

THE MARCH 1933

RADIO IN INDEX

THE ALL-WAVE RADIO MAGAZINE



25^c

Saturday Time on the Air
Spending Sunday with the Short
Waves

The Police Broadcasters by Cities,
Calls and Channels
When to Tune for the European
Broadcasting Stations



MARCH 1, 1933

RADIO INDEX

Reg. U. S. Patent Office

FRED CLAYTON BUTLER

Editor and Publisher



B. FRANCIS DASHIELL
Technical Editor

NINTH YEAR

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PAGE TAYLOR
Short Wave Editor

NUMBER 67

MARCH DX CALENDAR

Special Programs for Distant Listeners

A. M. time is given as the night before. Thus early Monday morning programs are listed under Sunday night. Time is given in Eastern Standard so that programs may be listed in proper sequence.

SUNDAY NIGHT		4:00-6:00	WINS, 1180, New York City
March 5th		4:00-6:00	WLWL, 1100, New York City
3:00-5:00	KPCB, 650, Seattle, Wash.	4:30-6:00	10-BP, 1199, Wingham, Ont.
March 19th		March 31st	
2:00-4:00	WBSO, 920, Needham, Mass.	4:00-5:00	KGAR, 1370, Tucson, Ariz.
2:30-5:00	10-BI, 1200, Prince Albert, Sask.	4:00-6:00	WBBC, 1400, Brooklyn, N. Y.
March 5th, 12th, 19th, 26th		4:00-6:00	WOV, 1130, New York City
12:00-1:00	WSAZ, 580, Huntington, W. Va.	March 3rd, 17th	
12:30-1:00	KSOO, 1110, Sioux Falls, S. Dak.	1:00-5:00	KASA, 1210, Elk City, Okla.
1:00-3:00	WGES, 1360, Chicago, Ill.	4:00-5:00	XES, 1055, Tampico, Mex.
MONDAY NIGHT		March 3rd, 10th, 17th, 24th, 31st	
March 6th, 20th		12:30-1:30	WCAJ, 590, Lincoln, Nebr.
4:30-5:15	WEOA, 570, Columbus, Ohio	1:00-2:00	CFCN, 985, Calgary, Alta.
5:00-6:00	WAWZ, 1350, Zarephath, N. J.	1:00-2:00	WENC, 1420, Americus, Ga.
March 8th, 13th, 20th, 27th		1:00-3:00	KCCL, 580, Toronto, Ont.
12:00-2:30	WMIL, 1500, Brooklyn, N. Y.	1:30-3:00	KGEL, 1200, Yuma, Colo.
1:00-4:00	WSUI, 880, Iowa City, Iowa	4:30-5:00	CMJH, 1150, Ciego de Avila, Cuba
1:00-5:00	WABZ, 1200, New Orleans, La.	SATURDAY NIGHT	
2:00-4:00	KOY, 1390, Phoenix, Ariz.	Feb. 25th	
5:15-5:30	WHP, 1430, Harrisburg, Pa.	3:00-4:00	KPQ, 1500, Wenatchee, Wash.
TUESDAY NIGHT		March 4th	
Feb. 28th		12:00-2:00	CMCH, 1395, Havana, Cuba
3:00-6:00	WOPI, 1500, Bristol, Tenn.	12:00-4:00	WRBX, 1410, Roanoke, Va.
4:00-5:00	KGAR, 1370, Tucson, Ariz.	1:00-3:00	WILL, 890, Urbana, Ill.
March 7th		1:30-2:30	CHGS, 1120, Summerside, P. E. I.
2:00-3:00	WJMS, 1420, Ironwood, Mich.	2:00-3:00	CHML, 880, Hamilton, Ont.
March 14th		March 4th, 18th	
2:00-4:00	WHET, 1210, Troy, Ala.	1:00-5:00	WJEJ, 1210, Hagerstown, Md.
4:00-5:00	KFBI, 1050, Abilene, Kans.	2:30-4:30	10-AB, 1200, Moose Jaw, Sask.
March 28th		3:00-6:00	10-AT, 1155, Trail, B. C.
2:30-3:30	WLO, 1200, Janesville, Wis.	March 11th	
March 7th, 14th, 21st, 28th		3:00-6:00	KGIR, 1360, Butte, Mont.
12:00-1:00	XEH, 1132, Monterrey, Mex.	5:00-6:00	WOL, 1310, Washington, D. C.
3:00-4:00	CFJC, 1120, Kamloops, B. C.	March 11th, 25th	
3:00-4:00	KFGQ, 1310, Boone, Iowa	1:00-3:00	KUSD, 890, Vermillion, S. Dak.
WEDNESDAY NIGHT		March 18th	
March 1st		2:00-3:00	WTQC, 1260, Savannah, Ga.
2:00-3:00	CHWK, 665, Chilliwack, B. C.	March 25th	
2:30-4:30	KXO, 1500, El Centro, Calif.	12:00-4:00	WIBW, 580, Topeka, Kans.
March 1st, 8th, 15th, 22nd, 29th		2:00-2:30	WFAS, 1210, White Plains, N. Y.
11:30-1:00	KFUO, 550, St. Louis, Mo.	4:00-5:00	WWNC, 570, Asheville, N. C.
12:00-1:00	WHBL, 1410, Sheboygan, Wis.	March 4th, 11th, 18th, 25th	
2:00-3:00	KFXJ, 1310, Grand Junction, Colo.	12:00-1:00	WJBK, 1370, Detroit, Mich.
2:30-4:30	CKWX, 730, Vancouver, B. C.	12:00-1:30	WWVA, 1160, Wheeling, W. Va.
2:30-4:30	KGFF, 1420, Shawnee, Okla.	12:00-2:00	WCAH, 1430, Columbus, Ohio
THURSDAY NIGHT		12:00-3:00	CMCD, 1140, Havana, Cuba
March 2nd, 18th		12:00-3:00	WWRL, 1500, Woodside, N. Y.
11:30-3:00	WMBC, 1420, Detroit, Mich.	12:00-5:00	WTFI, 1450, Athens, Ga.
March 9th		12:30-3:00	WBBZ, 1200, Ponca City, Okla.
3:00-5:00	WHBF, 1210, Rock Island, Ill.	1:00-1:30	WKY, 900, Oklahoma City
March 30th		1:00-2:00	CMCY, 1325, Havana, Cuba
4:00-5:00	KPOF, 880, Denver, Colo.	1:00-2:00	KQV, 1380, Pittsburgh, Pa.
March 2nd, 8th, 16th, 23rd, 30th		1:00-2:00	WGBF, 630, Evansville, Ind.
12:00-2:30	WMIL, 1500, Brooklyn, N. Y.	1:00-3:00	KRLD, 1040, Dallas, Tex.
2:00-3:00	CFAC, 690, Calgary, Alta.	1:00-3:00	WGES, 1360, Chicago, Ill.
3:00-4:00	CKOV, 1200, Kelowna, B. C.	1:00-3:00	WOW, 590, Omaha, Nebr.
FRIDAY NIGHT		1:00-4:00	KGU, 750, Honolulu, H. T.
Feb. 24th		1:15-2:30	WOMT, 1210, Manitowoc, Wis.
3:00-4:00	WCSC, 1360, Charleston, S. C.	1:30-3:00	KMAC, 1370, San Antonio, Tex.
4:00-6:00	WOR, 710, Newark, N. J.	2:00-3:00	CMGE, 1375, Cardenas, Cuba
March 3rd		2:00-3:00	KFEL, 920, Denver, Colo.
2:00-4:00	10-BQ, 1200, Brantford, Ont.	2:00-4:00	WWAE, 1200, Hammond, Ind.
4:00-6:00	WJZ, 760, New York City	2:00-5:00	WMMN, 890, Fairmont, W. Va.
March 10th		2:30-4:30	CKWX, 730, Vancouver, B. C.
2:00-5:00	CKPC, 880, Preston, Ont.	3:00-4:00	CFCT, 630, Victoria, B. C.
4:00-6:00	WFOX, 1400, Brooklyn, N. Y.	3:00-4:00	CKOV, 1200, Kelowna, B. C.
4:00-6:00	WPCB, 810, New York City	3:00-4:00	CMJK, 790, Camaguey, Cuba
March 17th		3:00-4:00	KDB, 1500, Santa Barbara, Cal.
4:00-5:00	WNBX, 1260, Springfield, Vt.	3:00-4:00	KFXM, 1210, San Bernardino, Cal.
4:00-6:00	WABC, 860, New York City	3:00-4:00	EGER, 1360, Long Beach, Calif.
5:00-6:00	WJBU, 1210, Lewisburg, Pa.	3:00-6:00	KGCC, 1310, Wolf Point, Mont.
March 24th		4:00-6:00	KVOA, 1260, Tucson, Ariz.
3:00-4:00	KDLR, 1210, Devils Lake, N. D.		

