

THE JANUARY 1932

RADIO INDEX

WHAT'S ON THE AIR TONIGHT?



25^c

**Many Changes in Mexico
How to Buy a Radio Set
The Short Wave Stations of
North America**

No. 55

N. S. E.

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JANUARY 1, 1932



RADIO IN DEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER
Editor and Publisher



EIGHTH YEAR

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NUMBER 55

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She has a mellow voice of low register.

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BUYING and SERVICING A SET

MOST people discuss, examine and test, radio sets with the same precise seriousness they exhibit when purchasing a fine motor car, yet they will spend equally as much for winter clothing with hardly a passing thought. A radio set no longer is an expensive luxury, but its selection becomes a matter of importance. And in spite of this caution many persons fail to procure sets that give satisfactory performance. Consequently, we sometimes hear opinionated and unjust tirades on the fallacies of radio. Much of this trouble can be avoided, but it remains for radio dealers and servicemen to set their own houses in order.

The prospective purchaser of a radio set, if he is a novice, is soon befuddled when he wanders past the many radio stores while in search of a new receiver. He sees the brilliant signs that loudly proclaim to passersby that one may become the lucky owner of a fine 7-tube "Staticette" radio set for the sum of only \$46.95; on another store front he is told that the same set sells within for \$56.50; then, when finally at home after a weary afternoon, he reads in the evening paper that a local house-furnishing store has arranged for a carload of 7-tube "Staticettes" to be sold at the sensational price of \$36.75, and only five dollars down! Then, to climax the uncertainty, the bewildered prospect picks up a magazine and reads that the manufacturer's price is set at \$56.50, and the usual ballyhoo states that the 7-tube "Staticette" is the world's newest model.

High-Pressure Salesmanship

The next day our brave adventurer goes forth to buy a radio. He soon falls an easy victim to a high-pressure radio salesperson; he rushes home with a gorgeous masterpiece, complete with five of the latest tubes, guaranteed by the salesman to do the work of eight. The name of the set really does not matter; it cost only \$29.95. Then follows tragedy—an evening of squawks and howls, while double-voiced broadcasters talk huskily from deep down in a well that seems filled with many com-

Helpful Hints by
B. Francis Dashiell

peting announcers and musicians. The next day our chagrined and exasperated purchaser again returns homeward after a hopeless argument with the bland and alibi-oiled salesman. So, as a result, this home now has a radio that is neither good-for-nothing nor pleasant to use—it is never turned on.

Then, too, there is another picture that should be painted—that of the owner of a perfect set, who, for some reason or other, has been compelled to send it out to a serviceman for minor repairs or adjustments. Perhaps a clicking sound was due to some loose connection, and a drop of solder would be the magic wand to make the set as good as new. But the unknown repairman was ambitious; he needed money, and was a brother-under-the-skin to the high-power radio salesperson.

When the Set Came Back

When the receiver at last went home it had been given three new tubes, a replacement in its powerpack, adjustments to the speaker, and perhaps the shaft and dial had been rebalanced. And the cost of this highly technical work was twenty dollars! As soon as the receiver was connected, it howled, rattled in the speaker, brought in old stations at new dial settings, used only half of the scale, and otherwise appeared generally ruined. The indignant owner, after a strenuously warm session with the serviceman, decided nothing further could be done about it, and returned home sadly to gaze upon a perfectly useless radio set.

We all know how automobile owners have experienced similar feelings, for many valuable motor cars have gone into the shops for adjustments, only to come out with valves and timing tinkered with so as to ruin the smooth purr of the engine, with grease and marks over the body, and generally maladjusted throughout. The same situation exists with radio in one or two spots in

every locality. Some inexperienced persons working as expert servicemen, just as blacksmiths become garagemen over night during the first days of motor cars, give the black eye to the legitimate servicing business. Few people, unfortunately, are in a position to judge the abilities of the repairmen they select, and there is no law or regulation making mandatory the registration and licensing of men permitted to work on valuable radio and automotive apparatus.

The Ideal Set

Since buying a radio set is a matter of great moment in most homes, everyone wishes to have a receiver that gives a fine tone and has excellent reproduction. It must have high selectivity and be able to pick up stations from afar, free of noise and static, neat to look upon, and lastly, it must be reasonably priced. While these ideals are best kept in mind when buying a radio, it must be remembered that the radio millennium has not yet been reached!

Unless a purchaser knows just what he wants, either from observation of other receivers that are known to give excellent results, or practical radio experience, it is well to follow the old adage about "making haste slowly." The uninitiated purchaser might do well to examine the sets displayed on the floors of old and trusted stores; it is not always necessary to go to unknown radio dealers. Radio sets are classed as furniture and are handled as such by many large stores. A concern known by its honesty and integrity will give a fair deal, and do everything within its power to make satisfied customers. There is too much competition in radio these days to permit the accruing of permanent profits through unfair salesmanship. The writer recommends, however, when possible, to deal with established radio stores where the personnel is well versed in radio, but one should avoid the "fly-by-night" sales and outlet houses that can never make good their exaggerated claims.

One of the most confusing situations to confront radio purchasers is the matter of price cutting on similar receivers in different stores. When an established price is set by the maker for

a certain model, then dealers are bound to sell at that price. But the thought that seldom occurs to the buyer is that these sets of equal numbers of tubes selling at different prices are not similar receivers. They are different models which have appeared at various times from the factories of the makers. The older the model, the lower the price, yet on the surface the sets seem to be one and all the same. Manufacturers make several types of sets within similar cabinets, and the newest have improvements and refinements not to be found in previously issued receivers. How to



Ann Leaf, the charming and talented organist, has found the ideal studio costume—so much more comfy than formals.

guard against this form of window display advertising deception by certain dealers is a matter that cannot be prescribed for; the purchaser must rely on the advice of the more honest and conscientious dealer, or by personal examination and study of the characteristics of the set he desires to buy.

No one can advise what set is best to purchase. It is always safe to select one that is being nationally advertised, and known to be tried and tested in the fire of time and public opinion. If the dealer actually is behind the product he handles,

(Continued on page 28)

PUZZLES IN RADIO CALLS

A Challenge to Keen Wits

THAT Puzzle No. 1 in November made a lot of readers work pretty hard for their free copy.

"The first one last month sure was a dandy," comments Herbert Bryan, 909 W. Hughitt St., Iron Mountain, Mich. "The most tedious I ever encountered," is Walter Reck's opinion of the same puzzle. His address is 2110 Loth St., Cincinnati, Ohio. "Three o'clock in the morning found me almost smothered under reams of scratch paper," he adds. "Would like to try solving more of that type." "Anyone that works this nightmare, deserves a year's subscription," opines T. J. Johnson, Bowlegs, Okla.

"Your puzzles are always varied, unusual and extremely interesting," thinks Lieut. Gordon R. Jackson, 420 North Pasadena Ave., Pasadena, Calif. "Please continue them."

Answers for December

Following are the calls used in No. 1 by Earl R. Roberts: By some oversight we failed to mention the most important part of Mr. Roberts' puzzle which was that the last column was to spell a state. How many noticed that the word "Jalisco" appeared in the last column?

K
WS
WMC
WRBJ
CMBA
CMBL
WKBI
KLS
ZC
O

In No. 2 the following calls appeared in order: WOI- WNAC-WOR-WORC-WLEY -WOL -KFYO -NAA -WEBR -WASH-KONO-KIT-WHIS-XEV-WGN-CHCA - TIC - XET - XETO - KROW -WELL - WHA - WHAT - WIL - WILL - WEW-XED-WENR-VAS-RUS-CJRM-KORE-CKY-KYW-WILM. Thirty-five calls in all; how many did you miss?

No. 3, by T. J. Johnson, was correctly filled in as below:

C
CMX
CMKEX
CHWCKFC
WHKLLX
KOMO
C

Well December is past. Better luck in January. Get the answers to the three problems which follow to us by January 20th and receive your February RADEX or a map free. Your subscription will be extended one issue instead if request is made. Unless otherwise mentioned, all calls are from the main index of the December issue of the RADEX. Corrections are made in the index in January after the puzzle page is compiled and hence may not agree with the definitions given.

January Puzzles

Number 1: Fill in the squares vertically from the top down, with the call letters of eight stations, and the names of two states will appear horizontally from left to right.

W	□	W	□	W	□	C	□
□	□	□	□	□	□	□	□
□	A	□	D	□	F	□	C
□	□	□	□	□	□	□	□

Number 2: Here is an elimination puzzle: How many stations, listed in the Index by Call Letters in the December RADEX, can not be made from the letters in the following sentence, using any letter only as many times as it appears in the sentence? "Can the quick brown fox jump over a few lazy black dogs?" Send in a list of the stations which cannot be made from this sentence.

Number 3: A cleverly designed and symmetrical cross-call puzzle is presented by George Raba, Stevensville, Mich. There are no reverse calls used, but Mr. Raba has taken a few from the list of World stations published in the October RADEX. All others will be found in the regular index of the December issue.

WDSU 1250	WFOX 1400	WHK 1390	WJJD 1130
New Orleans, La.	Brooklyn, N. Y.	Cleveland, Ohio	Mooseheart, Ill.
WDZ 1070	WGAL 1310	WHN 1010	WJKS 1360
Tuscola, Ill.	Lancaster, Pa.	New York City	Gary, Ind.
WEAF 660	WGAR 1450	WHO 1000	WJMS 1420
New York City	Cleveland, Ohio	Des Moines, Ia.	Ironwood, Mich.
WEAI 1270	WGBB 1210	WHOM 1450	WJR 750
Ithaca, N. Y.	Freeport, N. Y.	Jersey City, N. J.	WJTV 750
WEAN 780	WGCB 1430	WHP 1430	Detroit, Mich.
Providence, R. I.	Memphis, Tenn.	Harrisburg, Pa.	WJSV 1460
WEAO 570	WGBF 630	WIAS 1420	Alexandria, Va.
Columbus, Ohio	Evansville, Ind.	Ottumwa, Iowa	WJTL 1370
WEBC 1290	WGBI 880	WIBA 1280	Atlanta, Ga.
Superior, Wis.	Scranton, Pa.	Madison, Wis.	WJW 1210
WEBQ 1210	WGBS 1180	WIBG 930	Mansfield, Ohio
Harrisburg, Ill.	New York City	Elkins Park, Pa.	WJZ 760
WEBR 1310	WGCM 1210	WIBM 1370	New York City
Buffalo, N. Y.	Gulfpport, Miss.	Jackson, Mich.	WKAQ 890
WEDC 1210	WGCP 1250	WIBO 560	San Juan, P. R.
Chicago, Ill.	Newark, N. J.	Chicago, Ill.	WKEAR 1040
WEDH 1420	WGEO 1000	WIBU 1210	E. Lansing, Mich.
Erle, Pa.	Chicago, Ill.	Poynette, Wis.	WKAU 1310
WEEI 590	WGES 1360	WIBW 580	Laconia, N. H.
Boston, Mass.	WGH 1310	Topeka, Kansas	WKBW 1310
WEUU 830	Newp't News, Va.	WIBX 1200	Joliet, Ill.
Reading, Pa.	WGL 1370	Utica, N. Y.	WKBK 1310
WEHC 1350	Ft. Wayne, Ind.	WICC 600	Birmingham, Ala.
WEHS 1420	WGN 720	Bridgeport, Conn	WKBK 1400
Cicero, Ill.	Chicago, Ill.	WIL 1200	Indianapolis, Ind.
WELK 1370	WGR 550	St. Louis, Mo.	WKBH 1380
Philadelphia, Pa.	Buffalo, N. Y.	WILL 890	La Crosse, Wis.
WELL 1420	WGST 890	Urbana, Ill.	WKBI 1420
Battle C'k, Mich.	Atlanta, Ga.	WILM 1420	Cicero, Ill.
WENR 870	WGY 790	Wilmington, Del.	WKBN 570
Chicago, Ill.	Scheneec'dy, N. Y.	WIOD 1300	Youngstown, O.
WEPS 1200	WHA 940	Miami, Fla.	WKBQ 1450
Worcester, Mass.	Madison, Wis.	WIP 610	Jersey City, N. J.
WEVD 1300	WHAD 1120	Philadelphia, Pa.	WKBK 1310
New York City	Milwaukee, Wis.	WIS 1010	Galesburg, Ill.
WEW 760	WHAM 1150	Columbia, S. C.	WKBV 1500
St. Louis, Mo.	Rochester, N. Y.	WISN 1120	Connersville, Ind.
WEXL 1310	WHAP 1300	Milwaukee, Wis.	WKBW 1480
Royal Oak, Mich.	New York City	WJAC 1310	Buffalo, N. Y.
WFAA 800	WHAS 820	Johnstown, Pa.	WKBZ 1500
Dallas, Texas	Louisville, Ky.	WJAG 1060	Ludington, Mich.
WFAM 1200	WHAT 1310	Norfolk, Nebr.	WKCJ 1200
So. Bend, Ind.	Philadelphia, Pa.	WJAK 1310	Lancaster, Pa.
WFAN 610	WHAT 1310	Elkhart, Ind.	WKRC 550
Philadelphia, Pa.	HAZ 1300	WJAR 890	Cincinnati, Ohio
WFBC 1200	Troy, N. Y.	Providence, R. I.	WKY 900
Knoxville, Tenn	WBB 860	WJAS 1290	Oklahoma City
WFBE 1200	Kansas City, Mo.	Pittsburgh, Pa.	WKZO 590
Cincinnati, Ohio	WHBC 1200	WJAX 900	Kalamazoo, Mich.
WFBG 1310	Canton, Ohio	Jacksonville, Fla.	WLAC 1470
Altoona, Pa.	WHBD 1370	WJAY 610	Nashville, Tenn.
WFBL 1360	Mt. Orab, Ohio	Cleveland, Ohio	WLAP 1010
Syracuse, N. Y.	WHBF 1210	WJBC 1200	Louisville, Ky.
WFBM 1230	Rock Island, Ill.	La Salle, Ill.	WLB 1250
Indianapolis, Ind.	WHBL 1410	WJBI 1210	St. Paul, Minn.
WFBF 1270	Sheboygan, Wis.	Red Bank, N. J.	WLBC 1310
Baltimore, Md.	WHBQ 1370	WJBK 1370	Muncie, Ind.
WFDF 1310	Memphis, Tenn.	Detroit, Mich.	WLBK 1420
Flint, Mich.	WHBU 1210	WJBL 1200	Kansas City, Kas.
WFDV 1310	Anderson, Ind.	Decatur, Ill.	WLBG 1200
Rome, Ga.	WHBY 1200	WJBO 1420	Ettrick, Va.
WFDW 1420	Green Bay, Wis.	New Orleans, La.	WLBL 900
Anniston, Ala.	WHDF 1370	WJBT 770	Ellis, Wis.
WFEA 1430	Calumet, Mich.	Chicago, Ill.	WLBW 1260
Manchester, N.H.	WHDH 830	WJBU 1210	Oil City, Pa.
WFI 560	Boston, Mass	Lewisburg, Pa.	WLBX 1500
Philadelphia, Pa.	WHEC 1430	WJBW 1200	L. I. City, N. Y.
WFIW 940	Rochester, N. Y.	New Orleans, La.	WLBZ 620
Hopkinsville, Ky.	WHFC 1420	Gadsden, Ala.	Bangor, Maine
WFLA 620	Cicero, Ill.	WJBY 1210	WLCI 1210
Clearwater, Fla.	WHIS 1410	Jackson, Miss.	Ithaca, N. Y.
	Bluefield, W. Va.		WLEY 1370
			Lexington, Mass.

WLIT 560 Philadelphia, Pa.	WNJ 1450 Newark, N. J.	WQDM 1370 St. Albans, Vt.	WSPD 1340 Toledo, Ohio
WLOE 1500 Boston, Mass.	WNOX 560 Knoxville, Tenn.	WQDX 1210 Thomasville, Ga.	WSUI 880 Iowa City, Iowa
WLS 870 Chicago, Ill.	WNYC 570 New York City	WRAK 1370 Williamsport, Pa.	WSUN 620 St. Petersburg, Fla.
WLTH 1400 Brooklyn, N. Y.	WOAJ 1190 San Antonio, Tex.	WRAM 1370 Wilmington, N.C.	WSVS 1370 Buffalo, N. Y.
WLVA 1370 Lynchburg, Va.	WOAX 1280 Trenton, N. J.	WRAW 1310 Reading, Pa.	WSYB 1500 Rutland, Vt.
WLW 700 Cincinnati, Ohio	WOBU 580 Charleston, W. Va.	WRAX 1020 Philadelphia, Pa.	WSYR 570 Syracuse, N. Y.
WLWL 1100 New York City	WOC 1000 Davenport, Iowa	WRBJ 1370 Hattiesburg, Miss	WTAD 1440 Quincy, Ill.
WMAC 570 Syracuse, N. Y.	WOCL 1210 Jamestown, N. Y.	WRBL 1200 Columbus, Ga.	WTAG 580 Worcester, Mass.
WMAK 1040 Buffalo, N. Y.	WODA 1250 Paterson, N. J.	WRBQ 1210 Greenville, Miss.	WTAM 1070 Cleveland, Ohio
WMAL 630 Washington, D.C.	WODX 1410 Mobile, Ala.	WRBK 1410 Roanoke, Va.	WTAQ 1330 Eau Claire, Wis.
WMAQ 670 Chicago, Ill.	WOI 640 Ames, Iowa	WRC 950 Washington, D.C.	WTAR 780 Norfolk, Va.
WMAZ 1180 Macon, Ga.	WOKO 1430 Albany, N. Y.	WRDO 1370 Augusta, Maine	WTAW 1120 College Sta., Tex.
WMBA 1500 Newport, R. I.	WOL 1310 Washington, D.C.	WRDW 1500 Augusta, Ga.	WTAX 1210 Springfield, Ill.
WMBC 1420 Detroit, Mich.	WOMT 1210 Manitowoc, Wis.	WREC 600 Memphis, Tenn.	WTBO 1420 Cumberland, Md.
WMBD 1440 Peoria Hghts., Ill.	WOOD 1270 Gr. Rapids, Mich	WREN 1220 Lawrence, Kans.	WTEL 1310 Philadelphia, Pa.
WMBG 1210 Richmond, Va.	WOPI 1500 Bristol, Tenn.	WRHM 1250 Minneapolis, Minn.	WTFI 1450 Toccoa, Ga.
WMBH 1420 Joplin, Mo.	WOQ 1300 Kansas City, Mo.	WRJN 1370 Racine, Wis.	WTIC 680-1060 Hartford, Conn.
WMBI 1080 Chicago, Ill.	WOR 710 Newark, N. J.	WRNY 1010 New York City	WTJS 1310 Jackson, Tenn.
WMBO 1310 Auburn, N. Y.	WORC 1200 Worcester, Mass.	WROL 1310 Knoxville, Tenn.	WTMJ 620 Milwaukee, Wis.
WMBQ 1500 Brooklyn, N. Y.	WOS 630 Jeff's'n City, Mo.	WRR 1280 Dallas, Texas	WTOC 1260 Savannah, Ga.
WMBR 1370 Tampa, Fla.	WOV 1130 New York City	WRUF 830 Gainesville, Fla.	WTSL 1310 Laurel, Miss.
WMC 780 Memphis, Tenn.	WOW 590 Omaha, Nebr.	WRVA 1110 Richmond, Va.	WWAE 1200 Hammond, Ind.
WMCA 570 New York City	WOWO 1160 Ft. Wayne, Ind.	WSAJ 1330 Cincinnati, Ohio	WWJ 920 Detroit, Mich.
WMIL 1500 Brooklyn, N. Y.	WPAD 1420 Paducah, Ky.	WSAJ 1310 Grove City, Pa.	WWL 850 New Orleans, La.
WMMN 890 Fairmont, W. Va.	WPAP 1010 New York City	WSAN 1440 Allentown, Pa.	WWNC 570 Asheville, N. C.
WMPC 1500 Lapeer, Mich.	WPAW 1210 Pawtucket, R. I.	WSAR 1450 Fall River, Mass.	WWRL 1500 Woodside, N. Y.
WMRJ 1210 Jamaica, N. Y.	WPCC 560 Chicago, Ill.	WSAZ 580 Hunt'gton, W. Va.	WWSW 1500 Pittsburgh, Pa.
WMSG 1350 New York City	WPCH 810 New York City	WSB 740 Atlanta, Ga.	WWVA 1160 Wheeling, W. Va.
WMT 600 Waterloo, Iowa	WPEN 1500 Philadelphia, Pa.	WSBC 1210 Chicago, Ill.	WXYZ 1240 Detroit, Mich.
WNAAC 1230 Boston, Mass.	WPG 1100 Atl'ntic City, N.J.	WSBT 1230 South Bend, Ind.	XEA 1000 Guad'ljara, Mex.
WNAD 1010 Norman, Okla.	WPOE 1370 Patchogue, N. Y.	WSEN 1210 Columbus, Ohio	XEB 1030 Mexico City
WNAX 570 Yankton, S. D.	WPOR 780 Norfolk, Va.	WSFA 1410 Montgomery, Ala.	XEC 1000 Toluca, Mexico
WNEF 1500 Bingh'm't'n, N. Y.	WPRO 1210 Providence, R. I.	WSIX 1210 Springfield, Tenn.	XED 965 Reynosa, Mexico
WNBH 1310 New B'd'd, Mass.	WPSC 1230 State College, Pa.	WSJS 1310 Winst.-Sal., N. C.	XEE 1000 Oaxaco, Mexico
WNBO 1200 Washington, Pa.	WPTF 680 Raleigh, N. C.	WSM 650 Nashville, Tenn.	XEFA 1250 Mexico City
WNBR 1430 Memphis, Tenn.	WQAM 560 Miami, Fla.	WSMB 1320 New Orleans, La.	XEFB 1270 Monterrey, Mex.
WNBW 1200 Carbondale, Pa.	WQAN 880 Scranton, Pa.	WSMK 1380 Dayton, Ohio	XEFC 1050 Merida, Mex.
WNBX 1200 Springfield, Vt.	WQAO 1010 New York City	WSOC 1210 Gastonia, N. C.	XEFD 1020 Tijuana, Mex.
WNBZ 1290 Sar'n'c L'ke, N. Y.	WQBC 1360 Vicksburg, Miss.	WSPA 1420 Spartanburg, S.C.	XEFE 1000 Laredo, Mexico

be called "the songbird of the South." That description has followed her name on every program since she first appeared professionally. It dates back to the time when Kate was about two hundred pounds easier on the scales and eighteen years younger.

One afternoon the Blue Devils of France thundered down the streets of Washington with snappy tread and clicking heels. As the band struck up a tune in the distance there was a crash in the Smith's back yard. A doll carriage was overturned and all the tea things shattered to bits on the stone flags. Suddenly a pair of chubby legs emerged from the debris, kicking heavenward. They righted themselves with disastrous results in the pansy bed. Then started on a run for the front gate.

It took some little effort for young Kate to propel her dimpled knees to the top of the gate. But like most determined women, she got there. She straightened her petticoat and the bow on top of her blonde curls. Her eyes shone.

When the blue ranks of the Frenchmen swung into view there was Kate to greet them. She was singing at the top of her voice "Oh, How I Hate to Get Up in the Morning."

The Frenchmen saluted with their eyes. It was great. Indulgent passers-by smiled on the plump youngster and murmured:

"Listen to that little songbird."

Years later when Kate was pulling out of the national capitol to make good in New York in that musical show "Honey-moon Lane," her mother called her back.

"What is it, Mother," inquired Kate.

"Don't forget, Kate," said her mother, Mrs. Charlotte Smith, "they always called you 'the little songbird' down here."

And that is how she came to be billed everywhere as "the songbird of the South." Although she never took a music lesson and cannot read a note. No longer little, she is still the kind of girl who likes to please her own or anybody else's mother. So the name has persisted through her appearances in vaudeville and such productions as



From left to right, Kate Smith. No wonder folks think "a lot of her."

"Flying High" during the six years of her professional career.

You'd never believe it, but Kate hates to be introduced in public and blushes when she has to take a bow. Makes her feel funny she says.

She gives a lot of credit to her manager, Ted Collins, vice-president of the Columbia Phonograph Company, who looks as good-natured as Kate herself.

"I owe a lot to Mr. Collins," says Kate. "And to Jack Miller, who plays my accompaniments. But, if course, if I had not had a good voice I would not have succeeded even with their help."

Those memory songs? Only two percent of Kate's audiences do not like them. The other ninety-eight raise the roof with their cries for more.

The most popular? "When You and I Were Young, Maggie," with "Silver Threads Among the Gold" as runner-up. That tuneful "Harvest Moon" takes third place.

If you think "Swanee River" is the most popular Dixie melody, you're greatly mistaken. There are thousands yearning for the Carolinas—moon, gal, and all.

TUBES and TUNING TROUBLES

Editor's Note

The diagnosis of radio troubles at long range is rather difficult unless we have the essential facts which must be considered. Our readers can assist us by giving complete details, especially, the exact style, model, number and make, of the receiver and tubes. Don't be afraid to tell us too much; we like to read your letters. Also, remember that the local "serviceman" has a distinct advantage over our "long-range prescribing" because he has the set before him, and, therefore, we are frequently compelled to recommend his services for making meter tests, voltage analyses, alterations, replacements, and general repairs. We spare no efforts to find the solution of your problems, and this service is free to the readers of RADEX who may choose to use it.

Tubes Are Antiques

My Fada eight-tube set tunes too broadly. I bought it in 1929 and it still has the original tubes. I have received over 400 stations, but now the receiver does not work as well as it used to. What shall I do?

This receiver appears to be about three years old, and few of the models of that day will tune as sharply as the newer and modern super-heterodynes. But, because of the age of the tubes, we are inclined to feel that they are much too old for further efficient operation. It is suggested that you have them tested and replaced with new ones. This will do much toward sharpening up the tuning of your set. Nowadays, however, station interference makes it well-nigh impossible to receive a distant station without some cross-talk interference, and this gives a set the appearance of having rather broad tuning facilities.

Perhaps you have too much aerial. About sixty feet in length should be sufficient. A small fixed condenser (.00025 microfarads capacity) in series with the aerial and the set should make the tuning less broad.

Changing Radiola's Power Tubes

I have a Radiola 30 receiver which has given good service, but I wish to replace the present -10 power tube with a -71A. How can I do this?

With Suggestions by The TECHNICAL EDITOR

When the -71A tube is plugged into the socket intended for the -10 power tube, the filament is overloaded by $2\frac{1}{2}$ volts, which is sufficient to burn out and destroy the tube. This voltage must be reduced before the -71A can be used in place of the -10 tube. Open one of the A leads to the filament lugs on the socket and insert a 25 ohm resistor in series with the circuit. This will permit approximately five volts on the filament of the -71A tube—its correct working voltage.

The plate of the -71 tube will, however, be connected to a higher plate voltage than necessary for its proper operation. There is no satisfactory arrangement whereby 135 volts may be picked off the powerpack. The higher voltage may make no difference for the plate feeds an output transformer which prevents the flow of direct current into the speaker windings. But heating of the -71A tube may result. The tube may be operated on 90 volts, and this source can be taken from the ninth binding post in the right-hand compartment (the one that connects to G of the -91 tube). Connect to the end of the output transformer opposite to the end of the same primary coil that connects to the plate of the -71A tube. Cut the present wire connecting the end of the primary coil and let it remain disconnected.

Additional Battery Speaker

I am anxious to attach an additional speaker, of the battery type, to my present electric set. How should I go about this?

A battery speaker, or magnetic type, may be attached to an electric set using the dynamic type of speaker in much the same manner as head-telephones are connected. Several articles have appeared in RADEX showing how these connections are made—follow the same method for your battery speaker. Or the speaker coil may be connected across the primary of the output transformer that feeds the voice coil of the dynamic speaker.

Hums and Howls

My Victor R-22 gives a low hum from the -27 detector tube when loud static or signals go through. I sometimes have to remove the tube to stop the noise. How can this annoyance be stopped?

This trouble, no doubt, may be classed as microphonic. When the -27 tube, or detector, is agitated either by external vibrations or internal current surges because of extremely powerful static outbursts or signal notes, it breaks into oscillation with resulting hums and howls. The tube should be covered with a metal screen which should be grounded. There is also a howl arrester that is sold by dealers, and when it is slipped down over the offending tube the howl usually ceases. Also, there is the real probability that the tube has served its purpose and may require replacing.

Those Variable-Mu Tubes

Is it practicable to change the -24 tubes in my Lyric set over to the new -35s?

You have not given the particular model number of your Lyric, but in this case we believe the change can be effected by using adapters made for the purpose. While there will be little gain in efficiency you may notice somewhat better selectivity. The change cannot injure the receiver. See the article in December RADEX which deals with the change in question.

An Additional Speaker

I have been using a battery set and have wires running about the house for a portable Baldwin speaker with horn. I now have a super-heterodyne set made by Montgomery Ward, it is a. c. operated, and has seven tubes and dynamic speaker. Can I continue to use my Baldwin horn around the house?

You cannot use the Baldwin speaker with your new a. c. set with the same degree of satisfaction as with the old battery receiver. The proper speaker to use with an a. c. set should have the same



The Paul Sisters, harmonizing team, who are heard with Phil Spitalny during the Tea Dansante programs. Julia is standing and Ruth is seated. (NBC-WEAF network, daily except Saturday and Sunday, 4:30 to 5:00 p.m., EST.)

characteristics as the dynamic speaker built in the receiver. Otherwise there will be distortion, since the two speakers are not matched, and this is more pronounced when using a horn type speaker. Of course, you can use the speaker, connected to the a. c. set as explained elsewhere in an answer to another question in this department.

Receiver Loses Volume

Can you tell me why it is that my Majestic receiver, model 25 chassis, loses its volume at least one-third within a few minutes after turning it on? Stations that are heard the first one or two minutes are lost later as the sound diminishes.

Such conditions are almost invariably due to faulty tubes. We suggest that you have each tube carefully tested by your dealer, paying especial attention to the power tubes and the rectifier. It takes some time for some makes of tubes to warm up and there may be a critical operating temperature in one or more of your tubes. When this point is reached reception is best, but as soon as the tube becomes too warm it loses sensitivity. This fault is not unknown. Then, too, a defective automatic volume control circuit frequently causes trouble such as you describe.

Aerial Too Long

My aerial is about 150 feet in length. I have a ground to a buried copper pipe, and this seems to work better than a ground to the water pipes. What is your opinion?

The aerial is entirely too long; it should be cut down to not more than 60 feet in length. This will, without question, give you better selectivity, but you may lose some volume on distant signals. Your ground is satisfactory, but in all cases a good water pipe ground is better than a buried ground, for the water pipes run about for miles underground. We do not understand your failure to obtain good results with the water pipe ground. Have you made sure the connections are mechanically and electrically perfect?

Fuses Blow Out

When my electric fuse blows out when my radio is switched on what causes it to do so?

There is a short circuit on the line and a sudden surge of amperage flows

through the wires. The capacity of the tiny lead wire in the fuse cannot stand the overloading, it becomes hot, and quickly melts, thus opening the circuit and saving the apparatus from destruction and damage. The fuse is a protective device. When it burns out because of a radio short circuit, one may look for trouble in the power transformer of the receiver, for this coil, the primary, is connected across the 110-volt power lines with a control switch in series with the connecting cord. The transformer should be tested for a ground or short circuit. Or there may be some trouble in the switch or some of the wiring of the 110-volt circuit.

Condenser Capacity

How may the layman determine the capacity of the large condensers in the radio set?

It is practically impossible for the layman to determine the capacity of the condensers in the set. A complicated mathematical formula is used, and it is necessary to know much about the construction of the condensers before applying the constants and factors of the formula. Otherwise, one must have certain meters and measuring devices in order to find the condenser capacity.

Loud Volume Uses More Current

Does a radio receiver use more current when the volume is turned all the way up to its loudest intensity?

When a radio set is turned up full strength it is doing more work than when it is turned down to a low tone. Work, of course, cannot be done without the expense of some form of energy, and in the case of a radio receiver, this energy is provided in the form of an electrical current. The set, therefore, consumes more current and is slightly more expensive to operate at full volume. The total consumption of current, even at full strength, is slight, and the additional expense may be considered almost negligible, unless you are using costly B batteries in a powerful battery receiver.

Short Circuits in Power Transformers

What is the result of a short circuit between some of the turns of wire in the
(Continued on page 30)

In the WIDE FIELD of RADIO

“The time has come . . .
to talk of many things”

WELL, here we are again in the regular monthly meeting of the RADEX Radio Club. The minutes of the previous meeting will be approved without reading and we will proceed to the discussion of new business.

Our readers will remember that we published last month an intimation of a shake-up in Mexico. Well, the list of Mexican stations furnished to the *Newark News* was evidently right and our hunch was wrong. We are now in receipt of an official list from the Mexican Government of broadcasting stations in that country and we find 14 Mexican stations now on 1000 kcs. Why so many of the Mexicans want to bunch together on this particular frequency is beyond us, but there they are and we are correcting our records accordingly.

Samuel F. Owens, 233 Roberts Ave., Glenside, Pa., has this to say: “Under a heading ‘Commission Swings Axe’ you delete WIBO, WPCC, WNJ, WHOM, WCHI, WJAZ and WMBA, yet you still list them in the index. Rather contradictory, is it not?” Unfortunately, action by the Commission isn’t always final. Most of these stations have appealed to the courts and secured injunctions pending hearings. Thus, while they are deleted according to the Commission’s records, they are still on the air and consequently are listed in the index.

Aerial Length Again

Mr. Owens has this to say about the length of aerials: “This business of shortening aerials is hokum. It was all right in the old days when sets weren’t so sharp, but with a present-day set, the more aerial the better. I’m using 280 feet now and have five-kc selectivity every place except on 1170. WCAU is only four miles from me. Can get 1160 and occasionally 1180. WOAI booms in. Just a little home-made super with automatic volume control. Eleven tubes in all, counting the extra rectifier for the speaker. A Jensen Imperial. Now have 492 stations with 435 verified, a nice

jump over last month. The verified list includes KGFJ, KPCB, KGAR, KXRO, etc. Received my verification from XEQ (received on 750) and they sent me a ten-spot (ten pesos, worth about five cents American).

Karl J. Halpern, 1435 Coney Island Ave., Brooklyn, N. Y., also disagrees with Max Plung about long aerials, and he ought to know, for Karl uses one 700 feet long and reports his reception as excellent.

“RADEX is right,” confirms Samuel F. Owens, 233 Roberts Ave., Glenside, Penna., “WFDV is on 1390 kcs. I picked them up and verified them on 1310, though they still use cards with 1370 on them.” And then, for fear we will think too much of ourselves, he adds: “Maybe you think there aren’t any mistakes in RADEX but I can find plenty. Just received my December issue this morning so haven’t had time to find them yet, but I’m going to think this thing through and see how much I can find wrong with it.” RADEX doesn’t profess to be



Red of hair and blue of voice, this decorative young woman is Columbia's latest find. A contralto, she answers to the name of Verne Burke. (Sundays, The Chicago Knights 6:00 to 6:30 EST.)

more than 99.9% right and we always welcome the pointing out of the other .1% by our readers. In fact we depend upon them to keep RADEX up to its standard.

Mr. Owens submits the following answers to other readers: "For Gordon H. Wightman, his station is XEB. For Virgil Engleman, his station is XEN. (While XEN's verification gives 711 kcs. as their frequency, they actually come in on 705.) Mr. Engleman heard the news report. Each item is separated by the sounding of the bell. They always announce their call in Spanish very slowly before signing off. Don't know what the idea of the train is."

Double Calls

"Why do several stations list two call letters for the same equipment, such as WABC-WBOQ, KYW-KFKX, etc.?" asks Howard Spies, 1217 Louisiana Ave., N. W., Canton, Ohio. Such doubling up of calls usually indicate two stations that have been merged. The extra call is sometimes retained, for what reasons we do not know unless it has some value as a basis for a second station if it is desired to start one later. C. M. Falconer suggests that we indicate these stations so our readers will not keep trying for a station that exists only as a call. We are following this suggestion and indicating by small letters, such as a, b, c, those stations which are really one.

"Why do you not give us the list of world stations in each issue?" is the query that comes from several of our readers. There are no changes from day to day in the world stations as there are in those in North America, or at least no central medium for ascertaining such changes. The list would therefore be just a duplication of the one in the previous edition and this seems an unnecessary use of good space. We will continue to give the world list at frequent intervals, first by locations and then by frequencies. The issues containing these lists should be marked by our readers and saved for ready reference. A complete new list is due this month from the International Bureau of the Telegraph Union at Berne, Switzerland. As soon as this list is received, it will be arranged for publication in the first issue thereafter.

A new re-allocation of wave lengths is under way that will affect all American stations on short waves. This will be as sweeping a readjustment as that of broadcasting stations in November, 1928. It will be published as soon as available. In the meantime we are publishing the present list as far as we have been able to secure it.

"May we inform you officially that we have adopted the RADEX map as the official map with which to determine airline distances from city to city?" writes A. W. Opper, Vice-Chairman of DX Qualifications of the Newark News Radio Club. "The RADEX map is considered by this committee as the most reliable map to determine these distances as a basis for awarding our 'Super-Ace Certificates.' Mounted on cardboard and nicely framed, your map is at all times hanging on the wall of the auditorium of the Club." The NNRC now has over 1000 members, divided into five grades, according to their records. To become a Super-Ace one must have 500 stations verified, including fifty 2000 miles or more distant. Meetings are held once a month during the DX season and the club has a page of its own every day in the *News*.

Some Kind Words

Dale C. Kellogg, R. D. 2, Norwalk, Ohio, takes exception to our slogan "Doubles the Pleasure of Radio." He says it tripled theirs! With his new Atwater Kent he has brought in 172 stations in six months, having at least one on every channel except 540, 1010, 1030 and 1380.

Says James S. Massey, 5927 Ridge Ave., Roxboro, Philadelphia: "Everyone says that your 'little book' is a great help in radio. I don't see why they call it a little book. Of course it is not a large, clumsy book, but that is not what makes a book big; it is what is in it. In this respect RADEX is truly the largest book of its kind."

Howard Spies, 1217 Louisiana Ave., N. W., Canton, Ohio, asks a hard one. "Can anything be done to eliminate interference between several stations on the same frequency? WSMB constantly interferes with WADC, both on 1320, although the latter is only twenty miles

away and twice as powerful as WSMB." We can imagine no device except a directional loop aerial that could possibly tune out or even reduce one station and not the other. "I am using a 'Claratone' wave trap, which is effective except on the local station which is only a mile distant," adds Mr. Spies. "On good nights I am able to get WCAU, three channels away, but the local is always faintly heard in the background."

"I have a Zenith Model 67 and lately there has been a buzzing sound which increases when the volume is turned down," complains Jos. Churray, Canonsburg, Pa. "I've checked over tubes and wires. Can you tell me what is wrong?" Before we can answer this or similar questions, we must know whether the noise is within the set or outside it. The first step, therefore, is to remove the ground and aerial wires. If the noise continues it is from the set; if it stops it is outside the set. We published an article entitled "Fighting Radio's Worst Enemy," in the April, 1931, RADEX No. 48, which should help in locating these troublesome noises.

A Few DX Tips

Ray E. Everly, 102 W. Washington St., Newton, Ill., contributes the following information: KMCS, 1120 kcs., Inglewood, Calif., will move to Los Angeles in January and have new G. E. equipment. KWEA, Shreveport, La., has a new short-wave station, W9XX, on 1604 kcs. Lannie Stewart, who was formerly at Siloam Springs, Ark., and Fort Smith, Ark., is Engineer. It verifies for ten cents. Following are all-night stations on the Pacific Coast: KMCS, KMTR, KFOX, KJBS and KGfJ.

"Was over to WPCH this afternoon," writes Karl J. Halpern, 1435 Coney Island Ave., Brooklyn, N. Y., "and spoke to the chief engineer. He said that you were misinformed about WPCH moving from 810 to 570. He says WPCH will not move even when WCCO gets 50,000 watts." We are putting WPCH back to 810 on this information.

Among the stations on whom the Commission swung the axe, was WIBR, Steubenville, Ohio. In a letter to C. S. Wells, 15 Academy St., Concord, N. H., W. E. Kelly, of the above station, says:

"In answer to your inquiry, we regret to inform you that we have already been put off the air by the Federal Radio Commission." We are accordingly deleting this station. In answer to the question by Roger F. Vore, Mr. Wells states that he has a Silver-Marshall S. W. Converter with which he is much pleased and he will be glad to write anyone interested in short waves. He is now experimenting with various types and makes of broadcast receivers.

Some months ago we deleted station KFQW, Seattle, Wash., in accordance with action taken by the Commission. Receiving many letters from readers that they were still hearing this station, we reinstated them. Now the Commission removes the call letters from their records and we are again deleting KFQW.



Lowell Thomas, President and Founder of the Tall Story Club. Chapters are being formed everywhere. Golfers, fishermen and DXers are barred.

Readers report they are still receiving WGM, Jeannette, Pa. Prosecution of this station is in the hands of the Department of Justice and trial will be held in Pittsburgh about December 8th.

Station XETF advises us they are now on 630 kcs. and that their slogan is "La Voz de Veracruz El Primer Puerto de Mexico." (The Voice of Veracruz, the Main Port of Mexico.)

Eugene Cole, Michigan College of Mining and Technology, Houghton, Mich., thinks the networks ought to add some stations to their chains from outlying districts instead of trying to get so many in the big centers. He says:

(Continued on page 29)

Intimate STORIES of the RADIO Great

Program Personalities
by "BETTY"

JOHAN W. HOLBROOK, suave young man who nightly switches the voices of celebrities in and out of some fifty million homes, went to work in the NBC studios one night not so long ago both surprised and cautious. He hoped and prayed that no harsh irritants would affect his own voice box, for on that particular day of days, before members of the American Academy of Arts and Letters, he had been presented the academy's annual gold medal for employing the best English before the microphone. He knew not only the King's English, said Hamlin Garland, award chairman, but eminently combined "English English and American English" as an example for the two continents. "My pleasure is exceeded only by my surprise," said Holbrook in reply to compliments on his voice and his taste in using it. "And, imagine," he added, as he relaxed in the studios later, "I once wanted to be a champion ski-jumper. This has been my lucky year. First, I am brought here from Boston for network announcing. Then I get this surprise. But luckiest of all, the young lady has said 'yes'." He introduced Katherine Renwick, petite NBC actress, formerly on the stage with Irene Bordoni and others. They met in the NBC studios and will be married soon.



