleveland, Ohio. Fred C. Butler, Conneaut, Ohio.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the six months preceding the date shown above is (This information is required from daily publications only.)

FRED C. BUTLER, Editor.

Sworn to and subscribed before me this 4th day of October, 1935.

(Seal) C. VERN CARR, Notary Public.
 My commission expires Feb. 21, 1939.



Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am surely making good money now. Maybe my story will show you the way to larger earnings also.

I THOUGHT RADIO WAS A PLAYTHING

But Now My Eyes Are Opened, and I'm Making Over \$40.00 a Week!

\$40 a week! Man alive, a year ago I thought anyone making so much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job: a salary as small as the job.

If you had told me that twelve months later I would be making \$40 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees to make good money.

One day I picked up a magazine and an ad attracted me because it seemed to fit my case. It said, "I will show you how to start a spare time or full time Radio service business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it's all about."

I wrote in and within a few days received a 64-page book telling about the opportunities in Radio, how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets. It would have sounded too good to be true if the promises had not been backed up by nearly 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream. I started to take their course and soon I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$40 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines. Broadcasting Stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aviation Radio, Television, Short Wave, Automobile and Police Radio, Loud Speaker Systems are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I never had a chance and will never have one because I have no pull or a good education!"

Friend—you may not be as bad off as I was—

but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book, "Rich Rewards in Radio." It won't cost you anything except a postage stamp. It shows you a lot of things which I don't believe you know now about Radio—a lot of facts and figures on the opportunities in this new, fast-growing field. Where the jobs are, what they pay, how to get ready for them. Beginners as well as experienced men are making as much as \$500 to \$1,500 a year more as a result of N.R.I. training. And at the same time they send the book "Rich Rewards in Radio" they'll send you, without any cost or obligation, a Free Lesson to prove that their training is easy, practical, fascinating. The lesson they send "Radio Receiving Troubles—the Cause and Remedy" is valuable. And when you see how simple this lesson is to understand you'll know why many fellows with less than a grammar school education have mastered N.R.I. training and are now making good money as Radio Experts.

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J. E. SMITH, President,
National Radio Institute
Dept. 5NO, Washington, D. C.

Dear Mr. Smith:

Without obligation, send me the sample lesson and your free book about spare time and full time Radio opportunities, and how I can train for them at home in spare time. (Please print plainly)

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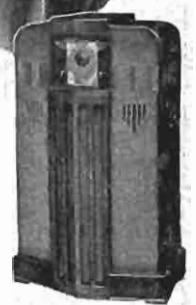


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