In FRONT of the MICROPHONE

• • • By "BETTY"

The Girl on the Cover

JEANNIE LANG, petite, vivacious and collegiate, first got a "big bang" out of life when she made her bow to the world in St. Louis December 17, 1911. She was small enough then, but no one suspected she'd go through life abbreviated as "Half Pint," "Peanut" and "Spark Plug."

Although Jeannie's earliest dreams and ambitions were aimed at a theatrical career, she was preceded by three brothers who were always on hand to wallop any fancy ideas out of her, and a father and mother who, like most parents, were dead set against it.

A leading role in the high school musical comedy production cinched her determination, however, and she took matters in her own hands. She called upon the manager of a local theatre, who was a friend of the family. He was quite unaware that Jeannie had come to apply for a job without the full sanction of her parents, so he gave her a small part. The parents eventually threw up their hands in resignation, and Jeannie hammered at all opportunities vigorously.

Debut in a Faint

Her first real chance came when Brooke Johns, over six feet tall and looking for a small feminine foil, appeared at the theatre. Jeannie persuaded him that she was just the girl he needed. Waiting backstage to go on, however, she suffered such agonies of fright that she fainted. Brooke Johns nonchalantly picked her up and carried her before the footlights with him, and when she "came to" he was singing her song for her. She did not utter a note. That was two and a half years ago.

When the Lang family went visiting in California, friends at the Universal studio conducted them on a

tour. Paul Whiteman was commencing production on the "King of Jazz" and Jeannie was introduced to him. He offered her a screen and microphone test. Both were so successful that without further hesitation she was given several numbers to do in the picture.

Hammerstein later sent for her to come to New York for a part in "Ballyhoo." Upon its conclusion, Jeannie returned to the coast and resumed radio work at KFI and movie shorts with Warner Brothers. Then came a telegram from Jack Denny, offering her a job as soloist with his orchestra, and Jeannie went east.

It was Pontiac who came through with the hoped-for "commercial." She is now heard on that program over the Columbia network, along with Col. Stoopnagle and Budd, gigantic Bill O'Neal, and Andre Kostelanetz. The program originates in the Chamber Music Hall of Carnegie Hall, New York.

Leonard Hayton



Leonard Hayton is the youthful

conductor of the Chesterfield Orchestra who has directed more bands than his life numbers in years. Less than two decades ago, 6-year-old Leonard used to pitch pennies to a ring-tail monkey on Manhattan sidewalks and marvel at the musical machinations of the hurdy-gurdy. He dreamed of the day when he might rouse the neighborhood with similar fanfare.