Aileen Clark, a typically modern girl of the Middle West, is one of radio's newest stars. She rose to enjoy popular radio acclaim over night, after studying for years on slender resources and without family encouragement. Miss Clark is probably the only girl in radio who won a highly remunerative commercial contract within twenty-four hours after she took her original and only radio audition. Many of the radio stars of today have served months and even years of apprenticeship in the studios before obtaining a sponsor. On August 26, 1931, she obtained her momentous audition. On August 27th she signed a contract to appear exclusively on the Club Valspar program, broadcast each Saturday from 9:30 to 10:00 p.m., EST., over an NBC-WEAF network. Aileen is 24 years old. She was born in St. Louis, Mo., of parents without any marked artistic talents. At an early age, however, she recognized the merits of her own voice and soon became engrossed in vocal study. When she was 17 she made her debut with the St. Louis Symphony and gained enthusiastic comments from music critics and lovers. She was such a child then that her parents would not let her embark on a career away from St. Louis. Miss Clark was graduated from high school and entered Washington University, St. Louis, where she studied French, Spanish, Italian and German. One of St. Louis' patrons of music sponsored a



subscription to send Miss Clark to study in New York. The amount was not large and she had to earn her own way. For four years she sang in Chester Hale's ensemble at the Capitol Theatre, New York. Last summer she decided to take a fling at broadcasting, with triumphant results. Aileen is married and has a boy three years old. Her husband was a football player at Washington and Jefferson. They were childhood friends.



Howard Lanin, who conducts the Campbell Soup orchestra, began conducting when 17 years old, and since has waved the stick in ballrooms of Palm Beach, Bar Harbor, Pinehurst, Newport, London, Paris and Cannes. He was born in Philadelphia in 1898, and still lives there, commuting to New York every day. His father was a violinist, his mother a pianist and his eight brothers all musicians. Early indications gave rise to the belief that he would out-trumpet Gabriel, but he turned to the traps and drums and beat his way to international musical recognition. Howard made his first professional appearance when he was 11 years old and received 35 cents a night at a movie theatre: Lew White, now famous organist, was also an entertainer there. White struck for more money, Lanin followed; fifty cents was demanded and they won out. Howard landed in the Nixon Theatre, where he played for the first performance of Charlie Chaplin. There also was a sunburned youth with an unruly forelock

of hair, who chewed gum, twirled a lariat and cracked jokes. Howard shook hands with Will Rogers. An engagement at the Stone Harbor, N. J., Yacht Club started "the society maestro" on his way. He was 17 then. He first faced the "mike" at WDAR, now WLIT, of Philadelphia, in the days of crystal sets of 1921. Even then he pulled an average of 2,000 fan letters daily. Lanin reads detective stories for relaxation, drives a big automobile and hopes some day to live in Europe. He is 5 feet, 9½ inches tall; has black hair, dark brown eyes and a ruddy complexion. His build is stocky and he packs a punch in boxing. Lanin is married and has three children. His wife is his honest critic. She goes to first nights and comes home to tip him off to the hit tunes. You can hear Lanin on the Campbell Soup program four nights a week, Monday, Wednesday, Thursday and Friday, at 7:15-7:30 p.m., EST.



Betty Council broke into big league radio playing the role of a hard-boiled mountain woman in a dramatic production under pretext that she was a radio veteran of three years' experience. As a matter of fact it was the first time she had ever been before a microphone. It was just two years ago that Betty

bluffed her way past the portals of radio broadcasting, and since then has acted and played in many important radio programs. Her work in the Radio Guild and True Story productions has won her particular attention. When NBC inaugurated its Crime Prevention series, Miss Council starred in the inaugural dramatic playlet. She has also played dramatic parts with Peggy Winthrop over NBC networks. Previous to her radio debut, she appeared in stage work as understudy to the feminine lead in "The Trial of Mary Dugan." Her last appearance on Broadway was in "Scarlet Pages," in which she was understudy to Elsie Ferguson. Betty's husky Georgia drawl is now heard every Friday evening, when she is mistress of ceremonies on the Pond's Dance Program heard over NBC-WEAF network Fridays from 9:30 to 10:00 p.m., EST. Horseback riding and swimming are her favorite sports, but she describes herself as "a rather lazy Southern girl." She was born in Americus, Georgia, 21 years ago; is five feet seven inches tall, has naturally wavy brown hair and large hazel eyes.

"I Knew Them When—"

Those were the Good Old Days! When Freddie Rich played a rickety piano in an East Side nickelodeon; when Ben Bernie demonstrated fiddles in a New York department store; when Irene Beasley taught school; when Jacques Renard played violin for Pavlowa; when Tony Wons tended furnace; when Eddie Duchin was a pharmacist; when Noble Sissle was one-half of Sissle and Blake of "Shuffle Along;" when Kate Smith sang for the soldiers bound for "Over There;" when Morton Downey was fired from a job in an installment furniture store; when George Hall directed the orchestra for Fritzi Scheff at the old Palais Royale in New York; when Fred Berrens was noted in vaudeville for his female impersonation act; when Ben Alley worked as a road-paver in his native West Virginia; when the Mills Brothers entertained on the streets of Piqua, Ohio; when Bing Crosby clerked in a law office in Spokane, Wash. But they'll all take the present. Who wouldn't!

Voices from the Sky

LESS than five years ago radio telephone communication between a plane in the air and a station on the ground was regarded as a remarkable achievement of radio engineering. Now it is accepted as one of the commonplace features of air transport on most well organized lines.

American Airways, for example, equip all of their planes with two-way radio. Pilots talk back and forth with the ground during flights, periodically reporting their position, altitude, the weather and visibility, quite as a matter of course and think nothing of it.

This telephone service is an adjunct to the radio beacon signal, which guides the pilot on his flight between larger airports. It serves as a double check—keeps the ground force informed at all times as to the exact location of ships in the air and keeps the pilot informed as to the weather ahead.

The apparatus as used on American Airways' planes weighs about 200 pounds, a considerable item in airplane construction, but has come to be regarded as an essential part of the ship. Modern transport planes have built-in radio equipment and antennae as an integral feature.

Radio fans with short-wave receiving sets are accustomed to the familiar call-and-answer signals of the sky. Between New York and Boston, for instance, six planes are operated in each direction daily. New England short-wave listeners can pick up their receivers at almost any hour of the day and hear at fixed intervals a conversation to the following general effect:

"Boston to 9633. Come in, please."

"9633 to Boston. 125 north 5. Scattered clouds 5000 feet. Visibility unlimited."

"Boston to 9633. Okay."

Coming out of the still ether, this business-like greeting between land and air has a weird sound. The listener finds it hard to believe that "9633," a mere speck in the sky, is speeding along overhead somewhere at 110 miles an hour.

The orthodox position report is given "by the numbers." For this purpose an aviation strip map is used. Strip maps cover territory twenty miles wide on a straight line between two airports. They are divided into ten-mile squares, each numbered. When the pilot reports "125 north 5," he means he is passing over point 125 east of New York, five miles north of course. The ground operator can then make allowance for wind direction and figure exactly where the plane will be each minute until the next report comes in.

When there are several planes in the air at once, regular time intervals are assigned to each, but every pilot is constantly listening through his ear phones and can get into communication with the ground or any other ship at a moment's notice.

Two fixed antenna systems are supported on and above the wings. One is used for the beacon receiver, so that service need never be interrupted. The other is used for short-wave communication with the ground. A 12-volt storage battery of large capacity supplies all the energy required for transmitter and receivers.

High voltage for the receiver and the transmitter is obtained from separate dynamotors operating from the battery. The receiver dynamotor runs continuously. The transmitter dynamotor is started only when about to transmit.



"Singin' Sam, The Barbasol Man," one-man minstrel show. (CBS on Mondays, Wednesdays and Fridays at 8:15 EST.)

The short-wave apparatus is as able to function with the plane grounded as when aloft. Both pilot and co-pilot have individual headphones and transmitters as an added feature of safety and convenience.

Radio telephone communication has become such a common part of transport work on American Airways coast-to-coast system that pilots wonder how they ever managed to get along without it.

Some More Slogans

- CFCT The Mecca of Tourists.
- CFCY The Pioneer Radio Voice of Canada's Garden Province.
- CFQC The Hub City of the West.
- CFRB Just Plug In, Then Tune In.
- CHGS Holman's Guarantees Satisfaction.
- CHNS The Key Station of the Maritimes.
- CJCA The Sunniest Spot in Sunny Alberta.
- CHCD Canada's Western Gateway.
- CKCK The Queen City of the West.
- CKCO The Voice of Hamilton.
- CKMO The Tourist's Mecca of the Pacific.
- CKY Manitoba's Own Station.
- CMBS Majestic Radio Station.
- CMGF Sounds From Yumuri Valley.
- CMHC If You Hear the Koo of the Cuckoo, You Are in Tuinucu.
- CNRA Voice of the Maritimes.
- KBTM "The Voice of Crowley's Ridge."
- KFIU A Voice From the Far North.
- KFJU Fort Dodge, Iowa, Center of the State.
- KFJZ The Voice of Texas.
- KFPW "Fort Smith's Radio Station."
- KFXV Voice of the Grand Canyon at Flagstaff.
- KGBX The Foster Hall Station.
- KGHF The Voice of Pueblo.
- KGIR The Voice of Montana.
- KOCW The Friendly Station in a Friendly Town.
- KOH The Voice of Nevada.
- KRE Looking Through the Golden Gate.
- KSTP The Call of the North.
- KTSL The Reciprocal Station.
- KTW Hear Ye! Hear Ye! The Gospel.
- KUOA The Voice of the Ozarks.
- KYW The 24-Hour Station.
- WAAT The Voice of the Gate of the Garden State.
- WABZ The Radio Voice of Louisiana.
- WALR On the Main Street of America.
- WBBM World's Best Broadcast Medium.
- WBBZ Serving the Southern Half of Kansas and the Northern Half of Oklahoma.
- WBIG Where Business Is Good.
- WBZ The Broadcasting Station of New England.
- WCBA The Voice of the Lehigh Valley.
- WCBD Where God Rules Man Prospers.
- WCBM The Voice of Keith's.
- WCRW The Gold Coast Station.
- WELK The Voice of the Elks.
- WHFC The Voice of the West Towns.
- WIBA The Capital Times Station.
- WIBX The Gateway to the Adirondacks.
- WILM The Friendly Voice of Wilmington.
- WISN The News at Milwaukee.
- WJBW The Friendly Broadcasting Station.
- WJSV A Voice From the Heart of the Nation.
- WKBB The Voice of Joliet.
- WKBB Service to the Middle West.
- WKBJ The Voice of Western Michigan.
- WKJC Your Own Station.

WLAP Louisville's Own Station.
 WLBK Where Listeners Become Friends.
 WLBG The Voice of Southside Virginia.
 WLBL Wisconsin, Land of Beautiful Lakes.
 WLBY Radio Voice at Gateway of Long Island.
 WLEY The Lexington Air Station.
 WLIT Quaker City Siren.
 WMAZ Watch Mercer Attain Zenith.
 WMBD World's Most Beautiful Drive.
 WMBH Where Memories Bring Happiness.
 WMBI The West Point of Christian Service.
 WMBR Everything for Radio at Tampa.
 WMCA Where the White Way Begins.
 WMPC Where Many Preach Christ.
 WNBK The Voice of Triple Cities.
 WNBH The Gateway to Cape Cod.
 WNOX Smokey Mountain Station.
 WNYC Municipal Station of the City of New York.
 WOQ The Voice of Unity.
 WPAW The City of Diversified Industries.
 WPEN First Wireless School in America.
 WPSC The Voice of the Nittany Lion.
 WRAW The Schuylkill Valley Echo.
 WRHM Welcome Rosedale Hospital, Minneapolis.
 WRUF The Voice of Florida.
 WSAI The Gateway to Dixie.
 WSAN We Serve Allentown Nationally.
 WSBC World Storage Battery Station.
 WSM We Shield Millions.
 WSMB America's Most Interesting City.
 WSMK The Home of Aviation.
 WSUI The Old Gold Studio
 WSVS Watch Seneca Vocational School.
 WSYR The Voice of Central New York.
 WTAD The Voice of Agriculture.
 WTFI Telling Dixie About Everything.
 WWNC The Radio Voice of the Asheville Citizen.
 WWRL The Voice of Queens County.
 XER The Sunshine Station Between the Nations.
 XETA Radio Cultural.
 XETF La Voz de Vera Cruz.
 XEX Land of the Aztecs.

What the Listener Wants

LISTENER reaction is so quick in making itself known that the evils of broadcasting "are hurled into the very teeth of those who permit them to be committed."

Thus spoke John W. Elwood, NBC vice president, in a recent address in which he expounded what he calls "The Listener's Decalogue." It is Mr. Elwood's conviction that the evils of radio are so easily detected and so quickly reported as to be almost self-corrective. Sins of the broadcasters, he said, are visited not upon the third or fourth generations, but immediately upon those committing them.

Following are the ten points of the listener's credo Mr. Elwood expounds; how well the broadcasters, network and individual alike, would do to heed them to the letter.

1. I am the listener. I am the final

word in determination of the popularity of a radio program.

2. I speak not in self praise with too lengthy indulgence. I will listen to a reasonable amount of sales talk, but make it snappy.

3. Tell me not the same story again and yet again. I have no desire to memorize your stuff.

4. Use discretion and taste as to the character and timing of your message. Crash not in upon my uplifted mood inspired by noble music with barkings about your product.

5. Make your program high class whatever type it may be. Rather would I hear a first-class harmonica player than a third rate symphony orchestra.

6. Speak not in the tongue of the liar, neither use superlatives until I sicken.

7. Emit not wisecracks on important occasions, neither be solemn nor soggy at lissome moments.

8. Sell not shaving cream in the afternoon nor broadcast household hints at night.

9. Introduce not guest speakers of unpleasing voice. If they speak not well, let someone else read their stuff.

10. Conform to the rules of good taste, courtesy, decency, and common sense. You enter my humble abode as an invited guest, but mistake not the warmth of my welcome for an invitation to become a permanent lodger. These be my whims and caprices. By them are you judged. Harken to me and practice these precepts lest I give you the razzberry and turn off the darn thing, clap on my hat and go to the movies.

Their Time on the Air

THE following information regarding time on the air has been secured from the stations concerned, from newspaper clippings, and from our readers. The times shown can be quickly converted into your own time by use of the following table:

Your Zone	Where Time is Given as			
	EST	CST	MST	PST
EST	.....	Add 1 hr.	Add 2 hrs.	Add 3 hrs.
CST	Subt. 1 hr.	.....	Add 1 hr.	Add 2 hrs.
MST	Subt. 2 hrs.	Subt. 1 hr.	.....	Add 1 hr.
PST	Subt. 3 hrs.	Subt. 2 hrs.	Subt. 1 hr.	.....

State	City	Call	Keys.	Watts
Arizona	Prescott	KPJM	1500	100
	Thursday midnight to 2 a.m., MST.			
California	Hollywood	KNX	1050	5000
	Daily, 8:45 a.m.-2 a.m., PST.			
	Long Beach	KFOX	1250	1000
	Daily, 5 a.m.-3 a.m., PST.			
	Los Angeles	KTM	780	500
	Daily, till 3 a.m., PST.			
	Oakland	KROW	930	500
	Sunday, 8 a.m.-2:30 p.m.; 6-8 p.m.; 9-11 p.m., PST.			
	Mon., Wed., Fri., 8-9 a.m.; 1-6 p.m.; 7:30-8:30 p.m.			
	Tues., Thur., Sat., 8-9 a.m.; 1-6 p.m.; 7:30-11 p.m.			
	San Francisco	KFWI	930	500
	Mon., Wed., Fri., 7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30 p.m.; 8:30-1 a.m., PST.			
	Tues., Thur., Sat., 7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30 p.m.; 11-1 a.m.			
		KGO	790	7500
	Sunday, 8 a.m.-12 mid., PST.			
	Daily, 7 a.m.-12:30 a.m.			
		KJBS	1070	100
	Daily, 12 noon-7 p.m., PST.			
		KPO	680	5000
	Sunday, 8 a.m.-11 p.m., PST.			
	Daily, 7 p.m.-12 mid.			
		KTAB	560	1000
	Sunday, 8 a.m.-11 p.m., PST.			
	Daily, 7 a.m.-1 a.m.			
		KYA	1230	1000
	Sunday, 8:30 a.m.-11 p.m., PST.			
	Daily, 7 a.m.-12 mid.			
Idaho	Twin Falls	KTFI	1320	250
	Daily till 1 a.m., MST.			
Illinois	Chicago	WBBM	770	25000
	Sunday, 8 a.m.-2 a.m., CST.			
	Daily, 6:30 a.m.-9 p.m.; 11 p.m.-1 a.m.			
		WPPC	560	500
	Sunday, 8 p.m.-mid., CST.			
	Monday, 7-7:30 p.m.			
	Tuesday, 7:30-8 p.m.			
	Cicero	WEHS	1420	100
	Sunday, 4-8 p.m., CST.			
	Daily, 4-6 p.m.			
Indiana	Muncie	WLBC	1310	50
	Sunday, 7 a.m.-4:30 p.m., CST.			
	Daily, 7 a.m.-11 p.m.			
	DX Tuesday nights till 1:30 a.m.			
Iowa	Ames	WOI	640	5000
	Daily, 7 a.m.-4 p.m., CST.			
	Des Moines	WHO	1000	5000
	Sunday, 9 a.m.-11 p.m., CST.			
	Daily, 7 a.m.-12 mid.			
	Ottumwa	WIAS	1420	100
	Daily, 7 a.m.-1 p.m.; 5-7 p.m., CST.			
Kansas	Milford	KFBI	1050	5000
	DX every other Thursday, 3 a.m., CST.			
	(Dates, December 31, January 14, 28, etc.)			
Kentucky	Paducah	WPAD	1420	100
	Daily, 7-9:30 a.m.; 11-2 p.m.; 4:30-11 p.m., CST.			
New Jersey	Zarephath	WAWZ	1350	250
	DX every Sunday till 2 a.m., EST.			
Ohio	Columbus	WSEN	1210	100
	Daily, 8 a.m.-11:30 p.m., EST.			
South Carolina	Spartanburg	WSPA	1420	100
	Saturday, 8:30-9 p.m., EST.			
Tennessee	Memphis	WMC	780	500
	Sunday, 6 a.m.-11 p.m., CST.			
	Daily, 6:30-11 p.m.			
		WNBR	1430	500
	Sunday, 7 a.m.-10 p.m., CST.			
	Daily, 7 a.m.-11 p.m.			
		WREC	600	500
	Sunday, 6 a.m.-11 p.m., CST.			
	Daily, 6 a.m.-12 mid.			
Texas	Corpus Christi	KGFI	1500	100
	DX Sunday mornings nearest 15th of each month, starting 1 a.m., CST.			
Washington	Tacoma	KVI	760	1000
	Daily, 6:45 a.m.-4:30 p.m.; 10-12 mid., PST.			
Wisconsin	Janesville	WCLO	1200	100
	Daily, 6:30 a.m., CST.			

State	City	Call	Keys.	Watts
Philippine Is'ds	Manila	KZRM	618.5	50000
	(Noon Monday EST is 1 a.m. Tuesday, Manila time.)			
	Sunday, 10:30-11:30 a.m.; 12:15-1:15 p.m.; 3-5 p.m.; 6-11 p.m.			
	Monday, 6:30-7:30 a.m.; 12:15-1:15 p.m.; 5-6 p.m.			
	Balance week, same as Monday, but on till 11 p.m.			
CANADA				
British Columbia	Vancouver	CJOR	1210	500
	Sunday, 10:30 a.m.-9 p.m., PST.			
	Daily, 7 a.m.-11:30 p.m. (Sat. on till 1:15 a.m.)			
Manitoba	Winnipeg	CKY	780	5000
	Sunday, 11 a.m.-12 noon; 4-6 p.m.; 7-8:30 p.m., CST.			
	Daily, 9:30 a.m.-2 p.m.; 3:30-4:30 p.m.; 6:30-9 p.m. (Friday on till 11 p.m.)			
		CNRW	780	5000
	Sun., Wed., Thur., 9 p.m.-9:30 p.m., CST			
	Saturday, 9:30-10 p.m.			
Ontario	Toronto	CKGW	690	5000
	Daily, except Sunday, from 5:45 a.m., EST.			
	Wingham	10BP	1200	25
	Sunday, 10:30 a.m.-12:10 p.m.; 4:15-5:15 p.m.; 6:45-8:10 p.m., EST.			
	Tuesday, 12-1 p.m.; 7-9 p.m.			
	Thursday, 7-9 p.m.			
	Special DX (1190 kc.) 1-2:30 a.m. on mornings of December 25th, 10th and 25 January and February.			
Saskatchewan	Fleming	CJRW	665	500
	Sunday, 10:30 a.m.-12 noon; 4:30-7:30 p.m., CST.			
	Daily, 4:30-7:30 p.m.			
	(Monday, Thursday, Friday, on till 10 p.m.)			
	Moose Jaw	CJRM	665	500
	Sunday, 12 noon-3:30 p.m., MST.			
	Daily, 8:30-11 a.m.; 12-2:30 p.m.; 7:30-12 mid. (Sat., on till 1 a.m.)			

The Month's Changes

Frequencys

580	CKCL	Toronto, Ont., from 960.
620	KZRM	Manila, P. I., from 625.
630	XETF	Veraacruz, Mexico, from 685.
680	XFG	Mexico, Mexico, from 638.
750	XEQ	Juarez, Mexico, from 1015.
780	XEZ	Mexico, Mexico, from 588.
810	WPCB	New York City, from 570.
870	XFF	Chihuahua, Mexico, from 915.
970	CMBT	Havana, Cuba, from 790.
1000	XEA	Guadalajara, Mexico, from 1200.
	XEC	Toluca, Mexico, from 1333.
	XEE	Oaxaca, Mexico, from 1132.
	XEFE	N. Laredo, Mexico, from 980.
	XEJ	Juarez, Mexico, from 857.
	XEL	Saltillo, Mexico, from 1091.
	XEU	Veraacruz, Mexico, from 800.
	XEV	Puebla, Mexico, from 1034.
	XEY	Merida, Mexico, from 547.
1130	XEH	Monterrey, Mexico, from 1110.
1150	CJOR	Vancouver, B. C., from 1210.
1300	XEM	Tampico, Mexico, from 730.

New Stations

635	CKTB	St. Catharines, Ont.
1000	WGEO	York, Pa.
	XEFI	Chihuahua, Mexico
	XEFS	Queretaro, Mexico.
	XETC	Jalapa, Mexico.
	XETG	Torreón, Mexico.
1020	XEPD	Tijuana, Mexico.
1050	XEFC	Merida, Mexico.
1230	XETQ	Mexico, Mexico.
1270	XEFS	Monterrey, Mexico.
1360	XEG	Mexico, Mexico.
1380	XETB	Torreón, Mexico.
1500	XETZ	Coyoacan, Mexico.

Power

620	KZRM	Manila, P. I., 500 to 50,000.
850	WWL	New Orleans, La., 5000 to 10,000.
890	CMX	Havana, Cuba, 500 to 1000.
1120	KFSG	Los Angeles, Calif., 400 to 500.
1400	XEP	Laredo, Mexico, 2500 to 200.

(Continued on page 30)

RIDING The ETHER WAVES

Seeking the Distant Stations

THE radio season is now on in full swing and DXers are daily adding to their logs. Several new stations in Mexico this month provide interesting targets. A number of special DX programs are scheduled in this issue for which our long-distance marksmen will want to aim. Let's go.

Rudolph Kure, 301 Warner St., Cincinnati, Ohio, submits the following information regarding experimental station W9XX: "Here is some more news from the owner of W9XX that will be of interest to members of our RADEX Radio Club.

"Watch out for tests over Radio Experimental Station W9XX, beginning December 1, transmitting from Gidden's Castle, the highest point in Louisiana, on a frequency of 1604 kilocycles, using from two (2) up to a hundred (100) watts of power; will run from 4 to 5 a.m., Central Standard Time; this station issues a beautiful DX card for cost of 10 cents to cover postage and printing, and a beautiful magazine on low waves for 25 cents for a 24-page copy; all mail for W9XX should be addressed to P. O. Box number 1543, Shreveport, Louisiana.

"This station sends out a swell signal on five (5) watts of power or even on only two (2) watts. A fine chance for faithful subscribers of your splendid magazine, who are able to pull in short-wave stations with their regular broadcast band radio receivers, to secure a most desirable verification on fly power. The station comes in three notches above the 1500 kilocycle frequency. It requires fairly sharp tuning to bring it in."

Some Foreign Targets

George W. Burns, 2466 Wahl Terrace, Cincinnati, Ohio, contributes the following time on the air for some foreign stations:

CPX, La Paz, Bolivia, South America. Frequency 1325 kcs. (226 meters). Hours are, daily except Sunday: 10:30-

11:10 a.m.; 5:00-6:00 and 8:00-10:00 p.m., eastern standard time. Power, 1 kw.

LS2, Buenos Aires, Argentina. Frequency 1190 kcs., power 15 kw. Broadcasts daily 10:00 a.m. to 2:00 p.m.; 2:30-4:30 and 5:00-11:30 p.m., Buenos Aires time (which is one or two hours later than eastern time).

OKR, Bratislava, Czecho-Slovakia. Frequency 1076 kcs., power 14 kw. Transmits daily except Sunday, 4:30 a.m. to 4:00 p.m., eastern standard time.

Special DX From XET

"XET puts on a special DX for the U. S. every Tuesday, beginning at midnight CST," is the tip from P. J. Hauss, 221 S. Butler Ave., Indianapolis, Ind. "XEB can be heard from as early as 11:00 p.m. until they sign off at 1:00 or 1:15 a.m., CST. KABC puts on a special program every Sunday night from 11:30 until 12:30 a.m., CST. XEN broadcasts local and foreign news and comment 11:00 to 12:00 p.m., CST. KGBU will put on a DX program every Thursday morning from 3:00 to 5:00 a.m., CST, during January, February and March." Mr. Hauss now has 570 on his list and would like to correspond with other DXers, particularly those in other countries.

More Tips

The Prairie State DX Club sends the following info regarding KWEA, Shreveport: 1210 kcs., 100 watts. Schedule: Sunday, 4:30 to 6:00 p.m. Daily, 7:00 a.m. to 2:00 p.m. and 5:00 to 10:00 p.m. DX midnight to 1:00 a.m. and 2:00 to 4:00 a.m. All CST. KWEA issues a DX souvenir card for ten cents.

KFJB, Marshalltown, Iowa, advises Leslie T. Bradbury, 130 North Harvard Ave., Ventnor City, N. J.: "Later, we plan to go on once each week from 11:00 p.m. until 2:00 a.m., CST, with what will be called the 'Wash Day Lunch' program. This will be Monday nights and Tuesday mornings."

"Here's a tip for DXers," proffers James Pinkerton, 47 Jasper St., Paterson, N. J. "WSIX, Springfield, Tenn., will

run a DX anniversary program on January 7th, which will, no doubt, run a good part of the night and next morning."

DX tips from Harry Sugar, 1808 Oak Hill Ave., Youngstown, Ohio: CHGS, Summerside, P. E. I., special DX broadcast every first Sunday of the month, starting at 1:00 o'clock, EST. CMC, Havana, every Monday, Wednesday, Thursday, Friday and Sunday, 7:00 to 11:00, EST.

Louis Renaldo, 483 Wilmot Ave., Burlington, Wis., gives the following list of stations which are on the air every morning after 5:00 a.m., CST: WSAZ, XER, KMMJ, KFJF, KGBZ, KFBI, WDBO and WKBC.

"While DXing one Sunday morning, I heard WSOC, Gastonia, N. C., say that they broadcast regular DX programs every Sunday morning about 2:00, EST," says John M. Lennon, 122 Linden St., Camden, N. J.

"WILL, of Urbana, Ill., tells me that they put on a DX program starting at midnight the first Saturday of each month," writes Ivan D. Ide, Box 312, Genoa, Ill.

"Tell your readers to try for 10-BQ, Brantford, Ont., on 1200 kcs. with 5 watts, some Sunday from 2:00 to 4:30 p.m.," suggests Douglas Wood, Nixon, Ont.

KFJX, Grand Junction, Colo., conducts DX tests on Thursdays, 1:00 to 4:00 a.m., MST, or 3:00 to 6:00 a.m., says Stuart B. Leland, New Canaan, Conn.

Verifying Russians

M. B. Murphy, Glenn Ranch, Calif., sends us correspondence he has had regarding his reception of Russian stations. He says: "To obtain a reply from Russia every letter must be addressed, not to Russia, but to the Union of Soviet States Republic. A friend who just returned from Russia says any correspondence addressed to 'Russia' is burned forthwith. To insure a reply enclose an International Reply Coupon, costing nine cents at any post office. My letter to Moscow, dated February 20th, was not answered until August 17th. So, DXers, be patient." The Soviet authorities sent Mr. Murphy a typewritten monthly program which includes such subjects

FREE Your Choice of NINE Meters!

To do your radio work properly you need meters. Here is your opportunity to get them at no extra cost. See the list of nine meters below. Heretofore we have offered the choice of any one of these meters free with an 8-weeks subscription for RADIO WORLD, at \$1, the regular price for such subscription. Now we extend this offer. For the first time you are permitted to obtain any one or more or all of these meters free, by sending in \$1 for 8 weeks' subscription, entitling you to one meter; \$2 for 16 weeks, entitling you to two meters; \$3 for 26 weeks, \$6 for 52 weeks, entitling you to six meters. Return coupon with remittance, and check off desired meters in squares opposite.

RADIO WORLD is the first and only national Radio Weekly. In tenth year. The news of the progress of the entertainment, science and business of radio *when it is news*. 15c a copy; newsdealers everywhere.

RADIO WORLD 145 West 45th Street
New York N. Y. (Just East of Broadway)

Enclosed please find \$_____ for _____ weeks subscription for RADIO WORLD and please send as free premium the meters checked off below.

I am a subscriber. Extend my subscription. (Check off if true.)

- | | | |
|--------------------------|----------------------------|---------|
| <input type="checkbox"/> | 0-6 Voltmeter D. C. | No. 326 |
| <input type="checkbox"/> | 0-50 Voltmeter D. C. | No. 337 |
| <input type="checkbox"/> | 6-Volt Charge Tester D. C. | No. 23 |
| <input type="checkbox"/> | 0-10 Amperes D. C. | No. 338 |
| <input type="checkbox"/> | 0-25 Milliamperes D. C. | No. 325 |
| <input type="checkbox"/> | 0-50 Milliamperes D. C. | No. 350 |
| <input type="checkbox"/> | 0-100 Milliamperes D. C. | No. 390 |
| <input type="checkbox"/> | 0-300 Milliamperes D. C. | No. 399 |
| <input type="checkbox"/> | 0-400 Milliamperes D. C. | No. 394 |

NAME _____

ADDRESS _____

CITY _____ STATE _____

as "Present Day Russian Menchevism," "Natural Resources of the U. S. S. R.," "The Essence of Socialistic Methods," "The Mechanization of the Donbass." How would you like this, you objectors to advertising talks?

Eastern Reception in the West

In response to the inquiry of Herbert V. Haussler regarding reception conditions of Eastern stations on the Pacific Coast, G. W. Lowry, Jr., R. 1, Box 175, Everett, Wash., gives his experience: "I have a five-tube Radiodyne battery set. I get the Atlantic Coast frequently; following are some of my catches: WSM, WEA, WOR, WSB, WJZ, WHAS, KDKA, WBAL, WTIC, WBT, WPG, WAPI and WHAM. I receive the Japanese stations better than the East Coast, though, when they break through. Out here on the Coast about every wave has a coast station on it to hamper reception. All Columbia River stations fade badly on my set." Mr. Lowry wants to know what station he heard just below KOA on about 840, signing off at 10:00 p.m., when it was 4:00 a.m., PST. The announcer was speaking English, but static cut out the call.

The Prairie State DX Club sends out this notice to its members: "Mail addressed to XER, Villa Acuna, Coahuila, Mexico, will be returned marked "Fraud-

ulent," but mail addressed to the same station at Del Rio, Texas, goes through." The why of this is a post office mystery. We have just had a letter addressed to XED, Reynosa, Tams, Mexico, returned to us marked "Fraudulent." We wonder if XED is also on the blacklist or if this station was confused with XER.

The Club also advises that WDX, Tuscola, Ill., will have a DX program from 1:00 to 2:00 a.m. December 20th and WMIL from midnight to 2:00 a.m. December 28th.

Frank A. Johnson, 59 West 66th St., Chicago, Ill., quotes the following from a verification received from XEQ: "XEQ is the International Radio Service, 'The Voice of Mexico,' Suite 1202, Mills Bldg., El Paso, Texas. Eagle Radio Broadcasting Companies, Inc., Exclusive American Representative. The Eagle Radio Broadcasting Co. has four stations: XETG, Torreon, Mexico; KGFI, Corpus Christi, Texas; XFF, Chihuahua, Mexico, and XEQ, Ciudad Juarez, Mexico." Mr. Johnson states that he has picked up eight new ones the past month, bringing his total well over the 1300 mark. "Many of my catches are no longer on the air," explains Mr. Johnson. "I have seen stations come and go, for I have been using the headphones since 1919—a long time to be listening in."

INSURE YOUR RADIO ENJOYMENT

SEND THIS BLANK TODAY

The Radex Press,
5005 Euclid Avenue,
Cleveland, Ohio

Enclosed find \$.....for which send me postpaid my choice of your offers as checked below:

- | | |
|--|--------|
| <input type="checkbox"/> One radio map of North America..... | 25c |
| <input type="checkbox"/> One copy of the next RADEX..... | 25c |
| <input type="checkbox"/> Trial subscription, next five issues of RADEX..... | \$1.00 |
| <input type="checkbox"/> One year's subscription to RADEX, 10 issues, and Radio Map free..... | 1.75 |
| <input type="checkbox"/> Two subscriptions to RADEX with one leatherette cover and Radio Map, both free..... | 3.50 |
| <input type="checkbox"/> One two-year subscription with leatherette cover and Radio map, both free..... | 3.50 |
| <input type="checkbox"/> Leatherette Cover..... | .50 |

Write Name Plainly.....

Street and Number.....

City and State.....

A Courteous Station

Edwin S. Thompson, 2025 N. 15th St., Philadelphia, Pa., has a good word for KFWI who wrote him a very cordial personal letter which was received just 13 days after he wrote them. Incidentally KFWI mentioned their new 1000-watt transmitter. Have they increased their power? Mr. Thompson, although located in a congested residence district, with a full quota of doctors and dentists with electrical apparatus trolley cars and other disturbers of the peace, has brought in 344 stations on his Majestic 92 since October 24th, 1929. From his summer home on the Atlantic at Ocean City, N. J., he received KFI at 6:15 PST, still daylight in the West.

"Just got my RADEX map of North America," says Orrin L. Case, 403 Clairmont St., Port Huron, Mich., "and it sure is a dandy. I feel certain if all DX fans only knew what a big help this map would be to them, they sure would get one. I have enjoyed radio more since I got my map than ever before." Mr. Case would like to hear from some one who can get HHK.

"You might tell the fans that the Newark New Radio Club is on the air every Saturday, 5:00 to 5:30 p.m., EST, over WAAT, 940 kcs., with a very fine musical program and, of course, a lot of DX tips," says the Executive Secretary of that Club, Roland Trenchard.

CMCW Wants Receptions

"I get a foreign station around 1035 kcs. that sometimes plays American dance music, but signs off without giving their call letters," reports John McGill, Jr., Olive Hill, Ky. (This is probably XEB, Mexico City, on 1030.) "On my old 8-tube Crosley, I have logged over 200 stations in the U. S., including many on the West Coast. I have eight Canadians, four Mexicans and five Cubans. CMCW, Havana, announced they would answer all letters from the U. S. A." John is eighteen and would like to hear from other young DXers. He is anxious to receive KOB, HHK and VAS.

"Give CMCY a hand," exclaims Charles Rowland, 23 Myrtle Drive, Pontiac, Mich. "They verify promptly and give lots of dope on their future

programs; most Cubans don't." In five weeks, 258 stations, is Mr. Rowland's record. He wants to know where WTAY is located. He picked them up about 1480. He thinks he heard T14-NRH, but they announced only as NRH and he wonders if they drop the T-14 in announcing. Mr. Rowland listened to a Spanish-speaking station on 790 recently for more than an hour and not a word of English. They came in at 1:12 a.m., EST, on November 8th. Can anyone help him?

Who Were These?

"On the morning of November 29th, at 4:05, EST, I heard a distant station on about 755 kcs.," reports Edward H. Schulz, 188 Carl St., Buffalo, N. Y. "It came in very weak. Queer music is the first thing I heard, then an announcer spoke in English and later in a foreign language, probably Spanish." This was probably XEQ, Juarez, Chih., now on 750. Mr. Schulz has received about sixty one hundred-watters for a total of 303. He picked up a ten-watter in Carbondale, Pa.

"On Monday night, November 9th, at 11:30 p.m. to 11:45 p.m., I tuned in a station at 920 kcs.," begins Chandler B. Stewart, 59 Parker Ave., Collingdale, Pa. "Someone crowed like a rooster. At 11:45 someone talked from this station to his friends in California, naming about five of them. He said he was in Mexico and having a fine time. Announcement was in Spanish. What station did I have?"

John J. Barlow, 2803 Woolsey St., Berkeley, Calif., would like to know how far away the following stations are being received: KRE, Berkeley; KFRC, San Francisco, KYA, San Francisco, and KXO, El Centro. He would like to hear from other DXers and wants time on the air for KGJF, KVOO, KFDM, KFQD, KIDO, KGIR, KGRS and WDAG.

Lloyd W. Grant, 456 Fourth St., West, Birmingham, Ala., needs the following stations to complete his roster of the states and asks for information as to the best time to tune for them: WDEL, WCSH, KGHL, KFBB, WFEA, WJAN, WJAR and KIDO.

"On Saturday morning, November 7th, at 3:30 a.m., EST, I heard a station

which I understood to be KTM in Los Angeles," writes D. Wharton, 22 Elmwood Ave., Rye, N. Y. "They came in on 384 meters. Pretty good for a 500-watter."

Fred Wakerell, 380 Slater St., Ottawa, Canada, wants to know when WCB D is on the air. Mr. Wakerell logged 69 stations on 49 frequencies in one evening on his Zenith recently.

Donald F. Logan, 17 Park Road, Truro, N. S., Canada, would like to hear from DXers who get Nova Scotia, New Brunswick and Prince Edward Island.

"How about asking some of the DX fans to get us a little 'dope' on Alaska?" Richard D. Caddell, 605 Ridge Ave., N. S., Pittsburgh, Pa., wants to know.

How About WCOC?

In spite of the fact that the station specifically asked for reports of reception and stated they would return verifications promptly with an Ekko stamp free of charge, Chas. E. Summers, 28 Gallatin Ave., Buffalo, N. Y., complains that three different reports of reception of WCOC, Meridian, Miss., remain unanswered as do five follow-up letters. He thinks WCOC must want reports only from Meridian and vicinity.

"WODA, Paterson, N. J., will not verify, so save postage and do not write to them," the Transcontinental DX Club advises its members.

"I recently won the prize from KFXM, San Bernardino, Calif., for long distance reception," reports S. R. Lewis, R. 3, Box 688A, Toledo, Ohio. "My total log is now 750, of which I have 375 verified. More than 200 of these are of 100 watts or less, all verified. I recently caught WHBC, Canton, Ohio, on 1200, using but ten watts. They are on the air at 6:30, EST, most every morning."

"Last Saturday night, instead of tuning at random as usual, I made up a list of fifteen stations I had never had and by patient and persistent tuning, I brought in ten of them. Ain't dat sump-in'?" inquires R. E. Moran, 31 Rochester St., Ottawa, Ont. "I am going to use this plan every DX night and see if I can raise my average."

"With my Atwater Kent Model 55, I get very clearly at night the short-wave police stations, WPDR, KGKM, WRDS, WPDB, WPDC, KGPC, WKDU and the amateur W3XX at Silver Springs, Md.," reports F. S. Keeble, 323 Ozark St., Hot Springs, Ark. "I receive as far west as KFI, Los Angeles, north to WCCO, Minneapolis, east to WGY, Schenectady."

"The Japanese stations are coming in fine here," states Clyde W. Ham, 100 S. Lafayette St., Shelby, N. C. "In the past ten days I have had three new ones, JOCK, JOFK and JOBK. I have verifications from JOIK and JOGK already. Have also had 4QG, 2BL and 3LO. I listened to 4QG for over thirty minutes."

"I listened to two Australian stations without missing a morning from October 17th to October 26th," records Albert Palmer, R. D. 2, Sta. A., East Liverpool, Ohio. "On November 5th from 4:00 to 6:00 a.m., EST, I tuned in 2BL, 4QG, 3LO, 2FC, JOAK, JOHK, JOCK and five West-Coasters." Rather a large morning, we'd call it.

Verifying 502 out of 610 is the claim of Joseph Leo Hueter, 1802 W. Columbia Ave., Philadelphia. He has a long string of JO's and Anzacs, Hawaii, Alaska, Germany, Norway. He will answer letters from DXers anywhere.

Henry Kenderdine, Perkasio, Pa., has brought in 220 stations on his 11-tube Philco since May and "still going strong." He would like to correspond with other DX fans in Eastern Pennsylvania.

"The first night I used my headphones I brought in JOHK, JOIK, in Japan and 3LO and 4QG in Australia," says F. L. Askew, (no address given).