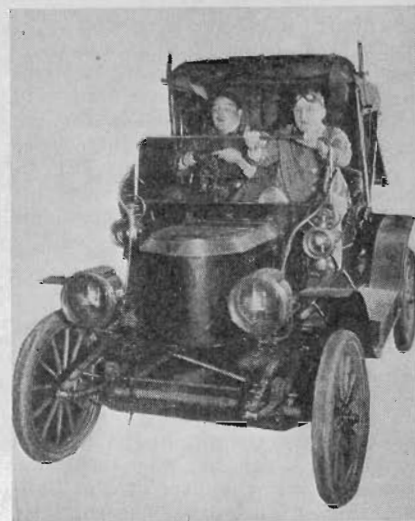
A Youthful Maestro

Today, at the age of 24, Leonard directs the gay music heard with Bing Crosby, Ruth Etting and other stars in the Columbia Broadcasting studios high above the haunts of his childhood hurdy-gurdy. Before he was out of his 'teens, he began a career which carried him upward as pianist, arranger and conductor with Paul Whiteman and Bing Crosby on Broadway, stage tours and in Hollywood. His big chance came this year when he assembled a group of novel instrumentalists and won the engagement to support the Chesterfield stars.

Leonard was born in New York City on February 13, 1909, the son of a Manhattan restaurateur. He developed a penchant for the piano when six years old. Neither of his parents was a tutored musician, but both were avid followers of the concert hall. Leonard was taken to every musical event and, before he emerged from knee pants, became thoroughly schooled in the symphonies. The parents forbade "jazz" and it was not until Leonard reached the age of sixteen that he knew the subtle appeal of syncopation. Then he "bootlegged" modern recordings into the household and soon was tantalizing the keys with rhythmic tunes for schoolboy friends. This forbidden forte became his fortune when family reverses set in.

Joins Paul Whiteman

Leonard left high school to become pianist with the Broadway Hotel Orchestra. While playing at the Park Central, he was heard by Paul Whiteman and immediately engaged



"Cannonball" Stoopnagle and "Mile-a-minute" Budd try out their new Model-1905. Whatisit. On Pontiac program, CBS, Thursdays at 9:30 p. m.

by the exponent of jazz symphonies. During his two and a half years with the Whiteman fold, he alternately served as featured pianist, arranger and assisting conductor on the stage, in radio, recording and movie studios. With Whiteman at the same time was a young singer named Bing Crosby, one of the original Rhythm Boys. Leonard and Bing struck up a professional and personal friendship which remained intact when Bing leaped to radio fame. Leonard joined the Crosby radio ensemble as one of the piano duo of Hayton and Arthur Schutt, and as Crosby's arranger. He accompanied Bing to the coast for the filming of "The Big Broadcast." Enroute they played eight weeks of theatre engagements, Hayton organizing and directing a new band in each city. When Chesterfield contracted for their triumphant return to the air, Leonard Hayton not only emerged in his own right as arranger and conductor for the popular baritone, but was appointed musical director for the entire series.

Known as "Lennie" to his friends, he is slender, of medium height, has

dark hair and trim mustache . . . likes a real game of ping-pong . . . hasn't missed an important football battle . . . isn't superstitious and believes everything happens for the best . . . hopes some day to write a serious symphony . . . lives in a bachelor apartment . . . divides his spare time between sports, symphonic concerts and the movies, especially the news reels.

NEWSY NOTES

Carson Robison, whose Buckaroos are heard twice weekly over the N.B.C. Blue network, had a musical romance. When he was recording, he walked into the office of Nat Shilkret then a recording maestro. He looked into a pair of brown eyes and Mr. Shilkret lost a secretary. The Robisons have a girl, Patsy, three and a half, and a boy almost a year old, named Robert Arnold.

* * *

Jack Pearl, the teller of strange tales on those Thursday night Magic Carpet broadcasts, doesn't mind if Cliff Hall, the straight man in his weekly frolic before the microphone, gets a part of the credit for the success of the Baron Munchausen idea. "That's right!" says Pearl, "I couldn't do very much without Cliff. He's the greatest straight man in the business today, and I mean just that. We've worked so long together that I'm afraid I'd be a flop without him." Incidentally, Jack denies he has signed to be featured on the "True Story" hour.

* * *

Those Tuesday night Magic Carpet programs dealing with the secret agents take twelve solid hours of rehearsal, in addition to the twelve hours of research work six men do on the cases, making a 24-hour job out of them . . . and it takes less than an hour to broadcast them.

Never a day passes but that Raymond Knight, who plays "Billy Bachelor" on his five-night-a-week dramatic show about Wheatenaville is asked if the twins, Peter and Pan, are his own children. Knight is the father of two children—John, who is in high school, and Betty Lou, but they do not take part in the programs. Knight also "doubles" the comedy role of Wellington Watts. Alice Davenport, who plays the love interest, has had eleven proposals of marriage since she took the part.

* * *

Those Boswell Sisters don't like to work out their arrangements on paper, but prefer to sit down at a piano and experiment until they find a harmony scheme that suits them. Although Martha always plays the piano accompaniment during their broadcasts, any of the three is likely to be found at the keyboard when the girls are rehearsing.

* * *

Although they had previously vowed they would never do it, "Easy Aces" have signed a vaudeville contract. Goodman Ace, author and lead of the three-a-week CBS skit, tried to frighten off vaudeville bookers by naming a high figure (\$2,000 a week) but they surprised him and met his price.

* * *

The Great Gracie Allen Missing Brother Search, after sweeping the radio world, invaded Broadway the other day. In the popular musical play, "The Dubarry," featuring Grace Moore, star of stage and opera, a group of court ladies await the entrance of the King's favorite. At last La Dubarry, played by Miss Moore, appears in a gorgeous gown. "Ah, Madame, where have you been?" she is asked. To which Miss Moore replied in tragic tones: "I have just been out hunting for Gracie Allen's brother." And it stopped the show for two solid minutes. We hope by the time this is in print they've found the rascal.