"On the first Sunday in October, I tuned in the seven big Japanese stations with exceptional volume," writes Everett Clark, Box 127, Marietta, Okla. "I have logged 254 stations in the broadcast band, including every channel except 540. We listened to all of the high-powered broadcasters as far east as WLW and north to WJR all through the day, when there is no static. Not long ago I tried out a short-wave converter. I got all the U. S. short-wave program stations,

plenty of hams, caught the airplane calls from a passing mail plane whose motor I could hear both direct and through the radio. I also heard on the twenty-meter band a fellow from the NBC in San Francisco talking to another in Japan, arranging an international broadcast. His signal was as loud at 3:00 p.m. as WFAA's 50 kw. only 100 miles away." Mr. Clark has a nine-tube Model 61 Majestic Super.

A Polish Chain Program

"The first radio hookup in the Polish language ever undertaken in the U. S. was inaugurated Sunday, December 6th," writes Valentine Sadowski, 188 Miller Ave., Buffalo, N. Y. "It featured the Very Rev. Justin Figas, Superior Provincial of the Franciscans, whose headquarters are at Corpus Christi Church, Buffalo. The program originates in the studios of WEBR and goes to WCFL, Chicago; WJBK, Detroit; WJAY, Cleveland; KQV, Pittsburgh, and WKBI, Scranton, known as the Great Lakes Chain. All of these cities contain large Polish populations. Father Justin is an outstanding Polish speaker and has been broadcasting from WEBR for two years. The new program will be on the air each Sunday from 6:00 to 7:00 p.m."

The International Radio Club of Miami, Fla., J. B. Rice, President, has just concluded its second annual international radio party. More than 200 broadcasting stations in North America cooperated in putting Miami on the air in song and story. The program continued for three days, originating in the studios of station WIOD. The CBS and NBC gave their assistance to make this huge party a success. *The Miami Herald* published a large reproduction of the RADEX map of North America with a ring around each of the cities in which the program was reproduced.

"Reds Seize Radio Station; Broadcast Attack on U. S.," is the headline of a newspaper dispatch from Mexico City dated November 8th. "A band of communists forced their way at pistol point into radio station XEW here last night, tied up the operator and took complete control of the plant to broadcast an

attack on the government of President Ortiz Rubio and "Yankee Imperialism." The intruders had disappeared when police arrived." Who logged that one?

Station CKAC, La Presse of Montreal, is now installing Canada's first television station, using Western Television Corp. equipment.

"I have picked up stations FR7, LB2 and EG7 broadcasting between 65 and 67 keys. Can you tell me who they are?" is the inquiry of K. L. Corless, 420 Forest Ave., Royal Oak, Mich.

"I have caught 182 stations in the past ten weeks," reports F. H. Dodge, P. O. Box 388, Colorado Springs, Colo. "DX reception is considered very rotten here. For about six months in the year there is always an electrical storm within a radius of 150 miles. In addition to this I am in a location which is bothered with one oil heater, an airplane buzz from a hospital and some poor ground connections on the power line transformers. Perhaps someone can tell me of an interference eliminator which will mitigate those three items of trouble." Mr. Dodge submits a list which pretty well covers North America. One odd note from his log is that WGN comes in with a very weak signal, while WMAQ, with one-fifth the power, evidently is well received. "That station which Mr. Wightman wants identified was XEB, Mexico City," Mr. Dodge adds. "I have often heard the same cuckoo and a few nights ago I caught the announcement."

XEV, on 785, gives a DX program every Sunday morning from 1:30 to 2:30, EST, reports Samuel F. Ownes, 233 Roberts Ave., Glenside, Pa.

Push Button Troubles

"Why does my G. E. radio, Model H-32, cut out at intervals which seems to be whenever an electric switch is turned on or off in the house?" inquires Carroll F. Bright, Denton, Md. This is a phenomenon we are unable to explain. Sometimes when a light is switched on or off, a radio set will instantly burst forth with greater volume or it may be decreased. Of course, the aerial picks up the noise of the electrical contact, but there seems to be no reason why it

should have any other effect on the set. "When the set was first purchased," Mr. Bright continues, "the -47 tubes would rattle each time there was a deep note, but I exchanged them for new ones and I have not been troubled since."

"I noticed Mr. Looby's complaining about WCAU and WTEL in the December issue," says Earl C. Pinkerton, 4182 Paul St., Philadelphia, Pa. "I had the same trouble with WCAU until I eliminated my outside aerial entirely, using only the ground wire attached to the aerial post. This gave me great improvement of reception and selectivity on all stations—better, in fact, than with an outside aerial. However, WCAU still covers from 1140 to 1210 kcs. on my set."

"The Mexican which comes in about 705 of which two of your readers make inquiry, is XEM in Tampico," says R. N. Putnam, 920 12th Ave., No. Fargo, N. Dak. The new official list from Mexico gives the frequency of XEM as 1300, but XEN, at Mexico City, is still listed at 711. Mr. Putnam would like to hear from anyone who has used the Stewart-Warner S-W converter or any other good converter which he can use with his Philco 9-tube Superheterodyne.

Here's a New One

Try bringing in the new CKTB, St. Catharines, Ont., on 635 from 7:00 to 7:30 p.m., EST.

"I have brought in 235 stations on my Majestic 8-tube set with 25-foot aerial," advises Howard Schlobohm, 2209 Himrod St., Brooklyn, N. Y. "As I am only fourteen I am not permitted to stay up very often. My best catch was WSPA, Spartansburg, S. C., on 100 watts. Howard sends us a list of stations with their time on the air.

"I have owned an RCA No. 80 for a year and have logged 507 stations with more than 250 verified," is the report that comes from Jas. B. Wooten, 760 Selma St., Mobile, Ala. "Have just completed installing -235s in my set. You can bet it is good, too. Tone is improved about 60%. Selectivity and sensitivity showed improvement. I am now able to get 700, the Spanish-speaking station, at 705 and then 710, not five minutes,

but for thirty minutes. Anyone wishing to put 235s in his set should get the drawing from the manufacturers and that will explain everything. This spring I will install two 250s in place of the 245s I will have a radio then!"

Del Hoisington, 10 Pleasant St., Derry, N. H., would like to hear from someone who owns a Bosch 48C. He also wants a list of coming DX programs. We know of no better list that the one we are publishing from month to month. Usually the special DX programs do not reach us in time for publication in a monthly magazine. Most of them are set but a short time ahead. All of the DX clubs give notice of special DX programs and those which are backed by newspapers have them published in their DX page.

"Here is an experiment I tried some time ago and I hope you will print it," writes T. E. DeLong, 400 West Franklin St., Liberty, Mo. "I conceived the idea of erecting two aerials and cutting in a variometer. I ran one aerial through the outer coil and the other one through the inner coil and from there to the aerial post of the set. I then tried grounding the third tap to the regular ground and here are some of the results: In daylight between 12:00 o'clock and 2:00, I picked up Louisville, Ky., Cincinnati, Denver—all with speaker volume. That night I donned the headphones and tried DXing. My best catch was KPCB, a 100-watt station in Seattle, just 1475 miles away. I have studied RADEX so much that a prominent radio dealer here gives me a fine part-time job, accompanying his salesmen and twirling the dials for them. They just mention some town and thanks to your simple system of tuning and a good memory, I can usually tune them right in."

Two DX tips come from T. J. Johnson, Bowlegs, Okla. KGKY, Scottsbluff, Nebr., on 1500, broadcast a DX program every Friday night from 11:00 to 2:00 a.m., MST. WAWZ, Zarephath, N. J., on 135, has a test program every Tuesday morning, 4:00 to 5:00, CST. Mr. Johnson's log has now reached an even 400, with 296 verified. He has logged 110 of the 129 stations within 500 miles.

Tuning American Stations from Europe

SOME six months ago, I left the United States to visit foreign countries throughout the world and to test radio reception in Europe, Asia and South and Central America. Now I am writing you some facts concerning radio reception at various points throughout the world.

After leaving San Francisco, the first tests were made in Costa Rica, where reception was very poor and only Mexican, South American and U. S. stations were heard. I next tried reception in Panama but here also we found the results very unsatisfactory. After leaving the Canal Zone, however, reception was excellent on our ship all the way across the Atlantic until we reached Africa. In the vicinity of Capetown, reception of European and African stations was very good, though no American station was heard. In Morocco, Spain and France, reception was much better. In France, in fact, it was one hundred percent better than any other place so far found.

California from Poland

Here in Europe I have visited stations and tried reception in France, Germany, Poland, Hungary, Austria, Czecho-Slovakia and Russia, and found reception favorable, especially at the present time. (I am writing this from Warsaw, Poland.) We not only tuned in every station in Europe, Asia and Africa, but many stations in South America, Mexico, Canada and the United States. We were able to tune in the following American stations frequently: KNX, KFI, KPO, KGO, KROW, KGW, KSL, WENR, KWKH, WFLA, KDKA, WGY, WEA, WTIC and WCSH.

The tests I made throughout Europe were with a Phillips receiver and I am sure greater success could have been obtained with American sets such as Philco, Kellogg, Majestic or Norden-Hauck. Here again I have found that with proper grounding systems, reception was very greatly improved. Hundreds of people that I have met through-

Ollie Ross is on
a World-Wide Tour

out Europe were surprised to note the improvement in reception due to a perfect ground.

Invitation to Visit Prince

I am happy to say that I was very well received by officials of radio stations that I have had the good fortune to visit in Europe and other parts of the world. A short time ago I received an invitation to visit Prince Dhai Manohai Lal, at Lahore, India, where we were to spend several months at Kashmir Hills, which is claimed to be the Paradise on earth. If I am to visit all the cities and all the people from whom I have had invitations, it will indeed require at least eighteen months more of traveling. It is very cold here and snow is falling every day and I am not sure how many other places I will be able to visit.

You can't imagine how happy I would be to find a copy of RADEX here in Europe so that I could know what is happening in Radio at home in the United States. While visiting in Europe I have had the pleasure of reading many letters from DX fans in America. In many radio stations, officials have asked me to say a few words to DX fans at home. Let me say here that DXers should be more careful to state the exact time, numbers heard and the exact words that are said or mentioned by foreign announcers. In many letters no mention is made of items heard nor time nor any facts concerning the particular broadcast. It is absolutely necessary that all the above items be given or otherwise a verification will not be made.

Please convey my greetings to the readers of RADEX.

Next month, Susie Sexton will have an interesting story on the actors behind the scenes in "The Rise of the Goldbergs."

Buying a New Set

(Continued from page 3)

he will agree to rigid trial tests, and money-back guarantees. No one should buy a set until he has tested it in his own home. When a dealer hedges about allowing this test, he should immediately be branded as unreliable. Some dealers agree to the sending of two or three styles at the same time for comparison tests, so the most suitable can be chosen. The small profits in midget sets, however, usually preclude any such enterprising efforts to complete the sale.

The set to be selected should have a guarantee, especially for time, and it must be cheerfully replaced within a reasonable period if it fails to please. In disputed cases the full purchase price should be refunded without delay. Most reliable dealers, of which there are many in every community, adhere to these sound principles of good business. Then, too, there is another side to the story; the unreasonable customer whom no one can please—for him we hold no brief.

Some people expect to get wonderful results from midgets with only four tubes, and complain because a neighbor obtains fine tone and distance from an 11-tube superheterodyne. Certainly there are Fords and Lincolns in radio, just as in automobiles, and one should expect results in corresponding measure. But, when one buys a radio set after careful and comparative selection during actual tests in the home, has a complement of reputable and tested tubes, perfect grounds and aerials, a reasonable freedom from local and man-made static, and good home acoustics, he can blame no one but himself if there is dissatisfaction.

Sooner or later the set owner will be confronted with the need for a serviceman. Radio sets get sick; they need doctors, or must visit a hospital. Good radio men are everywhere available, and most of the larger radio shops now have complete servicing departments. This branch of radio is as important as the automobile garage business. An honest serviceman will not tinker with the parts of a receiver that function per-

fectly, simply to make the itemized list of work done a little more imposing and costly. Instead, he will make a careful test and repair or replace only those parts that cause the trouble. There are some radio men, garage mechanics, dentists, doctors and barbers who insist upon delving into this or that—and the average person never returns to them again. Such practices are not good business, and the wise radio man will not indulge in unethical tricks.

Honest repairmen cannot work only for glory. A complete diagnosis of a modern radio receiver takes a long time, unless the trouble and remedy are obvious—such as a bad tube or broken wire. The serviceman must make a fair charge; he has installed expensive testing apparatus and other equipment. If he comes to your home to give the receiver an examination, he usually charges about one dollar, but a physician visiting an ill person would charge several times that amount—and do less manual work and remain a shorter time. Some repairmen charge a flat rate of about two dollars an hour for work done in their shop, and itemized and fixed costs for certain duties prevail. When a serviceman offers a rough estimate for a repair job, but finds other things necessary, he should perform no work on the extras until he has communicated with the owner and explained the situation. This sort of thing is the cause of most of the friction between the owner and serviceman.

After a set has been returned home, and it fails to give good reception, or appears worse than it was before being repaired, the honest and capable worker will again go to work, leaving nothing undone until he repairs the trouble or rectifies the damage he has done. Then there should be no additional charges. The serviceman who is anxious to please and make a name for himself has spent much of his time and money in preparing himself for his task; his future business and reputation are at stake, and he will give cheerful and conscientious service every time.

Did a friend of yours get a new set for Christmas? Tell him about RADEX.

In the Field of Radio

(Continued from page 13)

"Daylight reception in our community is possible only with the most expensive sets so we, most of us, are unable to receive any network programs until 7 or 8:00 o'clock in the evening."

"I have four different aerals that can be used in any combination, but whenever I switch on the ground, my volume is reduced to about one-half," comments Henry Gilfillan, 705 W. Walnut, Kalamazoo, Mich. "In fact I get best results DXing if I use my ground as an aerial." Henry wants to know why there are two WTIC's. There aren't, but WTIC has two frequencies; one for chain programs synchronized with WEAf and the other for local programs. WBAL on the same frequency has a similar arrangement with WJZ.

For the information of Fred W. Janssen and others, Otto F. Schulze, 2753 Mildred Ave., Chicago, Ill., points out "that anyone having proof of reception from radio stations may convert them into Ekko stamps by sending them to the Ekko Co., 400 W. Madison St., Chicago, who will, upon receipt of ten cents, mail the station stamp and return proof of reception."

Station WIBO, Chicago, confirms the information in RADEX that they mail all listeners enclosing dime with report of reception, an Ekko stamp. They are at a loss to understand complaints regarding them.

W. E. Doty, 310 West 78th St., New York City, thinks the station Chas. C. Norton had was KGPL on 1712 kcs., owned by the City of Los Angeles, and not KGBL.

"Some one asked if Pacific Coasters heard stations on the Atlantic," says L. H. Miller, 212 N. H. Street, Fresno, Calif., and adds: "About two weeks ago I heard CMK, Havana, and WSB, Atlanta. Last night I heard KDKA, Pittsburgh. These stations were received on a four-tube Meteor midget. My aerial is 100 feet of 24-carat gold-plated seven-strand wire and my ground is an old automobile radiator buried three feet in rock salt."

Ovide C. Harris, 4206 Gen. Ogden St., New Orleans, La., wants to know the

best time to tune for Japanese stations in his locality. Also "Who are makers of an apparatus called Supertone? What is the meaning of 'By electrical transcription for broadcast purposes only?' In reply to his last question, this is merely a high-sounding name for phonograph records. Many programs nowadays are made up in studios and sent to subscribing broadcasting stations for reproduction in their studios. The plan is the same as in the talkies, where the films are made in studios and sent to theatres everywhere for showing.

"On Sunday morning, between 2:00 and 2:30, EST, November 29th, I heard a station on 1340 or 1350 kcs. which sounded to me like 3-BA or 3-PZ calling WLX, and about an hour later I heard him calling Palm Beach, Fla.," reports Alfred Razzando, R. F. D. 1, Fayette City, Pa. This may have been amateur station W3BA (Alfred W. Kurz, Jr., 5551 N. Sixth St., Philadelphia, Pa.) or W3PA (Arthur S. Mattes, State Police Barracks, Reading, Pa.) or W3PZ (Joseph F. Slowik, 2207 E. Baltimore St., Baltimore, Md.). WLX is listed to Army Barracks in the Philippines. Alfred now has over 300 stations with only Wyoming lacking in the U. S.

Roger D. Causse, P. O. Box 6688, Lester, Pa., wants information regarding KRA, broadcasting on 50.3 meters about 4:00 a.m., EST. Mr. Causse wants to know how RUS can be assigned to El Salvador when the official key letter for that country is YS. He now has 35 stations verified more than 2000 miles away, and is awaiting verifications from seventeen foreign stations. For short wavers, Mr. Causse advises that a new station, CMCI, Havana, Cuba, announces that they intend to make the short-wave programs a regular feature.

"While I was listening to WOI, Ames, Iowa, on 640 kcs., during the Ames-Nebraska game, Saturday afternoon, WBBM was clearly heard in the background on the same frequency as WOI, 640. When I turned to WBBM's correct frequency, 770 kcs., there was WBBM carrying on. Might the reason have been a harmonic of some sort? This query comes from Greer McCrory, 606 Second St., S. W., Cedar Rapids, Iowa.

Noe Duranceau, 231 Hunter St., Peterboro, Ont., thinks WSVS, Buffalo, must have greater power than we give them as he gets it every day since November 17th, while before that he never received them. How about it, Buffalo, has WSVS increased power lately? This reader would like time on the air for the following stations: CHCS, WBIS, KFKX, WBOQ, WEEU, WCBQ. Some of these exist only as call letters as shown in this issue of the index.

"On November 30, at 2:10 a.m., I heard a call on 1360 kcs.," states John J. Swatko, 316 Second Ave., Homestead, Penna. "It was 'WVOW calling, do you hear me, KCCO3?' Can someone give me some information on this? We fear the latter call is incorrect, but who is WVOW? Mr. Swatko submits the slogan: "Without RADEX you are lost at Radio."

Bela Bacskai Payerle, Managing Editor of "Kanadai Magyar Ajsag," wants to know the stations broadcasting programs in Hungarian (Magyar) and the time; Who can supply this information? Mr. Payerle's address is 375 Hargrave St., Winnipeg, Man.

"Is WJSV ever on the air when WLAC and KSTP are silent?" queries C. W. Thomas, McAlester, Okla. "I have never been able to get them on account of interference."

The Month's Changes

(Continued from page 19)

		Location
900	WLBL	Stevens Point, Wis., to Ellis, Wis.
1180	KOB	State College, N. M., to Albuquerque, N. M.
1200	KSMR	Santa Maria, Calif., to Bakersfield, Calif.
	WBBZ	Ponca City, Okla., to Arkansas City, Kas.
1310	KGFW	Ravenna, Neb., to Kearney, Neb.
1370	WJTL	Tifton, Ga., to Atlanta, Ga.
		Deleted
1300	KGEF	Los Angeles, Calif.
	XETY	Mexico, Mexico.
1360	XETO	Mexico, Mexico.
1420	KFQW	Seattle, Wash.
	WIBR	Steubenville, Ohio.
1490	WJAZ	Chicago, Ill.
		Chains
950	KGHL	Billings, Mont., new NBC.
1260	KOIL	Council Bluffs, Iowa, CBS to NBC.
1360	KGIR	Butte, Mont., new NBC.
1440	WBIG	Greensboro, N. C. New CBS.
		Calls
890	KGJF	Little Rock, Ark., to KARK.
1200	CMJA	Camaguey, Cuba, to CMJG.
		Owners
1430	WFEA	Manchester, N. H., to New Hampshire Broadcasting Co.
		Permit to Change Frequency
1370	KFJI	Astoria, Ore., to 1210.
		Permit to Move
1370	KFJI	Astoria, Ore., to Klamath Falls, Ore.

Radio Troubles

(Continued from page 10)

power transformer furnishing current to a radio set?

If the short circuit is between but a few turns of wire in the primary winding of the power transformer there likely will be no evidence of the trouble. But if many turns are thrown out of use by a general short circuit the transformer will become hot after a short period of operation; its transforming efficiency will be impaired because the magnetic field will become weakened and it cannot induce sufficient voltage in the secondary windings; and, in most cases, the 110-volt wire leading to the receiver will be overloaded, and the fuses will burn out, thus saving the coils from further heating and electrical strain.

Power Tube Causes Hum

When the -26 tube in the power amplifier of my Victor RE-45 receiver is moved it develops a hum which may be stopped by still further moving of the -26 tube. Why is this?

The -26 tube in the power stage of your receiver is fitted with a potentiometer across the two filament leads to the socket. This arrangement is supposed to suppress the tendency of the tube to hum. If properly adjusted, the device will prevent the hum of the tube. It is evident that, by moving the tube, the suppressor is not adjusted properly or there is a loose connection. We suggest that this particular socket and resistor be examined for poor connections or defects. If this fails, the tube may need replacing or shielding with a hum or howl arrester.

Changing From 6 to 12-Volt Tubes

I have a Silver-Marshall 710 receiver that I would like to change from six-volt battery tubes to the new two-volt tubes. How can I do this work myself? Also, if I should use a six-volt storage battery, how can I reduce it down to two volts for the new tubes?

The change will not increase the efficiency of your receiver—in fact, it will be slightly less. But there will be a saving in battery current, and better adaptability for isolated regions. It will

(Continued on page 32)

KEY TO CHAIN STATIONS

State	City	Columbia WABC	Red—WEAF	National Blue—WJZ	Both
Alabama—	Birmingham.....	WBRC 930			WAPI 1140
Arizona—	Phoenix.....				KTAR 620
Arkansas—	Hot Springs.....				KTBS 1040
	Little Rock.....	KLRA 1390			
California—	Los Angeles.....	KHJ 900			KECA 1430
	San Diego.....	KGB 1330			KFI 640
	San Francisco.....	KFRC 610			KFSD 600
					KGO 790
					KPO 680
Colorado—	Colorado Springs.....	KVOR 1270			
	Denver.....	KLZ 560			KOA 830
Connecticut—	Hartford.....	WDRS 1330	WTIC 660		
Dist. of Col.—	Washington.....	WMAL 630			WRC 950
Florida—	Clearwater.....				WFLA 620
	Jacksonville.....				WJAX 900
	Miami.....	WQAM 560			WIOD 1300
	Orlando.....	WDBO 1120			
	St. Petersburg.....				WSUN 620
	Tampa.....	WDAE 1220			
Georgia—	Atlanta.....	WGST 890			WSB 740
	Savannah.....	WTOC 1260			
Illinois—	Chicago.....	WBBM 770	WCFL 970	WLS 870	
		WGN 720			KYW 1020
		WJJD 1130			WENR 870
Indiana—	Fort Wayne.....	WGL 1370			WMAQ 670
		WOWO 1160			
		WFBM 1230			
Iowa—	Indianapolis.....			KOIL 1260	
	Council Bluffs.....				WOC 1000
	Davenport.....				WHO 1000
	Des Moines.....				
	Sioux City.....	KSCJ 1330			
	Waterloo.....	WMT 600			
Kansas—	Topeka.....	WIBW 580			
	Wichita.....	KFH 1300			
Kentucky—	Covington.....				WCKY 1490
	Hopkinsville.....	WFIW 940			
	Louisville.....	WLAP 1010			WHAS 820
Louisiana—	New Orleans.....	WDSU 1250			WSMB 1320
Maine—	Bangor.....	WLBZ 620			
	Portland.....		WCSH 940		
Maryland—	Baltimore.....	WCAO 600	WFBR 1270	WBAL 760	
Massachusetts—	Boston.....	WAAB 1410	WEEI 590	WBZA 990	
		WNAC 1230			
	Springfield.....			WBZ 990	
	Worcester.....	WORC 1200	WTAG 580		
Michigan—	Bay City.....	WBCM 1410			
	Detroit.....	WXYZ 1240	WWJ 920	WJR 750	
Minnesota—	Minneapolis.....	WCCO 810			
	St. Paul.....				KSTP 1460
Mississippi—	Jackson.....				WJDX 1270
Missouri—	Kansas City.....	KMBC 950		WREN 1220	WDAF 610
	St. Louis.....	KMOX 1090	KSD 550	KWK 1350	
Montana—	Billings.....				KGHL 950
	Butte.....				KGIR 1360
Nebraska—					WOW 590
Nevada—	Omaha.....				
	Reno.....	KOH 1380			
New Jersey—	Atlantic City.....	WPG 1100			
New York—	Albany.....	WOKO 1430			
	Buffalo.....	WGR 550	WBEN 900		
		WKBW 1480			
	New York City.....	WABC 860	WEAF 660	WJZ 760	
	Rochester.....	WHEC 1430		WHAM 1150	
	Schenectady.....		WGY 790		
	Syracuse.....	WFBL 1360			
North Carolina—	Asheville.....				WWNC 570
	Charlotte.....	WBT 1080			
	Raleigh.....				WPTF 680
	Greensboro.....	WBIG 1440			
North Dakota—	Bismarck.....				KFYR 550
	Fargo.....				WDAY 940
Ohio—	Akron.....	WADC 1320			
	Cincinnati.....	WKRC 550	WSAI 1330	WLW 700	
	Cleveland.....	WHK 1390	WTAM 1070	WGAR 1450	
	Columbus.....	WAIU 640			
		WCAH 1430			

State	City	Columbia WABC	Red—WEAF	National Blue—WJZ	Both
	Toledo	WSPD 1340			
	Youngstown	WKBN 570			
Oklahoma—	Oklahoma City	KFFJ 1480			WKY 900
	Tulsa				KVOO 1140
Oregon—	Portland	KOIN 940		KEX 1180	KGW 620
Pennsylvania—	Harrisburg	WHP 1430			
	Oil City	WLBW 1260			
	Philadelphia	WCAU 1170	WFI 560		
		WIP 610	WLIT 560		
Rhode Island—	Pittsburgh	WJAS 1290	WCAE 1220	KDKA 980	
	Providence	WEAN 780	WJAR 890		
South Carolina—	Columbia				WIS 1010
South Dakota—	Yankton	WNAX 570			
Tennessee—	Chattanooga	WDOD 1280			
	Knoxville	WNOX 560			
	Memphis	WREC 600			WMC 780
	Nashville	WLAC 1470			WSM 650
Texas—	Dallas	KRLD 1040			WFAX 800
		WRR 1280			
	Fort Worth				WBAP 800
	Houston	KTRH 1120			KPRC 920
	San Antonio	KTSA 1290			WOAI 1190
	Waco	WACO 1240			
Utah—	Salt Lake City	KDYL 1290			KSL 1130
Virginia—	Norfolk	WTAR 780			
	Richmond				WRVA 1110
Washington—	Roanoke	WDBJ 930			
	Seattle	KOL 1270		KJR 970	KOMO 920
	Spokane	KFPY 1340		KGA 1470	KHQ 590
	Tacoma	KVI 760			
West Virginia—	Wheeling	WWVA 1160			
Wisconsin—	Eau Claire	WTAQ 1330			
	LaCrosse	WKBH 138			
	Madison				WIBA 1280
	Milwaukee	WISN 1120			WTMJ 620
	Superior				WBCB 1290
Canada—	Toronto	CFRB 690			CKGW 840
	Montreal	CKAC 730			CFCF 1030

Radio Troubles

(Continued from page 30)

be necessary to remove the resistors now in the circuit and replace them with short lengths of wire. One of these is a 1-ohm resistance in the rear of the switch and in series with the entire filament battery or A circuit. It should be replaced with a piece of wire. There is another—(3-ohm resistor)—that is grounded at one end to the metal chassis and connected at the other to the -A side of the first four radio frequency or screen-grid tubes; replace it also with a length of wire so as to close the circuit.

Replace the present tubes with four -32 screen-grid tubes, two -30 detector-amplifier tubes, and one -33 pentode power tube. Connect the plate of the -33 to terminal 3 of the power output transformer in the right-hand section of the receiver in case the connection is not made that way at present. A 7-ohm resistance is used to cut down the six volts of the storage battery to the two volts necessary for these tubes. Connect

in series, and do not turn on the battery unless all of the tubes are in place in their sockets.

Interfering Howls

I have trouble with my set when tuning below 300 meters with the high voltage switch on. There are loud howls and squawks on each side of the stations being tuned in. What is the reason and remedy?

The noises you complain of are common and beyond your control. The many stations operating below 300 meters cause severe interference, and when a set is tuned in to stations in this band there will be many howls and squawks. You have not mentioned the make of your receiver, but some sets create a bedlam of howls and squeals when stations are tuned in on the lower wave lengths. There is no remedy with your particular set until our Government thins out many stations that are now crowded together on similar wave lengths. Tune in a station with the volume toned down, and when cleared up, make louder by increasing the volume.

WHAT'S ON THE AIR TONIGHT?

COLUMBIA.....WABC

NATIONAL, Red.....WEAF

NATIONAL, Blue.....WJZ

For quick reference, fill in below the dial numbers at which you best hear the three chains.
You can then turn quickly to one that has the feature you want.

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Time is given by Eastern Standard; for Central, subtract one hour; for Mountain, subtract two hours; and for Pacific, subtract three hours.

Columbia.....WABC DAILY (Except Sunday)

12:30 Columbia Revue (Ex. Sat.)
CFRB KDYL KFH KFJF KFPY
KFRC KGB KHJ KLZ KMOX KOH
KVI KVOR WABC WACO WADC
WBRC WDBO WDOD WDRC WDSU
WEAN WFBL WGR WHEC WHP
WISN WJAS WKWB WLAP WLWB
WMAL WMT WNAC WOKO WORC
WOWO WPG WQAM WSPD WTAQ
WVVA WXYZ

2:30 American School of Air (Ex. Sat.)
KDYL KFH KFJF KFPY KFRC
KGB KHJ KLZ KMBC KMOX
KOB KOL KRLD KTSB KVI KVOR
WABC WADC WBBM WBCM WBRC
WBT WCAO WCCO WDAE WDBJ
WDBO WDOD WDRC WDSU WEAN
WFBL WFBM WGR WHEC WHK
WHP WIBW WISN WJAS WKBB
WKRC WLAP WLWB WMAI
WMT WNAC WNAW WOKO WORC
WOWO WPG WQAM WSPD WTAQ
WTOC WVVA WXYZ

7:00 Myrt and Marge (Ex. Sat.)
KMOX WABC WADC WCAO WCAU
WDRS WEAN WFBL WGR WJAS
WKRC WMAL WNAC WOKO WSPD
WVVA

7:15 Cremo, Bing Crosby
WABC WACO WADC WBIG WBT
WCAH WCAO WCAU WDAE WDBJ
WDBO WDRS WEAN WFBL WGR
WHEC WHK WHP WJAS WKRC
WLWB WLWB WMAL WNAC WOKO
WORC WOWO WQAM WRR WSPD
WTAR WTOC WXYZ

7:30 Baker, Boswell Sisters (Ex. Tues., Thurs., Sat.)
KFH KMBC KMOX WADC WCAH
WCCO WDRS WEAN WFBL WGR
WHK WISN WJAS WKRC WNAC
WOKO WORC WSPD WVVA WXYZ

7:45 Camel, Morton Downey
KFH KFJF KLRA KMOX KRLD
KSCJ KTRH WABC WACO WADC
WBIG WBRC WBT WCAH WCAO
WCAU WCCO WDAE WDBJ WDBO
WDOD WDRC WDSU WEAN WFBL
WFBM WGR WGST WHEC WHK
WHP WIBW WISN WJAS WKRC
WLAC WLAP WLWB WMAL WMT
WNAC WNAW WNOX WOKO WORC
WQAM WREC WSPD WTAR WTOC
WVVA WXYZ KMBC

8:00 Columbians, Freddie Rich (Ex. Tues, Thurs., Sat.)
CFRB KDYL KFH KFJF KFPY
KGB KHJ KMBC KMOX KOH
KRLD KVOR WABC WACO WADC
WBCM WBRC WBT WCAO WCCO
WDAE WDBO WDOD WDRC WDSU
WEAN WFBL WFBM WGL WGR
WGST WHEC WHK WHP WIBW
WISN WJAS WLAP WLWB WLWB
WMAL WMT WNAW WOKO WORC
WPG WQAM WSPD WTAQ WTOC

National, Red.....WEAF DAILY (Except Sunday)

8:00 Gene and Glenn
WBEN WCAE WCSH WEAF WEEI
WFI WGY WJAR WRC WSAI WTAG
WTAM WTIC WWJ

8:15 Morning Devotions
KFYR WBEN WCAE WCKY WCSH
WEAF WFBW WFI WFLA WGY
WHAS WIBA WIOD WIS WJAR
WJAX WJDX WOW WPTF WRC
WRVA WSMB WTAG WTIC WWJ
WWNC

8:30 Cheerio
CFCC CKGW KPRC WAPI WBEN
WCAE WCKY WCSH WDAF WEAF
WEEI WFBW WFI WFLA WGY
WHAS WIOD WIS WJAR WJAX
WJDX WKY WOAI WOW WPTF
WRC WRVA WSB WSM WSMB
WTAG WTAM WTIC WWJ WWNC

3:00 Woman's Radio Review (Ex. Sat.)
KSD KYW WBEN WCAE WCSH
WDAF WEAF WEEI WFI WGY
WHO WJAR WOC WOW WRC
WSAI WTAG WTAM WTIC WWJ

4:30 Phil Spitalny Tea Dansante
KSD WBEN WCAE WEAF WEEI
WGY WHO WJAR WOC WTAG
WTAM WWJ

5:00 Lady Next Door (Ex. Thur.)
KSD WEAF WENR WJAR WRC
WTAG WTAM

5:45 Russ Columbo and Orch. (Ex. Tues., Thur., Sat.)
KSD WBEN WCSH WDAF WEAF
WEEI WENR WFBW WGY WHO
WJAR WLIT WOC WOW WRC
WSAI WTAG WTIC WWJ

6:00 Waldorf-Astoria Orchestra
CKGW KFSD KGO KSD KSL WAPI
WCAE WCKY WEAF WEEI WENR
WFI WHAS WIOD WIS WJDX WKY
WRC WSM WTAM

6:45 Swift, Stebbins Boys (Ex. Sat.)
KSD WBEN WCAE WCSH WEAF
WEEI WFI WGY WJAR WRC WSAI
WTAG WTAM WTIC WWJ

7:15 Campbell, Lannin Orch. (Ex. Tues., Sat.)
WBEN WCSH WDAF WEAF WENR
WFBW WGY WJAR WLIT WOW
WRC WSAI WTAG WTAM

7:30 Prince Albert, Alice Joy
KFYR KSTP WBEN WCSH WDAF
WDAE WEAF WBEBC WEEI WFBW
WFLA WGY WIBA WIOD WIS
WJAR WJAX WKY WLIT WOAI
WRC WRVA WSAI WTAG WTAM
WTMJ WWJ WWNC

7:45 The Goldbergs, Comedy Sketch
WBEN WCAE WEAF WENR WGY
WSAI WTAM WWJ

10:00 Lucky Strike Walter Winchell (Ex. Mon., Wed., Fri.)
KFI KFSD KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR WAPI WBEN WCAE WCSH

National, Blue.....WJZ DAILY (Except Sunday)

12:30 National Farm and Home Hour
KDKA KFAB KFYR KOA KPRC
KSTP KTBS KVVO KWK KYW
WAPI WBAL WBZA WCKY WDAF
WDAE WBEBC WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOC
WOW WPTF WRC WREN WRVA
WSB WSM WSMB

5:30 Old Pappy Negro Sketches
KWK WJZ WREN

5:45 Little Orphan Annie
WBAL WFLA WGAR WHAM WIOD
WJAX WJZ WLW WPTF WRVA

6:00 Raising Junior (Ex. Wed.)
KWK KYW WBAL WBEBC WGAR
WHAM WIBA WJZ

6:45 Literary Digest, Lowell Thomas
KDKA WBAL WBZA WHAM WJZ
WLW

6:45 Little Orphan Annie
KFYR KPRC KSTP KWK WDAY
WBEBC WENR WKY WOAI WREN

7:00 Amos 'n' Andy
CFCC CKGW KDKA WBAL WBZA
WCKY WFLA WGAR WHAM WIOD
WJAX WJR WJZ WLW WPTF WRC
WRVA

7:15 Tastyest Jesters (Ex. Tues., Wed., Fri.)
KDKA WBAL WBZA WCKY WFLA
WGAR WHAM WIOD WJAX WJZ
WPTF WREN WRVA

7:30 Phil Cook, Quaker Man (Ex. Sat.)
KDKA KWK WBAL WBZA WENR
WGAR WHAM WJZ WREN

8:45 Sisters of Skillet (Ex. Mon., Wed., Sat.)
KDKA KFYR KOIL KPRC KSTP
KVVO KWK WBAP WBZA WDAE
WBEBC WHAM WJZ WKY WLS
WOAI WREN WTMJ

10:00 Russ Columbo and Orchestra (Ex. Mon., Wed., Fri.)
KWK WBAL WCKY WGAR WJR
WJZ WREN

10:30 Clara, Lu and Em (Ex. Mon.)
KDKA KWK KYW WBAL WBZA
WCKY WGAR WHAM WJR WJZ
WREN

11:00 Amos 'n' Andy
KECA KFSD KGO KGW KHQ KOA
KOIL KOMO KPRC KSL KSTP
KTBS KWK WBAP WDAF WBEBC
WENR WHAS WIBA WJDX WKY
WMAQ WMC WOAI WREN WSB
WSM WSMB WTMJ

11:15 Literary Digest, Lowell Thomas
KFYR KOIL KWK WDAY WBEBC
WMAQ WREN

11:45 Lew White, Organ (Ex. Tues., Fri.)
KDKA KFAB KFYR WBAL WENR
WJZ WRC WREN WSB

12:00 Mildred Bailey and Jesters (Ex. Tues., Fri.)
KDKA WENR WGAR WJR WJZ

Columbia-----WABC

8:00 Col. Steopagle and Budd (Ex. Mon., Wed., Fri.)
CFRB KDYL KFH KFMF KFPY KGB KMBC KMOX KOH KRLD KTSB KVOR WABC WACO WADC WBCM WBRC WBT WCAO WCCO WDBJ WDOD WDRC WDSU WEAN WFBL WFBM WGL WGR WHC WHK WHP WIBW WISN WLAC WLAP WLWB WLWZ WMAL WMT WMT WNAK WNOX WORC WPG WQAM WSPD WTOC WVVA WXYZ

8:15 Singing Sam, Barbasol (Ex. Tues., Thurs., Sat.)

KMBC KMOX WABC WADC WCAO WCAU WCCO WDRC WEAN WFBL WFBM WGN WHK WJAS WKBW WKRC WML WNAK WOKO WSPD WXYZ

8:15 Sterling, Abe Lyman's Band (Ex. Mon., Wed., Fri.)

KRFJ KMBC KMOX WABC WADC WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WGN WGR WGST WHK WJAS WKRC WMAL WNAK WREC WSPD WXYZ

8:30 Kate Smith, La Palina (Ex. Fri. and Sat.)

KMBC KMOX WABC WADC WBCM WCAH WCAO WCAU WCCO WFBL WFBM WGR WHC WHK WISN WJAS WKRC WLAP WMAL WSPD WXYZ

10:30 Chesterfield, Shilkret Orch.

CFRB KDYL KEJF KFPY KGB KLZ KMBC KOH KTSB KVOR WAAB WABC WACO WADC WBCM WBRC WBT WCAO WDAE WDBJ WDOD WDOD WDRC WDSU WEAN WFBL WFBM WHC WHP WIBW WISN WJAS WKBW WKRC WLAP WLWB WLWZ WMAL WMT WNAK WOKO WORC WWO WPG WQAM WSPD WTAQ WXYZ

10:45 Myrt and Marge (Ex. Sat.)

KDYL KFPY KFCR KHJ KLZ KMBC KOIN KOL WBBM WCCO WLAP WXYZ

11:00 Cremo, Bing Crosby

KDYL KFH KFMF KFPY KLRA KLZ KMBC KMOX KOH KOIN KOL KSCJ KTRH KTSB WBCM WBRC WCCO WDOD WDSU WFBM WGN WGST WIBW WISN WLAC WLAP WMT WNAK WNOX WOWO WREC

11:15 Street Singer (Ex. Tues., Thurs., Sat.)

CFRB KDYL KFH KFMF KFPY KGB KLZ KMBC KOH KTSB KVOR WAAB WABC WACO WADC WBCM WBRC WBT WCAO WDAE WDBJ WDOD WDOD WDRC WDSU WEAN WFBL WFBM WHC WHP WIBW WISN WJAS WKBW WLAP WLWB WLWZ WMAL WMT WNAK WORC WWO WQAM WSPD WTOC

11:15 Jack Miller and Orch. (Ex. Mon., Wed., Fri.)

CFRB KFMF KFPY KFCR KGB KLZ KMBC KOH KVOR WAAB WABC WACO WADC WBCM WBRC WBT WCAO WDBJ WDOD WDOD WDSU WEAN WFBL WFBM WHC WHP WIBW WISN WJAS WKBW WLAP WLWB WLWZ WMT WNAK WOKO WORC WWO WQAM WSPD WTOC

11:30 Camel, Morton Downey
KDYL KFPY KFCR KGB KHJ KLZ KOH KOIN KOL WGN WOWO

National, Red-----WEAF

WDAF WDAY WEAF WEBC WEEI WENR WFAA WFBR WFI WFLA WGY WHAS WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMC WOAI WOC WRC WRVA WSAI WSB WSM WSBM WTAG WTAM WTIC WTMJ WWJ WNNC
11:00 Marion Harris, Songs (Ex. Mon., Wed.)

KSD WCAE WEAF WFI WGY WIOD WIS WJAX WRC WTIC WWJ WNNC

11:15 Prince Albert, Alice Joy
KPRC KSD KTHS WAPI WBAP WENR WHAS WHO WJDX WMC WOC WOW WSB WSM WSBM

SUNDAY

11:30 Major Bowes' Family
WCKY WDAF WEAF WENR WEO WOC WTAM WTIC

1:30 Silver Flute
CFCF KSD WBN WCAE WDAF WEAF WEEI WFI WGY WHO WJAR WMAQ WOC WTAG WTAM WTIC WJJ

1:45 Old Company's Program
CFCF CKGW WBN WCSH WEAF WEEI WFI WGY WJAR WRC WTAG WTIC

2:15 Bright Spot, Pettis Orch.
CFCF CKGW KECA KFSD KFYR KGL KHQ KOA KPO KPRC KSD KSL KSTP KTAR KVOO KYW WAPI WBN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBF WFLA WGY WHAS WHO WIOD WJAR WJAX WJDX WKY WLIT WMC WOAI WOC WOW WPTF WRC WRVA WSAI WSB WSM WSBM WTAG WTAM WTIC WTMJ WWJ

2:30 Moonshine and Honeysuckle, Drama
KSD WCAE WCSH WDAF WEAF WEEI WFBF WGY WJAR WMAQ WOW WRC WTAG WTAM WTIC WWJ

3:00 Wayne King's Orchestra
KSD KYW WBN WCAE WCSH WDAF WEAF WEEI WGY WHO WJAR WLIT WOC WOV WRC WSAI WTAG WTAM WTIC WWJ

3:30 Dr. S. Parkes Cadman
KFSD KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSL KSTP KTHS KVOO KYW WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBF WFLA WGY WHAS WIOD WIS WJAR WJAX WJDX WKY WMC WOAI WOV WPTF WRC WRVA WSAI WSB WSM WSBM WTAG WTIC WWJ WNNC

4:00 Florsheim Frolic, Grofe's Orch.
KFI KFSD KFYR KGO KGW KHQ KOA KOMO KPRC KTAR KTHS KVOO WAPI WBAP WBN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBF WFLA WGY WHAS WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSAI WSB WSM WSBM WTAG WTAM WTIC WWJ WNNC

4:30 Wonder Program, Shields Orch.
WBN WCAE WCSH WDAF WEAF WEEI WENR WFBF WFI WGY WHO WJAR WOC WOW WRC WSAI WTAG WTAM WTIC WWJ

5:00 Cosmopolitans, String Ensemble
CFCF WCAE WCSH WDAF WEAF WEEI WFBF WFI WGY WHO WJAR WOC WRC WSAI WTAG WTAM WTIC WTTIC

National, Blue-----WJZ

SUNDAY

11:30 Morning Musicale
KFAB KPO KPRC KVOO KWK WAPI WBAL WDAY WFLA WHAM WHAS WJZ WKY WLW WMC WPTF WREN WSM WTMJ KOA

12:30 Balkan Mountain Men
KDKA KECA KEX KGA KJR KPO WBAL WCKY WGAR WHAM WJZ
1:00 Sentinels of the Republic
KDKA KFAB KFYR KGO KGW KOA KOMO KPRC KSL KSTP WAPI WBAL WDAY WEBC WGAR WHAS WIBA WIOD WJAX WJZ WRC WSM

1:15 Walter Damosch Hour
KDKA KFAB KFI KFSD KFYR KGO KGW KOA KOMO KPRC KSL KSTP KTAR KVOO KWK WBAL WBA WDAY WEBC WFAA WFLA WHAS WIBA WIOD WIS WJDX WJR WJZ WKY WLW WMAQ WOAI WRC WREN WSB WSM WSBM WNNC

2:15 Careless Love, Negro Drama
KDKA WBAL WCKY WJZ WREN
2:30 Yeast Foamers, Kay's Orch.
KDKA KECA KFSD KGW KHQ KOA KOIL KPO KPRC KSL KSTP KTAR KTHS KVOO KWK KYW WAPI WBAL WBA WEBC WFAA WFLA WGAR WHAM WHAS WIOD WIS WJAX WJDX WJR WJZ WKY WLW WMC WOAI WPTF WREN WRVA WSB WSM WSBM WTMJ WNNC

3:00 National Youth Conference
KDKA KFSD KGO KGW KHQ KOA KOMO KPRC KTHS KVOO WAPI WBAL WCKY WFLA WGAR WIOD WIS WJAX WJDX WJZ WKY WMAQ WMC WOAI WPTF WRVA WSB WSBM WNNC

4:00 Travelogue, Malcolm LaPrade
CFCF CKGW KDKA KWK WBAL WBA WGAR WJZ WLW WMAQ
4:30 Musical Showmen
CKGW KDKA KOIL KWK WBAL WHAM WJZ WMAQ

5:00 National Vespers
KFI KFSD KFYR KGO KGW KHQ KOMO KPRC KSTP KTHS KVOO KWK WBAL WBA WCKY WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WIS WJDX WJZ WKY WMAQ WMC WOAI WPTF WRVA WSB WSBM WNNC

5:30 Simoniz Guardsmen
KOIL KWK KYW WBAL WBA WGAR WHAM WJZ WLW WREN
6:45 Adventures Barbara Wayne
KWK WBAL WBA WGAR WJR WJZ WLW WMAQ WREN

7:00 Willys-Overland Orchestra
KDKA KFI KFSD KFYR KGO KGW KHQ KOA KOIL KOMO KSL KSTP KTAR KWK KYW WBAL WCKY WDAY WEBC WGAR WIBA WJR WJZ WREN WTMJ

7:15 Dalhart Instrumental Trio
KDKA KWK WBAL WFLA WHAM WHAS WJZ WLS WREN WRVA WNNC

7:30 The Three Bakers
KDKA KFI KFSD KFYR KGO KGW KHQ KOA KOMO KPRC KSL KSTP KTAR KVOO KWK KYW WBAL WBA WDAY WEBC WFAA WFLA WGAR WHAM WHAS WIBA WIOD WJDX WJR WJZ WKY WLW WMC WOAI WREN WRVA WSB WSM WSBM WTMJ

Columbia.....WABC

SUNDAY

1:00 Cathedral Hour
CFRB KDYL KFJF KFPY KLZ
KMBC KOH KOL KRLL KTSB KVI
KVOR WAAB WABC WADC WBCM
WBRC WBT WCAH WCCO WDBJ
WDBO WDOD WDRC WDSU WFBL
WGL WGR WHEC WHP WJAS
WKBH WLAP WLWB WLWB WMAL
WOKO WORC WOWO WPG WQAM
WTOC WWVA WXYZ

1:45 Venida Program
KMBC KMOX WAAB WABC WBBM
WCAU WDRC WFBL WGR WHK
WJAS WKRC WMAL

2:00 Sons of Eli, Spirituals
KMBC KMOX KRLL WABC WADC
WBBM WBRC WBT WCA WCAU
WCCO WDRC WDSU WEA WFB
WGR WHK WJAS WKRC WLAC
WMAL WNAC WWO

2:30 Columbia Church of Air
KDYL KFJF KFPY KFRC
KGB KLZ KMBC KOH KOL KVOR
WAAB WABC WACO WADC WBCM
WBT WCAO WCCO WDAE WDBJ
WDBO WDOD WDRC WDSU WFBM
WGL WHEC WHP WIBW WJAS
WKBH WKRC WKRC WLAP WLWB
WLWB WMAL WOKO WORC WPG
WQAM WTOC WWVA WFBL

3:00 N.Y. Philharmonic Symphony Orch.
CFRB KDYL KFJF KFPY KFRC
KGB KHJ KLZ KMBC KMOX KOH
KOL KVI KVOR WAAB WABC
WACO WADC WBRC WBT WCAO
WCCO WDAE WDBJ WDBO WDSU
WEAN WFBM WGL WHEC WHK
WHP WISN WJAS WKBH WKRC
WKRC WLAP WLWB WLWB WMAL
WOKO WORC WQAM WSPD WTOC
WWVA WXYZ

5:00 Rev. Donald Grey Barnhouse
KFH KRLL WAAB WABC WADC
WBT WCAU WCCO WFBL WGR
WJAS WKRC WLAC WOWO WSPD
WXYZ

5:30 Blue Coal Radio Recue
CFRB WAAB WABC WCAO WCAU
WDRC WEAN WFBL WGR WHEC
WHP WOKO WORC

6:00 Chicago Knights
KDYL KFJF KFPY KFRC KGB
KHJ KLZ KMBC KOH KOL KRLL
KVI KVOR WACO WIBW WISN
WKRC WLAP WWVA

6:30 Barnsdall Musical Memories
KLRA KMBC KMOX KSCJ WCCO
WGL WGN WIBW WISN WMT
WSPD WXYZ

7:00 The World's Business
KFH KFJF KFPY KFRC KGB KHJ
KLZ KMBC KOH KOL KRLL KVI
KVOR WABC WACO WADC WBT
WCCO WDAE WDBJ WDBO WDOD
WDSU WFBM WGL WGR WHEC
WHP WIBW WISN WJAS WKBH
WKRC WLAP WLWB WLWB WMAL
WNAX WOKO WPG WQAM WTOC
WWVA KDYL WFBL

7:15 Sylvanians — Orchestra
KMBC KMOX WABC WCAO WCAU
WCCO WDRC WGL WGN WGR
WJAS WKRC WNAC WOKO WXYZ

7:30 Luden's Novelty Orchestra
KDYL KLZ KMBC KMOX KRLL
WABC WBT WCAO WCAU WCCO
WDSU WFBM WGN WGR WHK
WKBH WKRC WMAL WNAC WNAX
WREB WXYZ WGST

National, Red.....WEAF

5:30 General Electric Hour
KECA KEX KFJR KGA KJR KOA
KPO KPRC KSD KSL KSTP KTAR
KVOO WAPI WBAP WBEN WCAE
WCBS WDAF WDAY WFAE WFCB
WEEI WENR WFBR WFI WFLA
WGY WHAS WHO WIBA WIOD
WIS WJAR WJAX WJDX WKY
WMC WOAI WOC WOW WPTF
WRC WRVA WSAI WSB WSMB
WTAG WTAM WTIC WTMJ WWJ
WWNC

6:00 Catholic Hour
KEX KFJR KGA KJR KOA KPO
KPRC KSD KSTP KTAR KVOO
WBAP WBEN WCAE WCBS WDAF
WDAY WFAE WFCB WEEI WENR
WFBR WFLA WGY WHO WIBA
WIOD WJAR WJAX WJDX WKY
WLIT WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSM
WTAG WTAM WTIC WTMJ WWJ
WWNC

6:30 Through the Opera Glass
KPRC WDAF WFAE WGY WRC
WTIC WWNC

7:15 Jolly Time Revue
KSD WB N WCAE WCBS WDAF
WFAE WFBF WGY WJAR WLS
WRC WSAI WTIC

7:30 Jodent Club of Air
KSD WBEN WCAE WCBS WDAF
WFAE WGY WHO WJAR WLIT
WLS WOC WRC WSAI WTAG WTAM
WTIC WWJ

8:00 Chase & Sanborn Hour
CFBC CKGW KPRC KSD KSTP
KTHS KVOO WBEN WCAE WCBS
WDAF WFAE WFCB WFAA WFLA
WGY WHAS WHO WIOD WJAR
WJDX WKY WLIT WLS WMC
WOAI WOC WOW WRC WSAI
WSB WSMB WTAG WTAM WTIC
WTMJ WWJ

9:00 Our Government, David Lawrence
KSD KTHS KVOO WBEN WCBS
WFAE WENR WFAA WFBF WFI
WFLA WGY WHO WIOD WIS WJAR
WJDX WOC WOW WRC WSAI
WWNC

9:15 Atwater Kent Hour
KFI KFSD KFJR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR WAPI WBEN WCAE WCBS
WDAF WDAY WFAE WFCB WENR
WFBF WFI WFLA WGY WHAS
WHO WIBA WIOD WIS WJAR
WJAX WKY WOAI WOC WOW
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WWJ WWNC
WJDX

10:15 National Oratorio Society
KFSD KGO KGW KOA KOMO
KPRC KSTP KTAR WAPI WBEN
WCAE WCBS WFAE WEEI WFBF
WFI WGY WHAS WJAR WKY
WOAI WRC WSB WTAG WTAM
WTIC WTMJ

10:45 Seth Parker's Neighbors
KPRC KSTP KYW WBEN WFAE
WFCB WEEI WHAS WIBA WIS
WJAR WMC WOAI WSB WTMJ
WWJ WWNC

11:15 Ralph Kirbery, Dream Singer
WFAE WFBF WFI WGY WHO WOC
WOW WWJ

11:30 Jesse Crawford, Organ
WDAF WFAE WENR WFBF WGY
WHO WJAR WOC WRC WWJ

National, Blue.....WJZ

8:00 Enna Jettick Melodies
CFBC CKGW KDKA KFI KFSD
KFJR KGO KGW KHQ KOA KOIL
KOMO KPRC KSL KSTP KTAR
KTHS KVOO KWK KYW WBAL
WBZA WDAY WFCB WFAA WFLA
WGAR WHAM WHAS WIBA WIOD
WIS WJDX WJR WJZ WKY WLW
WMC WOAI WREN WRVA WSB
WSM WSMB WWNC

8:15 Colliers Radio Hour
KDKA KFI KGO KGW KHQ KOA
KOMO KSL KWK KYW WBAL
WBZA WGAR WHAM WJR WJZ
WLW WREN

9:15 Bayuk Stag Party
KDKA KWK KYW WBAL WBZA
WGAR WJR WJZ WLW WREN

9:45 Kellogg Slumber Music
KDKA KWK KYW WBAL WBZA
WHAM WJR WJZ WLW WREN

10:15 Thrillers, Dramatic Program
KDKA KWK WBAL WBZA WENR
WGAR WHAM WJZ WREN

10:45 Land of Wonder and Fear
KDKA KWK WBAL WBZA WENR
WGAR WHAM WJZ WREN

11:00 David Novalis, Violinist
KDKA KFAB KOA KPRC WBAL
WENR WGAR WJR WJZ WKY
WREN WWNC

11:45 South Sea Islanders
KFAB KFJR KPRC KSTP KWK
WBAL WCKY WGAR WIBA WJZ
WKY WMC WREN WSB

MONDAY

7:45 Waves of Melody
KOIL KWK WBAL WCKY WHAM
WJZ WMAQ WREN

8:00 Archer Organ, Organ
CKGW WBAL WHAM WJR WJZ
WREN

8:30 Death Valley Days, Drama
KDKA KFI KFSD KFJR KGO
KGW KHQ KOA KOMO KSL KSTP
KTAR KWK WBAL WBZA WFCB
WGAR WHAM WIBA WJZ WLS
WREN

9:00 Maytag Orchestra
KDKA KFI KFJR KGO KHQ KOA
KOMO KPRC KSL KSTP KVOO
KWK WBAL WBZA WDAY WFCB
WFAA WGAR WHAM WJR WJZ
WKY WLS WMC WOAI WREN
WSM WTMJ

9:30 Musical Dominos
KDKA KWK KYW WBAL WBZA
WGAR WHAM WJR WJZ WLW
WREN

10:00 Musical Express
KDKA KFI KFSD KGO KGW KHQ
KOA KOMO KSL KSTP KTAR
KWK WBAL WBAP WBZA WFCB
WFLA WGAR WHAM WIOD WJAX
WJR WJZ WKY WMAQ WMC
WOAI WREN WRVA WSB WSM
WTMJ

11:00 Slumber Music
CFBC WBAL WIOD WIS WJR WJZ
WRC WWNC

TUESDAY

4:00 U.S. Army Band
KFAB KFJR KOA KPO KSTP
WAPI WBZA WGAR WIBA WJR
WJZ WRC WREN WSM

7:15 Gayteens Orchestra Odette Myrtil
KOIL KWK WBAL WENR WJZ
WLW WREN

7:45 Back of the News
KFSD KFJR KGO KHQ KOA KOMO

Columbia.....WABC

National, Red.....WEAF

National, Blue.....WJZ

MONDAY

8:00 Devils, Drugs and Doctors
KDYL KPFP KHJ KLZ KMBC
KMOX KOIN KOL KSCJ K TSA
WABC WADC WBRC WCAO WCAU
WCCO WDRC WDSU WEAN WFBL
WFBM WGN WGR WGST WHEC
WHK WIBW WJAS WKRC WLAC
WMAI WNAO WREC WRR WSPD
WXYZ FNAC

8:15 Manhattan Serenaders
KDYL KFJF KPFP KFCR KGB
KMOX KOH KOL K TSA KVOR
WABC WACO WADC WBRC WCAO
WCCO WDAE WDBO WDOD WDRC
WFBM WGL WGR WHEC WHP
WIBW WISN WJAS WLAP WLWB
WLWB WOKO WORC WSPD WTOC
WXYZ

8:45 Angelo Patri, Your Child
KMBC KMOX WABC WADC WCAO
WCAU WCCO WDRC WEAN WFBL
WGN WGR WHK WJAS WKRC
WMAI WNAO WNOW WSPD WXYZ

9:00 Sheaffer Pen, Phil Baker
CFRB KDYL KFJF KPFP KFCR
KGB KLZ KMBC KMOX KOH KOL
K TSA KVOR WABC WADC WBRC
WBT WCAO WCCO WDAE WDBJ
WDBO WDOD WDRC WDSU WEAN
WFBM WHEC WHP WIBW WISN
WJAS WLAP WLWB WLWB WMAI
WNAO WNAO WOKO WORC WOWO
WQAM WSPD WTOC

9:30 Romance of the Sea, Drama
CFRB KDYL KPFP KFCR KHJ
KLZ KMBC KMOX KOIN KOL
WABC WADC WCAO WCAU WDRC
WEAN WFBL WGN WGR WHK
WJAS WKRC WMAI WNAO WOWO
WSPD WXYZ

10:00 Hopper Variety Show
KDYL KFJF KPFP KLZ KMBC
KMOX K TSA WAAB WABC WADC
WBMB WCAO WCAU WCCO WDRC
WDSU WFBL WFBM WGST WHEC
WHK WISN WJAS WKRC WRCR
WLAP WLWB WMAI WOKO WORC
WOWO WREC WSPD WXYZ KRLD

10:30 Ernest Hutcheson, Pianist
CFRB KFJF KPFP KFCR KGB KLZ
KOH KOL KVOR WABC WADC
WBGM WBRC WBT WCAO WDAE
WDBJ WDBO WDOD WDRC WDSU
WEAN WFBL WHEC WHP WIBW
WJAS WKRC WLAP WLWB WLWB
WMAI WNAO WOKO WORC WPG
WQAM WSPD WXYZ

11:00 The Gauchos, Tito Guizar
KDYL KFJF KPFP KLZ KMBC
KOH KOL KVOR WABC WADC
WBGM WBT WCAO WDAE WDBJ
WDBO WDRC WFLB WFBM WGR
WHK WHP WIBW WKRC WLWB
WMAI WNAO WNAO WOKO WPG
WQAM WSPD WTOC WXYZ

11:30 Ben Bernie and Orchestra
KDYL KFJF KPFP KGB KHJ KLRA
KOH KOL KVOR WABC WADC
WBGM WBRC WBT WCAO WCCO
WDAE WDBJ WDBO WDRC WEAN
WFBL WGL WGR WHEC WHP
WIBW WISN WJAS WKRC WLAP
WLWB WLWB WMAI WNAO WNAO
WOKO WPG WQAM WSPD WTOC
WXYZ

12:00 Eddie Duchin and Orchestra
KDYL KFJF KPFP KMBC KOH
KOL KVOR WABC WBGM WCCO
WEAN WFBL WGR WHP WIBW
WISN WKRC WLWB WNAO WNAO
WOKO WSPD

8:00 Soconyland Sketches
WBEN WCSH WEAF WEEI WGY
WJAR WTAG WTIC

8:30 Voice of Firestone
CFCE CKGW KPRC KSD KTHS
KVOO WBEN WCAE WCSH WDAF
WEAF WFAA WFBR WFLA WGY
WHAS WHO WIOD WIS WJAR
WJAX WJDX WKY WLIT WMAQ
WOAI WOC WOW WRC WRVA
WSAI WSB WSMB WTAG WTAM
WTIC WWJ WNNC WEEI

9:00 A. & P. Gypsies
KSD WBEN WCAE WCSH WDAF
WEAF WEEI WGY WHO WJAR
WLIT WMAQ WOC WOW WRC
WSAI WTAG WTAM WTIC WWJ

9:30 Parade of the States
KEI KFYP KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP
WCAE WCSH WDAF WEAF WEEI
WENR WFAA WGY WHAS WHO
WJAR WJAX WKY WLIT WMC
WOAI WOC WOW WRC WSAI
WSB WSM WTAG WTAM WTIC
WTMJ WWJ WBN

10:00 True Story, Mary and Bob
KSD WBEN WCAE WCSH WEAF
WEEI WENR WFBR WGY WHO
WJAR WLIT WOC WRC WSAI
WTAM WWJ WTAG

10:45 Phantom Caravan
CFCE WBEN WCAE WCSH WEAF
WEEI WENR WGY WHO WJAR
WOC WRC WTAG WWJ

TUESDAY

7:00 Mid-Week Federation Hymn Sing
KEX KGA KJR KOA KSPF KTAR
WBEN WCAE WEAF WFI WJDX
WSAI WSB WSM WTAG WTIC

8:00 Blackstone, Sanderson-Crumit
KSD KSTP KYW WBEN WCAE
WCSH WDAF WEAF WEEI WEEI
WFI WGY WHO WJAR WOC WOW
WRC WSAI WTAG WTAM WTIC
WWJ

9:00 McKesson Musical Magazine
KEI KFSD KFYP KGO KGW KHQ
KOA KOMO KPRC KSD KSL KTAR
KTHS KVOO WBEN WCAE WCSH
WDAF WDAY WEAF WEEI WEEI
WFI WFLA WGY WHAS WHO WIOD
WIS WJAR WJAX WJDX WKY
WES WMC WOAI WOC WOW WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ

9:30 The Fuller Man
KECA KGO KGW KHQ KOA KOMO
KSD KSL KSTP KYW WBAF WBEN
WCAE WCSH WDAF WEAF WEEI
WEEI WFI WGY WHO WJAR WKY
WOAI WOC WOW WRC WSAI
WSB WTAG WTAM WTIC WTMJ
WWJ

11:15 Jesse Crawford, Organ
WEAF WEEI WFI WIOD WJAR
WRC WTIC WNNC

11:30 Jack Denny and Orchestra
CFCE KPRC KSD KTHS WCAE
WEAF WFI WJAR WJAX WOW
WRC WTAM WTIC WWJ

12:05 Rudy Vallee and Orchestra
KFYP KSD KTHS WBEN WCAE
WDAF WEAF WHO WIBA WOC
WOW WRC WSB WSM WTIC WTMJ

12:30 Waldorf-Astoria Dance Orch.
KGO KPRC KSD KSTP WCAE
WEAF WENR WHO WOC WRC
WSB WSM WTIC

KSL WCKY WDAY WEBC WFLA
WIOD WIS WJZ WRC WREN

8:00 Armstrong Quakers
KDKA KOLL KWK WBAL WBZA
WHAM WJR WJZ WLS WLW WREN

8:30 Heel Hugger Harmonies
KEI KFSD KGW KHQ KOA KOIL
KOMO KPO KSL KTAR WHAM
WJZ WLS WREN

9:00 Household Finance Program
KDKA KWK WBAL WBZA WHAM
WJZ WMAQ WREN

9:30 Great Personalities
KDKA KOLL KWK WBAL WBZA
WENR WGAR WHAM WJR WJZ
WLW WREN WRVA

10:45 Paris Night Life
KDKA KYW WBAL WBZA WCKY
WGAR WHAM WJZ WREN

11:45 Dream Pictures, Archer Gibson
KFAB WBAL WENR WGAR WJR
WJZ WREN

WEDNESDAY

7:45 Believe It or Not Ripley
KDKA WBAL WBZA WHAM WIS
WJZ WPTF WRVA WNNC

8:00 College Memories Male Quartet
KEI KFSD KFYP KGO KGW KHQ
KOA KOIL KOMO KPRC KSL KSTP
KTAR KVOO KWK KYW WBAL
WCKY WDAY WEBC WFAA WGAR
WHAM WHAS WIBA WJDX WJR
WJZ WMC WOAI WREN WSB
WSM WSMB WTMJ

8:15 Guy Robertson Baritone
KFYP KOA KOIL KPRC KSL KSTP
KVOO KWK KYW WBAL WBAF
WBZA WCKY WDAY WEBC WFAA
WFLA WGAR WHAM WHAS WIBA
WIOD WJAX WJDX WJR WJZ
WKY WMC WOAI WREN WRVA
WSB WSM WSMB WTMJ WNNC

8:30 Jack Frost Melody Moments
KDKA FBAL WGAR WHAM WJR
WJZ WLS WLW

9:00 Adventures of Sherlock Holmes
KDKA KWK WBAL WBZA WGAR
WHAM WJR WJZ WLW WMAQ
WREN

9:30 Dutch Masters Program
KDKA KWK WBAL WBZA WENR
WGAR WHAM WJR WJZ WLW
WREN

10:45 Hollywood Nights
KDKA KWK KYW WBAL WBZA
WGAR WHAM WJR WJZ WREN

11:00 Slumber Music
WBAL WIOD WJR WJZ WNNC

12:15 Larry Funk and Orchestra
KFYP KOA KSTP KTHS WBAL
WENR WGAR WJR WJZ WSB WSM
12:30 Ernie Holst's Orchestra
KOA WENR WGAR WJR WJZ
WREN WSB WSM

THURSDAY

4:14 U.S. Navy Band
WHAM WJR WJZ WRC WREN

5:00 Coffee Matinee
KDKA KFAB KWK KYW WBAL
WBZA WGAR WHAM WJZ WLW
WREN

7:45 Famous Fallacies of Business
KEI KFSD KGO KGW KHQ KOA
KOMO KTAR WBAL WCKY WEBC
WFLA WGAR WIS WJAX WJZ
WLS WRC WREN WRVA WNNC

8:00 Dixie Spiritual Singers
KDKA KOIL KWK WBAL WBZA
WCKY WHAM WJZ WLS WREN
WRVA

Columbia-----WABC

12:30 Ann Leaf at Organ
KDYL KFJF KPFP KLZ KMBC
KMOX KOH KOL KYOR WABC
WBGM WCCO WEAN WFBL WGR
WIBW WISN WLBW WNAC WNAX
WOKO WSPD

MONDAY

6:45 Reis and Dunn
KFH KFJF KLZ KMBC KOH KYOR
WAAB WABC WACO WBRC WBT
WDAE WDBJ WDBO WDOD WDRC
WFBM WGL WHP WISN WKBW
WKRC WLAP WLWB WLWB WMAL
WMT WNAC WOKO WORC WQAM
WSPD WTOC WWA

8:45 Pompeian Makeup Box
CFRB KMBC KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WGN WHK WHS WKBW WKRC
WMAL WNAC WOWO WSPD WXYZ

9:00 Vapex-----Mills Bros.
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBL WGN
WHK WJAS WKBW WKRC WMAL
WNAC WOKO WOWO WSPD WXYZ

9:15 Metropolitan, Round Towners
CFRB KFH KFJF KPFP KMBC
KMOX KOH KYOR WABC WBGM
WBRC WBT WCAO WDAE WDBJ
WDBO WDOD WDRC WDSU WEAN
WHBC WISN WJAS WKBW WLAP
WLWB WLWB WMT WNAC WNAX
WORC WOWO WPG WQAM WTOC
WADC WTAG WXYZ

9:30 Bourjois, Evening in Paris
KDYL KFJF KPFP KFRC KHJ
KLZ KMBC KMOX KOIN KOL
KRLD WABC WADC WBT WCAO
WCCO WDSU WEAN WFBL WGN
WGST WHEC WHK WJAS WKBW
WKRC WMAL WNAC WOWO WSPD
WXYZ WCAU

10:00 Burns Panatela, Guy Lombardo
KDYL KFJF KPFP KFRC KHJ KLZ
KMBC KMOX KOIN KOL KRLD
KTRH KTSB WABC WADC WBGM
WCAO WCAU WCCO WDRC WEAN
WFBL WFBM WHK WJAS WKBW
WKRC WMAL WNAC WOWO WSPD
WXYZ

11:30 Madrignera's Biltmore Orch.
WAAB WABC WBRC WBT WCAO
WDAE WDBJ WDBO WDOD WDRC
WDSU WEAN WLWB WMAL WORC
WPG WQAM WTOC

11:45 Geo. Olson and Orchestra
WAAB WABC WBRC WBT WCAO
WDAE WDBJ WDBO WDOD WDRC
WDSU WEAN WLWB WMAL WORC
WPG WQAM WTOC

TUESDAY

6:45 Pertussin, Frank Stretz Orch.
KMBC KRLD WAAB WABC WBGM
WCAU WDRC WEAN WHK WKBW
WMAL WXYZ

7:30 Kaltenborn Edits News
KMBC KMOX WABC WADC WBGM
WCAO WCAU WCCO WDRC WEAN
WFBL WFBM WGR WHK WJAS
WKRC WLWB WNAC WSPD WXYZ

8:45 Gerardine, Walter Winchell
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBL WGN
WGR WHK WJAS WKRC WMAL
WNAC WOWO WSPD WXYZ

9:00 Ben Bernie's Blue Ribbon Orch.
KDYL KFH KFJF KPFP KFRC
KHJ KLZ KMBC KOIN KOL KTRH
KTSB WABC WADC WBRC WBT
WCAO WCAU WCCO WDRC WDSU
WEAN WFBL WGN WHK WJAS

National, Red-----WEAF

WEDNESDAY

8:00 Snoop and Peep, Sketch
CFRC CKGW WBEN WCAE WCSH
WEAF WGY WHO WIOD WJAR
WLS WOC WSAI WWNC

8:15 Ohman and Arden, Piano Duo
KSD WBEN WCAE WCSH WEAF
WEEI WGY WHO WJAR WLS WOC
WOW WRC WSAI WTAG WWJ

8:30 Sousa and his Band
KFYR KSD KYW WBEN WCAE
WCSH WDAY WEAF WECB WEEI
WFR WFLA WGY WHAS WIOD
WIS WJAR WLIT WOV WRCA WRVA
WSMB WTAG WTAM WTIC WTMJ
WWJ WWNC

9:00 Halsey-Stewart Program
CKGW KFI KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP
KVOO KYW WBEN WCAE WCSH
WEAF WEEI WFBR WGY WHAS
WHO WJAR WJAX WLIT WMC
WOAI WOC WOW WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WTMJ WWJ

9:30 Mobiloil Concert
KFI KFYR KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP
KTAR KVOO WBEN WCAE WCSH
WDAF WDAY WEAF WECB WEEI
WFBR WFLA WGY WHAS WHO
WIOD WIS WJAR WJAX WJDX
WLIT WMAQ WMC WOAI WOC
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WTAG WTAM
WTIC WTMJ WWJ WWNC

10:30 Coca Cola Program
CFRC KFI KFSB KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KTHS WAPI WBAP WBEN
WCAE WCSH WDAF WEAF WECB
WEEI WENR WFBR WFLA WGY
WHAS WHO WIOD WIS WJAR
WJAX WJDX WKY WLIT WMC
WOC WOW WRC WRVA WSAI
WSB WSM WSMB WSM WTAG
WTAM WTIC WTMJ WWJ WWNC

11:00 Radio Digest, Nellie Revell
KSD WCSH WEAF WGY WJAR
WOW WRC WTAM WWJ

11:30 Vincent Lopez and Orchestra
KSD WAPI WBEN WCFE WCKY
WEEI WGY WJAR WOW WRC
WSB WWJ

12:30 Paul Whiteman's Orchestra
KYW WEAF WHO WOC WRC

THURSDAY

7:00 Vermont Lumber Jacks
WBEN WCAE WCSH WEAF WEEI
WENR WFBR WFI WGY WJAR
WSAI WTAG WTIC WWJ

8:00 Fleischman, Rudy Vallee
CKFC CKGW KECA KGO KGW
KHQ KOA KOMO KPRC KSD KSL
KSTP KTAR WAPI WBAP WBEN
WCAE WCSH WDAF WEAF WECB
WEEI WFBR WFI WFLA WGY
WHAS WHO WIOD WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOC WOW WRC WRVA WSAI
WSB WSM WSMB WTAG WTAM
WTIC WTMJ WWJ

9:00 Arco Dramatic Musicale
CKGW KFI KGO KHQ KOA KOMO
KSD KSL KSTP KYW WAPI WBAP
WBEN WCAE WCSH WDAF WEAF
WEAF WEEI WFBR WFI WGY
WHAS WHO WIOD WJAR WJAX
WJDX WKY WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTIC WTMJ

National, Blue-----WJZ

8:15 Rin Tin Tin Thriller
KDKA KOIL KWK WLWB WGR
WHAM WJZ WLS WLW WREN

8:30 Pickard Family
WBZA WJZ WJZ WLS WLW WREN
9:00 Blackstone, Sanderson-Crumit
KDKA WBAL WBZA WCKY WHAM
WJZ

9:30 Maxwell House Ensemble
KDKA-KECA KFSB KGO KGW
KHQ KOA KOMO KPRC KSL KSTP
KTAR KWK KYW WAPI WBAL
WBAP WBZA WECB WFLA WHAM
WHAS WIOD WJAX WJDX WJR
WJZ WKY WLW WMC WOAI WREN
WRVA WSB WSM WSMB WTMJ

10:00 A. & P. Dance Gypsies
KDKA KWK WBAL WBZA WGR
WHAM WJR WJZ WLW WMAQ
WREN

10:45 Paris Night Life
KDKA KYW WBAL WBZA WCKY
WGR WHAM WJZ WREN

12:15 Earl Hines and Orchestra
KFYR KOA KTHS WENR WGR
WJR WJZ WREN WSB WSM

12:30 Larry Funk and Orchestra
WGR WJR WJZ WREN

FRIDAY

11:00 Walter Damosch Hour
CKGW KDKA KPAB KFYR KOA
KPRC KSD KSL KSTP KTHS KVOO
KWK KYW WAPI WBAL WBAP
WBZA WCAE WCSH WDAF WDAY
WEAF WECB WEEI WENR WFAA
WFBR WFLA WGAR WHAM WHAS
WHO WIBA WIOD WIS WJAR
WJAX WJDX WJR WJZ WKY
WLIT WMC WOAI WOC WPTF
WRC WREN WRVA WSAI WSB
WSM WSMB WTAG WTAM WTIC
WTMJ WWJ WWNC

4:15 Radio Guild
CKGW KDKA KPAB KFSB KGO KGW
KOA KOMO KPRC KSL KSTP
KVOO WAPI WBAL WDAY WECB
WGR WHAM WHAS WIBA WIS
WJAX WJDX WJR WJZ WKY
WMAQ WMC WOAI WPTF WRC
WREN WRVA WSB WSM WSMB

7:45 Believe It or Not Ripley
KDKA WBAL WBZA WIS WJZ
WPTF WRVA WWNC

8:00 Nestle's Program
KDKA KOIL KWK WBAL WBZA
WCKY WGR WHAM WJR WJZ
WLS WREN

8:30 Smith Bros., Trade and Mark
WBAL WGR WJZ WLS WLW

9:00 Intervenon Pair
KDKA KFI KFSB KGO KGW KHQ
KOA KOMO KPRC KSL KSTP
KTAR KWK KYW WAPI WBAL
WBZA WCKY WECB WFAA WGR
WHAM WHAS WIOD WJAX WJR
WJZ WKY WMC WOAI WREN
WRVA WSB WSM WSMB WTMJ

9:30 Armour Program
KDKA KFI KGO KGW KHQ KOA
KOIL KOMO KPRC KSL KSTP
KWK KYW WAPI WBAL WBZA
WECB WGR WHAM WHAS WIOD
WJAX WJDX WJR WJZ WKY
WLW WMC WOAI WREN WRVA
WSB WSM WSMB WTMJ

10:50 Paul Whiteman's Paint Men
KDKA KFI KFSB KFYR KGO KGW
KHQ KOA KOIL KOMO KPRC
KSL KSTP KTAR KVOO KWK
WBAL WBAP WBZA WCKY WDAY
WECB WENR WFLA WGAR WHAM

Columbia.....WABC

WKBN WKBW WKRC WLAC WMAL
WNAC WOWO WRR WSPD WXYZ

9:30 Romances of Sea, Drama
CFRB KMBC KMOX WABC WADC
WCAO WCAU WDRS WEAN WFBL
WGN WHK WJAS WKBW WKRC
WMAL WNAC WOWO WXYZ

10:00 Minneapolis Symphony Orch.
CFRB KDYL KFJF KFPY KGB
KHJ KLZ KMBC KOH KOI KRLL
KVOR WAAB WABC WADC WBCM
WBRC WBT WCAO WCOO WDBJ
WDBO WDOD WDRS WDSU WEAN
WFBM WHEC WHP WISN WJAS
WKBW WKRC WLAC WLAP WLWB
WLBW WMAL WMT WNAX WOKO
WORC WOWO WPG WQAM WSPD
WTOC WXYZ

11:45 Geo. Olsen and Orchestra
CFRB KDYL KFJF KFPY KFPY
KFRC KLZ KMBC KOH KOI KVOR
WAAB WABC WADC WBCM WBRC
WBT WCAO WDBJ WDBO WDOD
WDRS WDSU WFBL WGL WHP
WIBW WISN WKBW WLAC WLAP
WLWB WLBW WMAL WMT WNAX
WOKO WORC WPG WQAM WSPD
WTOC

12:00 Romanelli and Orchestra
CFRB KFPY KFRC KLZ KMBC
KOH KVOR WABC WBCM WCCO
WDOD WEAN WFBL WGL WHP
WIBW WISN WKBW WKRC WLWB
WMT WNAC WNAX WOKO WPG
WSPD

WEDNESDAY

8:45 Modern Male Chorus
KFPY KGB KHJ KLZ KMBC KMOX
KOH KVOR WABC WBRC WBT
WDRS WDSU WEAN WEG WHEC
WHP WLAC WLWB WMT WNAC

9:30 Gold Medal Fast Freight
KFH KMBC KMOX KSCJ WABC
WADC WCAO WCOO WDBJ WDRS
WEAN WFBL WFBM WGN WHK
WHP WJAS WKBW WKRC WMAL
WMT WNAC WOKO WOWO WSPD
WXYZ WCAU

9:30 Eno Crine Club
CFRB KMBC KMOX WABC WADC
WCAO WCAU WDRS WEAN WFBL
WGN WHK WJAS WKBW WKRC
WMAL WNAC WOWO WSPD WXYZ

10:00 Vitality Personalities
KDYL KFJF KFPY KFRC KHJ
KLZ KLZ KMBC KMOX KOIN
KOL KRLL KTRH KTSB WABC
WADC WBBM WBRC WBT WCAO
WCAU WCOO WDRS WDSU WEAN
WFBL WFBM WGST WHK WISN
WJAS WKBW WKRC WLAC WLAP
WMAL WNAC WOKO WOWO WREC
WSPD WXYZ WCAH

10:15 Weed Tire Chain Orch.
KDYL KFJF KLZ KMBC KMOX
KRLL WAAB WABC WADC WCAO
WCAU WCOO WDRS WDSU WBT
WGN WHK WJAS WKBW WKRC WLWB
WMAL WOWO WSPD WXYZ

10:30 Howard Barlow Orchestra
CFRB KFRC KGB KLZ KMBC
KOH KTSB WABC WBRC WBT
WCAO WDBO WDRS WDSU WHEC
WHP WBT WKBW WLAP WLWB
WMAL WMT WPG WTAQ

10:45 Columbia Concerts Program
KGB KVOR WABC WBRC WBT
WDBO WDRS WDSU WEAN WHEC
WHP WKBW WLAC WLWB WMAL
WPG

National, Red.....WEAF

9:30 Adventures of Sherlock Holmes
CFDF CKGW KSD WBEN WCSH
WDAF WFAF WEEI WENR WFI
WGY WHO WJAR WOC WOV WRC
WSAI WTAG WTAM WTIC WWJ
11:30 Jesse Crawford, Organ
KSD WFAF WFI WHO WJAR WOC
WOW WRC WTIC WWJ
11:45 Cab Calloway and Orchestra
KSD WCKY WFAF WFI WGY WHO
WJAR WOC WRC WTIC WWJ

FRIDAY

8:00 Cities Service Program
CKGW KECA KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTHS KYW WBEN WCAE WCSH
WDAF WFAF WEEI WFAA
WGY WHO WJAR WKY WLIT
WQAI WOC WOV WRC WSAI
WTAG WTAM WTIC WTMJ WWJ
9:00 Cliequot Club, Reser's Orch.
KSD WBEN WCAE WCSH WDAF
WFAF WEEI WGY WHO WJAR
WLIT WLS WOC WOV WRC WSAI
WTAG WTIC WWJ

9:30 Pond's, Leo Reisman Orch.
KSD WBEN WCAE WCSH WDAF
WFAF WENR WFBW WGY WJAR
WLIT WOC WOV WRC WSAI
WTAG WTAM
10:00 NBC Artists' Service Program
CFDF WBEN WCAE WCSH WFAF
WEEI WFBW WGY WJAR WLIT
WMAQ WOW WRC WSAI WTAG
WTAM WWJ

10:30 RKO Theater of Air
KFI KFSB KFYR KGO KGW KHQ
KOA KOMO KSD KSL KTAR WBEN
WCAE WCSH WDAY WFAF WEEI
WENR WFBW WFLA WGY WHAS
WIBA WIOD WJAR WJAX WJDX
WKY WLIT WMC WQAI WOC WOV
WRC WRVA WSAI WSB WSMB
WTAG WTAM WTIC WTMJ WWJ

11:15 Vincent Lopez and Orchestra
KSD WCFL WFAF WEEI WGY
WIOD WJAR WOV WRC WWJ
WVNC
12:05 Coon-Sanders' Orchestra
KFYR KSD KSTP WBAF WFAF
WOW WRC WTMJ

SATURDAY

7:15 Laws That Safeguard Society
KECA KEX KFSB KFYR KGA
KJR KOA KPO KPRC KTAR KTHS
WBT WBEN WCAE WCSH WDAY
WFAF WEEI WENR WFI WGY
WHO WJAR WJDX WOC WOV
WSAI WTAG WTIC
8:00 Civic Concerts Program
CKGW KSD WBEN WCAE WCSH
WDAF WFAF WFBW WFI WHO
WIOD WIS WJAR WJAX WMAQ
WOC WOV WRC WTIC WWJ WVNC

8:30 Advisory Council on Radio
KFSB KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KYW WBEN WCAE WCSH
WDAF WDAY WFAF WEEI WFBW
WFI WFLA WGY WHAS WHO
WIBA WIOD WIS WJAR WJAX
WJDX WOC WOV WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WTIC WTMJ WWJ WVNC

9:00 Arthur Pryor and Orchestra
KFI KFSB KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KYW WAPI WBAF WBEN
WCAE WCSH WDAF WDAY WFAF
WVNC

(continued next column)

National, Blue.....WJZ

WHAS WIOD WJAX WJDX WJR
WJZ WKY WMC WOAI WREN
WRVA WSB WSM WSMB WTMJ
10:45 Waves of Melody
KDKA KWK KYW WBAL WBZA
WCKY WGAR WHAM WJR WJZ
WREN
11:30 Jack Denny and Orchestra
CFDF KFYR KOA KPRC KSTP
WBAL WEEC WENR WIBA WIS
WJR WJZ WRC WREN

SATURDAY

5:00 Colorado Cowboys
CKGW KDKA KEX KFSD KGO
KJR KOA KPO WBAL WENR WGAR
WHAM WHAS WJZ WREN WSM
7:30 Sonata Recital
CFDF KDKA KECA KFSD KPO
WAPI WGAR WREN WSB WSM
7:45 Hollywood Nights
KDKA KOIL KWK WBAL WCKY
WGAR WHAM WJR WJZ WMAQ
WREN WBZA

8:00 Danger Fighters Drama
KDKA KFI KFSB KFYR KGO
KGW KHQ KOA KOIL KOMO KPRC
KSL KSTP KTAR KWK WAPI
WDAY WEEC WHAM WHAS WIBA
WJDX WJZ WLS WMC WOAI WREN
WSB WSM WSMB WTMJ

8:30 Dance with Countess D'Orsay
CFDF CKGW KDKA KWK WBAL
WBZA WGAR WHAM WJR WJZ
WLW WMAQ WREN
9:00 Chicago Civic Opera
CFDF CKGW KWK WBAL WBZA
WCKY WGAR WHAM WJZ WLS
WREN
9:30 The First Nighter Drama
KDKA KFI KFSB KFYR KGO
KGW KHQ KOA KOIL KOMO KSL
KSTP KTAR KWK KYW WBAL
WBZA WDAY WEEC WGAR WHAM
WJR WJZ WLW WREN WTMJ

10:15 Cuckoo Burlesque Skit
CFDF CKGW KWK WBZA WGAR
WHAM WJR WJZ WMAQ WREN
10:45 Twenty Fingers of Harmony
CFDF KDKA WBAL WHAM WJR
WJZ WREN
12:15 Paul Whiteman and Orchestra
KYW WGAR WJR WJZ WREN

National, Red.....WEAF

WEEC WEEI WFBW WFI WFLA
WGY WHAS WHO WIBA WIOD
WIS WJAR WJAX WJDX WKY
WMC WOAI WOC WOV WRC WRVA
WSAI WSB WSMB WTAG WTAM
WTIC WTMJ WWJ WVNC
9:30 Club Valspar, Aileen Clark
CFDF CKGW KSD WBEN WCAE
WCSH WDAF WFAF WEEI WFBW
WFI WGY WHO WJAR WMAQ
WOC WOV WRC WSAI WTAG
WTAM WTIC WWJ

11:30 Rudy Vallee and Orchestra
KEX KFYR KGA KJR KOA KPO
KPRC KSD WBEN WCKY WDAY
WFAF WFI WHAS WHO WJAR
WMC WOC WRC WTIC WWJ

12:00 Ralph Kirbyer, Dream Singer
KFYR KGA KJR KOA KPO KPRC
KSD WBEN WFAF WGY WIBA
WRC WSB WTIC WWJ

12:05 Coon-Sanders Orchestra
KFYR KGA KJR KOA KPO KPRC
KSD WBEN WFAF WGY WIBA
WOW WRC WSB WTAM WTIC
WWJ

THURSDAY

6:45 Pertussin, Frank Stetz Orch.
KMBC KRLD WAAB WABC WBBM
WCAU WDRC WGST WJAS WKBW
WXYZ

7:30 Kaltenborn Edits News
KMBC KMOX WABC WADC WBBM
WCAU WCCO WCCO WDRC WEAN
WFBL WFBM WGR WHK WJAS
WKRC WLBW WNAC WSPD WXYZ

8:45 Angelo Patri, Your Child
KMBC KMOX WABC WADC WCAO
WCCO WDRC WEAN WFBL WGN
WGR WHK WJAS WKRC WNAC
WOWO WSPD WXYZ WCAU WMAL

9:00 Vapex, Mills Bros.
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBL WGN
WHK WHP WJAS WKBW WKRC
WMAL WNAC WOWO WSPD WXYZ

9:00 Snowdrift Southern Melodies
KFJF KTRH KTSa WBIG WBRC
WBT WDAE WDBJ WDBO WDOD
WDSU WGST WLAC WNOX WQAM
WREC WRR WTCC WTAR

9:30 Love Story Hour
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBL WGN
WHK WJAS WKBW WKRC WMAL
WNAC WOWO WSPD WXYZ.