A DX CRITIC INVESTIGATES

Seeks a Showdown

WE KNOW we ought to "let sleeping dogs lie," but we just can't help writing this article. Our readers will remember the storm we brought down upon our heads when we published last April, the story, "Girdling the Globe on Two Tubes." It was an account of the reception of George Lilley on a two-tube set of his own construction. His claim of the reception of New Zealand and Australian stations brought us a score of letters of protest, most of them bitter, against our publishing such wild claims.

One of our most vehement critics, whom we will call Mr. X, wrote us several letters of great length. We are making very brief excerpts from his letters. "Preposterous claims." "I wonder if there is anyone who is ignorant enough to believe it." "These fellows are crooks and their verifications fraudulent." "Never has one of these fakers brought one of these miracle stations in in the presence of other DXers." "Why not appoint several subscribers in their vicinity to call upon them any day and any time? I'm sure you'll find they have their first foreigner to get."

"I judge you never DXed in your life hence you know little or nothing about radio. Had you ever been a DXer you could tell at once these claims are impossible." "Those claims for a two-tube set are out of the question."

After several months, we received another letter from Mr. X. "Disgusted . . . your stand . . . fakers." "Why don't you send committee to investigate?" "If you had the faintest knowledge of DX you wouldn't print the things you do." "You have a wonderful magazine but you are ruining it completely with stories like you are printing." "I would like to see you actually challenge them."

But that's enough. It was neces-

sary to print the above comments in order to explain the next chapter.

"Time marches on" . . .

Mr. X himself arranged with George Lilley to witness a demonstration of that two-tuber. When we learned of this we wrote Mr. X and asked him to tell us the results of the test. To his credit be it said, Mr. X wrote us frankly and fairly and from his letter we are making the following quotations.

"I am very glad to find you are after both sides of the demonstration, which looks as though you are really concerned with the truth of the claims you publish in your fine magazine. I arrived at Mr. Lilley's home at 12:15 on the morning of October 30th. We talked for some time and started to DX about 1:30 a. m. when all the big stations were on. I found the big stations spread considerably and that



Borgney Hammer, young Norwegian actress, of the "March of Time" program CBS, Fridays at 8:30 p. m. EST.

WCAU could be heard very plainly in the background. . . . We calculated where the Australians would come in. At 2:00 a. m. many of the big stations were off and we were getting better catches. For one, we got KOH which came in very well. Then around 3:00 a. m. we had KERN, a 100-watter in Bakersfield, Calif., which I thought and still think was a very good catch. It came in quite clear but Lilley had a hard time to hold it.

Picks Up Australia

"After that we got all sorts of stations none of which were anything exceptional. Some of them were: KGER, KWSC, KFI, KNX, WKY, WSIX, KGB and a few more I can't remember. There really seemed to be very little on the air. However at 5:50 a. m. Lilley did get what I truly believe were three Australian stations in 4BH, 4QG and 2BL. They came in very weak, of course, 2BL being the worst and indeed very poor. However I must say he was unable to hold any of the three for a period of one minute. He did pick up 4BH twice but couldn't hold them at all. In the case of 4BH and 4QG, I must say they came in so clear for their very brief time that, had I known the selections at all, I could have written for verification as proof of reception. However when he did pick them up, he should have been able to hold them a little longer but daylight was coming on. I am of the firm opinion that Mr. Lilley does receive Australian stations but how long is it possible for him to hold them? I feel well satisfied with the demonstration and I believe that George treated me perfectly honestly and I am being honest with him and giving him all the credit he deserves."

Summarizes Test

Mr. X still doubt's Lilley's ability to bring in the Europeans as their channels are congested with American stations. He also thought George too hasty in deciding the identity of a station before hearing the an-

nouncement. He summarizes the test thus: "While I was skeptical about his claims, I made the demonstration for my own satisfaction. I did not go with the idea of tearing down any credit that Mr. Lilley deserves. I found he has a very sensitive set and a wonderful location indeed."

Verifies 4BH

And now comes the third chapter. On October 9th, three weeks before the test above described, Mr. Lilley wrote to us of the reception of 4BH and sent us a copy of his report of reception. We asked him to be sure to send us the verification from 4BH when it was received. This came to us on January 9th. As this was one of the stations which Mr. X heard, this verification is of interest.

Following is the report of reception which is so complete as to admit of little doubt:

Date of reception: Sunday morning, Oct. 9th in West Chester, Pa., Sunday evening in Brisbane. Station received on my two-tube receiver. Please note that the envelope contain-



Mildred Rose gave up trusted post with big insurance company to try to get into radio. Now on CBS Cathedral Hour, Light Opera Gems and other features.

ing this report is postmarked by the U. S. Postoffice within a few hours of my reception.

Reception was between 5:52 a. m. and 6:11 a. m. EST. Translated to Brisbane time, this was 8:52 to 9:11 p. m., same day, Eastern Australia Standard Time.

8:52 to 8:56 p. m. A classical selection by the Grand Symphony orchestra.

8:56 to 8:59 p. m. Announcement by a man advertising a cold remedy to be used on handkerchiefs. Then a phone call was acknowledged from a Mr. Quinn of New South Wales. Then it was announced that the next program was sponsored by the O. K. Rubber Company.

8:59 to 9:03 p. m. One of the old favorite selections whose title I could not think of. Chorus was sung by a man.

9:03 to 9:04 p. m. Announcer told about the merits of the O. K. Rubber Co.

9:04 to 9:07 p. m. The popular tune entitled "Cabin in the Cotton."

9:07 to 9:10 p. m. Following a short announcement of the title, the selection "Kiss by Kiss" was played.

9:10 to 9:11 p. m. Announcement the details of which I missed due to a fade.