10:00 Schaffner-Marx Trumpeters
KFJF KLZ KMBC KMOX KRLD
WAAB WABC WADC WBBM WCAO
WCAU WCCO WDRC WDSU WEAN
WFBL WFBM WGST WHK WJAS
WKRC WLPAP WMAL WOWO WSPD
WXYZ

10:30 Grand Opera Miniatures
KDYL KPFP KGB KHJ KLZ KOH
WAAB WABC WBT WDRC WEAN
WHP WLBZ WTAQ

FRIDAY

8:30 March of Time, Drama
KDYL KPFP KFRC KHJ KLZ
KMBC KMOX KOIN KOL WABC
WADC WBT WCAO WCAU WCCO
WDRC WDSU WEAN WFBL WGN
WGR WHK WHP WJAS WKRC
WLAC WMAL WNAC WOWO WSPD
WXYZ

9:00 Radio Reproductions
KMBC KMOX WABC WCAO WCAU
WDRC WEAN WFBL WGN WHK
WJAS WKBW WKRC WMAL WNAC
WXYZ

9:15 Liberty Magazine Hour
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBL WGN
WHK WJAS WKBW WKRC WMAL
WNAC WOWO WSPD WXYZ

9:45 Friendly Five Footnotes
KFJF KLZ KMBC KMOX KRLD
WABC WBRW WBT WCAO WCAU
WCCO WDSU WEAN WFBL WGN
WHK WJAS WKBW WKRC WLAC
WMAL WMT WNAC WNOX WREC
WXYZ

10:00 Pillsbury Pageant
KFJF KMBC KMOX KRLD WABC
WADC WBBM WBT WCAO WCAU
WCCO WDBJ WDRC WEAN WFBL
WGST WHK WJAS WKBW WKRC
WMAL WNAC WOKO WORC WOWO
WREC WSPD WTAR WXYZ

10:30 Round Towners, Irene Beasley
KFRC KGB KOH WABC WADC
WBT WHEC WHP WIBW WKBW
WLBZ

10:45 Tito Guizar, Spanish Tenor
KGB WABC WADC WBT WHP
WKBW WLBZ WMAL WOKO

12:00 Ben Bernie and Orchestra
KFYP KHJ KOH WABC WEAN
WHP WIBW WKBW WNAC WOKO
WPG

SATURDAY

7:00 Frederick William Wile
KFYP KFRC KGB KHJ KOH WABC
WADC WBT WEAN WHEC WHP
WIBW WLBZ WMAL WNAC WOKO

7:30 Reis and Dunn
KFYP KFRC KGB KHJ KOH WABC
WADC WBT WEAN WHEC WHP WLBZ
WNAC WOKO

9:00 Carborandum, Indian Legend
KMOX WAAB WABC WCAU WGN
WHK WKBW WXYZ

9:30 Smith Bros., Shilkret Orch.
KFH KFJF KLZ KMBC KMOX
WAAB WABC WADC WCAO WCAU
WCCO WDRC WEAN WGN WGST
WHEC WHP WHP WJAS WKBW
WLPAP WLBZ WMT WOWO WSPD
WXYZ

9:45 Four Clubmen, Irene Beasley
KGB KOH WABC WADC WBT
WEAN WHEC WHP WIBW WKBW
WLBZ WMAL WPG

10:00 National Radio Forum
KFYP KFRC KGB KHJ KOH WABC
WADC WBT WEAN WHEC WCAU
WIBW WKBW WLBZ WMAL WNAC
WOKO WPG

10:15 Hank Simmons Showboat
KFYP KFRC KGB KHJ KOH WABC
WADC WBT WEAN WHEC WHP
WIBW WKBW WLBZ WMAL WNAC
WOKO WPG

11:45 Geo. Olsen and Orchestra
KFYP KOH WABC WADC WBT
WHP WIBW WKBW WMAL

12:00 Guy Lombardo and Orchestra
KFYP KGB KOH WABC WEAN
WHEC WHP WIBW WKBW WNAC
WOKO WPG

The Editor Listens In

The Mills Brothers: Novel and easy to listen to. Wonderful harmony and interesting orchestral imitations.

Turn the Dial

Swift, Stebbins Boys: Just another program. Much ado about nothing.

Turn the Dial

The Goldbergs: One of the best dialog acts on the air. Vivid pictures of the life of a Jewish family as good as anything Fannie Hurst or Montague Glass ever wrote.

Turn the Dial

Kate Smith: Bless her heart. Just the voice of her helps the cares of the day to fold their tents.

Turn the Dial

Crema, Bing Crosby: Getting awful tired of those twenty words, no more, no less.

Turn the Dial

Carveth Wells: Better than the Geographic Magazine.

Turn the Dial

Moonshine and Honeysuckle: Another good one. Thrilling dramas from the lives of mountaineers. Fueds and shootin' and real he-men.

Turn the Dial

Wonder Program: We wonder how they get away with it.

Turn the Dial

Walter Damrosch Hour: The kids of today are mighty lucky to get this for a lesson.

Turn the Dial

Adventures of Barbara Wayne: "Yes and no, mostly no."

Turn the Dial

The Three Bakers: Leads the world in two things: tries the hardest to be funny and fails the most.

Turn the Dial

INDEX BY FREQUENCIES AND DIAL NUMBERS

NOTICE OF COPYRIGHT

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KEY

Frequency in kilocycles. Wavelengths in meters. Night power in watts in third column. Second column symbols: *Verifies reception for postage or sends station stamp for 10c. †Verifies for postage; no stamp. ‡ Stamp only. † Does not verify. § Does not reply. \$ Verification 25c, reply card 10c. Fourth column symbols: D, Daytime only. Dn, Daytime but may use some evening hours. S, Sunday only. X, Has permit to increase power. † Uses greater power in daytime. CP, Has construction permit only. N, NBC chain. C, Columbia chain. Z, Has permit to change frequency. Y, has permit to change location. □ These stations are synchronized. 1-2-3, Small figures indicate stations sharing time. a-b-c, Small letters indicate stations with two sets of calls. Some Canadian, Cuban and Mexican stations have odd frequencies; correct frequency shown in fourth column. Dashes (---) have no meaning.

540 kilocycles 555.6 meters

CKX † 500 --- Brandon, Manitoba

Manitoba Telephone System

550 kilocycles 545.1 meters

KFDY † 500 1+ Brookings, S. D.
 KFUD * 500 2+ St. Louis, Mo.
 KFYZ † 1000 1+N Bismarck, N. D.
 KOAC † 1000 --- Corvallis, Ore.
 KSD † 500 2N St. Louis, Mo.
 WGR * 1000 C Buffalo, N. Y.
 WKRC † 1000 C Cincinnati, Ohio

S. D. State College
 Concordia Theological Seminary
 Meyer Broadcasting Co.
 State Agricultural College
 Pulitzer Publishing Co.
 Buffalo Broadcasting Co.
 WKRC Incorporated

560 kilocycles 535.4 meters

KFDM * 500 X+ Beaumont, Texas
 KLZ * 1000 C Denver, Colo.
 KTAB * 1000 --- San Francisco, Cal.
 WFI * 500 1N Philadelphia, Pa.
 WIBO * 1000 3+ Chicago, Ill.
 WLIT † 500 1N Philadelphia, Pa.
 WNOX * 1000 X+C Knoxville, Tenn.
 WPCC * 500 3S Chicago, Ill.
 WQAM * 1000 C Miami, Fla.

Magnolia Petroleum Co.
 Reynolds Radio Co., Inc.
 Associated Broadcasters
 Strawbridge & Clothier
 Nelson Bros. Bond & Mortgage Co.
 Lit Brothers
 WNOX, Inc.
 North Shore Congregational Church
 Miami Broadcasting Co.

570 kilocycles 526.0 meters

KGKO * 250 + Wichita Falls, Texas
 KMTR * 500 --- Hollywood, Cal.
 KXA * 500 --- Seattle, Wash.
 TCW --- 50 --- Guatemala
 WFAO † 750 1 Columbus, Ohio
 WKBN * 500 1C Youngstown, Ohio
 WMAC * 250 2a Syracuse, N. Y.
 WMCA * 500 3 New York City
 WNAX * 1000 C Yankton, S. D.
 WNYC † 500 3 New York City
 WSYR † 250 2a Syracuse, N. Y.
 WWNC * 1000 N Asheville, N. C.

Wichita Falls Broadcasting Co.
 KMTR Radio Corp.
 American Radio Tel. Co.
 Ohio State University
 WKBN Broadcasting Corp.
 Clive B. Meredith
 Knickerbocker Broadcasting Co., Inc.
 House of Gurney, Inc.
 Dept. of Plants and Structures
 Clive B. Meredith
 Citizens Broadcasting Co., Inc.

580 kilocycles 516.9 meters

CFCY * 500 --- Charlottetown, P. E. I.
 CHMA --- 250 4S Edmonton, Alta.
 CKCL * 500 --- Toronto, Ont.
 CKUA † 500 4 Edmonton, Alta.
 KGFX † 200 D Pierre, S. D.
 KSAC † 500 2+ Manhattan, Kans.
 WIBW * 1000 2+C Topeka, Kansas
 WOBW * 250 1+ Charleston, W. Va.
 WSAZ * 250 1 Huntington, W. Va.
 WTAG * 250 N Worcester, Mass.

The Island Radio Co.
 Christian and Missionary Alliance
 The Dominion Battery Co.
 University of Alberta
 Dana McNeil
 State Agricultural College
 Topeka Broadcasting Assn., Inc.
 WOBW, Inc.
 WSAZ, Inc.
 Telegram Publishing Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

CMW -- 1400 588
 KHO -- 1000 1+N
 WCAJ * 500 1
 WEEL † 1000 N
 WKZO * 1000 D
 WOW * 1000 1N

Havana, Cuba ✓
 Spokane, Wash. ✓
 Lincoln, Nebr. ✓
 Boston, Mass. ✓
 Kalamazoo, Mich. ✓
 Omaha, Nebr. ✓

12
 Columbus Commercial & Radio Co.
 Louis Wasmer, Inc.
 Nebraska Wesleyan University
 Edison Elec. Illuminating Co.
 WKZO, Inc.
 Woodmen of the World

KCY.S.
 670
 MTRS.
 447.5
 DIAL

600 kilocycles 499.7 meters

CNRO † 500 ---
 KFSD * 500 2+N
 WCAC † 250 2+
 WCAO * 250 C
 WICC * 250 2+
 WMT * 500 C
 WREC * 500 2+C

Ottawa, Ont. ✓
 San Diego, Cal. ✓
 Storrs, Conn. ✓
 Baltimore, Md. ✓
 Bridgeport, Conn. ✓
 Waterloo, Iowa ✓
 Memphis, Tenn. ✓

13
 Canadian National Railways
 Airfan Radio Corp.
 Conn. Agricultural College
 Monumental Radio, Inc.
 Bridgeport Broadcasting Station, Inc.
 Waterloo Broadcasting Co.
 WREC, Inc.

610 kilocycles 491.5 meters

KFRC * 1000 C
 WDAF * 1000 N
 WFXN * 500 Ca
 WIP * 500 Ca
 WJAY † 500 D

San Francisco, Cal. ✓
 Kansas City, Mo. ✓
 Philadelphia, Pa. ✓
 Philadelphia, Pa. ✓
 Cleveland, Ohio ✓

14
 Don Lee, Inc.
 Kansas City Star Co.
 Keystone Broadcasting Co., Inc.
 Gimbel Bros. Co.
 Cleveland Radio Broadcasting Corp.

620 kilocycles 483.6 meters

CMCJ -- 250 ---
 KGW * 1000 2+N
 KTAR * 500 2+N
 KZRM -- 50000 618.5
 WFLA * 1000 2+Na
 WLBZ † 500 C
 WSUN * 1000 2+Na
 WTMJ * 1000 2+N

Havana, Cuba ✓
 Portland, Ore. ✓
 Phoenix, Arizona ✓
 Manila, P. I. ✓
 Clearwater, Fla. ✓
 Bangor, Maine ✓
 St. Petersburg, Fla. ✓
 Milwaukee, Wis. ✓

14
 Rafael Rodriguez
 Oregonian Publishing Co.
 KTAR Broadcasting Co.
 Radio Corp. of the Philippines
 Chamber of Commerce
 Maine Broadcasting Co., Inc.
 Chamber of Commerce
 Milwaukee Journal

630 kilocycles 475.9 meters

CFCT * 50 ---
 CHCS -- 1000 635a
 CJGX -- 500 ---
 CKOC * 1000 635a
 CKTB -- 1000 635a
 CNRA * 500 ---
 KFRU * 500 1
 WGBF † 500 1
 WMAL * 250 2+C
 WOS * 500 1
 XETF -- 500 ---

Victoria, B. C. ✓
 Hamilton, Ont. ✓
 Yorkton, Sask. ✓
 Hamilton, Ont. ✓
 St. Catharines, Ont. ✓
 Moncton, N. B. ✓
 Columbia, Mo. ✓
 Evansville, Ind. ✓
 Washington, D. C. ✓
 Jefferson City, Mo. ✓
 Veracruz, Ver. ✓

15
 Victoria Broadcasting Association
 The Hamilton Spectator
 Winnipeg Grain Exchange
 Wentworth Radio Broadcasting Co.
 Taylor & Bate, Ltd.
 Canadian National Railways
 Stephens College
 Evansville on the Air, Inc.
 M. A. Leese
 State Marketing Bureau
 Manuel Angel Fernandez & Cia.

640 kilocycles 468.5 meters

CHRC -- 100 645a
 CKCI † 100 645a
 CKCR -- 50 645
 CMHJ -- 40 645.
 KFI * 50000 N
 WAIU * 500 C Dn
 WOI * 5000 D

Quebec, Que. ✓
 Quebec, Que. ✓
 Waterloo, Ont. ✓
 Cienfuegos, Cuba ✓
 Los Angeles, Cal. ✓
 Columbus, Ohio ✓
 Ames, Iowa ✓

16
 E. Fontaine
 Le "Soleil," Ltd.
 John Patterson
 Arturo Hernandez
 Earle C. Anthony, Inc.
 Associated Radiocasting Corp.
 State College of Agriculture

650 kilocycles 461.3 meters

KPCB * 100 Dn
 WSM * 5000 NX

Seattle, Wash. ✓
 Nashville, Tenn. ✓

17
 Queen City Broadcasting Co.
 National Life & Accident Ins. Co.

660 kilocycles 454.3 meters

CHWK † 100 665
 CJRM † 500 665
 CJRW -- 500 665
 CMCO -- 250 ---
 CMDC -- 500 ---
 RUS -- 500 664
 WAAW * 500 D
 WEAF † 50000 N□
 WTIC * 5000 N□

Chilliwack, B. C. ✓
 Moose Jaw, Sask. ✓
 Fleming, Sask. ✓
 Havana, Cuba ✓
 Havana, Cuba ✓
 Salvador ✓
 Omaha, Nebr. ✓
 New York City ✓
 Hartford, Conn. ✓

18
 Chilliwack Broadcasting Co., Ltd.
 Jas. Richardson & Sons, Ltd.
 Jas Richardson & Sons, Ltd.
 J. L. Stowers
 Juan Fernandez de Castro
 Republic of El Salvador
 Omaha Grain Exchange
 National Broadcasting Co., Inc.
 Travelers Broadcasting Service, Inc.

670 kilocycles 447.5 meters

HIX -- 100 669
 VOWR -- 500 675
 WMAQ * 5000 N

Santo Domingo ✓
 St. Johns, N. F. ✓
 Chicago, Ill. ✓

19
 Dominican Republic
 Wesley United Church
 National Broadcasting Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

680 kilocycles 440.9 meters

KFEQ * 2500 D St. Joseph, Mo.
 KPO † 5000 NX San Francisco, Cal.
 WPTF † 1000 N Dn Raleigh, N. C.
 XFG -- 2000 683.3 Mexico, Mex.

Scroggin & Co., Bank
 Hale Bros. & The Chronicle
 Durham Life Insurance Co.
 Sria. de Guerra y Marina

690 kilocycles 434.5 meters

CFAC -- 500 1 Calgary, Alta.
 CFRB * 5000 Ca Toronto, Ont.
 CJCJ * 500 1 Calgary, Alta.
 CNRX * 5000 a Toronto, Ont.
 NAA † 1000 --- Arlington, Va.
 VAS † 10000 685 Glace Bay, N. S.
 XBT † 500 --- Monterrey, Mexico

The Calgary Herald
 Rogers-Majestic Corp., Ltd.
 Albertan Publishing Co., Ltd.
 Canadian National Railways.
 U. S. Navy
 Canadian Marconi Co.
 Mexico Music Co., S. A.

700 kilocycles 428.3 meters

WLW * 50000 N Cincinnati, Ohio

Crosley Radio Corp.

710 kilocycles 422.3 meters

KMPC * 500 Dn Beverly Hills, Cal.
 WOR * 5000 X Newark, N. J.
 XEN † 1000 711 Mexico City

R. S. MacMillan
 Bamberger Broadcasting Service, Inc.
 Cia. Civil de Inversiones

720 kilocycles 416.4 meters

WGN † 25000 C Chicago, Ill.

Chicago Tribune

730 kilocycles 410.7 meters

CHLS -- 50 1 Vancouver, B. C.
 CHYC * 5000 Sa Montreal, Que.
 CKAC * 5000 Ca Montreal, Que.
 CKCD -- 50 1 Vancouver, B. C.
 CKFC † 50 1 Vancouver, B. C.
 CKMO † 100 1 Vancouver, B. C.
 CKWX † 100 1 Vancouver, B. C.
 CMK * 3150 --- Havana, Cuba
 CNRM * 5000 2 Montreal, Que.
 XER -- 75000 735 Villa Acuna, Mex.

W. G. Hassell
 Northern Electric Co., Ltd.
 La Presse Publishing Co., Ltd.
 Vancouver Daily Province
 United Church of Canada
 Sprout-Shaw Radio Co.
 A. Holstead & Wm. Hanlon
 Cuban Broadcasting Co., Hotel Plaza
 Canadian National Railways
 Dr. John R. Brinkley

740 kilocycles 405.2 meters

KMMJ * 1000 Dn Clay Center, Nebr.
 WSB -- 5000 NX Atlanta, Ga.

The M. M. Johnson Co.
 Atlanta Journal Co.

750 kilocycles 399.8 meters

WJR † 5000 NX Detroit, Mich.
 XEQ -- 5000 --- Juarez, Chih.

WJR. The Goodwill Station, Inc.
 Feliciano Lopez Islas

760 kilocycles 394.5 meters

KVI * 1000 C Dn Tacoma, Wash.
 WBAL * 1000 N Baltimore, Md.
 WEW * 1000 D St. Louis, Mo.
 WJZ † 30000 N New York City

Puget Sound Broadcasting Co., Inc.
 Consolidated Gas, Elec. & Power Co.
 St. Louis University
 National Broadcasting Co., Inc.

770 kilocycles 389.4 meters

KFAB * 5000 1X Lincoln, Nebr.
 WBBM * 25000 1Ca Chicago, Ill.
 WJBT -- 25000 1Sa Chicago, Ill.

KFAB Broadcasting Co.
 WBBM Broadcasting Corp.
 WBBM Broadcasting Corp.

780 kilocycles 384.4 meters

CKY -- 5000 a Winnipeg, Manitoba
 CNRW -- 5000 a Winnipeg, Manitoba
 KELW -- 500 2 Burbank, Cal.
 KTM * 500 2+ Los Angeles, Cal.
 WEAN * 250 +C Providence, R. I.
 WMC -- 500 +N Memphis, Tenn.
 WPOR -- 500 1b Norfolk, Va.
 WTAR * 500 1Cb Norfolk, Va.
 XEZ * 500 --- Mexico, Mex.

Manitoba Telephone System
 Canadian National Railways
 Magnolia Park, Ltd.
 Pickwick Broadcasting Corp.
 Shepard Broadcasting Service, Inc.
 Memphis Commercial-Appeal, Inc.
 WTAR Radio Corp.
 WTAR Radio Corp.
 Joaquin Capilla

INDEX BY FREQUENCIES AND DIAL NUMBERS

790 kilocycles 379.5 meters

CMBS -- 150 ---
 CMHC -- 100 ---
 KGO † 7500 N
 WGY † 50000 N

Havana, Cuba
 Tuinucu, Cuba ✓
 San Francisco, Cal. ✓
 Schenectady, N. Y. ✓

95
 Enrique Artalejo
 Frank H. Jones
 National Broadcasting Co., Inc.
 General Electric Co.

800 kilocycles 374.8 meters

WBAP † 10000 IXN
 WFAA † 50000 1N
 XFC -- 350 805

Fort Worth, Texas ✓
 Dallas, Texas ✓
 Aguascalientes, Mexico

93
 Carter Publications, Inc.
 News & Journal
 Gobierno del Estado de Aguascalientes

810 kilocycles 370.2 meters

WCCO * 5000 CX
 WPCB * 500 D

Minneapolis, Minn. ✓
 New York City

90
 Northwestern Broadcasting, Inc.
 Eastern Broadcasters, Inc.

820 kilocycles 365.6 meters

WHAS † 10000 NX
 XFI -- 1000 818

Louisville, Ky. ✓
 Mexico City ✓

88
 Courier-Journal & Times
 Sria. de Ind., Comercio y Trabajo

830 kilocycles 361.2 meters

CMGA -- 100 834
 KOA † 12500 NX
 WEEU -- 1000 DCP
 WHDH † 1000 D
 WRUF * 5000 Dn

Colon, Cuba ✓
 Denver, Colo. ✓
 Reading, Pa. ✓
 Boston, Mass. ✓
 Gainesville, Fla. ✓

86
 Leopoldo V. Figueroa
 National Broadcasting Co., Inc.
 Berks Broadcasting Co.
 Matheson Radio Co., Inc.
 University of Florida

840 kilocycles 356.9 meters

CKGW * 5000 Na
 CKLK † 1000 b
 CMC * 500 842
 CNRD † 1000 b
 CPHY -- 5000 a

Toronto, Ont. ✓
 Red Deer, Alta. ✓
 Havana, Cuba ✓
 Red Deer, Alta. ✓
 Toronto, Ont. ✓

84
 Gooderham & Worts, Ltd.
 Alberta Pacific Grain Co., Ltd.
 Cuban Telephone Co.
 Canadian National Railways
 Canadian Pacific Railways

850 kilocycles 352.7 meters

KWKH * 10000 1
 WWL * 10000 1

Shreveport, La. ✓
 New Orleans, La. ✓

92
 Hello World Broadcasting Corp.
 Loyola University

860 kilocycles 348.6 meters

CMJE -- 20 856
 KMO † 500 † Dn
 WABC * 50000 Ca
 WBOQ * 50000 a
 WHB * 500 D
 XFX -- 500 ---

Camaguey, Cuba
 Tacoma, Wash. ✓
 New York City ✓
 New York City ✓
 Kansas City, Mo. ✓
 Mexico City, Mexico

80
 Manuel Fernandez
 KMO, Inc.
 Atlantic Broadcasting Corp.
 Atlantic Broadcasting Corp.
 WHB Broadcasting Co.
 Secretaria de Educacion Publica

870 kilocycles 344.6 meters

WENR -- 50000 1N
 WLS † 50000 1N
 XFF -- 500 875

Chicago, Ill. ✓
 Chicago, Ill. ✓
 Chihuahua, Chih. ✓

78 79
 National Broadcasting Co., Inc.
 Agricultural Broadcasting Co.
 Gobierno del Estado de Chihuahua

880 kilocycles 340.7 meters

CHML * 50 4
 CJCB * 50 ---
 CKCV † 50 a
 CKPC † 50 4
 CNRQ † 50 a
 KFKA † 500 2+
 KLX * 500 ---
 KPOF * 500 2
 WCOC * 500 +
 WGBI * 250 1
 WQAN * 250 1
 WSUI * 500 ---

Hamilton, Ont.
 Sydney, N. S.
 Quebec, Que.
 Preston, Ont.
 Quebec, Que. ✓
 Greeley, Colo. ✓
 Oakland, Cal. ✓
 Denver, Colo. ✓
 Meridian, Miss. ✓
 Scranton, Pa. ✓
 Scranton, Pa. ✓
 Iowa City, Iowa ✓

76
 Maple Leaf Radio Co., Ltd.
 N. Nathanson
 G. A. Vandry
 Metal Shingle & Siding Co.
 Canadian National Railways
 Midwestern Radio Corp.
 Tribune Publishing Co.
 Pillar of Fire, Inc.
 Mississippi Broadcasting Co., Inc.
 Scranton Broadcasters, Inc.
 Scranton Times
 University of Iowa

KCYS.
 880

MTRS.
 340.7
 DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

890 kilocycles 336.9 meters

CFBO	*	500	---	St. John, N. B.
CKCO	†	100	3	Ottawa, Ont.
CKPR	†	50	3	Port Arthur, Ont.
CMCF	*	250	---	Havana, Cuba
CMX	*	1000	885	Havana, Cuba
KARK	*	250	---	Little Rock, Ark.
KFNF	*	500	2+	Shenandoah, Iowa
KUSD	*	500	2	Vermillion, S. D.
WGST	*	250	+	Atlanta, Ga.
WJAT	†	250	2+C	Urbana, Ill.
WJAR	*	250	2+N	Providence, R. I.
WKAO	*	250	---	San Juan, P. R.
WMMN	*	250	+	Fairmont, W. Va.
WMS	\$	500	---	Tampico, Mexico

C. A. Munro, Ltd.
Dr. G. M. Geldert
Dougall Motor Car Corp.
Raoul Karman
Francisco Lavin
Church of the Nazarene
Henry Field Co.
University of South Dakota
Georgia School of Technology
University of Illinois
The Outlet Co.
Radio Corp. of Porto Rico
Holt-Rowe Broadcasting Co.
Difuntora Portena XES

900 kilocycles 333.1 meters

KGBU	†	500	---	Ketchikan, Alaska
KHJ	*	1000	C	Los Angeles, Cal.
KSEI	*	250	---	Pocatelli, Idaho
TIC	---	50	---	San Jose, Costa Rica
WBEN	---	1000	N	Buffalo, N. Y.
WJAX	*	1000	N	Jacksonville, Fla.
WKY	*	1000	N	Oklahoma City
WLBL	†	2000	D	Ellis, Wis.

73	74
Alaska Radio & Service Co.	
Don Lee, Inc.	
Radio Service Corp.	
WBEN, Inc.	
City of Jacksonville	
WKY Radiophone Co.	
Wisconsin Dept. of Markets	

910 kilocycles 329.6 meters

CFLC	*	50	915	Prescott, Ont.
CFQC	*	500	I	Saskatoon, Sask.
CHNS	*	500	Za	Halifax, N. S.
CJCG	*	5000	b	London, Ont.
CNRH	---	500	Za	Halifax, N. S.
CNRL	---	5000	b	London, Ont.
CNRS	---	500	I	Saskatoon, Sask.
XEW	†	5000	---	Mexico City

Radio Association
The Electric Shop, Ltd.
Halifax Herald, Ltd.
Free Press Printing Co., Ltd.
Canadian National Railways
Canadian National Railways
Canadian National Railways
Mexico Music Co.

920 kilocycles 325.9 meters

HHK	†	1000	---	Port au Prince, Haiti
KFEL	*	500	I	Denver, Colo.
KFXF	*	500	I	Denver, Colo.
KOMO	†	1000	N	Seattle, Wash.
KPRC	*	1000	2+N	Houston, Texas
WAAF	---	500	D	Chicago, Ill.
WBSO	---	500	D	Needham, Mass.
WVJ	†	1000	N	Detroit, Mich.

69
Republic of Haiti
Eugene P. O'Fallon, Inc.
Colorado Radio Corp.
Fisher's Blend Station, Inc.
Houston Printing Co.
Drivers' Journal Publishing Co.
Babson Service Organization, Inc.
The Detroit News

930 kilocycles 322.4 meters

CFCH	---	100	3	North Bay, Ont.
CFRC	---	50	3+	Kingston, Ont.
CJCA	*	500	---	Edmonton, Alta.
CMCD	---	250	925	Havana, Cuba
CMCN	---	250	925	Havana, Cuba
CMJF	---	50	---	Camaguey, Cuba
KFWI	†	500	I	San Francisco, Cal.
KGBZ	*	500	2+	York, Nebr.
KMA	*	500	2+	Shenandoah, Iowa
KROW	*	500	1+C	Oakland, Cal.
WBRC	*	500	+	Birmingham, Ala.
WDBJ	*	250	+	Roanoke, Va.
WIBG	*	25	S	Elkins Park, Pa.

68
Northern Supplies, Ltd.
Queen's University
The Edmonton Journal, Ltd.
Angel Bertramaty
Antonio Ginard
John L. Stowers
Radio Entertainments, Inc.
Dr. George R. Miller
May Seed & Nursery Co.
Educational Broadcasting Corp.
Birmingham Broadcasting Co., Inc.
Times-World Corp.
St. Paul's P. E. Church.

940 kilocycles 319.0 meters

KGU	†	1000	N	Honolulu, Hawaii
KOIN	*	1000	C	Portland, Oregon
KZRC	---	500	937.5	Cebu, P. I.
WAAT	---	300	D	Jersey City, N. J.
WCSH	*	1000	N	Portland, Maine
WDAY	*	1000	N	Fargo, N. D.
WFIW	*	1000	C	Hopkinsville, Ky.
WHA	---	750	D+	Madison, Wis.
XEO	---	5000	---	Madison, Wis.

66
Marion A. Mulrony
KOIN, Inc.
Bremer Broadcasting Corp.
Congress Square Hotel Co.
WDAY, Inc.
WFIW, Inc.
University of Wisconsin
National Revolucionario Party

950 kilocycles 315.6 meters

CMHD	---	250	---	Caibarien, Cuba
KFWB	*	1000	---	Hollywood, Cal.

65
Manuel Alvarez
Warner Bros. Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

KGHL	1000	N	Billings, Mont. ✓	Northwestern Auto Supply Co., Inc.
KMBC	1000	C	Kansas City, Mo. ✓	Midland Broadcasting Co., Inc.
T14NRH	75	948	Heredia, C. R.	Armando Cespedes
WRC	500	N	Washington, D. C.	National Broadcasting Co., Inc.

960 kilocycles 312.3 meters

CFCL	500	2S	Toronto, Ont.	Dominion Battery Co.
CHCK	100	---	Charlottetown, P. E. I.	W. E. Burke
CHWC	500	3	Regina, Sask.	R. H. Williams & Sons, Ltd.
CJBR	500	3a	Regina, Sask.	Cooperative Wheat Producers, Ltd.
CKCK	500	3a	Regina, Sask.	Leader Publishing Co., Ltd.
CKNC	500	2	Toronto, Ont.	Canadian National Carbon Co., Ltd.
CMBC	150	965	Havana, Cuba	Domingo Fernandez
CMBD	150	965	Havana, Cuba	Luis Perez Garcia
CNRD	500	3	Regina, Sask.	Canadian National Railways
XED	10000	965	Reynosa, Mexico ✓	International Broadcasting Co.

970 kilocycles 309.1 meters

CMBT	500	---	Havana, Cuba	Emilio Perera
CMGF	50	977	Matanzas, Cuba	Bernabe R. de la Torre
KJR	5000	N	Seattle, Wash. ✓	Northwest Broadcasting System, Inc.
WCFL	1500	N Dn	Chicago, Ill. ✓	Chicago Federation of Labor

980 kilocycles 305.9 meters

CFCN	10000	985	Calgary, Alta.	Western Broadcasting Co.
KDKA	50000	N	Pittsburgh, Pa. ✓	Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

WBZ	25000	N□X	Springfield, Mass. ✓	Westinghouse Elec. & Mfg. Co.
WBZA	25000	□X	Boston, Mass. ✓	Westinghouse Elec. & Mfg. Co.
XEK	101	---	Mexico City	Arturo Martinez

1000 kilocycles 299.8 meters

KFVD	250	Dn	Culver City, Cal. ✓	Los Angeles Broadcasting Co.
WGEO	1000	D	York, Pa.	York Broadcasting Co.
WHO	5000	N□X	Des Moines, Iowa ✓	Central Broadcasting Co.
WOC	5000	N□X	Davenport, Iowa ✓	Central Broadcasting Co.
XEA	100	---	Guadalajara, Jal.	Alberto Palos Satza
XEC	50	---	Toluca, Mex.	Jesus R. Benavides
XEB	105	---	Oaxaca, Oax.	Alfonso Zorilla B.
XEPI	100	---	N. Laredo, Tams.	Rafael T. Carranza
XEFE	100	---	Chihuahua, Chih.	Feliciano Lopez Islas
XEFS	40	---	Queretaro, Qro.	Salvador Sanchez
XEL	101	---	Morelia, Mexico ✓	Carlos Gutierrez M.
XEJ	100	---	Juarez, Chih.	Juan G. Buttner
XEL	10	---	Saltito, Coah.	Antonio Garza Castro
XETC	100	---	Jalapa, Ver.	Juventino Sanchez
XETG	100	---	Torreón, Coah.	Feliciano Lopez Islas
XEU	100	---	Veracruz, Ver.	Fernando Pazos
XEV	100	---	Puebla, Pue.	Ciro Molina
XEY	105	---	Merida, Yuc.	Partido Socialista S. E.

1010 kilocycles 296.8 meters

CKIC	50	---	Wolfville, N. S.	Acadia University
CMBW	150	---	Havana, Cuba	Modesto Alvarez
CMBZ	150	---	Havana, Cuba	Manual y G. Salas
KGGF	500	2	S. Coffeyville, Okla. ✓	Powell & Platz
KOW	500	---	San Jose, Cal.	Pacific Agricultural Foundation, Ltd.
WHN	250	1	New York City	Marcus Loew Booking Agency
WIS	500	+N	Columbia, S. C.	South Carolina Broadcasting Co., Inc.
WLAP	250	C	Louisville, Ky.	American Broadcasting Corp. of Ky.
WNAD	500	2	Norman, Okla. ✓	University of Oklahoma
WPAP	250	1	New York City	Palisades Amusement Park
WQAO	250	1	New York City	Calvary Baptist Church
WRNY	250	1	New York City	Aviation Radio Station, Inc.

1020 kilocycles 293.9 meters

CMJH	15	1017	Ciego de Avila, Cuba	Luis Marauri
KFKX	10000	Na	Chicago, Ill. ✓	Westinghouse Elec. & Mfg. Co.
KYW	10000	Na	Chicago, Ill. ✓	Westinghouse Elec. & Mfg. Co.
WRAX	250	D	Philadelphia, Pa.	WRAX Broadcasting Co.
XEBD	300	---	Tijuana, B. C.	Carlos de la Sierra

KCY5.
1020

MTRS.
293.9

DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

1030 kilocycles 291.1 meters

CFCF	--	500	N	Montreal, Que.
CMKC	*	150	1034	Santiago de Cuba
CNRV	†	500	---	Vancouver, B. C.
XEB	†	1000	---	Mexico City, Mexico

Canadian Marconi Co. M. P. Martinez Canadian National Railways El Buen Tono, S. A.			

1040 kilocycles 288.3 meters

KRLD	*	10000	Ca	Dallas, Texas
KTHS	†	10000	Na	Hot Springs, Ark.
WKAR	*	1000	D	East Lansing, Mich.
WMAK	*	1000	Dn	Buffalo, N. Y.

57+			
KRLD Radio Corp. Chamber of Commerce Michigan State College Buffalo Broadcasting Corp.			

1050 kilocycles 285.5 meters

KFBI	*	5000	Dn	Milford, Kansas
KNX	*	5000	---	Hollywood, Cal.
XEFC	--	10	---	Merida, Yuc.

51+			
Farmers & Bankers Life Insurance Co. Western Broadcast Co. Hugo Molina Font.			

1060 kilocycles 282.8 meters

KWJJ	*	500	Dn	Portland, Ore.
WBAL	*	10000	IN	Baltimore, Md.
WJAG	*	1000	Dn	Norfolk, Nebr.
WTIC	*	50000	IN	Hartford, Conn.

50+			
KWJJ Broadcast Co., Inc. Consolidated Gas Elec. & Pwr. Co. Norfolk Daily News Travelers Broadcasting Service Corp.			

1070 kilocycles 280.2 meters

CMBG	--	150	---	Havana, Cuba
CMCB	--	150	---	Havana, Cuba
KJBS	*	100	D	San Francisco, Cal.
WCAZ	*	50	D	Carthage, Ill.
WDZ	†	100	D	Tuscola, Ill.
WTAM	*	50000	N	Cleveland, Ohio

49+			
Francisco Garrigo Antonio Capablanca Julius Brunton & Sons Co. Superior Broadcasting Service James L. Bush National Broadcasting Co., Inc.			

1080 kilocycles 277.6 meters

WBT	*	5000	CX	Charlotte, N. C.
WCBD	*	5000	1 Dn	Zion, Ill.
WMBI	*	5000	1 Dn	Chicago, Ill.

48			
Station WBT, Inc. Wilbur Glenn Voliva Moody Bible Institute			

1090 kilocycles 275.1 meters

KMOX	*	50000	C	St. Louis, Mo.
------	---	-------	---	----------------

47			
Voice of St. Louis, Inc.			

1100 kilocycles 272.6 meters

KGDM	*	250	DX	Stockton, Cal.
WLWL	*	5000	1	New York City
WPG	*	5000	1C	Atlantic City, N. J.

46			
E. F. Peffer Missionary Society of St. Paul WPG Broadcasting Corp.			

1110 kilocycles 270.1 meters

CMHI	--	15	---	Santa Clara, Cuba
KSOS	*	2500	Dn	Sioux Falls, S. D.
WRVA	*	5000	N	Richmond, Va.

45	44		
Laviz y Paz Sioux Falls Broadcasting Assn., Inc. Larus & Bros. Co., Inc.			

1120 kilocycles 267.7 meters

CFCA	†	500	a	Toronto, Ont.
CFJC	--	100	---	Kamloops, B. C.
CHGS	*	100	---	Summerside, P. E. I.
CJOC	†	100	---	Lethbridge, Alta
CNRT	*	500	a	Toronto, Ont.
KFTO	†	100	D	Spokane, Wash.
KFSG	*	500	3	Los Angeles, Cal.
KMCS	*	500	3Y	Inglewood, Cal.
KRSC	†	50	D	Seattle, Wash.
KTRH	*	500	2C	Houston, Texas
WDBO	*	500	+C	Orlando, Fla.
WDEL	†	250	+X	Wilmington, Del.
WHDH	*	250	1	Milwaukee, Wis.
WISN	†	250	1C	Milwaukee, Wis.
WTAW	†	500	2	College Station, Texas

42			
Star Pub. & Ptg. Co. N. S. Dalgleish & Sons R. T. Holman, Ltd. Harold R. Carson Canadian National Railways Spokane Broadcasting Corp. Echo Park Evang. Assn. Dalton's, Inc. Radio Sales Corp. Rice Hotel Orlando Broadcasting Co., Inc. WDEL, Inc. Marquette University Evening Wisconsin Co. Agricultural & Mech. College			

1130 kilocycles 265.3 meters

KSL	*	5000	NX	Salt Lake City
WJVD	*	20000	C Dn	Mooseheart, Ill.
WOV	--	1000	D	New York City
XEH	--	1000	1132	Monterrey, N. L.

43			
Radio Service Corp. of Utah Loyal Order of Moose International Broadcasting Corp. Constantino Tarnava			

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1140 kilocycles 263.0 meters

✓ KVOO * 5000 1NX Tulsa, Okla. ✓
 ✓ WAPI * 5000 1NX Birmingham, Ala. ✓
 XETA -- 500 --- Mexico City

42 ✓ 42
 Southwestern Sales Corp.
 Alabama Polytechnic Institute
 Manuel Espinosa Tagle

1150 kilocycles 260.7 meters

CJOR * 500 1155 Vancouver, B. C.
 CMCQ * 600 --- Havana, Cuba
 CMQ † 250 --- Havana, Cuba
 WHAM * 5000 NX Rochester, N. Y. ✓

41
 G. C. Chandler
 Andres Martinez
 Jose Fernandez
 Stromberg-Carlson Tel. Mfg. Co.

1160 kilocycles 258.5 meters

✓ WOWO * 10000 1C Ft. Wayne, Ind.
 ✓ WWVA * 5000 1C Wheeling, W. Va. ✓

40
 Main Auto Supply Co.
 West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

✓ WCAU * 10000 CX Philadelphia, Pa. ✓

39
 Universal Broadcasting Co.

1180 kilocycles 254.1 meters

KEX * 5000 2N Portland, Ore. ✓
 KOB * 20000 2 Albuquerque, N. M. ✓
 ✓ WDGY * 1000 1 Dn Minneapolis, Minn. ✓
 WGBS † 500 --- New York City
 WMAZ † 500 --- Macon, Ga.

38
 Western Broadcasting Co.
 College of Agriculture X Mech. Arts
 Dr. George W. Young
 American Radio News Corp.
 Southeastern Broadcasting Co., Inc.

1190 kilocycles 252.0 meters

✓ WOAI * 50000 N San Antonio, Texas ✓

37 ✓ 37
 Southern Equipment Co.

1200 kilocycles 249.9 meters

CKOV --- 100 --- Kelowna, B. C.
 CMGB --- 7.5 1205 Matanzas, Cuba
 CMJC --- 30 --- Carnaguey, Cuba
 KBTM --- 100 D --- Paragould, Ark.
 KFJB † 100 + Marshalltown, Iowa
 KFWF † 100 5+ St. Louis, Mo.
 KGDE * 100 + Fergus Falls, Minn.
 KGDY * 100 --- Huron, S. D.
 ✓ KGEK † 100 9 Yuma, Colo.
 KGEW † 100 9 Fort Morgan, Colo.
 KGFI * 100 --- Los Angeles, Cal.
 KGHJ * 100 --- Little Rock, Ark.
 KGY † 10 --- Lacey, Wash.
 KMLB --- 100 D --- Monroe, La.
 KSMR --- 100 --- Bakersfield, Cal.
 KVSOS * 100 --- Bellingham, Wash.
 KWG * 100 --- Stockton, Cal.
 WABI † 100 --- Bangor, Maine
 WABZ * 100 I --- New Orleans, La.
 WBBZ * 100 --- Arkansas City, Kas. ✓
 WBHS --- 50 10CP Huntsville, Ala.
 WCAT † 100 --- Rapid City, S. D.
 WCAZ * 100 2 --- Burlington, Vt.
 WCLO † 100 --- Janesville, Wis.
 WCOD † 100 3 --- Harrisburg, Pa.
 WEPS † 100 7 --- Worcester, Mass.
 WFAM * 100 8 --- South Bend, Ind.
 WFBC * 50 10 Knoxville, Tenn.
 WFBE --- 100 + Cincinnati, Ohio
 WHBC --- 10 4S Canton, Ohio
 WHBY † 100 --- Green Bay, Wis.
 WIBX * 100 --- Utica, N. Y. ✓
 WIL * 100 5+ St. Louis, Mo. ✓
 WJBC * 100 6 La Salle, Ill.
 WJBL † 100 6 Decatur, Ill. ✓
 WJWC † 100 1 New Orleans, La.
 WLBC * 100 3 Lancaster, Pa.
 WNEO * 100 4 Petersburg, Va.
 WNBW † 10 --- Washington, Pa.
 WNBX † 10 --- Carbondale, Pa.
 WORC * 100 7CX --- Springfield, Vt.
 WRBL † 50 --- Worcester, Mass.
 WWAE * 100 8 --- Columbus, Ga.
 10-AB --- 25 --- Hammond, Ind.
 10-BP † 15 --- Moose Jaw, Sask.
 --- --- Wingham, Ont.

J. W. B. Browne
 Jose Anorga
 Pedro Noguearas
 W. J. Beard's Temple of Music
 Marshall Electric Co., Inc.
 St. Louis Truth Center, Inc.
 Jaren Drug Co.
 Voice of South Dakota
 Beehler Elec. Equipment Co.
 City of Fort Morgan
 Ben S. McGlashan
 O. A. Cook
 St. Marten's College
 J. C. Limer
 Santa Maria Radio
 KVOS, Inc.
 Portable Wireless Tel. Co., Inc.
 Pine Tree Broadcasting Corp.
 Samuel D. Reeks
 C. L. Carrell
 The Hutchens Co.
 State School of Mines
 Burlington Daily News
 WCLO Radio Corp.
 Keystone Broadcasting Corp.
 Alfred Frank Kleindienst
 South Bend Tribune
 First Baptist Church
 Post Publishing Co.
 St. John's Catholic Church
 St. Norbert's College
 WIBX, Inc.
 Missouri Broadcasting Corp.
 Kaskaskia Broadcasting Co.
 Commodore Broadcasting, Inc.
 Charles C. Carlson, Jr.
 Lancaster Brdcastg. Service Inc.
 WLBG, Inc.
 John Brownlee Spriggs
 Home Cut Glass & China Co.
 First Congregational Church
 Alfred Frank Kleindienst
 WRBL Radio Station, Inc.
 Hammond-Calumet, Broad. Corp.
 Moose Jaw Radio Assn.
 W. T. Cruickshank

KCYS. 1200
 MTRS. 249.9
 DIA

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

CFCO	--	100	8	Chatham, Ont.
CFNB	*	100	---	Fredericton, N. B.
CJOR	*	500	---	Vancouver, B. C.
CKMC	---	100	8	Cobalt, Ont.
KDFN	---	100	---	Casper, Wyo.
KDLR	+	100	---	Devil's Lake, N. D.
KFOR	*	100	+	Lincoln, Nebr.
KFVS	*	100	6	Cape Girardeau, Mo.
KFXM	*	100	9	San Bernardino, Cal.
KGCR	+	100	---	Watertown, S. D.
KGNO	*	100	---	Dodge City, Kansas
KMJ	*	100	---	Fresno, Cal.
KPPC	\$	50	9	Pasadena, Cal.
KWEA	*	100	---	Shreveport, La.
WALR	*	100	---	Zanesville, Ohio
WBAX	*	100	1	Wilkes-Barre, Pa.
WBBL	+	100	7S	Richmond, Va.
WCBS	*	100	2	Springfield, Ill.
WCOH	*	100	3	Yonkers, N. Y.
WCRW	*	100	4	Chicago, Ill.
WEBQ	*	100	6	Harrisburg, Ill.
WEDC	*	100	4	Chicago, Ill.
WGBB	---	100	3	Freeport, N. Y.
WGCM	*	100	---	Gulfport, Miss.
WHBF	*	100	---	Rock Island, Ill.
WHBU	+	100	---	Anderson, Ind.
WIBU	*	100	---	Poynette, Wis.
WJBI	---	100	3	Red Bank, N. J.
WJBU	---	100	1	Lewisburg, Pa.
WJBY	*	100	3	Gadsden, Ala.
WJW	*	100	---	Mansfield, Ohio
WLCI	*	50	---	Ithaca, N. Y.
WMBG	*	100	7	Richmond, Va.
WMRJ	*	100	3	Jamaica, N. Y.
WOCL	*	50	---	Jamestown, N. Y.
WOMT	*	100	---	Manitowoc, Wis.
WPAW	*	100	5	Pawtucket, R. I.
WPRO	*	100	5	Providence, R. I.
WQDX	*	100	---	Thomasville, Ga.
WRBQ	+	100	+	Greenville, Miss.
WSBC	*	100	4	Chicago, Ill.
WSEN	+	100	---	Columbus, Ohio
WSIX	*	100	---	Springfield, Tenn.
WSOC	+	100	---	Gastonia, N. C.
WTAX	+	100	2	Springfield, Ill.
XEX	---	500	---	Mexico City

34-32
33-

Western Ontario "Better Radio" Club
James S. Neill & Sons, Ltd.
G. C. Chandler
R. L. MacAdam
Donald Lewis Hathaway
KDLR, Inc.
Howard A. Shuman
Hirsch Battery & Radio Co.
J. C. & E. W. Lee
Greater Kampska Radio Corp.
Dodge City Broadcasting Co.
James McClatchy Co.
Pasadena Presbyterian Church
Hello World Broadcasting Corp.
Roy W. Waller
John H. Stenger, Jr.
Grace Covenant Pres. Church
H. L. Dewing & Chas. Messter
Westchester Broadcasting Corp.
Clinton R. White
First Trust & Savings Bank
Emil Denmark, Inc.
Harry H. Carman
Great Southern Land Co., Inc.
Bearsley Specialty Co.
Anderson Broadcasting Corp.
Wm. C. Forrest
Monmouth Broadcasting Co.
Bucknell University
Gadsen Broadcasting Co., Inc.
Mansfield Broadcasting Assn.
Lutheran Assn. of Ithaca
Havens & Martin, Inc.
Peter J. Prinz
A. E. Newton
Francis M. Kadow
Shartenburg & Robinson Co.
Cherry & Webb Broadcasting Co.
Stevens Luke
J. Pat. Scully
World Battery Co., Inc.
Columbus Broadcasting Co.
638 Tire & Vulcanizing Co.
WSOC, Inc.
WTAX, Inc.
Excelsior, Cia Editorial S. A.

1220 kilocycles 245.8 meters

CMBY	--	350	1225	Havana, Cuba
CMCA	--	150	1225	Havana, Cuba
KFKU	*	500	1	Lawrence, Kansas
KTW	---	1000	---	Seattle, Wash.
KWSC	*	1000	+	Pullman, Wash.
WCAD	*	500	D	Canton, N. Y.
WCAE	*	1000	N	Pittsburgh, Pa.
WDAE	*	1000	C	Tampa, Fla.
WREN	*	1000	IN	Lawrence, Kansas

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Callejas-Coscultuela
Manuel Cruz
University of Kansas
First Presbyterian Church
State College of Washington
St. Lawrence University
WCAE, Inc.
Tampa Publishing Co.
Jenny Wren Co.

1230 kilocycles 243.8 meters

KFQD	---	100	---	Anchorage, Alaska
KGGM	+	250	+	Albuquerque, N. Mex.
KYA	*	1000	---	San Francisco, Cal.
WBIS	*	1000	2	Boston, Mass.
WFBM	*	1000	1C	Indianapolis, Ind.
WNAC	*	1000	2C	Boston, Mass.
WPSC	*	500	D	State College, Pa.
WSBT	+	500	1	South Bend, Ind.
XETQ	---	100	---	Mexico, Mex.

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Anchorage Radio Club
New Mexico Broadcasting Co.
Pacific Broadcasting Corp.
Shepard Broadcasting Service, Inc.
Indianapolis Power & Light Co.
Shepard Broadcasting Service, Inc.
Pennsylvania State College
South Bend Tribune
Carlos G. Caballero

1240 kilocycles 241.8 meters

CMAB	--	20	1249	Pinar del Rio, Cuba
KGCU	---	250	3	Mandan, N. D.
KLPM	+	250	3	Minot, N. D.
KTAT	+	1000	1	Ft. Worth, Texas
WACO	+	1000	1C	Waco, Texas
WXYZ	+	1000	C	Detroit, Mich.

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Francisco Martinez
Mandan Radio Assn.
John B. Cooley
S. A. T. Broadcast Co.
Central Texas Broadcasting Co., Inc.
Kunsky-Trendle Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1250 kilocycles 239.9 meters

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--	--	--

KFMX	†	1000	2
KFOX	*	1000	---
WAAM	*	1000	1+X
WCAL	*	1000	2
WDSU	†	1000	C
WGCP	†	250	1
WLB	†	1000	2
WODA	†	1000	1
WFHM	†	1000	2
XEFA	--	250	---

Northfield, Minn.	✓
Long Beach, Cal.	✓
Newark, N. J.	✓
Northfield, Minn.	✓
New Orleans, La.	✓
Newark, N. J.	✓
St. Paul, Minn.	✓
Paterson, N. J.	✓
Minneapolis, Minn.	✓
Mexico City	

Carleton College	
Nichols & Warinner, Inc.	
WAAM, Inc.	
St. Olaf College	
Jos. H. Uhalt	
May Radio Broadcast Corp.	
University of Minnesota	
Richard E. O'Dea	
Minnesota Broadcasting Corp.	
Manuel F. Murguia	

1260 kilocycles 238.0 meters

30

--	--	--

KOIL	*	1000	N
KRGV	*	500	1
KVOA	†	500	D
KWWG	*	500	1
WLBW	*	500	C+
WTOC	*	500	C

Council Bluffs, Iowa	✓
Harlingen, Texas	
Tucson, Arizona	
Brownsville, Texas	
Oil City, Pa.	
Savannah, Ga.	

Mona Motor Oil Co.	
KRGV, Inc.	
Robert M. Riculfi	
Herald Pub. Co.	
Radio-Wire Program Corp.	
Savannah Broadcasting Co.	

1270 kilocycles 236.1 meters

29

--	--	--

KGCA	†	50	2D
KOL	†	1000	C
KWOR	*	1000	C
KWLC	*	100	2D
WASH	*	500	1
WEAI	*	1000	D
WFBR	--	500	N
WJDX	*	1000	N
WOOD	†	500	1
XEFB	--	50	---

Decorah, Iowa	
Seattle, Wash.	
Colorado Springs, Colo.	
Decorah, Iowa	
Grand Rapids, Mich.	
Ithaca, N. Y.	
Baltimore, Md.	
Jackson, Miss.	
Grand Rapids, Mich.	
Monterrey, N. L.	

Charles W. Greenley	
Seattle Broadcasting Co., Inc.	
Reynolds Radio Co., Inc.	
Luther College	
WASH Broadcasting Corp.	
Cornell University	
Baltimore Radio Show, Inc.	
Lamar Life Insurance Co.	
Kunsky-Trende Broadcasting Corp.	
Quintanilla y Stevenson	

1280 kilocycles 234.2 meters

28

--	--	--

CMCU	--	150	1285
CMCW	--	150	1285
KFBB	*	1000	+
WCAM	*	500	1
WCAP	*	500	1
WDDO	*	1000	+C
WIBA	*	500	+N
WOAX	--	500	1
WRR	†	500	C

Havana, Cuba	
Havana, Cuba	
Great Falls, Mont.	
Camden, N. J.	
Asbury Park, N. J.	
Chattanooga, Tenn.	
Madison, Wis.	
Trenton, N. J.	
Dallas, Texas	

Jorge Garcia Serra	
Jose Lorenzo	
Buttrey Broadcast, Inc.	
City of Camden	
Radio Industries Broadcast Co.	
WDDO Broadcasting Corp.	
Badger Broadcasting Co.	
WOAX, Inc.	
City of Dallas	

1290 kilocycles 232.4 meters

27

--	--	--

KDYL	†	1000	C
KFUL	†	500	1
KLCN	*	50	D
KTSA	†	1000	1+C
WEBC	*	1000	+N
WJAS	*	1000	C+
WNEZ	--	50	D

Salt Lake City	✓
Galveston, Texas	
Blytheville, Ark.	
San Antonio, Texas	✓
Superior, Wis.	✓
Pittsburgh, Pa.	✓
Saranac Lake, N. Y.	✓

Intermountain Broadcasting Corp.	
News Publishing Co.	
C. L. Lintzenich	
Lone Star Broadcast Co.	
Head of Lake Broadcasting Co.	
Pittsburgh Radio Supply House	
Smith & Mace	

KCYS. 1310
MTRS. 228.9
DIAL

1300 kilocycles 230.6 meters

26

--	--	--

KFAC	*	1000	4
KFH	*	1000	2C
KFJR	*	500	3
KTBR	--	500	3
WBRR	*	1000	1
WEVD	*	500	1
WHAP	*	1000	1
WHAZ	*	500	1
WIOD	*	1000	N
WOQ	*	1000	2
XEM	†	250	---

Los Angeles, Cal.	✓
Wichita, Kansas	✓
Portland, Ore.	✓
Portland, Ore.	
Brooklyn, N. Y.	
New York City	
New York City	
Troy, N. Y.	
Miami, Fla.	
Kansas City, Mo.	✓
Tampico, Tams.	

Los Angeles Broadcasting Co.	
Radio Station KFH Co.	
Ashley C. Dixon-KFJR, Inc.	
M. E. Brown	
People's Pulpit Association	
Debs Memorial Radio Fund, Inc.	
Defenders of Truth Society, Inc.	
Rensselaer Polytechnic Institute	
Isle of Dreams Broadcasting Corp.	
Unity School of Christianity	
Maria T. de Gutierrez	

1310 kilocycles 228.9 meters

25+

--	--	--

KCRJ	†	100	D
KFBK	†	100	---
KFGQ	†	100	7
KFJY	*	100	7
KFPL	†	100	---
KFPM	*	15	---

Jerome, Arizona	
Sacramento, Cal.	
Boone, Iowa	
Ft. Dodge, Iowa	
Dublin, Texas	✓
Greenville, Texas	

Chas. C. Robinson	
Jas. McClatchy Co.	
Boone Biblical College	
Cedar Rapids Broadcast Co.	
C. C. Baxter	
The New Furniture Co.	

INDEX BY FREQUENCIES AND DIAL NUMBERS

KFUP	--	100	8	Denver, Colo.	Fitzsimmons General Hospital
KFXJ	†	100	8	Grand Junction, Colo.	Western Slope Broadcasting Co.
KFXR	†	100	+	Oklahoma City	Exchange Ave. Baptist Church
KGBX	*	100	---	St. Joseph, Mo.	KGBX, Inc.
KGCX	†	100	+	Wolf Point, Mont.	First State Bank of Vida
KGEZ	†	100	---	Kalispell, Mont.	Treloar-Church Broadcasting Co.
KGFV	†	100	---	Kearney, Nebr.	Central Nebraska Broadcasting Corp.
KIT	†	100	---	Yakima, Wash.	Carl E. Haymond
KMED	†	100	---	Medford, Ore.	Mrs. W. J. Virgin
KRMD	†	50	9	Shreveport, La.	Robert M. Dean
KTLG	*	100	---	Houston, Texas	Houston Broadcasting Co.
KTSM	†	100	2	El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
KWCR	†	100	7	Cedar Rapids, Iowa	Cedar Rapids Broadcast Co.
KXRO	†	100	---	Aberdeen, Wash.	KXRO, Inc.
WBEO	*	100	---	Marquette, Mich.	Lake Superior Broadcasting Co.
WBOW	*	100	---	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	*	100	---	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	*	100	1	Joliet, Ill.	WCLS, Inc.
WDAH	†	100	2	El Paso, Texas	Bledsoe & Blackwell
WEBR	*	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WEXL	†	50	---	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	*	100	3X	Altoona, Pa.	Wm. F. Gable Co.
WFDV	*	100	---	Flint, Mich.	Frank D. Fallain
WFDY	†	100	D	Rome, Ga.	Rome Broadcasting Corp.
WGAL	*	100	5	Lancaster, Pa.	WGAL, Inc.
WGH	*	100	---	Newport News, Va.	Hampton Roads Broadcasting Corp
WHAT	†	100	4	Philadelphia, Pa.	Independence Broadcasting Co.
WJAC	*	100	3	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	*	50	6	Elkhart, Ind.	Truth Publishing Co., Inc.
WKAV	*	100	---	Laconia, N. H.	Laconia Radio Club
WKBB	*	100	1	Joliet, Ill.	Sanders Bros. Radio Station
WKBC	*	100	---	Birmingham, Ala.	R. B. Broyles Furniture Co
WKBS	*	100	---	Galesburg, Ill.	Permal N. Nelson
WLBC	†	50	6	Muncie, Ind.	Donald A. Burton
WMBO	†	100	---	Auburn, N. Y.	WMBO, Inc.
WNBH	*	100	---	New Bedford, Mass.	New Bedford Broadcasting Co.
WOL	*	100	---	Washington, D. C.	American Broadcasting Co.
WRAW	*	100	5X	Reading, Pa.	Reading Broadcasting Co.
WROL	†	100	---	Knoxville, Tenn.	Stewart Broadcasting Co.
WSAJ	*	100	---	Grove City, Pa.	Grove City College
WSJS	*	100	---	Winston-Salem, N. C.	Winston-Salem Journal Co.
WTSL	†	100	4	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WTJS	*	100	+	Jackson, Tenn.	Sun Publishing Co.
WTSL	--	100	9	Laurel, Miss.	G. A. Houseman

1320 kilocycles 227.1 meters

KGHF	†	250	+	Pueblo, Colo.	C. P. Ritchie & J. E. Finch
KGMB	†	250	---	Honolulu, Hawaii	Honolulu Broadcasting Co., Ltd.
KID	†	250	1+	Idaho Falls, Idaho	KID Broadcasting Co.
KTFI	†	250	1+	Twin Falls, Idaho	Radio Broadcasting Corp.
WADC	*	1000	C	Akron, Ohio	Allen T. Simmons
WSMB	*	500	N	New Orleans, La.	WSMB, Inc.

1330 kilocycles 225.4 meters

KGB	*	500	C	San Diego, Cal.	Don Lee, Inc.
KSCJ	*	1000	1+C	Sioux City, Iowa	Perkins Bros. Co.
WDRG	*	500	C	Hartford, Conn.	WDRG, Inc.
WSAI	*	1000	N+	Cincinnati, Ohio	Crosley Radio Corp., Lessee
WTAQ	*	1000	1C	Eau Claire, Wis.	Gillette Rubber Co.

1340 kilocycles 223.7 meters

CMCG	--	30	1345	Havana, Cuba	Jose Justo Moran
CMCR	--	150	1345	Havana, Cuba	Aurelio Hernandez
CMCY	--	100	1345	Havana, Cuba	M. D. Autran
KFPV	†	50	D	Fort Smith, Ark.	Southwestern Hotel Co.
KFPY	*	1000	C	Spokane, Wash.	Symons Broadcasting Co.
WCOA	*	500	---	Pensacola, Fla.	City of Pensacola
WSPD	*	1000	C	Toledo, Ohio	Toledo Broadcasting Co.

1350 kilocycles 222.1 meters

KIDO	†	1000	---	Boise, Idaho	Boise Broadcasting Station
KWK	*	1000	N	St. Louis, Mo.	Thomas Patrick, Inc.
WAWZ	*	250	1	Zarephath, N. J.	Pillar of Fire
WBNX	--	250	1	New York City	Standard Cahill Co., Inc.
WCDA	*	250	1	New York City	Italian Educ. Broadcasting Co., Inc.
WEHC	*	500	D	Emory, Va.	Emory & Henry College
WMSG	--	250	1	New York City	Madison Sq. Garden Brdctg. Corp.

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1360 kilocycles 220.4 meters

KGIR * 1000
 KGIR † 500
 WCSC * 500
 WFBL * 1000
 WGES * 500
 WJKS * 1000
 WQBC † 500
 XEG -- 100

N-- Long Beach, Cal. ✓
 N-- Butte, Montana ✓
 CX Charleston, S. C.
 1+ Syracuse, N. Y. ✓
 1+ Chicago, Ill. ✓
 1+ Gary, Ind. ✓
 D Vicksburg, Miss.
 --- Mexico, Mex.

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Consolidated Broadcasting Corp.
 KGIR, Inc.
 Lewis Burk
 Onondaga Radio Broadcasting Corp.
 Oak Leaves Broadcasting Station, Inc.
 Johnson-Kennedy Radio Corp.
 Delta Broadcasting Co., Inc.
 Miguel Yarza

1370 kilocycles 218.7 meters

CMAC -- 30
 CMGE -- 30
 CMCH -- 150
 HRB -- 2300
 KCRC † 100
 KFBL * 50
 KFJL † 100
 KFJM † 100
 KFJZ * 100
 KFLX * 100
 KGAR * 100
 KGDA † 100
 KGFG † 100
 KGFL † 50
 KGKL † 100
 KMAC † 100
 KONO † 100
 KOOS * 100
 KRE -- 100
 KUJ † 100
 KVL -- 100
 KWKC -- 100
 WBCF † 50
 WBTM -- 100
 WCBM -- 100
 WELK * 100
 WGL * 100
 WHBD † 100
 WHBQ † 100
 WHDF † 100
 WIBM -- 100
 WJBK * 50
 WJL -- 100
 WLEY -- 100
 WLVA -- 100
 WMBR † 100
 WQBR † 100
 WQDM * 100
 WRAK * 100
 WRAM * 100
 WRBJ † 10
 WRDO † 100
 WRJN † 100
 WSVS * 50

1375 Pinar del Rio, Cuba
 1375 Cardenas, Cuba
 --- Matanzas, Cuba
 --- Tegucigalpa, Hond.
 2+ Enid, Okla. ✓
 3 Everett, Wash.
 YZ Astoria, Ore.
 --- Grand Forks, N. D. ✓
 --- Ft. Worth, Texas ✓
 --- Galveston, Texas ✓
 --- Tucson, Arizona
 --- Mitchell, S. D. ✓
 2 Oklahoma City ✓
 --- Raton, N. M.
 --- San Angelo, Texas
 5 San Antonio, Texas
 5 San Antonio, Texas
 --- Marshfield, Ore.
 6 Berkeley, Cal.
 --- Walla Walla, Wash.
 3 Seattle, Wash.
 --- Kansas City, Mo. ✓
 --- Glens Falls, N. Y. ✓
 7 Danville, Va. ✓
 --- Baltimore, Md.
 --- Philadelphia, Pa.
 C Fort Wayne, Ind.
 --- Mount Orab, Ohio
 --- Memphis, Tenn.
 --- Calumet, Mich.
 1 Jackson, Mich.
 --- Detroit, Mich.
 --- Atlanta, Ga. ✓
 --- Lexington, Mass.
 7 Lynchburg, Va.
 --- Tampa, Fla.
 --- Patcongue, N. Y.
 D St. Albans, Vt.
 --- Williamsport, Pa.
 --- Wilmington, N. C.
 X Hattiesburg, Miss. ✓
 CP Augusta, Maine ✓
 --- Racine, Wis.
 --- Buffalo, N. Y.

20-19 [] [] []

Oscar S. Mechoso
 Genaro Sebater
 Alberto Alvarez
 United Fruit Co.
 Enid Radiophone Co.
 Lese Bros.
 KFJI Broadcasters, Inc.
 University of North Dakota
 Estate of H. C. Meachem
 George Roy Clough
 Tucson Motor Service Co.
 Mitchell Broadcasting Corp.
 Oklahoma Broadcasting Co., Inc.
 KGFL, Inc.
 KGKL, Inc.
 W. W. McAllister
 Mission Broadcasting Co.
 H. H. Hanseth, Inc.
 First Congregational Church
 KUJ, Inc.
 KVI, Inc.
 Wilson Duncan Broadcasting Co.
 W. N. Parker and H. H. Metcalfe
 Clarke Electric Co.
 Baltimore Broadcasting Corp.
 WELK Broadcasting Station, Inc.
 Fred Z. Zieg
 F. P. Moler
 Broadcasting Station WHBQ, Inc.
 Upper Michigan Broadcasting Co.
 WIBM, Inc.
 James F. Hopkins, Inc.
 Oglethorpe University
 Lexington Air Stations
 Lynchburg Broadcasting Corp.
 F. J. Reynolds
 Nassau Broadcasting Corp.
 A. St. Antoine
 C. R. Cummins
 Wilmington Radio Association
 Hattiesburg Broadcasting Co.
 WRDO, Inc.
 Racine Broadcasting Corp.
 Seneca Vocational School

1380 kilocycles 217.3 meters

CMJC -- 150
 KOH † 500
 KQV † 500
 KSO * 500
 WKBH * 1000
 WSMK * 200
 XETB -- 125

1382 Camaguey, Cuba
 C Reno, Nevada ✓
 2 Pittsburgh, Pa. ✓
 1 Clarinda, Iowa ✓
 1C La Crosse, Wis. ✓
 2 Dayton, Ohio ✓
 --- Torreon, Coah.

[] [] []

Feliciano Isaac
 The Bee, Inc.
 KQV Broadcasting Co.
 Iowa Broadcasting Co.
 WKBH, Inc.
 Stanley M. Krohn, Jr.
 Jose A. Berumen

KCY.S. 1400
 MTRS. 214.2
 DIAL

1390 kilocycles 215.7 meters

KLRA * 1000
 KOY † 500
 KUOA † 1000
 WHK * 1000

1C Little Rock, Ark. ✓
 --- Phoenix, Arizona ✓
 --- Fayetteville, Ark. ✓
 C Cleveland, Ohio ✓

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Arkansas Broadcasting Co.
 Nielson Radio & Sporting Goods Co.
 University of Arkansas
 Radio Air Service Corp.

1400 kilocycles 214.2 meters

CMBI -- 30
 CMBN -- 30
 CMCH -- 15

1405 Havana, Cuba
 1405 Havana, Cuba
 1405 Havana, Cuba

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Francisco Mayorquim
 Armado Torreal
 Hermari Torralbas

INDEX BY FREQUENCIES AND DIAL NUMBERS

CMCM	--	15	1405
KLO	* *	500	
KOCW	*	250	+
WBAA	+	500	1+
WBBC	*	500	2
WBCU	*	500	2
WCMA	+	500	1
WFOX	+	500	2
WKBF	+	500	1
WLTH	+	500	2
XEP	--	200	--

Havana, Cuba
Ogden, Utah
Chickasha, Okla. ✓
Lafayette, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Culver, Ind. ✓
Brooklyn, N. Y.
Indianapolis, Ind. ✓
Brooklyn, N. Y.
Laredo, Mexico

Martinez-Madicu
Peery Building Co.
College for Women
Purdue University
Brooklyn Broadcasting Corp.
U. S. Broadcasting Corp.
General Broadcasting Corp.
Paramount Broadcasting Co.
Indianapolis Broadcasting, Inc.
The Voice of Brooklyn, Inc.
La Voz Latino

1410 kilocycles

KFLV	+	500	4
KGRS	*	1000	1
WAAB	*	500	C
WBCM	*	500	C
WDAG	*	1000	1
WHBL	*	500	4
WHIS	+	250	2
WODX	*	500	3
WRBX	*	250	2
WSFA	+	500	3

212.6 meters

Rockford, Ill.
Amarillo, Texas ✓
Boston, Mass.
Bay City, Mich.
Amarillo, Texas ✓
Sheboygan, Wis.
Bluefield, W. Va.
Mobile, Ala. ✓
Roanoke, Va.
Montgomery, Ala. ✓

Rockford Broadcasters, Inc.
Gish Radio Service
Bay State Broadcasting Corp.
James E. Davidson
National Radio & Broadcasting Corp.
Press Pub. Co.
Daily Telegraph
Mobile Broadcasting Corp.
Richmond Development Corp.
Montgomery Broadcasting Co., Inc.

1420 kilocycles

KABC	+	100	---
KBPS	+	100	4
KFIZ	*	100	---
KFQU	*	100	5
KFXD	*	100	---
KFXV	+	100	---
KFYO	+	100	+
KGFF	+	100	---
KGCC	+	100	5
KGWI	+	100	---
KGIX	+	100	---
KGKX	+	100	---
KGVO	+	100	D
KICK	*	100	---
KORE	*	100	---
KXL	*	100	4
KXYZ	---	100	---
WAGM	---	100	CP
WDEW	---	50	D
WDEH	*	100	---
WEHS	---	100	X
WELL	+	50	---
WFDW	+	100	---
WHFC	---	100	2
WIAS	+	100	---
WILM	*	100	---
WJBO	*	100	---
WJMS	*	100	---
WKBI	*	100	CPD
WLBK	+	100	2
WMBF	*	100	---
WMBH	---	100	---
WPAD	+	100	---
WSPA	*	100	+
WTBO	*	100	+

211.1 meters

San Antonio, Texas ✓
Portland, Ore.
Fond du Lac, Wis.
Holy City, Cal.
Nampa, Idaho
Flagstaff, Arizona
Abilene, Texas
Shawnee, Okla. ✓
San Francisco, Cal.
Trinidad, Colo.
Las Vegas, Nevada
Sand Point, Idaho
Missoula, Montana
Red Oak, Iowa
Eugene, Ore.
Portland, Ore. ✓
Houston, Texas
Presque Isle, Maine
Waterbury, Vt.
Erie, Pa.
Cicero, Ill.
Battle Creek, Mich.
Anniston, Ala.
Cicero, Ill.
Ottumwa, Iowa
Wilmington, Del.
New Orleans, La.
Ironwood, Mich.
Cicero, Ill.
Kansas City, Kansas ✓
Detroit, Mich.
Joplin, Mo.
Paducah, Ky.
Spartanburg, S. C.
Cumberland, Md.

Alamo Broadcasting Co.
Benson Polytechnic Institute
Reporter Printing Co.
W. E. Riker
Frank E. Hurt
Albert H. Scherman
T. E. Kirksey
KGFF Broadcasting Co.
Golden Gate Broadcasting Co.
Leonard E. Wilson
Las Vegas, Nevada, Radio Corp.
C. E. Twiss and F. H. McCann
Mosby's Incorporated
Red Oak Radio Corp.
Eugene Broadcasting Station
KXL Broadcasters, Inc.
Harris County Broadcast Co.
Aroostook Broadcasting Corp.
Harry C. Whitehill
Erie Dispatch-Herald
WEHS, Inc.
Enquirer-News Co.
Raymond G. Hammett
WHFC, Inc.
Iowa Broadcasting Co.
Delaware Broadcasting Co., Inc.
Valdemar Jensen
Marius Johnson
WKBI, Inc.
WLBK Broadcasting Co.
Michigan Broadcasting Co., Inc.
Edwin Dudley Aber
Paducah Broadcasting Co.
Voice of South Carolina
Associated Broadcasting Corp.

1430 kilocycles

KECA	+	1000	N
KGNF	+	500	D
WBAK	+	500	1+
WCAH	*	500	C□
WFEA	*	500	CP
GBC	WAG-BC	500	2S
HEC	*	500	C□
HP	WAG-BC	500	1C+□
NBR	*	500	2
OKO	+	500	C□

209.7 meters

Los Angeles, Cal.
North Platte, Nebr.
Harrisburg, Pa.
Columbus, Ohio ✓
Manchester, N. H.
Memphis, Tenn. ✓
Rochester, N. Y.
Harrisburg, Pa.
Memphis, Tenn. ✓
Albany, N. Y.

Earle C. Anthony, Inc.
Great Plains Broadcasting Co.
Penna. State Police
Commercial Radio Service Co.
New Hampshire Broadcasting Co.
Memphis Broadcasting Co.
Hickson Electric & Radio Corp.
WHP, The Harrisburg Telegraph
Memphis Broadcasting Co.
WOKO, Inc.

140 kilocycles

S	*	250	D
3IG	WAG-BC	500	C

208.2 meters

Oakland, Cal.
Greensboro, N. C. ✓

Warner Bros.
North Carolina Broadcasting Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

WCBA	*	250	1	Allentown, Pa.	B. B. Musselman
WMBD	*	500	3+	Peoria Heights, Ill. ✓	Peoria Broadcasting Co.
WSAN	*	250	1	Allentown, Pa.	Allentown Call Publishing Co., Inc.
WTAD	†	500	3	Quincy, Ill. ✓	Illinois Broadcasting Corp.

1450 kilocycles 206.8 meters

KTBS	*	1000		Shreveport, La. ✓	Tri-State Broadcasting System, Inc.
WBMS	*	250	i--	Hackensack, N. J. ✓	WBMS Broadcasting Corp.
WGAR	†	500	N	Cleveland, Ohio ✓	WGAR Broadcasting Co.
WHOM	*	500	1	Jersey City, N. J. ✓	New Jersey Broadcasting Corp.
WKBO	*	250	1	Jersey City, N. J. ✓	Camith Corp.
WNJ	*	250	1	Newark, N. J. ✓	Radio Investment Co.
WSAR	*	250	---	Fall River, Mass. ✓	Doughty & Welch Electric Co., Inc.
WTFI	--	500	---	Athens, Ga. ✓	Toccoa Falls Broadcasting Co.

1460 kilocycles 205.4 meters

KSTP	*	10000	N	St. Paul, Minn. ✓	National Battery Broadcasting Co.
WJSV	*	10000	---	Alexandria, Va. ✓	Independent Publishing Co.

1470 kilocycles 204.0 meters

KGA	†	5000	N	Spokane, Wash. ✓	Northwest Broadcasting System, Inc.
WLAC	*	5000	C	Nashville, Tenn. ✓	Life & Casualty Insurance Co.