9:11 to 9:14 p. m. The popular English dance tune "Day by Day."

Reception of your station, 4BH, was unusual in that the program was heard well after the break of day. The program was as clear and loud as many stations of only 1000 miles distance. The morning was clear here with average temperature.

The Verification

Following is the verification from 4BH, a personal, typewritten letter:

George Lilley, Esq.,
227 West Bernard St.,
West Chester, Penna, U. S. A.

Dear Sir:

We have to acknowledge receipt of your letter of the 9th October, reporting on your reception of Station 4BH. We have checked this over with our log, and find the de-



The Mills Brothers went from obscurity to fame in less than a month. Left to right, Herbert, Donald, Harvey and John. Monday and Thursday, CBS at 9:15 p. m. EST.

tails mentioned by you are correct. We have pleasure in inclosing verification card.

Thanking you for your interest.

Yours truly,

BROADCASTERS (AUST.) PTY.
LTD.

(Signed) W. R. Pym,
Manager.

The New Zealand Radio Call Book shows the power of 4BH to be 200 watts aerial and to be able to make so complete a report of reception—two tubes or ten—is a noteworthy feat. It supports our belief that in radio anything is possible and backs up our position—"If it's DX news it belongs in RADEX."

In the April issue, Mr. Dashiell will tell us how to conquer those terrible power-line noises and give us a diagram for building our own filters.

The WORLD of SHORT WAVES

• • • By PAGE TAYLOR

EDITOR'S NOTE: We are glad to announce the appointment of Page Taylor of Detroit, as Short Wave Editor. Mr. Taylor is a short-wave enthusiast, listening to the higher frequency signals exclusively. Of his qualifications, W. H. Reeks, Corresponding Secretary of the Chicago Short Wave Club, writes: "Page Taylor is our most valuable correspondent. He is an exceptionally competent and enthusiastic short wave tuner and has a remarkable ability in identifying stations, being more or less familiar with several languages. He carries on an extensive correspondence with other listeners in many lands. I have repeatedly observed that all his information is absolutely authentic."

IT seems that many newcomers to the short wave game, especially those who have just commenced tuning on the higher frequencies within the past few months, are somewhat discouraged because they don't seem to be able to hear some of those elusive overseas broadcasters. Perhaps we can offer them some consolation in the fact that this winter in particular has been one of the worst DX seasons on these bands for many years, and with the coming of spring and summer will come much better reception. Reception conditions make a complete cycle from good to bad and back to good in approximately 11.1 years, and engineers tell us we are now experiencing the worse part of this cycle. However, despite the fact we are hearing far less stations than we would like to hear, there are still many good ones to be gotten, but it takes a little patience and careful tuning.

The introduction of telephone service to various South and Central American countries is one of the most important of recent short wave developments. The American Telephone and Telegraph Company eventually will offer service to the Canal Zone, Costa Rica, Guatemala, Honduras and Nicaragua, while circuits are already in operation between Florida and Venezuela, Colombia, Panama and the Bahamas. The Florida link is station WMB, 19.92 meters (15051 kcs.) and situated at Hialeah, near Miami.

YVQ, Maracay, Venezuela, works on the new wavelength of 22.58 meters (13279 kcs.) while Bogota, Colombia, is heard on 20.00 meters (14991 kcs.) through station HJB. The others are RXC, Panama City, Panama, 20.69 meters (14485 kcs.) and VPN, Nassua, Bahamas, on about 65 meters. TIR, Cartago, Costa Rica, has been heard testing again on 7685 kcs. (39.01 m.) after a silence of over a year, and we believe that this station will furnish the Costa Rican link in this chain. We suggest also that you look for TIR on 20.7 meters or 14484 kcs.

Visiting the Ships

Those of you who are interested in listening to the ships have no doubt noticed the increased activity on these channels. Hardly a moment of the day passes but what some ship may be heard, be it Italian, German, British or American vessel. The frequencies used are given in our lists and the call letters of the various ships follow:

DDNY, Albert Ballin; DDDT, Deutschland; DDDX, Hamburg; DDAC, Europa; DDCP, Cap Polonio; DDAS, Bremen; DDFF, Reliance; DDBR, Berlin; DDEA, Cap Ancona; DDCB, Columbus; DDED, New York; DDCG, Resolute; and DDFT, the Oceana. These German ships work with WOO and DAN.

The Italian ships work with WOO and IAC. They are as follows: ICEJ,

Rex; IBEJ, Conte Rosso and IDLI, the Conte de Savoia.

The British and American ships work on the same frequencies and are listed under the general title "British Ships." They use the following calls: GDLJ, Homeric; GFWV, Majestic; GLSQ, Olympic; GMBJ, Empress of Britain; WSBN, Leviathan and WI-EX, the Manhattan. VPSX, the Monarch of Bermuda, works with ZFA, ZFB and WOO.

Advice to Beginners

We have an interesting letter from Charles A. Perdicaro, 75 Berry St., Brooklyn, N. Y. He writes, "I was very happy to read of your intention to start a Short Wave Dept. Short Waves are becoming very popular since the new converters went on the market. Please caution the new listeners into the realm of short waves to have patience and not expect to hear the world at the first sitting. Takes time to learn when to tune in and how to look for stations. I am sending you a list of a few stations that can be depended on as they come thru pretty regular. I have tuned in and heard all of the stations I have mentioned." Mr. Perdicaro submits a very fine list of s. w. broadcast stations with their schedules and his information has been incorporated in our lists.