1480 kilocycles 202.6 meters

KFJF	*	5000	C	Oklahoma City ✓	National Radio Mfg. Co.
WKBW	*	5000	C	Buffalo, N. Y. ✓	Buffalo Broadcasting Co., Lessees

1490 kilocycles 201.2 meters

TJW	--	7.5	---	Hamilton, Bermuda	Midland Broadcasting Company
WCHI	*	5000	i--	Chicago, Ill. ✓	L. B. Wilson, Inc.
WCKY	*	5000	IN	Covington, Ky. ✓	

1500 kilocycles 199.9 meters

CMBL	--	20	---	Havana, Cuba	Julio C. Hidalgo
CMBQ	--	50	---	Havana, Cuba	Gali-Sardinas
CMBR	--	15	---	Havana, Cuba	Tomas Basail
KDB	*	100	---	Santa Barbara, Cal.	Santa Barbara Broadcasters, Ltd.
KGFI	*	100	+	Corpus Christi, Texas	Eagle Broadcasting Co., Inc.
KGFK	†	50	---	Moorhead, Minn. ✓	Red River Broadcasting Co., Inc.
KGIZ	†	100	---	Grant City, Mo. ✓	Grant City Park Corp.
KGKB	†	100	---	Tyler, Texas	Eagle Publishing Co.
KGKY	*	100	---	Scottsbluff, Nebr. ✓	Hilliard Co., Inc.
KPJM	*	100	---	Prescott, Arizona	A. P. Miller
KPO	†	50	---	Wenatchee, Wash. ✓	Wescoast Broadcasting Co.
KREG	†	100	---	Santa Ana, Cal. ✓	J. S. Edwards
KUT	†	100	---	Austin, Texas ✓	KUT Broadcasting Co.
KXO	*	100	---	El Centro, Cal.	E. R. Irey and F. M. Bowles
WDLX	--	100	---	Tupelo, Miss.	North Mississippi Broadcasting Corp.
WKBV	*	100	+	Connorsville, Ind.	Knox Battery & Electric Co.
WKBZ	†	50	---	Ludington, Mich.	K. L. Ashbacher
WLBX	*	100	i	Long Island City, N. Y.	John N. Brahy
WLOE	*	100	+	Boston, Mass.	Boston Broadcasting Co.
WMBA	†	100	i--	Newport, R. I.	LeRoy Joseph Beebe
WMBQ	*	100	i--	Brooklyn, N. Y.	Paul J. Gollhofer
WMIL	†	100	i	Brooklyn, N. Y.	Arthur Faske
WMPC	†	100	---	Lapeer, Mich.	First M. P. Church
WNBF	*	100	---	Binghamton, N. Y.	Howitt, Wood Radio Co., Inc.
WOPJ	*	100	---	Bristol, Tenn.	Radiophone Brcdstg. Station, Inc.
WPEN	*	100	+	Philadelphia, Pa.	Wm. Penn Broadcasting Co.
WRDW	*	100	---	Augusta, Ga.	Musivoc, Inc.
WSYB	†	100	---	Rutland, Vt.	Philipp Weiss Music Co.
WWRL	*	100	i--	Woodside, N. Y.	Long Island Broadcasting Corp.
WWSW	*	100	---	Pittsburgh, Pa.	William S. Walker
XETZ	--	100	---	Coyoacan, D. F.	Manuel Zetina

INDEX BY LOCATIONS WITH MAP KEY

ALABAMA				San Jose J-1			
	Watts		Keys.				
Anniston O-22	100	WFDW	1420	Santa Ana M-3	100	KRBG	1500
Birmingham O-21	5000	WAPI	1140	Santa Barbara M-2	100	KDB	1500
	500	WBRC	930	Stockton J-2	250	KGDM	1100
	100	WKBC	1310		100	KWG	1200
Gadsden O-21 ✓	100	WJBY	1210	COLORADO			
Huntsville N-21	50	WBHS	1200	Colorado Springs K-11	1000	KVOR	1270
Mobile Q-20	500	WODX	1410	Denver K-11	500	KFEL	920
Montgomery P-21	500	WSFA	1410		100	KFUP	1310
					500	KFXF	920
ALASKA					1000	KLZ	560
Anchorage	100	KFOD	1230		12500	KOA	830
Ketchikan	500	KGBU	900		500	KPOF	880
ARIZONA				Fort Morgan J-11	100	KGBW	1200
Flagstaff M-7	100	KFXY	1420	Grand Junction K-9	100	KFXJ	1310
Jerome M-6	100	KCRJ	1310	Greeley J-11	500	KFKA	880
Phoenix N-6	500	KOY	1390	Pueblo L-11	250	KGHF	1320
	500	K TAR	620	Trinidad L-11	100	KGIW	1420
Prescott M-6 ✓	100	KPJM	1500	Yuma J-12	100	KGBK	1200
Tucson O-7	100	KGAR	1370	CONNECTICUT			
	500	KVOA	1260	Bridgeport H-27	250	WICC	600
				Hartford H-27 ✓	500	WDRC	1330
					50000	WTIC	660-1060
				Storrs H-28	250	WCAC	600
ARKANSAS				DELAWARE			
Blytheville M-19	50	KLCN	1290	Wilmington J-26	250	WDEL	1120
Fayetteville M-16	1000	KUOA	1390		100	WILM	1420
Fort Smith N-16	50	KFPW	1340	DISTRICT OF COLUMBIA			
Hot Springs N-17 ✓	10000	KTHS	1040	Washington J-26	250	WMAL	630
Little Rock N-17	250	KARK	890		500	WRC	950
	100	KGHI	1200		100	WOL	1310
	1000	KLRA	1390	FLORIDA			
Paragould M-18	100	KBTM	1200	Clearwater R-24	1000	WFLA	620
CALIFORNIA				Gainesville Q-24	5000	WRUF	830
Bakersfield L-3	100	KSMR	1200	Jacksonville Q-24	1000	WJAX	900
Berkeley J-2	100	KRE	1370	Miami T-25	1000	WIOD	1300
Beverly Hills M-3	500	KMPC	710		1000	WQAM	560
Burbank M-3	500	KELW	780	Orlando R-24	500	WDBO	1120
Culver City M-3	250	KFVD	1000	Pensacola Q-21	500	WCOA	1340
El Centro N-4	100	KXO	1500	St. Petersburg-S-24	1000	WSUN	620
Fresno K-2	100	KMJ	1210	Tampa R-24	1000	WDAE	1220
Hollywood M-3	1000	KFWB	950		100	WMBR	1370
	500	KMTR	570	GEORGIA			
	5000	KNX	1050	Athens O-23	500	WTFI	1450
Holy City K-1	100	KFQU	1420	Atlanta O-22	250	WGST	890
Inglewood M-3	500	KMCS	1120		100	WJTL	1370
Long Beach M-3	1000	KFOX	1250		5000	WSB	740
	1000	KGER	1360	Augusta O-23 ✓	100	WRDW	1500
Los Angeles M-3	1000	KECA	1430	Columbus O-22	50	WRBL	1200
	1000	KFAC	1300	Macon O-23	500	WMAZ	1180
	5000	KFI	640	Rome N-22	100	WFDV	1310
	500	KFSG	1120	Savannah O-24	500	WTQC	1260
	100	KGJ	1200	Thomasville Q-22	100	WQDX	1210
	1000	KHJ	900	HAWAII			
	500	KTM	780	Honolulu	250	KGMB	1320
Oakland J-1	250	KLS	1440		1000	KGU	940
	500	KLX	880	IDAHO			
	500	KROW	930	Boise G-5	1000	KIDO	1350
	50	KPPC	1210	Idaho Falls G-7	250	KID	1320
Pasadena M-3	100	KFBK	1310	Nampa G-5	100	KFXD	1420
Sacramento J-2	100	KFXM	1210	Pocatello H-7 ✓	250	KSEI	900
San Bernardino M-3	500	KFSB	600	Sand Point D-6	100	KGKX	1420
San Diego N-3	500	KGB	1330	Twin Falls H-6	250	KTFI	1320
	1000	KFRC	610				
San Francisco J-1	500	KFWI	930				
	100	KGCC	1420				
	7500	KGO	790				
	100	KJBS	1070				
	5000	KPO	680				
	1000	KTAB	560				
	1000	KYA	1230				

INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS			Shenandoah J-16		
	Watts	Keys.			
Carthage J-18	50	WCAZ	500	KFNF	890
Chicago I-20	10000	KFKX	500	KMA	930
	10000	KYW	1000	KSCJ	1330
	500	WAAF	500	WMT	600
	25000	WBBM	KANSAS		
	1500	WCFL	Arkansas City M-15	100	WBBZ
	5000	WCHI	Dodge City L-13	100	KGNO
	100	WCRW	Kansas City K-16	100	WLBU
	100	WEDC	Lawrence K-16	500	KFKU
	50000	WENR		1000	WREN
	500	WGES	Manhattan K-15	500	KSAC
	25000	WGN	Milford K-14	5000	KFBI
	1000	WIBO	Topeka K-16	1000	WIBW
	25000	WJBT	Wichita L-15	1000	KFH
	50000	WLS	KENTUCKY		
	5000	WMAQ	Covington K-22	5000	WCKY
	5000	WMBI	Hopkinsville M-20	1000	WFTW
	500	WPCC	Louisville L-21	10000	WHAS
	100	WSBC		250	WLAP
	100	WEHS	Paducah M-19	100	WPAD
	100	WHFC	LOUISIANA		
	100	WKBI	Monroe P-18	100	KMLB
	100	WJBL	New Orleans R-19	100	WABZ
	100	WKBS		1000	WDSU
	100	WBEQ		100	WJBO
	100	WCLS		100	WJBW
	100	WKBB		500	WSMB
	100	WJBC		10000	WWL
	20000	WJJD	Shreveport P-17	50	KRMD
	500	WMBD		1000	KTBS
	500	WTAD		100	KWEA
	500	KFLV		10000	KWKH
	100	WHBF	MAINE		
	100	WCBS	Augusta F-28	100	WRDO
	100	WTAX	Bangor F-29	100	WABI
	100	WDZ		500	WLBZ
	250	WILL	Portland F-28	1000	WCSH
	5000	WCBF	Presque Isle D-29	100	WAGM
			MARYLAND		
			Baltimore J-26	10000	WBAL
				250	WCAO
				100	WCBM
				500	WFBR
			Cumberland J-25	100	WTBO
			MASSACHUSETTS		
			Boston G-28	500	WAAB
				1000	WBIS
				25000	WBZA
				1000	WEEL
				1000	WHDH
				100	WLOE
				1000	WNAC
			Fall River H-28	250	WSAR
			Lexington G-28	100	WLEY
			Needham G-28	500	WBSO
			New Bedford H-28	100	WNBH
			Springfield H-27	25000	WBZ
			Worcester G-28	100	WBPS
				100	WORC
				250	WTAG
			MICHIGAN		
			Battle Creek I-21	50	WELL
			Bay City H-22	500	WBCM
			Calumet E-19	100	WHDF
			Detroit H-22	50	WJBK
				5000	WJR
				100	WMBC

INDIANA		
	Watts	Keys.
Anderson J-21	100	WHBU
Connorsville K-21	100	WKBV
Culver I-20	500	WCMA
Elkhart I-21	50	WJAK
Evansville L-20	500	WGBF
Fort Wayne J-21	100	WGL
	10000	WOWO
Gary I-20	1000	WJKS
Hammond I-20	100	WWAE
Indianapolis J-21	1000	WFBM
	500	WKBF
Lafayette J-20	500	WBAA
Muncie J-21	50	WLBC
South Bend I-20	100	WFAM
	500	WSBT
Terre Haute K-20	100	WBOW

IOWA		
	Watts	Keys.
Ames I-17	5000	WOI
Boone I-17	100	KFGQ
Cedar Rapids I-18	100	KWCR
Clarinda J-16	500	KSO
Council Bluffs J-16	1000	KOIL
Davenport I-18	5000	WOC
Decorah H-18	50	KGCA
	100	KWLC
Des Moines I-17	5000	WHO
Fort Dodge I-16	100	KFJY
Iowa City I-18	500	WSUI
Marshalltown I-17	100	KFJB
Ottumwa J-17	100	WIAS
Red Oak J-16	100	KICK

INDEX BY LOCATIONS WITH MAP KEY

Detroit H-22	1000	WWJ	920
	1000	WXYZ	1240
East Lansing H-21	1000	WKAR	1040
Flint H-22	100	WFDF	1310
Grand Rapids H-21	500	WASH	1270
	500	WOOD	1270
Ironwood F-18	100	WJMS	1420
Jackson I-21	100	WIBM	1370
Kalamazoo I-21	1000	WKZO	590
Lapeer H-22	100	WMPC	1500
Ludington H-20	50	WKBZ	1500
Marquette F-19	100	WBEO	1310
Royal Oak H-22	50	WEXL	1310

MINNESOTA

Fergus Falls F-15	100	KGDE	1200
Minneapolis G-17	5000	WCCO	810
	1000	WDGY	1180
	1000	WRHM	1250
Moorhead F-15	50	KGFK	1500
Northfield G-17	1000	KFMX	1250
	1000	WCAL	1250
St. Paul G-17	1000	WLB	1250
	10000	KSTP	1460

MISSISSIPPI

Greenville O-18	100	WRBQ	1210
Gulfport Q-19	100	WGCM	1210
Hattiesburg Q-19	10	WRBJ	1370
Jackson P-19	1000	WJDX	1270
Laurel P-20	100	WTSL	1310
Meridian P-20	500	WCOC	880
Tupelo N-20	100	WDIX	1500
Vicksburg P-18	500	WQBC	1360

MISSOURI

Cp. Girardeau L-19	100	KFVS	1210
Columbia K-17	500	KFRU	630
Grant City J-16	100	KGIZ	1500
Jefferson City L-17	500	WOS	630
Joplin M-16	100	WMBH	1420
Kansas City K-16	1000	KMBC	950
	100	KWKC	1370
	1000	WDAF	610
	500	WHB	860
St. Joseph K-16	1000	WOQ	1300
	2500	KFEQ	680
	100	KGBX	1310
St. Louis L-18	500	KFUO	550
	100	KFWF	1200
	50000	KMOX	1090
	500	KSD	550
	1000	KWK	1350
	1000	WEW	760
	100	WIL	1200

MONTANA

Billings F-9	1000	KGHL	950
Butte F-7	500	KGIR	1360
Great Falls E-8	1000	KFBB	1280
Kalispell D-7	100	KGEZ	1310
Missoula E-7	100	KGVO	1420
Wolf Point E-11	100	KGXC	1310

NEBRASKA

Clay Center J-14	1000	KMMJ	740
Kearney J-14	100	KGFW	1310
Lincoln J-15	5000	KFAB	770
	100	KFOR	1210
	500	WCAJ	590
Norfolk I-15	1000	WJAG	1060
North Platte J-13	500	KGNF	1430
Omaha J-15	500	WAAW	660
	1000	WOW	590
Scottsbluff I-11	100	KGKY	1500
York J-15	500	KGBZ	930

NEVADA

Las Vegas L-5	100	Watts	Kcys.
Reno I-3	500	KGIX	1420
		KOH	1380

NEW HAMPSHIRE

Laconia G-28	100	WKAV	1310
Manchester G-28	500	WFEA	1430

NEW JERSEY

Asbury Park I-27	500	WCAP	1280
Atlantic City J-27	5000	WPG	1100
Camden I-26	500	WCAM	1280
Hackensack I-27	250	WBMS	1450
Jersey City I-27	300	WAAT	940
	500	WHOM	1450
	250	WKBO	1450
Newark I-27	1000	WAAM	1250
	250	WGCP	1250
	250	WNJ	1450
	5000	WOR	710
Paterson I-27	1000	WODA	1250
Red Bank I-27	100	WBJ	1210
Trenton I-26	500	WOAX	1280
Zarephath I-27	250	WAWZ	1350

NEW MEXICO

Albuquerque N-7	250	KGGM	1230
	20000	KOB	1180
Raton M-11	50	KGFL	1370

NEW YORK

Albany H-27	500	WOKO	1430
Auburn H-25	100	WMBO	1310
Binghamton H-26	100	WNBF	1500
Brooklyn I-27	500	WBBC	1400
	1000	WBRR	1300
	500	WCGU	1400
	500	WFOX	1400
	500	WLTH	1400
	100	WMBQ	1500
	100	WMIL	1500
Buffalo H-24	1000	WBEN	900
	100	WEBR	1310
	1000	WGR	550
	5000	WKBW	1480
	1000	WMAK	1040
	50	WSVS	1370
	500	WCAD	1220
Canton F-26	100	WGBB	1210
Freeport I-27	50	WBGF	1370
Glens Falls G-27	1000	WEAL	1270
Ithaca H-25	50	WLCI	1210
	100	WMRJ	1210
Jamaica H-27	50	WOCL	1210
Jamestown H-24	100	WLXB	1500
Long Island City I-27	50000	WABC	860
New York City I-27	250	WBNX	1350
	50000	WBOQ	860
	250	WCDA	1350
	50000	WEAF	660
	500	WEVD	1300
	500	WGBS	1180
	1000	WHAP	1300
	250	WHN	1010
	30000	WJZ	760
	5000	WLWL	1100
	500	WMCA	570
	250	WMSG	1350
	500	WNYC	570
	1000	WOV	1130
	250	WPAP	1010
	500	WPCH	810
	250	WQAO	1010
	250	WRNY	1010

INDEX BY LOCATIONS WITH MAP KEY

Patchogue I-27	100	WPOE	1370
Rochester G-25	5000	WHAM	1150
	500	WHEC	1430
Saranac Lake F-26	50	WNBZ	1290
Schenectady G-27	50000	WGY	790
Syracuse G-25	1000	WFBL	1360
	250	WMAC	570
	250	WSYR	570
Troy G-27	500	WHAZ	1300
Utica G-26	100	WIBX	1200
Woodside I-27	100	WWRL	1500
Yonkers I-27	100	WCOH	1210

NORTH CAROLINA

Asheville M-23	1000	WWNC	570
Charlotte M-24	5000	WBT	1080
Gastonia M-24	✓ 100	WSOC	1210
Greensboro M-24	✓ 500	WBG	1440
Raleigh M-25	1000	WPTF	680
Wilmington N-26	100	WRAM	1370
Winston-Salem M-24	100	WSJS	1310

NORTH DAKOTA

Bismarck F-13	1000	KFYR	550
Devils Lake E-14	100	KDLR	1210
Fargo F-15	✓ 1000	WDAY	940
Grand Forks E-15	✓ 100	KFIM	1370
Mandan F-13	100	KGCU	1240
Minot E-13	100	KLPM	1240

OHIO

Akron I-23	1000	WADC	1320
Canton I-23	10	WBHC	1200
Cincinnati K-22	100	WFBE	1200
	1000	WKRC	550
	50000	WLW	700
	1000	WSAI	1330
Cleveland I-23	500	WGAR	1450
	1000	WHK	1390
	500	WJAY	610
	50000	WTAM	1070
Columbus J-22	✓ 500	WAU	640
	500	WCAH	1430
	750	WEAO	570
	100	WSEN	1210
Dayton J-22	200	WSMK	1380
Mansfield J-22	100	WJW	1210
Mount Orab K-22	100	WHBD	1370
Toledo I-22	1000	WSPD	1340
Youngstown I-23	500	WKBN	570
Zanesville J-23	100	WALR	1210

OKLAHOMA

Chickasha N-14	250	KOCW	1400
Enid M-14	✓ 100	KCRC	1370
Norman N-15	✓ 500	WNAD	1010
Oklahoma N-15	5000	KFJF	1480
	100	KFXR	1310
	100	KFGF	1370
	1000	WKY	900
S. Coffeyville M-15	500	KGGF	1420
Shawnee N-15	100	KGFF	1420
Tulsa M-15	5000	KVOO	1140

OREGON

Astoria D-2	✓ 100	KFJI	1370
Corvallis E-2	1000	KOAC	550
Eugene F-2	100	KORE	1420
Marshfield F-1	✓ 100	KOOS	1370
Medford G-2	✓ 100	KMED	1310

Portland E-3	5000	KEX	1180
	100	KBPS	1420
	500	KFIR	1300
	1000	KCJW	620
	1000	KOJN	940
	500	KTBR	1300
	500	KWJJ	1060
	100	KXL	1420

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Elkins Park I-26	25	WIBG	930
Erie H-24	100	WEDH	1420
Grove City I-24	100	WSAJ	1310
Harrisburg I-25	500	WBAK	1430
	100	WCOD	1200
	500	WHP	1430
Johnstown J-24	100	WJAC	1310
Lancaster I-26	100	WGAL	1310
	100	WKJC	1200
Lewisburg I-26	100	WBU	1210
Oil City I-24	500	WLBW	1260
Philadelphia I-26	10000	WCAU	1170
	100	WELK	1370
	500	WFAN	610
	500	WFI	560
	✓ 100	WHAT	1310
	500	WIP	610
	500	WLIT	560
	100	WPEN	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA	980
	500	KQV	1380
	1000	WCAE	1220
	1000	WJAS	1290
	100	WWSW	1500
Reading I-26	1000	WEEU	830
	100	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
State College I-25	500	WPCB	1230
Washington J-24	100	WNBO	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	100	WRAK	1370
York J-26	1000	WGE0	1000

PHILIPPINES

Cebu	500	KZRC	937.5
Manila	1000	KZKA	1110
	50000	KZRM	618.5

PORTO RICO

San Juan W-34	250	WKAQ	890
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RHODE ISLAND

Newport H-28	100	WMBA	1500
Pawtucket H-28	100	WPAW	1210
Providence H-28	250	WEAN	780
	250	WJAR	890
	100	WPRO	1210

SOUTH CAROLINA

Charleston O-25	500	WCSC	1360
Columbia N-24	✓ 500	WIS	1010
Spartanburg N-23	✓ 100	WSPA	1420

INDEX BY LOCATIONS WITH MAP KEY

SOUTH DAKOTA			Watts	Kcys.	VIRGINIA			Watts	Keys
Brookings H-15	500	KFDY	550	500	Alexandria K-26	10000	WJSV	1460	
Huron H-14	100	KGDY	1200	1000	Arlington J-25	1000	NAA	690	
Mitchell H-14	100	KGDA	1370	100	Danville L-25	100	WBTM	1370	
Pierre G-13	200	KGFX	580	500	Ernory L-23	500	WEHC	1350	
Rapid City H-12	100	WCAT	1200	100	Lynchburg L-25	100	WLVA	1370	
Sioux Falls H-15	2500	KSCOT	1110	100	Newport News L-26	100	WGH	1310	
Vermillion I-15	500	KUSD	890	500	Norfolk L-26	500	WPOR	780	
Watertown G-15	100	KGCR	1210	500	Petersburg L-26	100	WTAR	780	
Yankton I-15	1000	WNAX	570	100	Richmond K-26	100	WLBG	1200	
				100		100	WBBL	1210	
				100		100	WMBG	1210	
TENNESSEE				5000	Roanoke L-24	250	WRVA	1110	
Bristol L-23	100	WOPI	1500	250		250	WDBJ	930	
Chattanooga N-21	1000	WDOD	1280				WRBX	1410	
Jackson N-20	100	WTJS	1310	WASHINGTON					
Knoxville M-22	50	WFBC	1200	Aberdeen D-2	100	KXRO	1310		
	1000	WNOX	560	Bellingham C-3	100	KVOS	1200		
Memphis N-19	500	WGBC	1430	Everett C-3	50	KFBL	1370		
	100	WHBQ	1370	Lacey D-3	10	KGY	1200		
	500	WMC	780	Pullman E-5	1000	KWSC	1220		
	500	WNBR	1430	Seattle C-3	5000	KJR	970		
	500	WREC	600		1000	KOL	1270		
Nashville M-21	5000	WLAC	1470		1000	KOMO	920		
	5000	WSM	650		100	KPCB	650		
Springfield M-20	100	WSIX	1210		50	KRSC	1120		
					1000	KTW	1220		
TEXAS				100	KVL	1370			
Abilene P-13	100	KFYO	1420	500	KXA	570			
Amarillo N-12	1000	KGRS	1420	100	KFO	1120			
	1000	WDAG	1410	1000	KFPY	1340			
Austin Q-14	100	KUT	1500	5000	KGA	1470			
Beaumont R-17	500	KPDM	560	1000	KHQ	590			
Brownsville U-15	500	KWWG	1260	500	KMO	860			
College Sta. Q-15	500	WTAW	1120	1000	KVI	760			
Corpus Christi S-14	100	KGFI	1500	100	KWJ	1370			
Dallas P-15	10000	KRLD	1040	50	KPQ	1500			
	50000	WFAA	800	100	KIT	1310			
	500	WRR	1280	WEST VIRGINIA					
Dublin P-14	100	KFPL	1310	Bluefield L-24	250	WHIS	1410		
El Paso P-9	100	KTSM	1310	Charleston K-23	250	WOBU	580		
	100	WDAH	1310	Fairmont J-24	250	WMMN	890		
Fort Worth P-15	100	KFJZ	1370	Huntington K-23	250	WSAZ	580		
	1000	KTAT	1240	Wheeling J-24	5000	WVVA	1160		
	10000	WBAP	800	WISCONSIN					
Galveston R-16	100	KFLX	1370	Eau Claire G-18	1000	WTAQ	1330		
	500	KFUL	1290	Ellis'G-19	2000	WLBL	900		
	15	KFPM	1310	Fond du Lac H-19	100	KFIZ	1420		
Greenville O-15	500	KRGV	1260	Green Bay G-19	100	WHBY	1200		
Harlingen T-14	500	KPRC	920	Janesville I-19	100	WCLO	1200		
Houston R-16	1000	KTRH	1120	La Crosse H-18	1000	WKBH	1380		
	100	KTYZ	1420	Madison H-19	750	WHA	940		
	100	KGKL	1370	Manitowoc H-20	500	WIBA	1280		
San Angelo Q-13	100	KABC	1420	Milwaukee H-19	100	WOMT	1210		
San Antonio R-14	100	KMAC	1370		250	WHAD	1120		
	100	KONO	1370		250	WISN	1120		
	1000	KTSA	1290		1000	WTMJ	620		
	50000	WOAI	1190	Poynette H-19	100	WIBU	1210		
Tyler P-16	100	KGKB	1500	Racine I-20	100	WRJN	1370		
Waco Q-15	1000	WACO	1240	Sheboygan H-20	500	WHBL	1410		
Wichita Falls O-14	250	KGKO	570	Superior F-17	1000	WEBC	1290		
UTAH				WYOMING					
Ogden I-7	500	KLO	1400	Casper H-10	100	KDFN	1210		
Salt Lake City I-7	1000	KDYL	1290	CANADA					
	5000	KSL	1130	ALBERTA					
VERMONT						500	CFAC	690	
Burlington F-27	100	WCAX	1200	Calgary B-7	10000	CFCN	985		
Rutland G-27	100	WSYB	1500		500	CJ CJ	690		
St. Albans F-27	100	WQDM	1370						
Springfield G-27	10	WNBX	1200						
Waterbury F-27	50	WDEV	1420						

INDEX BY LOCATIONS WITH MAP KEY

Edmonton A-8	250	CHMA	580	QUEBEC			
	500	CJCA	930	Montreal E-26	500	CFCF	1030
	500	CKUA	580		5000	CHYC	730
Lethbridge C-8	100	CJOC	1120		5000	CKAC	730
Red Deer A-8	1000	CKLC	840		5000	CNRM	730
	1000	CNRD	840	Quebec D-27	100	CHRC	645
BRITISH COLUMBIA					100	CKCI	645
Chilliwack B-3	100	CHWK	665		50	CKCV	880
Kamloops B-5	100	CFJC	1120		50	CNRQ	880
Kelowna C-5	100	CKOV	1200	SASKATCHEWAN			
Vancouver B-3	50	CHLS	730	Fleming C-13	500	CJRW	665
	500	CJOR	1155	Moose Jaw C-11	500	CJRM	665
	50	CKCD	730		25	10-AB	1200
	50	CKFC	730	Regina C-12	500	CHWC	960
	100	CKMO	730		500	CJBR	960
	100	CKWX	730		500	CKCK	960
	500	CNRV	1030	Saskatoon B-11	500	CNRR	960
Victoria C-3	50	CFCT	630		500	CFQC	910
				Yorkton B-13	500	CNRS	910
MANITOBA					500	CJGX	630
Brandon D-14	500	CKX	540	CENTRAL AMERICA			
Winnipeg D-15	5000	CKY	780	COSTA RICA			
	5000	CNRW	780	Heredia FF-23	75	T14NRH	948
				San Jose FF-23	50	TIC	900
NEW BRUNSWICK				GUATAMALA			
Fredericton D-29	100	CFNB	1210	Guatemala CC-19	50	TGW	570
Moncton D-30	500	CNRA	630	HONDURAS			
St. John D-30	500	CFBO	890	Tegucigalpa CC-21	2300	HRB	1370
NEWFOUNDLAND				SALVADOR			
St. Johns A-35	500	VOWR	675	Salvador CC-19	500	RUS	664
NOVA SCOTIA				MEXICO			
Glace Bay C-32	10000	VAS	685	AGUASCALIENTES			
Halifax E-31	500	CHNS	910	Aguascalientes W-10	350	XFC	805
	500	CNRH	910	BAJA CALIFORNIA			
Sydney C-32	50	CJCB	880	Tiajuana N-3	30	XEFD	1020
Wolfville D-31	50	CKIC	1010	CHIHUAHUA			
ONTARIO				Chihuahua R-9	100	XEFI	1000
Chatham H-22	100	CFCO	1210		250	XEF	875
Cobalt E-23	100	CKMC	1210	Juarez P-9	101	XEJ	1000
Hamilton H-24	500	CHCS	630		5000	XEQ	750
	50	CHML	880	COAHUILA			
	1000	CKOC	635	Saltillo, Coah. U-12	10	XEL	1000
Kingston G-25	50	CFRC	930	Torreon U-11	125	XETB	1380
London H-23	5000	CJGC	910		100	XETG	1000
	5000	CNRL	910	Villa Acuna R-12	75000	XER	735
North Bay E-23	100	CFCH	930	D. F.			
Ottawa F-25	100	CKGO	890	Coyoacan Y-13	100	XETZ	1500
	500	CNRO	600	Mexico City Y-13	1000	XEB	1030
Port Arthur E-19	50	CKPR	890		250	XEFA	1250
Prescott F-25	50	CFLC	915		100	XEG	1360
Preston H-23	50	CKPC	880		101	XEK	990
St. Catharines H-24	1000	CKTB	635		1000	XEN	711
Toronto G-24	500	CFCA	1120		5000	XEO	940
	500	CFCL	960		500	XETA	1140
	5000	CFRB	690		100	XETQ	1230
	500	CKCL	580		5000	XEW	910
	5000	CKGW	840		500	XEX	1210
	500	CKNC	960		500	XEZ	780
	500	CNRT	1120		2000	XFG	638
	5000	CNRX	690		1000	XFI	818
	5000	CPRY	840		500	XFX	860
Waterloo G-23	50	CKCR	645	Toluca. Y-12	50	XEC	1000
Wingham G-23	15	10-BP	1200				
PRINCE EDWARD ISLAND							
Charlottetown C-31	500	CFCY	580				
	100	CHCK	960				
Summerside C-31	100	CHGS	1120				

CFAC 690	CKAC 730	CMBZ 1010	CNRD 840
Calgary, Alta.	Montreal, Que.	Havana, Cuba	Red Deer, Alta.
CFBO 890	CKCD 730	CMC 842	CNRH 910
St. John, N. E.	Vancouver, B. C.	Havana, Cuba	Halifax, N. S.
CFCA 1120	CKCI 645	CMCA 1225	CNRL 910
Toronto, Ont.	Quebec, Que.	Havana, Cuba	London, Ont.
CFCF 1030	CKCK 960	CMCB 1070	CNRM 730
Montreal, Que.	Regina, Sask.	Havana, Cuba	Montreal, Que.
CFCH 930	CKCL 580	CMCD 925	CNRO 600
North Bay, Ont.	Toronto, Ont.	Havana, Cuba	Ottawa, Ont.
CFCL 960	CKCO 890	CMCF 890	CNRQ 880
Toronto, Ont.	Ottawa, Ont.	Havana, Cuba	Quebec, Que.
CFCN 985	CKCR 645	CMCG 1345	CNRR 960
Calgary, Alta.	Waterloo, Ont.	Havana, Cuba	Regina, Sask.
CFCO 1210	CKCV 880	CMCH 1405	CNRS 910
Chatham, Ont.	Quebec, Que.	Havana, Cuba	Saskatoon, Sask.
CFCT 630	CKFC 730	CMCJ 620	CNRT 1120
Victoria, B. C.	Vancouver, B. C.	Havana, Cuba	Toronto, Ont.
CFCY 580	CKGW 840	CMCM 1405	CNRV 1030
Ch'lottet'n, P.E.I.	Toronto, Ont.	Havana, Cuba	Vancouver, B. C.
CFJC 1120	CKIC 1010	CMCN 925	CNRW 780
Kamloops, B. C.	Wolfville, N. S.	Havana, Cuba	Winnipeg, Man.
CFLC 915	CKKL 840	CMCO 660	CNRX 690
Prescott, Ont.	Red Deer, Alta.	Havana, Cuba	Toronto, Ont.
CFNB 1210	CKKM 1210	CMCQ 1150	CPRY 840
Fredericton, N.B.	Cobalt, Int.	Havana, Cuba	Toronto, Ont.
CFQC 910	CKMO 730	CMCR 1345	HHK 920
Saskatoon, Sask.	Vancouver, B. C.	Havana, Cuba	Port au Prince, H.
CFRB 690	CKNC 960	CMCU 1285	HIX 669
Toronto, Ont.	Toronto, Ont.	Havana, Cuba	Santo Domingo
CFRC 930	CKOC 635	CMCW 1285	HRB 1370
Kingston, Ont.	Hamilton, Ont.	Havana, Cuba	Tequeigalpa
CHCK 960	CKOV 1200	CMCY 1345	KABC 1420
Ch'lottet'n, P.E.I.	Kelowna, B. C.	Havana, Cuba	San Antonio, Tex.
CHCS 630	CKPC 880	CMDC 660	KARK 890
Hamilton, Ont.	Preston, Ont.	Havana, Cuba	Lit. Rock, Ark.
CHGS 1120	CKPR 890	CMGA 834	KBPS 1420
Sum'r side, P.E.I.	Port Arthur, Ont.	Colon, Cuba	Portland, Ore.
CHLS 730	CKTE 635	CMGB 1205	KBTM 1200
Vancouver, B. C.	St. Cath., Ont.	Matanzas, Cuba	Paragould, Ark.
CHMA 580	CKUA 580	CMGE 1375	KCRC 1370
Edmonton, Alta.	Edmonton, Alta.	Cardenas, Cuba	Enid, Okla.
CHML 880	CKWX 730	CMGF 977	KCRJ 1310
Hamilton, Ont.	Vancouver, B. C.	Matanzas, Cuba	Jerome, Ariz.
CHNS 910	CKX 540	CMGH 1370	KDB 1500
Halifax, N. S.	Brandon, Man.	Matanzas, Cuba	S. Barbara, Cal.
CHRC 645	CKY 780	CMHC 790	KDFN 1210
Quebec, Que.	Winnipeg, Man	Tuinueu, Cuba	Casper, Wyo.
CHWC 960	CMAB 1249	CMHD 950	KDKA 980
Regina, Sask.	Pinar del Rio, Cu	Caibarien, Cuba	Pittsburgh, Pa.
CHWK 665	CMAC 1375	CMHI 1110	KDLR 1210
Chilliwack, B. C.	Pinar del Rio, Cu	Santa Clara, Cu	Devils Lake, N.D.
CHYC 730	CMBC 965	CMHJ 645	KDYL 1290
Montreal, Que.	Havana, Cuba	Cienfuegos, Cuba	Salt Lake City
CJBR 960	CMBD 965	CMJC 1382	KECA 1430
Regina, Sask.	Havana, Cuba	Camaguey, Cuba	Los Angeles, Cal.
CJCA 930	CMBG 1070	CMJE 856	KELW 780
Edmonton, Alta.	Camaguey, Cuba	Camaguey, Cuba	Burbank, Cal.
CJCB 880	CMBI 1405	CMJF 930	KEX 1180
Sydney, N. S.	Havana, Cuba	Camaguey, Cuba	Portland, Ore.
CJCY 690	CMBL 1500	CMJG 1290	KFAB 770
Calgary, Alta.	Havana, Cuba	Camaguey, Cuba	Lincoln, Nebr.
CJGC 910	CMBN 1405	CMJH 1017	KFAC 1300
London, Ont.	Havana, Cuba	Ciego de Avila, C.	Los Angeles, Cal.
CJGX 630	CMBQ 1500	CMK 730	KFBB 1280
Yorkton, Sask.	Havana, Cuba	Havana, Cuba	Great Fls., Mont.
CJOC 1120	CMBR 1500	CMKC 1034	KFBI 1050
Lethbridge, Alta.	Havana, Cuba	Santiago, Cuba	Milford, Kans.
CJOR 1155	CMBR 1500	CMQ 1150	KFBK 1310
Vancouver, B. C.	Havana, Cuba	Havana, Cuba	Sacramento, Cal.
CJRM 665	CMBT 970	CMW 588	KFLB 1370
Moose Jaw, Sask.	Havana, Cuba	Havana, Cuba	Everett, Wash.
CJRW 665	CMBW 1010	CMX 885	KFDM 560
Fleming, Sask.	Havana, Cuba	Havana, Cuba	Beaumont, Tex.
	CMBY 1225	CNRA 630	KFDY 550
	Havana, Cuba	Moncton, N. B.	Brookings, S. D.

KFEL 920	KFWB 950	KGGF 1010	KMA 930
Denver, Colo.	Hollywood, Cal.	Coffeyville, Okla.	Shenandoah, Ia.
KFEQ 680	KFWF 1200	KGGM 1230	KMAC 1370
St. Joseph, Mo.	St. Louis, Mo.	Albuq'rque, N.M.	San Antonio, Tex.
KFGQ 1310	KFWI 930	KGHF 1320	KMBC 950
Boone, Iowa	San F'n'cisco, Cal.	Pueblo, Colo.	Kan. City, Mo.
KFH 1300	KFXD 1420	KGHI 1200	KMCS 1120
Wichita, Kansas	Nampa, Idaho	Little Rock, Ark.	Inglewood, Cal.
KFI 640	KFXF 920	KGHL 950	KMED 1310
Los Angeles, Cal.	Denver, Colo.	Billings, Mont.	Medford, Ore.
KFIO 1120	KFXJ 1310	KGIR 1360	KMJJ 1210
Spokane, Wash.	Grand Junc.,Cal.	Butte, Mont.	Fresno, Cal.
KFIZ 1420	KFXM 1210	KGIW 1420	KMLB 1200
Fond du Lac,Wis.	San Ber'd no,Cal.	Trinidad, Colo.	Monroe, La.
KFJB 1200	KFXR 1310	KGIX 1420	KMMJ 740
Marshalltown, Ia.	Oklahoma City	Las Vegas, Nev.	Clay Ctr., Nebr.
KFJF 1480	KFXY 1420	KGLZ 1500	KMO 860
Oklahoma City	Flagstaff, Ariz.	Grant City, Mo	Tacoma, Wash.
KFJI 1370	KFYO 1420	KGKB 1500	KMOX 1090
Astoria, Ore.	Ablene, Texas	Tyler, Texas	St. Louis, Mo.
KFJM 1370	KFYR 550	KGKL 1370	KMPC 710
Grd. Forks, N.D.	Bismarck, N. D.	San Angelo, Tex.	Beverly Hills, Cal
KFJR 1300	KGA 1470	KGKO 570	KMTR 570
Portland, Ore.	Spokane, Wash.	Wichita F'ls.,Tex.	Hollywood, Cal.
KFJY 1310	KGAR 1370	KGKX 1420	KNX 1050
Fort Dodge Ia.	Tucson, Arizona	Sand Point, Idaho	Hollywood, Cal.
KFJZ 1370	KGB 1330	KGKY 1500	KOA 830
Ft. Worth, Tex.	San Diego, Cal.	Scottsbluff, Nebr.	Denver, Colo.
KKFA 880	KGBU 900	KGMB 1320	KOAC 550
Greeley, Colo.	Ketchikan, Al'ka	Honolulu, T. H.	Corvallis, Ore.
KFKU 1220	KGBX 1310	KGNF 1430	KOB 1180
Lawrence, Kans.	St. Joseph, Mo.	No. Platte, Nebr.	Albuqer., N. M.
KFKX 1020	KGBZ 930	KGNO 1210	KOCW 1400
Chicago, Ill.	York, Nebr.	Dodge City, Kas.	Chickasha, Okla.
KFLV 1410	KGCA 1270	KGO 790	KOH 1380
Rockford, Ill.	Decorah, Iowa	San F'n'cisco, Cal.	Reno, Nevada
KFLX 1370	KGCR 1210	KGRS 1410	KOIL 1260
Galveston, Tex.	Watertown, S. D.	Amarillo, Texas	Council Bluffs,Ia.
KFMX 1250	KGCU 1240	KGU 940	KOIN 940
N'thfield, Minn.	Mandan, N. D.	Honolulu, Hawaii	Portland, Ore.
KFNF 890	KGCV 1310	KGVO 1420	KOL 1270
Shenandoah, Ia.	Wolf P't, Mont.	Missoula, Mont.	Seattle, Wash.
KFOR 1210	KGDA 1370	KGW 620	KOMO 920
Lincoln, Nebr.	Mitchell, S. D.	Portland, Ore.	Seattle, Wash.
KFOX 1250	KGDE 1200	KGY 1200	KONO 1370
Long Beach, Cal.	Fergus Falls, Minn	Lacey, Wash.	San Antonio, Tex.
KFPL 1310	KGDM 1100	KHJ 900	KOOS 1370
Dublin, Texas	Stockton, Cal.	Los Angeles, Cal.	Marshfield, Ore.
KFPM 1310	KGDY 1200	KHQ 590	KORE 1420
Greenville, Texas	Huron, S. D.	Spokane, Wash.	Eugene, Ore.
KFPW 1340	KGEE 1200	KICK 1420	KOY 1390
Ft. Smith, Ark.	Yuma, Colo.	Red Oak, Iowa	Phoenix, Arizona
KFPY 1340	KGER 1360	KID 1320	KPCB 650
Spokane, Wash.	Long Beach, Cal.	Idaho Falls, 'da.	Seattle, Wash.
KFQD 1230	KGEW 1 00	KIDO 1350	KPJM 1500
Anchorage, Alas.	Ft.Morgan, Colo	Boise, Idaho	Prescott, Ariz.
KFQU 1420	KGEZ 1310	KIT 1310	KPO 680
Holy City, Cal.	Kalispell, Mont.	Yakima, Wash.	San F'n'cisco, Cal.
KFRC 610	KGGF 1420	KJBS 1070	KPOF 880
San F'n'cisco, Cal.	Shawnee, Okla.	San F'n'cisco, Cal.	Denver, Colo.
KFRU 630	KGFG 1370	KJR 970	KPPC 1210
Columbia, Mo.	Oklahoma City	Seattle, Wash.	Pasadena, Cal.
KFSD 600	KGFI 1500	KLCN 1290	KPQ 1500
San Diego, Cal.	Corp's Ch'sti, Tex	Blytheville, Ark.	Wenatchee, Wash
KFSG 1120	KGfJ 1200	KLO 1400	KPRC 920
Los Angeles, Cal.	Los Angeles, Cal.	Ogden, Utah	Houston, Texas
KFUL 1290	KGFK 1500	KLPM 1240	KQV 1380
Galveston, Texas	Moorhead, Minn.,	Minot, N. Dak.	Pittsburgh, Pa.
KFUO 550	KGFL 1370	KLRA 1390	KQW 1010
St. Louis, Mo.	Raton, N. M.	Little Rock, Ark.	San Jose, Cal.
KFUP 1310	KGFW 1310	KLS 1440	KRE 1370
Denver, Colo.	Kearney, Nebr.	Oakland, Cal.	Berkeley, Cal.
KFVD 1000	KGFX 580	KLX 880	KREG 1500
Culver City, Cal.	Pierre, S. D.	Oakland, Cal.	Santa Ana, Cal.
KFVS 1210	KGGC 1420	KLZ 560	KRGV 1260
Cape Gir'rd'u, Mo	San F'n'cisco, Cal.	Denver, Colo.	Harlingen, Texas

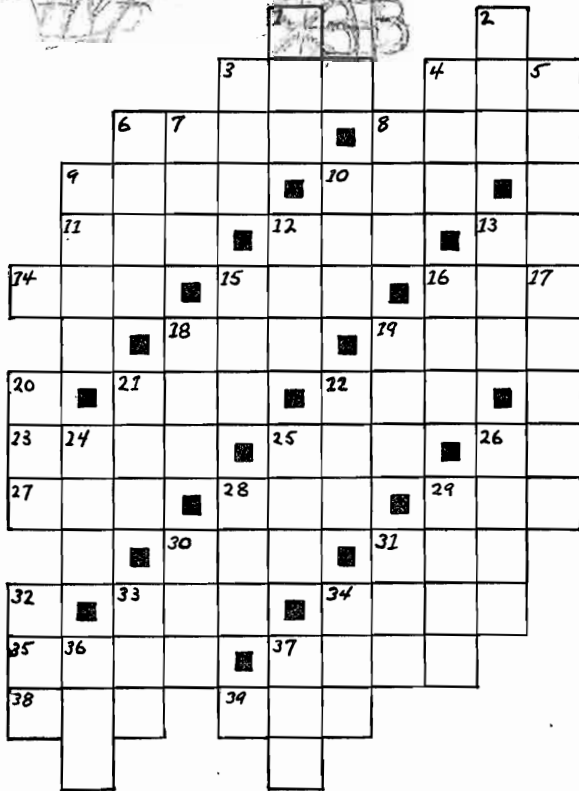
KRLD 1040	KWG 1200	WASH 1270	WCAP 1280
Dallas, Texas	Stockton, Cal.	Gr. Rapids, Mich.	Asbury Pk., N. J.
KRMD 1310	KWJJ 1060	WA WZ 1350	WCAT 1200
Shreveport, La.	Portland, Ore.	Zarephath, N. J.	Rapid City, S. D.
KROW 930	KWK 1350	WBAA 1400	WCAU 1170
Oakland, Cal.	St. Louis, Mo.	Lafayette, Ind.	Philadelphia, Pa.
KRSC 1120	KWKC 1370	WBAK 1430	WCAX 1200
Seattle, Wash.	Kanساس City, Mo.	Harrisburg, Pa.	Burlington, Vt.
KSAC 580	KWKH 850	WBAL 760-1060	WCAZ 1070
Manh't'n, Kans.	Shreveport, La.	Baltimore, Md.	Carthage, Ill.
KSCJ 1330	KWLC 1270	WBAP 800	WCBA 1440
Sloux City, Ia.	Decorah, Iowa	Fort Worth, Tex.	Allentown, Pa.
KSD 550	KWSC 1220	WBAX 1210	WCBD 1080
St. Louis, Mo.	Pullman, Wash.	Wilkes-Barre, Pa.	Zion, Ill.
KSEI 900	KWWG 1260	WBBC 1400	WCBM 1370
Pocatello, Idaho	Brownsville, Tex.	Brooklyn, N. Y.	Baltimore, Md.
KSL 1130	KXA 570	WBBL 1210	WCBS 1210
Salt Lake City	Seattle, Wash.	Richmond, Va.	WCCO 810
KSMR 1200	KXL 1420	WBBM 770	Springfield, Ill.
Bakersfield, Cal.	Portland, Ore.	Chicago, Ill.	WCCO 810
KSO 1380	KXO 1500	WBRR 1300	Minneapolis, Minn.
Clarinda, Iowa	El Centro, Cal.	Brooklyn, N. Y.	WCDA 1350
KSOO 1110	KXRO 1310	WBZZ 1200	New York City
Sloux Falls, S. D.	Aberdeen, Wash.	Ark. City, Kan.	WCFL 970
KSTP 1460	KXYZ 1420	WBGM 1410	Chicago, Ill.
St. Paul, Minn.	Houston, Texas	Bay City, Mich.	WCGU 1400
KTAB 560	KYA 1230	WBEN 900	Brooklyn, N. Y.
San Francisco, Cal.	San Francisco, Cal.	Buffalo, N. Y.	WCHI 1490
KTAR 620	KYW 1020	WBEO 1310	Chicago, Ill.
Phoenix, Ariz.	Chicago, Ill.	Marquette, Mich.	WCKY 1490
KTAT 1240	KZRC 937.5	WBGF 1370	Covington, Ky.
Ft. Worth, Tex.	Cebu, P. I.	Glens Falls, N. Y.	WCLO 1200
KTBR 1300	KZRM 618.5	WBHS 1200	Janesville, Wis.
Portland, Ore.	Manila, P. I.	Huntsville, Ala.	WCLS 1310
KTBS 1450	NAA 690	WBIG 1440	Joliet, Ill.
Shreveport, La.	Arlington, Va.	Greensboro, N.C.	WCVL 1400
KTFI 1320	RUS 664	WBIS 1230	Culver, Ind.
Twin Falls, Ida.	Salvador	Boston, Mass.	WCOA 1340
KTHS 1040	TGW 570	WBMS 1450	Pensacola, Fla.
Hot Spgs., Ark.	Guatemala	Hackensack, N.J.	WCOC 880
KTLC 1310	TIC 900	WBNX 1350	Meridian, Miss.
Houston, Texas	San Jose, C. R.	New York City	WCOD 1200
KTM 780	TI4NRH 948	WBOQ 860	Harrisburg, Pa.
Los Angeles, Cal.	Heredia, C. R.	New York City	WCOH 1210
KTBR 1120	VAS 585	WBOW 1310	Yonkers, N. Y.
Houston, Texas	Glace Bay, N. S.	Terre Haute, Ind.	WCRW 1210
KTSA 1290	VOWR 675	WBRC 930	Chicago, Ill.
San Antonio, Tex.	St. Johns, N. F.	Birmingham, Ala.	WCSC 1360
KTSM 1310	WAAB 1410	WBRE 1310	Charleston, S. C.
El Paso, Texas	Boston, Mass.	Wilkes-Barre, Pa.	WCSH 940
KTW 1220	WAAF 920	WBSO 920	Portland, Maine
Seattle, Wash.	Chicago, Ill.	Needham, Mass.	WDAE 1220
KUJ 1370	WAAM 1250	WBT 1080	Tampa, Fla.
Walla Wal., Wash.	Newark, N. J.	Charlotte, N. C.	WDAF 610
KUOA 1390	WAAT 940	WBTM 1370	Kansas City, Mo.
Fayetteville, Ark.	Jersey City, N. J.	Danville, Va.	WDAG 1410
KUSD 890	WAAW 660	WBZ 990	Amarillo, Texas
Vermillion, S. D.	Omaha, Nebr.	Springfield, Mass.	WDAH 1310
KUT 1500	WABC 860	WBZA 990	El Paso, Texas
Austin, Texas	New York City	Boston, Mass.	WDAY 940
KVI 760	WABI 1200	WCAC 600	Fargo, N. D.
Tacoma, Wash.	Bangor, Maine	Storrs, Conn.	WDBJ 930
KVL 1370	WABZ 1200	WCAD 1220	Roanoke, Va.
Seattle, Wash.	New Orleans, La.	Canton, N. Y.	WDBO 1120
KVOA 1260	WACO 1240	WCAE 1220	Orlando, Fla.
Tucson, Arizona	Waco, Texas	Pittsburgh, Pa.	WDEL 1120
KVOO 1140	WADC 1320	WCAH 1430	Wilmington, Del.
Tulsa, Okla.	Akron, Ohio	Columbus, Ohio	WDEW 1420
KVOR 1270	WAGM 1420	WCAJ 590	Waterbury, Vt.
Col. Sp'gs, Colo.	Presque Isle, Me.	Lincoln, Nebr.	WDGY 1180
KVOS 1200	WAIU 640	WCAL 1250	Minneapolis, Minn.
Bellingh'm, Wash.	Columbus, Ohio	Northfield, Minn.	WDIX 1500
KWCR 1310	WALR 1210	WCAM 1280	Tupelo, Miss.
Cedar Rapids, Ia.	Zanesville, Ohio	Camden, N. J.	WDOD 1280
KWEA 1210	WAPI 1140	WCAO 600	Chattanooga, Tenn.
Shreveport, La.	Birmingham, Ala.	Baltimore, Md.	WDRC 1330
			Hartford, Conn.

Horizontal

- 3 12,500 watts.
- 4 In Portland.
- 6 Shares time with only 50-watter in the state.
- 8 On 1200.
- 9 Top of the dial.
- 10 In the "Great Divide."
- 11 In Uppsala.
- 12 In Ft. Wayne.
- 14 101 watts.
- 15 "Woodmen of the World."
- 16 In Lima.
- 18 1000 watts Mex.
- 19 Shares time with Purdue.
- 21 50 K. W.
- 22 Gimbel's.
- 23 150 watts Cuban.
- 25 Three in this state.
- 27 City-owned CBS outlet.
- 28 500 watts Western.
- 29 Formerly a key station.
- 30 An Agricultural Foundation.
- 31 Spokane.
- 33 1000 watts metropolitan.
- 34 100 watts Pennsylvanian.
- 35 L. B. Wilson, Inc.
- 37 Last three letters are first three of state.
- 38 St. Martin's College.
- 39 30,000 watts.

Vertical

- 1 Synchronized.
- 2 A Mexican among three Canadians.
- 3 In the West.
- 4 CBS outlet sharing time with K. C. station.
- 5 Nine Canadians on this wave.
- 6 Red Oak Radio Corp.
- 7 Charlotte.
- 8 Washington.
- 9 Ohio.
- 10 The Oregonian.
- 12 State College of Agriculture.
- 13 In Canton.
- 15 On same wave as 9 horizon.
- 16 In Czecho-Slovakia.
- 17 500 watter across Rio Grande.
- 18 350 watts.
- 19 On 1200.
- 20 In Ormskoeldsvik.
- 21 In Washington.
- 22 National Life & Accident.
- 24 In Toulouse.
- 25 First Presbyterian Church.
- 26 In Tokyo.
- 28 Shares time with 200-watter.
- 29 In Pennsylvania.
- 30 Nielson Radio & Sporting Goods.
- 31 First in California.
- 32 On the banks of the Mississippi.
- 33 In Oklahoma.
- 34 James L. Bush.
- 36 Last three letters of U. S. Broadcasting Corp.
- 37 A channel to itself.



our pioneer DXers and compiled the following article for your consideration:

- WHT (Wm. Hale Thompson) was a Chicago station.
- WJAX was in Cleveland, Ohio, instead of Jacksonville, Fla.
- WOO was located in Philadelphia.
- WSOE was a School of Engineering in Milwaukee.
- WAAE was in Oak Park, Ill.
- WMBB was in Chicago as well as WBBM.
- WCEE was in Elgin, Ill.
- WREO (Reo Motor Co.) was in Lansing.
- PWX was the call for CMC.
- KFKX was in Hastings, Nebr., not Chicago.
- KFON was a popular station in Long Beach, Calif.

- KOP was the Detroit police station.
- WAIT in Massachusetts.
- WGO and WQJ were in Chicago.
- WRM was not WILL then.
- WTAP was in Cambridge, Ill., instead of Texas.
- WTAD was in Carthage, Ill., not Quincy.
- WWI was Ford Motor at Dearborn.
- KDPM was Westinghouse in Cleveland.
- WCX was what WJR is now.
- AA3 was the present KFUP.
- CY was the Mexican call instead of X.
- WAAB was in New Orleans, not Boston.
- WCEE was on a farm near Elgin, Ill.
- WEAR was Goodyear Rubber in Cleveland.
- 2AB, 2CX, 5EV, etc., were the Cubans.

Turning Back the Pages of Time or When Radio Was an Infant

While in a reminiscent mood, Ray E. Everly, 102 West Washington St., Newton, Ill., got out an old 1925 copy of RADEX. "I found some things that will recall the good old days gone by for

"Hello, Everybody; this is KATE SMITH"

An Interview by
SUSIE SEXTON

WHEN the swinging doors of the broadcasting room in the New York studios of the Columbia System banged behind her with a boom on Monday night, at the end of the La Palina program, broadcast over a network of twenty-eight stations, Kate Smith—two hundred and twenty-seven pounds of blonde good nature wearing spectacles—stepped out into a group of admiring song-writers with wistful eyes.

No, they were not those smart Oxfords. Just silver-rimmed "specs" such as any self-respecting grandmother might wear over her ears. Kate wears them as a disguise continually now, except when she is on the stage in the theatre or in her own home. She just grew tired of having men and women stare into her blue eyes wherever she went. People are rude that way.

This great big girl of radio can claim all the best Swanee traditions save one. That's langour. There is nothing tropical about her happy-go-lucky gestures. She moves and acts with the rush and crispness of a northern gale. Or an airplane propeller at top speed.

Out in the open spaces of the corridor she waltzed, two-stepped, tangoed and dipped until the elevator arrived. No handsprings. Always humming a Southern melody. Without a song Kate Smith could not breathe.

A short ride to her apartment on Park Avenue, a penthouse. Kate tapped, shuffled, clogged and hummed her way across the lobby and was whirled to the roof. Her song preceded her evidently.

"Hello, Baby," shouted Al, a South American baritone, as soon as her key turned in the lock.

"Come on in, Big Girl," trilled Ben, a tenor from Panama. The tenor and the baritone are the singing parrots of the Smith family. Not sacred, but never profane. Their owner, who does not smoke nor drink, will not tolerate profanity either. Occasionally Al comes

out with "Oh, God," and is promptly silenced.

A life-sized St. Bernard—done in wool—crouched under the grand piano in a protective manner that would have given any two-gun man a chill. Under the radio curled a fluffy cat. Mickey Mouse in scarlet breeches wagged his rubber tail in the corner. Kate loves animals as well as she loves people. But she has to be content with reproductions on a New York roof.

French doors opened on a terrace banked with evergreens. A rhythmic but unusual chirp broke the October stillness.

"Crickets," shouted Kate. "Climbed fourteen floors to get here."

The radio was going full blast.

"Never shut it off day or night," laughed Kate in her hearty contralto. She turned the dial to fortissimo, or more so.

A red moon hung over the one hundred and fourth story of the Empire State tower, down yonder.

"Where did you get the idea for your theme song, 'When the Moon Comes Over the Mountain?' I asked.

The Birth of a Song

"From watching my own Virginia moon rising hundreds of times as a young girl," she said. "Riding through the country during the Spring or Autumn I always waited for the rising of the moon over those mountains. It is one of the loveliest sights in the world. Every time I saw it I felt like singing. So the words came naturally when I sat down to write the lyric with Howard Johnson. You know I was born in Virginia—a little town called Greenville. The family moved to Washington when I was six months old. But I always went back and forth. Still do."

Incidentally, "When the Moon Comes Over the Mountain" has attained almost as great popularity as the writer. Three quarters of a million copies have been sold in sheet music and 200,000 phonograph records. About 90,000 copies of her other hit, "Making Faces at the Man in the Moon," have been sold.

Then Kate told me how she came to

XEFI 1000 Chihuahua, Mex.	XEN 711 Mexico City	XETC 1000 Jalapa, Mex.	KEY 1000 Merida, Mexico
XEFS 1000 Queretaro, Mex.	XEO 940 Mexico City	XETF 630 Veracruz, Mex.	KEZ 780 Mexico City
XEG 1360 Mexico, Mex.	XEP 1400 Laredo, Mexico	XETG 1000 Torreon, Mex.	XFC 805 Aguascalntes, M.
XEH 1132 Monterrey, Mex.	XEQ 750 Juarez, Mexico	XETQ 1230 Mexico, Mex.	XFF 875 Chihuahua, Mex.
XEI 1000 Morelia, Mexico	XER 735 Villa Acuna, Mex.	XETZ 1500 Coyoacan, Mex.	XFG 683.3 Mexico City
XEJ 1000 Juarez, Mexico	XES 890 Tampico, Mexico	XEU 1000 Veracruz, Mex.	XFI 818 Mexico City
XEK 990 Mexico City	XET 690 Monterrey, Mex.	XEV 1000 Puebla, Mexico	XFX 860 Mexico City
XEL 1000 Saltillo, Mexico	XETA 1140 Mexico City	XEW 910 Mexico City	10-AB 1200 Moose Jaw, Sask.
XEM 1300 Tampico, Mexico	XETB 1380 Torreon, Mex.	XEX 1210 Mexico City	10-BP 1200 Wingham, Ont.

INDEX BY LOCATIONS WITH MAP KEY

(Continued from page 59)

JALISCO	Watts	Kcys.	Ciego de Avila W-26	15	CMJH	1017
Guadalajara, Jal. X-10	101	XEA	Cienfuegos W-25	40	CMHJ	645
MICHOACAN			Colon W-24	100	CMGA	834
Morelia, Mich. Y-12	101	XEI	Havana W-23	150	CMBC	965
NEUVO LEON				150	CMBD	965
Monterrey, N. L. U-13	50	XEFB		150	CMBG	1070
	1000	XEH	Havana W-23	30	CMBI	1405
	500	XET		20	CMBL	1500
OAXACA				30	CMBN	1405
Oaxaca, Oak. AA-14	105	XEE		50	CMBQ	1500
PUEBLA				15	CMBR	1500
Puebla Z-13	101	XEV		150	CMBS	790
QUERETARO				500	CMBT	970
Queretaro X-12	40	XEFS		150	CMBW	1010
TAMAULIPAS				350	CMBY	1225
N. Laredo S-13	101	XEFE		150	CMBZ	1010
	200	XEP		500	CMC	842
Reynosa, Tams. T-14	10000	XED		150	CMCA	1225
Tampico, Tams. W-14	500	XEM		150	CMCB	1070
	500	XES		250	CMCD	925
VERA CRUZ				250	CMCF	890
Jalapa Y-14	100	XETC		30	CMCG	1345
Veracruz, Ver. Z-14	500	XETF		15	CMCH	1405
	101	XEU		250	CMCI	620
YUCATAN				15	CMCM	1405
Merida, Yuc. X-19	105	XEY		250	CMCN	925
WEST INDIES				225	CMCO	660
BERMUDA				600	CMCQ	1150
Hamilton M-35	7.5	TJW		150	CMCR	1345
CUBA				150	CMCU	1285
Caibarien W-25	250	CMHD		100	CMCW	1285
Cardenas W-24	30	CMGE		100	CMCY	1345
Camaguey W-26	150	CMJC		500	CMDC	660
	20	CMJE		3150	CMK	730
	50	CMJF		250	CMQ	1150
	30	CMJG		1400	CMW	588
				1000	CMX	885
			Matanzas W-24	7.5	CMGB	1205
				50	CMGF	977
			Pinar del Rio W-22	150	CMGH	1370
				20	CMAB	1249
				30	CMAC	1375
			Santa Clara W-25	15	CMHI	1110
			Santiago X-28	150	CMKC	1034
			Tuinucu	100	CMHC	790
			DOMINICAN REPUBLIC			
			Santo Domingo X-31	1000	HIX	669
			HAITI			
			Port au Prince X-30	1000	HHK	920

SHORT WAVE STATIONS OF NORTH AMERICA

Keys.	Call	Location	Keys.	Call	Location	Keys.	Call	Location
1544	W2XDA	New York	3184	KQX	Los Angeles	9570	W1XAZ	Springfield, Mass.
1584	W10XAL	New York		KQT	Los Angeles	9580	W3XAU	Byberry, Pa.
	W10XAO	New York	3244	KFR	Seattle	9700	WMI	Deal, N. J.
1596	WCF	New York		WJE	Seattle	9750	WNC	Deal, N. J.
	WKDT	Detroit	3256	W9XL	Chicago	9830	T14NRH	Costa Rica
	KGKM	Beaumont, Tex.	4105	NAA	Arlington, Va.	9930	W2XU	Long Island City
	KGPA	Seattle	4116	WOO	Deal, N. J.	10000	CM2LA	Havana
1604	W2XCU	Ampere, N. J.	4610	HIX	Santa Domingo	10410	KEBZ	Bolinas, Calif.
	W2XCD	Passaic, N. J.	4700	W1XAB	Portland, Me.	10540	WLO	Lawrence, N. J.
	W1XAU	Boston	4750	WOO	Deal, N. J.	10710	TGW	Guatemala
	W3XJ	Wheaton, Md.		WXDO	Ocean Gate, N. J.	11530	CGA	Drummondville, Que.
	W2XAD	Schenectady	4795	W9XAM	Elgin, Ill.	11720	CJRXX	Middle Church, Man.
	W2XAF	Schenectady		W3XZ	Washington, D. C.	11760	XDA	Mexico City
	W9XX	Cartersville, Mo.		W9XL	Chicago	11780	VE9DR	Drummondville, Que.
	W5XN	Dallas	4800	W2XV	Long Island City	11800	W2XAL	New York
1608	W9XAL	Chicago	4975	W2XAV	Long Island City		W9XF	Chicago
	W2XY	Newark	5500	W2XBV	Brooklyn		W9XGW	Bowmanville, Ont.
1662	WMP	Framingham, Mass.	5550	W8XJ	Columbus	11840	W2XE	Jamaica, N. Y.
1684	WKDX	New York	5710	VE9CL	Winnipeg		W9XAA	Chicago
	KOX	Honolulu	5770	HIX	Santa Domingo	11860	VE9CA	Calgary
1712	KGKM	Beaumont, Tex.	5860	XDA	Mexico City	11880	W8XK	Pittsburgh
	WKDT	Detroit	6000	HRB	Honduras		W9XF	Chicago
	WEY	Boston	6020	W9XF	Chicago		W2XAL	New York
	WPDB	Chicago		W2XBR	New York	12045	NAA	Arlington
	WPDC	Chicago	6030	VE9CA	Calgary		NSS	Annapolis
	WPDD	Chicago	6040	W9XAQ	Chicago	12850	W2XO	Schenectady
	WKDU	Cincinnati		W2XAL	New York		W2XCU	Ampere, N. J.
	KSW	Berkeley, Cal.	6060	W8XAL	Cincinnati		WOO	Deal, N. J.
	KUP	Dallas		W3XAU	Byberry, Pa.		W2XDO	Ocean Gate, N. J.
	WMDZ	Indianapolis	6070	VE9CS	Vancouver		W9XL	Anoka, Minn.
	KGPC	St. Louis	6080	W2XCX	Newark	13400	WND	Deal Beach, N. J.
	KGQY	San Antonio		W9XAA	Chicago	14150	KKZ	Bolinas, Calif.
	KGJX	Pasadena	6095	VE9GW	Bowmanville, Ont.	14480	W8XK	E. Pittsburgh
1715	W9XAN	Elgin, Ill.	6100	W8XAL	Bound Brook, N. J.		WNC	Deal, N. J.
	W6XK	Los Angeles		VE9CF	Halifax	14620	WMI	Deal, N. J.
2392	W10XAL	Portable	6110	VE9CG	Calgary		XDA	Mexico City
	W10XAO	Portable	6120	W2XE	New York	15000	CM6XJ	Tuinucu, Cuba
	W2XCZ	Portable	6140	W8XK	E. Pittsburgh	15210	W8XK	Pittsburgh
2398	W2XCU	Ampere, N. J.	6155	W9XAL	Chicago	15250	W2XAL	New York
	W2XAD	Schenectady		VE9CL	Winnipeg	15280	W2XE	Jamaica, N. Y.
	W2XAF	Schenectady		W2XDE	New York	15340	W2XAD	Schenectady
	WPDT	Kokomo, Ind.	6170	HRB	Honduras	16060	NAA	Arlington
2410	WCK	Belle Isle, Mich.	6280	WVV	Washington	16300	WLO	Lawrence, N. J.
	WRDR	Grosse Pt., Mich.	6335	VE9AP	Drummondville, Que.	17110	WOO	Deal, N. J.
	WMO	Highland Pk., Mich.	6425	W8XAL	Bound Brook, N. J.		W2XDO	Ocean Gate, N. J.
	WPDW	Washington, D. C.		W2XCU	Ampere, N. J.	17300	W2XK	Schenectady
	KGPD	San Francisco		W9XL	Anoka, Minn.		W8XL	Dayton
	KGPG	Vallejo, Calif.		WOO	Deal, N. J.		W6XAJ	Oakland
	W3XAG	Baltimore	6515	W4XG	Miami		W7XA	Portland, Ore.
2416	WPDJ	Columbus	6675	TGW	Guatemala		W7XC	Seattle
	WPDE	Louisville	6753	WND	Deal, N. J.		W2XCU	Ampere, N. J.
	KGPB	Minneapolis		XFD	Mexico City		W9XL	Anoka, Minn.
	WPDJ	Passaic, N. J.	6840	CFA	Drummondville, Que.	17780	W8XK	Pittsburgh
	WPDS	St. Paul	6860	KEL	Bolinas, Calif.	17850	W2XAO	New Brunswick, N. J.
	WPDA	Tulare, Cal.	7060	XFA	Mexico City	18120	W9XAA	Chicago
2422	WMI	Buffalo	7370	X26A	N. Laredo, Mex.	18170	CGA	Drummondville, Que.
	KGPE	Kansas City	7520	CGE	Calgary	18350	WND	Deal Beach, N. J.
2440	WPDF	Flint, Mich.	8400	VBS	Glac Bay, N. S.	19220	WNC	Deal, N. J.
	WNSA	Miami	8630	WOO	Deal, N. J.	19340	W2XAC	New York
	WPDV	Philadelphia		W2XDO	Ocean Gate, N. J.	19850	WMI	Deal, N. J.
	W3XB	Portable	8650	W3XE	Baltimore	20500	W9XF	Chicago
2452	WRBH	Cleveland		W2XV	Long Island City	21130	W2XAO	New Brunswick, N. J.
	KGPP	Portland, Ore.		W8XAG	Dayton	21400	WLO	Lawrence, N. J.
	WPKK	Milwaukee		W6XN	Oakland	21420	W2XDJ	Deal, N. J.
	KGPH	Oklahoma City		W4XG	Miami	21429	XFA	Mexico City
2458	WPDG	Youngstown, O.		W3XU	Washington	21469	W2XAL	New York
2470	KGQZ	Cedar Rapids		W2XCU	Ampere, N. J.	21540	W8XK	Pittsburgh
	WRDQ	Toledo		W9XL	Chicago	23000	W2XAW	Schenectady
2538	W6XAF	Sacramento	8690	W2XAC	Schenectady	24000	W6XAQ	San Mateo, Calif.
2758	VE9CI	London, Ont.	8872	NAA	Arlington	25700	W2XBC	New Brunswick, N. J.
2833	W6XAN	Los Angeles	9091	XFD	Mexico City		W3XA	Philadelphia
	W7XAB	Spokane	9350	CM2MK	Havana	27800	W6XD	Palo Alto, Calif.
	W2XAO	New York	9375	W8XAO	Detroit	31000	W8XI	Pittsburgh
	VE9AK	Red Deer, Alta.		TGX	Guatemala	34600	W2XBC	New Brunswick, N. J.
2855	W1XY	Hilton, N. H.	9530	W2XAF	Schenectady	41000	W8XI	E. Pittsburgh
3076	W9XL	Chicago		W9XA	Denver	43500	W1XG	Boston
3124	WOO	Deal, N. J.	9560	NAA	Arlington	51400	W2XBT	New York
							W2XBC	New Brunswick, N. J.

THE CUBAN EXPERIMENTALS

Call	Owner	Address	Location	Kcys.	Meters	Watts
CM-1FM	Julian Machado	Aramburu numero 5	Guantanamo	13950	21.5	100
CM-2AR	Alfredo Rosell	Campanario numero 145	Habana	14347	20.9	7.5
CM-2AY	Cesar Fernandez	Real 101	Marianao	7220	41.5	7.5
CM-3CF	Victor Couillard	Camp. Columbia 30-B	Marianao	7257	41.2	7.5
CM-3FC	Fernando Capestany	Godines "E" Buena Vista	Marianao	7152	41.9	7.5
CM-3GR	Gustavo Rodriguez	19 numero 494, Vedado	Habana	7220	41.5	7.5
CM-3GU	Luis Guyon	Santa Emilia 112, Santos Suarez	Habana	7135	42	20
CM-3GZ	Jorge L. Gonzalez	Maximo Gomez 49, altos	Habana	7300	41	7.5
CM-2IQ	Jose Fernandez	Real 89	Marianao	7257	41.2	7.5
CM-2JM	Justo Mahia	Sitios numero 65	Habana	7152	41.9	7.5
CM-2JT	Jose A. Terry	B entre 18 y Fuentes	Marianao	14277	21	75
CM-2KW	Carlos Alburquerque	Goicuria numero 24, Vibora	Habana	7152	41.9	7.5
CM-2LA	Enrique Lasanta (C.L.R.)	8 entre 21 y 23, Vedado	Habana	7000	42.8	250
CM-2MD	Marino Diaz Quinones	Padre Varela numero 120	Habana	7300	41	20
CM-2MK	R. V. Watters	Avenida de Italia 29	Habana	7170	41.8	100
CM-2MM	Antonio Sarasola	Emilio Sola 5, Pogolotti	Marianao	7185	42	30
CM-2QY	Alfredo Giro	3a entre 14 y 16	Marianao	7220	41.5	15
CM-2RA	Rigoberto Alvarez	San Jose numero 216	Habana	14277	21	7.5
CM-2RC	Radio Club de Cuba	Genios 23 altos	Habana	7220	41.5	15
CM-2RZ	Nestor Rodriguez	Cardenas numero 55	Habana	7152	41.9	7.5
CM-2SC	Jose del Salto	General Suarez numero 126	Habana	13950	21.5	250
CM-2SF	Eusebio Solis	Artes 93, Casa Blanca	Habana	7207	41.6	7.5
CM-2SH	Silvio Hernandez	H numero 184, Vedado	Habana	7170	41.8	7.5
CM-2SV	Sergio Valdes Rodriguez	Aguiar numero 19-A	Habana	7135	42	10
CM-2VM	Eliczer Valdes Mayo	Factoria numero 27, altos	Habana	7220	41.5	7.5
CM-2WA	Ezequiel Santos	Cristina numero 12	Habana	14140	21.2	7.5
CM-2WD	Pedro Madiedo	Santa Rosa A	Marianao	7135	42	10
CM-2WW	Amadeo Saez de Calahorra	Marina numero 2	Habana	7120	42.1	50
CM-2XA	Alfredo Rosell	Campanario numero 145	Habana	7262	41.1	150
CM-2XC	Alexander Strang	M. F. de Castro s-n	Habana	7220	41.5	5
CM-2XK	Raul Karman	Rayo 67	Habana	7135	42	15
CM-5AZ	Ernesto V. Figueroa	Independencia 130	Matanzas	7257	41.2	7.5
CM-5CX	Jose Alfonso	Diego numero 73	Colon	14277	21	50
CM-5EA	Elezar A. Togores	Domingo Mu ica numero 61	Matanzas	7220	41.5	7.5
CM-5EN	Escuela Normal	Tello Laitar 41	Matanzas	7257	41.2	7.5
CM-5FC	Felix U. Casas	Emilio Blanchet numero 19	Matanzas	7207	41.6	7.5
CM-5FL	Francisco Diaz Agramonte	Santa Catalina 16	Pedro Betancourt	7170	41.8	7.5
CM-5IM	Felix U. Casas	Tello Lamar 80	Matanzas	7257	41.2	7.5
CM-5NI	Julio C. Oyarzabal	Marti numero 52	Pedro Betancourt	7300	41	15
CM-5PM	Pastor Morejon	Maco numero 101	Matanzas	7135	42	10
CM-5RY	Bernabe R. de la Torre	General Betancourt numero 105	Matanzas	14277	21	7.5
CM-6BX	Luis D. Elizondo	Hourutiner numero 23	Cienfuegos	7292	41.1	10
CM-6CP	Carlos M. Carbonell	Gacell numero 41	Cienfuegos	7135	42	20
CM-6DW	Eduardo Terry	San Carlos 197	Cienfuegos	7300	41	10
CM-6SG	Remberto Sanchez	Candelaria numero 16	Santa Clara	7220	41.5	7.5
CM-7CX	Leonard B. Fox	Central Florida	Florida	7220	41.5	15
CM-7DW	M. L. de Quintana	Central Tacajo	Tacajo	7207	41.6	10
CM-7JQ	Leonard B. Fox	Central Florida	Florida	14277	21	5
CM-7SH	Domingo Caymares	Augusto Arango 81	Nuevitas	7257	41.2	15
CM-8AZ	James Connor Blume	Estacion Naval	Guantanamo	7135	42	150
CM-8BY	Alberto Ravelo	Ave. Manduley ent. 1 y 3	Santiago de Cuba	7300	41	30
CM-8HS	Guillermo Polanco	M. Corona, Baja 16	Santiago de Cuba	7000	42.8	100
CM-8MN	Melchor Agüero	General Escario numero 111	Santiago de Cuba	7135	42	50
CM-8OL	Luis C. Greco	San Bartolme 32	Santiago de Cuba	7300	41	50
CM-8UF	Earle D. Byer	Estacion Naval	Guantanamo	14277	21	300
CM-8YB	B. V. Greer	Estacion Naval	Guantanamo	7300	41	100

CANADIAN HIGH FREQUENCY BROADCASTING

Call	Owner	Location	Kcyl.	Meters
VE9AK	Alberta Pacific Grain Company	Red Deer, Alta.	2830	105.9
VE9BA	Candian National Railways	Montreal, Que.	6130-11705	48.9-25.6
VE9BJ	C. A. Munro, Ltd.	St. John, N. B.	6090	49.23
VE9CA	Western Broadcasting Co., Ltd.	Calgary, Alta.	6030-11860	49.75-25.3
VE9CF	Borrett for CHNS	Halifax, N. S.	6050	49.50
VE9CG	Calgary Herald, Limited	Calgary, Alta.	6110	49.10
VE9CL	James Richardson & Sons	Middleburch, Manitoba	6150	48.8
VE9CS	United Church of Canada	Vancouver, B. C.	6070	49.42
VE9DN	Canadian Marconi Co.	Montreal, Que.	6005-9580	49.9-31.3
VE9DR	Canadian Marconi Co.	Drummondville, Quebec	11780	25.47
VE9GW	Gooderham & Worts, Limited	Bowmanville, Ontario	6095	49.22

CANADIAN STATIONS TELEVISION

Call	Owner	Location	Kcyl.	Meters
VE9AF	Jas. A. Ogilby's, Ltd.	Montreal, Que.	2850-2950	105.3-101.7
VE9AR	A. R. MacKenzie	Saskatoon, Sask.	2850-2950	105.3-101.7
VE9BZ	Radio Service Engineers	Vancouver, B. C.	2750-2850	109.1-105.3
VE9DS	Canadian Marconi Co.	Montreal, Que.	2100-2200	142.9-138.3
VE9EC	LaPresse Publishing Co., Ltd.	Montreal, Que.	2004-2100	149.7-142.9
VE9ED	Dr. Jos. L. P. Landry	Mont Joli, Que.	2805-2950	105.3-101.7
VE9RM	Rogers Majestic Corp., Limited	Toronto, Ont.	2004-2100	149.7-142.9

HOW TO TUNE A SET CORRECTLY

Read This Page Carefully and You Can Set Your Dials Accurately for Any Station in America

ALL stations in America are listed in RADEX in three tables:

- 1st by Frequencies.
- 2nd by Call Letters.
- 3rd by States and Cities.

The Index by Frequencies is the one to be used, the other two are merely supplementary.

Let us assume you have just bought your first RADEX. Proceed as follows:

Tune in some station — any station that comes in. Tune it sharply, turning down your rheostats (Volume control) until we find the marks on your dials at which it comes in most clearly and with greatest volume.

Let us assume that the station we are hearing is WFAF in New York. First we must ascertain the frequency for this station. Look it up under WFAF in the Index by Call Letters or under New York in the Index by States and Cities. In either of these indexes we find that the frequency of WFAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WFAF is one of the two stations which have been assigned the 660 kcys. frequency by the Federal Radio Commission. We also find that it has a power of 50,000 watts, that it is located in New York City and is owned by the National Broadcasting Co., Inc.

In the blanks for dial numbers opposite 660 kilocycles (which is the wave length of 454.3 meters) enter the dial readings of your set. It is immaterial whether your set has one, two or three dials. Use as many of three spaces provided as you need. The set used in the illustration had two dials. In this case we entered the dial readings for 660 kilocycles as 69-67.

Let us now tune in some other station. We repeat the same procedure in tuning and find that we are hearing, let us say, WOS at Jefferson City. Proceed as before in ascertaining the frequency of WOS. This we find to be 630 kcys. We turn to 630 in the Index by Frequencies and enter our dial readings for this band which on the set we are using was 72-70.

We now have found that the dial numbers for 630 kcys. are 72-70 and the dial numbers for 660 kcys. are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 kcys. We listen carefully and if they are on the air and within range of our set we will tune in WSM of Nashville at this point. We then enter the dial readings for WSM opposite 650 kcys. Now it is

clear that if we reset our dials at 71-69 our set will be tuned to 640 kcys. and at that point KFI of Los Angeles will be heard, always assuming, of course, that it is on the air and within range of our particular set.

Now we tune in some other station, proceeding as before until after an evening or two, we have blanks filled on every page. We are now able to set our dials for any frequency we desire and consequently any station we may want whether we have ever received it before or not.

Our index now becomes of great value to us in identifying programs. Let us say that we hear music at 67-65 on our dials. We refer to our Index by Frequencies and Dial Numbers and we find that we are in tune to 680 kilocycles. On this wave there are two stations: KPO at San Francisco and WPTF at Raleigh, N. C. Both of these stations have 5000 watts in power. But knowing which is the closer to our set, we can tell almost invariably which station we are hearing. The Radio Commission has had to give the same frequency in most cases to several stations but they have distributed them geographically so they should not interfere. When two stations in the same locality have the same frequency, they are required to divide the

time. In this case, of course, it is not possible to tell which one of the two stations is broadcasting at the particular moment we hear it, but we do know it is one or the other of them.

The second column in the Index by Frequencies, as we have seen, gives the power of the station as measured in watts. This power also aids us in identifying stations as we will not ordinarily hear those stations with 500 watts or less unless they are close to our home city.

The Index by Call Letters also has spaces providing for logging dial numbers, but these are provided merely for the convenience of those who want to be able to turn instantly to some favorite station. They may or may not be used as you desire. Remember that it is the Index by Frequencies that we must use to get the most value and pleasure out of our radios.

The Index by Frequencies is now printed with marginal tabs. If you will fill in under the word "dial" your reading for this particular frequency, you can then turn instantly to any frequency desired. Take a pair of shears and cut along the dotted line, as shown.

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters		76 74	
KFO	1000 Spokane, Wash.	Louis Weaver Inc.	
WJL	1000 Lincoln, Neb.	Nebraska Wesleyan University	
WELI	1000 Tucson, Ariz.	Edison Elec. Illuminating Co.	
WOW	1000 Omaha, Neb.	Woodmen of the World	
WEMC	1000 Ferris Springs, Mich.	Eastern Missionary College	
600 kilocycles 499.7 meters		75 73	
CFCH	300 Niagara Falls, Ont.	Abel's Power & Paper Co.	
KFSU	600 Laramie, Wyo.	Blahut N. S. Thomet	
KFSU	600 Las Vegas, Calif.	Arden College	
WCAO	310 Baltimore, Md.	Monumental Radio Co., Inc.	
WFW	600 Detroit, Mich.	Eastern College	
WLAN	500 Lawrenceburg, Tenn.	Vaughan School of Music	
WBCN	500 Memphis, Tenn.	WABC, Inc.	
WTIC	330 Hartford, Conn.	Travelers Insurance Co.	
610 kilocycles 491.5 meters		74 72	
KPRC	1000 San Francisco, Calif.	Don Lee, Inc.	
WDAF	600 Kansas City, Mo.	Kansas City Star Co.	
WLAN	600 Philadelphia, Pa.	Keweenaw Broadcasting Co., Inc.	
WIO	600 Philadelphia, Pa.	Clibbi Bros., Inc.	
		Unity School of Christianity	
620 kilocycles 483.6 meters		73 71	
KFAD	500 Piquette, Ark.	Electrical Equipment Co.	
KGW	1000 Portland, Ore.	Oregonian Publishing Co.	
WJLX	1000 New York, N. Y.	Tampa Publishing Co.	
WDBD	1000 Orlando, Fla.	Stevens College, Inc.	
WELZ	1000 Dover, Pa.	Sturman's L. Gorman	
WTMJ	1000 Milwaukee, Wis.	Milwaukee Journal	
630 kilocycles 475.9 meters		72 70	
CFCT	500 Victoria, B. C.	Victoria Broadcasting Ass'n.	
CNCA	500 Yorkton, Sask.	Winnipeg Grain Exchange	
CNCA	500 Brandon, N. B.	Canadian National Railway	
KFRU	500 Mezzelin, Nev.	Carroll Limes	
KFRU	500 Colorado, Mo.	Stamley College	
WVAL	310 Washington, D. C.	Bonville on the Air, Inc.	
WOS	600 Jefferson City, Mo.	N. A. Lester Co.	
		State Marketing Bureau	
640 kilocycles 468.5 meters			
KFI	500 Los Angeles, Calif.	Earle C. Anthony, Inc.	
WAIU	500 Columbus, Ohio	American Ins.-acc. Union	
650 kilocycles 461.3 meters		70 68	
WSM	500 Nashville, Tenn.	National Life & Accident Ins. Co.	
660 kilocycles 454.3 meters		69 67	
WAW	500 Omaha, Nebr.	Omaha Grain Exchange	
WFAF	500 New York City	National Broadcasting Co., Inc.	
670 kilocycles 447.5 meters		68 66	
WMAO	300 Chicago, Ill.	Chicago Daily News, Inc.	
680 kilocycles 440.9 meters		67 65	
KFO	500 San Francisco, Cal.	Male Brok. A. H. Chronicle	
WPTF	500 Raleigh, N. C.	Durham Life Insurance Co.	



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 certainly rolling in the 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 \$100 a Week!

\$50 a week! Man alive, a year ago I thought anyone making that 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 \$100 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 a half a mile long to make good money.

One day I picked up a magazine and the headline of 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 business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it is all about anyway."

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 and doing other jobs. It would probably have sounded too good to be true if the promises had not been backed up by 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream to me now. I took their course and in about a month I was ready to start making money in my neighborhood—as much as \$20 and \$30 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 \$100 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—in case I wasn't interested in having my own business. Broadcasting stations, Radio Manufacturers, Operating on Board Ship Servicing sets, Aircraft Radio, Tele-

vision and Talking Movies are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I have never had a chance—will never have one because I have no pull and have never had the advantage of 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. It won't cost you anything—only a two-cent stamp. It shows you a lot of things which I don't believe you know now—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 one. Beginners as well as experienced men are making as much as \$1,000 to \$2,000 a year more as a result of N. R. I. training. You place yourself under no obligation because the book is free and is gladly sent to anyone who is ambitious and wants to get ahead. Just address J. E. Smith, President National Radio Institute, Dept. 2A0, Washington, D. C.

J. E. SMITH, President,
National Radio Institute,
Dept. 2A0, Washington, D. C.

Dear Mr. Smith:

Send me your 64-page free book, which gives information on the opportunities in Radio—Operating on Board Ship, in Broadcasting Stations, Commercial Land Stations, Set Servicing, Radio Manufacturing, Aircraft Radio, Television and Talking Movies. I understand this request places me under no obligation and no salesman will call on me.

Name

Address

City

State