How to Identify Them

"Just a tip to some of our new short wave listeners," from C. R. Anderson, 1026 First St., N. E., Mason City, Iowa. "The new Caracas, Venezuela, short wave station YV1BC can be identified by its beautiful quarter-hour chimes. This is now on about 49.6 meters. England's station GSA is also on this channel, not helping its tone quality one bit. YVQ on 16.39 meters can be told by a station hum very loud at times and a crackling sound. This is a commercial station. Commercial stations do not care to have listeners write them about their transmissions, so I, for one, do not bother them with correspondence. Your short wave section is fine—keep it up. VK3ME came in yesterday

morning (January 4th) like a local, starting the New Year right." Since Mr. Anderson wrote, YV1BC has moved down to 6119 kcs. or 49 meters.

R. Schmidt, 56 Willow, Hartford, Conn., uses a Stewart-Warner converter with a Silver-Marshall Model J and would like to hear from other Silver-Marshall owners. He writes, "So far have received I2RO, Rome, Italy, and EAQ, Madrid, Spain, with plenty of power. Those are my only two across the water. In the south I have received YV1BC, Caracas, Venezuela, and HKD, Barranquilla, Colombia. For the last two nights YV1BC has come in here at 6:30 and you have to turn the volume down."

"The real reason for this letter is a change in wavelength which I have just stumbled upon. YVQ in Maracay, Venezuela, is now using 22.28 meters, according to their announcement," advises Doyle E. Carpenter, Emmetsburg, Iowa. "Their schedule seems to be irregular. I have heard them talking with Miami, Florida, the last two afternoons at intervals all afternoon. They come in better than



Jane Froman, NBC blues singer, former University of Missouri co-ed, started to be a newspaper-woman. Jane sings each Sunday at 4 p. m. EST over WEA-F chain.

locals and their announcer has fair English considering he is a South American. I have just purchased a new Midwest 16-tube all-wave and would like to hear from readers who use this set."

"Your January RADEX was swell, especially the s. w. log," comments John E. Strong of 1436 Meridian Place, N. W., Washington, D. C. His list of foreign stations includes these good catches: CT3AQ, EAJ7, EAR58, F3ICD, OPM, ORG, SUZ and many others.

Figuring Frequencies

H. W. McCracken, 1 Tyndall Ave., Phillipsburg, N. J., writes, "I received a verification from EAQ, Madrid, Spain, (on a borrowed converter) and they told me they operated on 9868 kcs., with 20 watts power. I noticed you list EAQ on 9862 kcs. Does this make a difference?" (EAQ uses 20 kilowatts. In figuring their frequency they divided the wavelength, 30.4 meters, into 300,000, while we use the figure 299,820, which accounts for the difference in the frequencies.)

"The following are my results on the short waves with a National A. C. SW5, which I have had a little more than a year." Gilbert VanVranken, Jr., 2230 N. El Molino Ave., Pasadena, Calif., continues, "Have heard voice stations in the following places: Spain, England, France, Italy, Germany, Argentina, Colombia, Brazil, New Zealand, Australia, Japan, Java, French Indo-China, Siam, Philippines, Siberia, Honduras, Hawaii, Cuba, Canada and Mexico. Verifications include: EAQ, Pontoise, GBS, G5SW, LSL, LSN, HKN, VK2ME, VK3ME, PLV, J1AA, 6 Canada, Hawaii, etc. Any short wave fan who wants a thrill should listen on 15.93 meters, 2 to 6 p. m., PST, for PLE, Java, which has been testing lately with San Francisco. Sometimes they are like a local b. c. station. They should be, with 60,000 watts. EAQ, Spain, 30.4 meters, is the loudest and most consistent European I can get. Also get Pontoise real well occasionally. My list of unidentified foreign speaking sta-

tions is larger than my identified list. I imagine that this is the case with a lot of s. w. fans. Have heard 20 meter phone amateurs in England and Australia and lots of east coast hams."

The Pontoise Station

We notice that many readers use the call letters FYA in referring to the French station, but we have been advised by Mr. Scholty, the Director of this station, that they use no call, but designate their station by the name "Radio Coloniale." It is popularly called "Pontoise," which is a suburb of Paris and the location of the transmitter. Our lists are being corrected accordingly.

Stuart Walmsley, 1641 W. 60th St., Los Angeles, Calif., sends some highly interesting information. "Pontoise, France, comes on the air every morning at 8 a. m., PST, on 25.2 meters, and they are fairly consistent here in Los Angeles. I have heard LSX on 28.98 meters several times this month, testing with KEZ, Bolinas, around 5 p. m., PST, so evidently they have not gone off the air permanently as many of us thought. PLE, Bandoeng, Java, has been coming in nearly every afternoon for me about 3:30 p. m., PST. They test with W6XN, San Francisco. YV1BMO is one loud station here and at times they pack more wallop than W8XK. Incidentally, I use one of the new Philco All-Wave Model 43B, receivers and I also find your index of short wave stations a helpful addition to RADEX"

A Good List

Richard M. Carter, 1315 Washtenaw Ave., Ann Arbor, Mich., writes that he has received "the usual run of short wave stations." His list includes the following: HKO, HKD, CMCI, YV1BC, HKA, HKN, KKH, GBC, GBK, XDA, VK3ME, EAQ, VRT-ZFB, LSX, XAM, VE9JR, VIY, I2RO, Pontoise, GBS, GBW, DJB, YVQ, GBB, GTSD, GFWV and ICGZ. This is more than a "usual" list, especially because it contains VIY, ICGZ and HKA, as they have now left the air,

(Continued on page 80)

BUILDING RADIO *into the HOME*

... What to Plan for

IN THE home of the future the fullest use and enjoyment of radio will receive as much attention from architects and builders as the other necessities of heating and lighting and refrigeration. No longer will it be necessary to place the radio set where one may conveniently reach the dials. It may even be placed in the basement never to be visited except when a tube or something else goes wrong. All this is indicated in the "Telektor," a device now being manufactured by the Stromberg-Carlson Telephone Manufacturing Company of Rochester, New York, and already installed in hundreds of homes.

The home will not only be completely wired for radio but hidden speakers will be built in the walls of every room. When the resonant tones of a great pipe organ come over the air, a touch of a button will transfer them to a speaker located in the hall or in the stairway where they may be given a volume that will not destroy their naturalness. At present we have to tune the majestic organ down to the volume of a harmonica because its natural volume would be too great for enjoyment.

A phonograph with record-changing equipment will be in constant readiness to supply good music to any room in the house upon the touch of a button. Microphones will be in the circuit so that mistress may speak to maid in any room of the house.

All of this will be possible—is now possible, in fact—through the use of "Telektors" one of which is illustrated. It contains a meter for silent

tuning so that from any room in the house the radio set may be tuned to razor-edge selectivity. Meter and push-buttons are illuminated by the small pilot light. Several buttons are assigned to control the various speakers. Another governs the automatic phonograph. In the illustration eight buttons are assigned to stations so that a mere touch brings in any one of them. Another button sends the dial exploring among the lower channels. The opposite buttons reverses the movement. The volume is controlled by two others and the set is turned on and off by the tenth pair.

A number of "Telektors" may be used, each acting independently of the others. The DXer may take over the control of the dial at any time and the fact that the receiver is being manually operated is indicated by the pilot lights on all the remote controls.

The "Telektor" is now being built into Stromberg-Carlson receivers as a unit so that one may change receivers and transfer the tuning device to the new set. The units are being incorporated not only in beautiful console models but also in a plain steel cabinet which may be placed in basement, attic or closet.

The pick-up and record-shifter is a Stromberg-Carlson product. It plays and shifts standard 10-inch and 12-inch (or mixed sizes) records. A program of nearly three hours may be played without going near the record-shifter.

Thus is radio being adapted to the needs of the home and the comfort and convenience of the family.



TAKING *The* TROUBLE OUT OF RADIO

• • • By the TECHNICAL EDITOR

I HAVE a General Electric model H-31 radio set that has the old type -80 rectifier tube. Would it be possible for me to use the new 82 in place of it?

The mercury vapor tube, type 82, was designed for sets using class B audio amplification. It gives a larger supply of current than the older -80 type. But, since the -80 furnishes sufficient current to operate your set there is nothing to be gained in substituting the 82 for an -80. Also, older sets have certain power unit characteristics suitable for the -80 and not for the 82.

Speaker Is Too Bass

The loud speaker in my RCA Victor model R-10 set seems to give too bass a sound; the high frequencies appear to cut off; and it also lacks brilliance of tone. What can be causing it to sound this way, and how shall I remedy the trouble?

It is probable that some resistor in a grid or plate lead is defective, and therefore causes a partial short circuiting of the higher audio frequencies. A defective detector output condenser will have a similar effect because of a direct shortening of the second detector tube output. Other tone defects may be brought about by the cone resonance in the speaker favoring the lower frequencies in the audio range of vibrations. Correction of the trouble calls for a readjustment of the cone and speaker on the higher frequencies instead of the lows which are more prevalent during the time when adjustment is made at the factory.

Automatic Control Fades

Why does my radio set continue to fade at times with a mushy sound

although it has an automatic volume control which, I have been led to believe, prevents fading of signals?

The trouble with your set is one that is met with in most all cases. Automatic volume control does not offer a guarantee against fading. This arrangement can only be useful between two definite sensitivity limits which are determined by its original design. When natural fading reduces the incoming signal strength below the level of control then actual fading will take place as usual. Mushy sounds are usually caused by the over-powering of the fading signals by other louder and interfering signals on nearby frequencies. If your volume control is set to a certain strength at the time a signal has reached the lowest peak of its fading period then fading will not go



Cesare Sodero, noted orchestral conductor, whose orchestra is heard over NBC-WJZ at 11:30 p. m. Wednesdays and Thursdays

below this intensity, and the volume control will prevent the signal, when it rises, from becoming annoyingly loud.

Attaching Additional Speaker

How can I connect an additional magnetic loud speaker to my RCA Victor receiver without changing or tearing the wiring to pieces?

Procure a thin, wafer adapter and place beneath one of the power tubes in your set. Attach an insulated wire to the plate soldering lug of the adapter and then connect to a .25 microfarad blocking condenser. The other side of the condenser goes to one cord tip of the loud speaker and the other tip should be grounded to the chassis frame. A switch may be placed in one lead of the voice coil of the dynamic speaker so as to cut out the speaker when the additional magnetic cone is operated, if desired.

Using Headphone Adapters

I have a new Majestic 291 receiver and wish to use the ICA headphone adapters at times. Can this be done in my set without damaging the tubes or wiring?

I.C.A. headphone adapter plugs are furnished in both four and five prong types. But when an adapter is plugged in a tube socket it means that a tube has been removed from the circuit and some unbalancing of resistors and power supply has taken place. This is not dangerous, but most manufacturers condemn the practice. The adapter may be inserted in the second detector, first audio, or power tube socket. The phones are connected across the grid of the tube socket and the filament and do not draw much current. See the article on this subject in the February issue.

Auto "B" Eliminator

I use a windmill to run a dynamo which is used to charge a storage battery for my radio. I have wondered whether I can use one of the new auto type "B" battery eliminators in connection with my outfit. Please tell me about these devices and how to use them.



Irene Wicker and Margee Evans in "Jane and Judy" from 3:00 to 3:15 p. m. EST on an NBC split network, daily except Saturday and Sunday.

The new B eliminators made for automobile radio use operate from a 6-volt storage battery and produce from 135 to 180 volts of B potential. But, the higher the B voltage, the lower the output current will be in amperage. When 180 volts are provided the current is about 35 thousandths of an ampere as against about 46 thousandths (35 and 46 milliamperes, respectively) when only 135 volts are taken from the eliminator. You will require, therefore, a 6-volt storage battery capable of standing an output drain of not less than 2.5 amperes per hour. The efficiency of these devices is low, and also there is the rectifier tube to be heated and a magnetic device to be operated. This means that an 80-hour standard storage battery will operate the eliminator approximately 30 continuous hours. Can your charging outfit keep the battery going at this rate?

These eliminators take the 6-volt

battery supply and convert it from the direct flow to a broken, intermittent flow of rapid pulsations by means of a vibrator buzzing at 60 breaks a second to produce 60 cycle current. Such a current, when passed through the primary of a "step-up" transformer, will induce an alternating current in the secondary of much higher voltage. This output must then be rectified with a tube, type -80, and smoothed out to a high potential "B" power supply. The Elkon, Premier and Utah devices are standard, and the makers claim that the vibrator will cause no interference in the radio set.

Using New Tubes in Victor

I am anxious to use, in my RCA Victor radio that now takes three type -27s, three -35s, one -24, two -47s and one -80, some of the new tubes. Please advise me what to use in each socket.

While it is possible to replace all except the -47s and -80 by new tubes it is not entirely advisable, because older sets designed for the



Bruno Walter, one of the world's outstanding conductors, directs New York Philharmonic-Symphony Orchestra on the CBS Sundays from 3 to 5 p. m. EST.

characteristics of older tubes are seldom helped by the use of new tubes as far as audible results are concerned. The most obvious benefit is the reduced current drain on the power unit. You might change the present -27s over to 56s to some advantage without wiring changes. Of course, you can change over to 57s and 58s, but since adapters are needed, the total height of the tubes is increased and the grid caps may not fit beneath the present metal shielding of the set. The oscillator and automatic volume control tubes should not be changed. In no case do we recommend a wholesale discarding of old tubes to make way for new ones, but rather an experimental change of one at a time. Every receiver has its own peculiarities and we can only give general instructions and not individual tube to tube advice.

Rebuilding for Short Waves

Would it be entirely practicable for me to rebuild my Magnavox model J receiver so that it will respond to the short waves? If so, will you please advise me how to go about making the change and tell me what must be altered.

Some Magnavox sets used the variometer method of tuning; others have standard inductance coils consisting of primary and secondary. If your set is the latter it will be possible to make some changes. A tuned-radio-frequency receiver can be altered but a superheterodyne cannot so well. You will not be very successful at this, for such alterations never give good results over the entire short wave band. This holds good for all sets having a t.r.f. circuit.

The most simple method is to remove a few turns of wire from the grid ends of the secondaries of the radio frequency coils—exactly the same number of turns from each coil. This will lower the wave lengths to which the coils will respond. Two or three rotor plates should be taken from the shaft of the variable condensers which will aid tuning and

spread the stations over the dial.

This alteration should enable you to get some amateur and police calls on the lower end of the dial while the regular broadcast stations that were heard on the lower part of the dial will move up to the upper end. Removing still more turns of wire will push the broadcast stations off the upper end of the dial and bring in more short wave stations at the lower end. The lack of proper balance and resonance between all parts of the circuit, however, prevents the set from being efficient on the low waves below 100 meters.

57s Versus -24s

I am thinking of using 57s in place of the -24s in my RCA Radiola model 82. Is the change practicable?

While 57s could be used in place of the -24s, we do not recommend the change, for the gain would not be noticeable. Adapters are needed, and it may be that the shielding over the tubes may not provide sufficient headroom to allow clearance over the tops of the grid caps when adapters are used beneath the new tubes. The only benefit is a saving in current for the 57s draw only 1 ampere as against the 1.75 amperes consumed by the -24s.

PZH Tubes

I saw in a recent issue of RADEX mention of a new adapter made to take the new PZH tube. My local dealer does not know who makes the PZH or what type of tube it is. Can you help me?

The PZH is made by the makers of the PZ tube—the Arcturus Radio Tube Company, Newark, N. J. The PZ is similar to the -47 power pentode. The PZH is likewise similar to the 41 or 42 pentode power tube using 6.3 volts and utilized mostly by automobile radio sets. The adapter takes the 6 prongs of the PZH and inserts them into the 5-hole socket of the standard base. A suitable resistor is connected to the cathode of the top socket for grounding to the chassis.



Renee Rodier of Marseilles of the "Fu Manchu" program, Columbia, Mondays at 8:30 p. m. EST.

46 Tube in Crosley

I have a Crosley model 705 receiver and I should like to use the new 46 tube in place of the present -71A. Do you advise the change?

The 705 model Crosley is a d.c. receiver and as such is adapted only to the use of a -71A power tube. Because of the voltage characteristics of the set you cannot substitute a 46 type for the -71A.

Short Wave Adapter Use

I own a Nathaniel Baldwin receiver and a short wave adapter, but I cannot use the adapter for I do not know what tube in the set is the detector, which must be removed to take the adapter plug. Can you tell me what is the detector from the sketch herewith?

The tube line-up and number seems to indicate a superheterodyne circuit. We have been unable to get more definite information about this receiver. If our belief is the case, the adapter of your short-wave apparatus may be plugged directly into the second detector circuit. No results will be obtained if the plug is inserted in

the first detector. If the circuit is a tuned radio-frequency arrangement there will be but one detector, of course.

While there is no way we can identify the second detector without seeing the set, we believe you should be able to locate it by tracing the circuit. No tuned circuits (tuned by variable condensers) will follow the second detector, and the grid of that tube will be fed from the secondary coil of the last intermediate-frequency stage transformer coil. The plate of the tube will, most likely, feed into the primary of the first audio transformer.

Resistance Value

I have a 1932 Grebe H.S. super-heterodyne receiver and would like to ask what are the values of the volume control and the tone control resistances.

The volume control is a variable resistance of 5,000 ohms, and the tone or color control resistance is also made variable with 100,000 ohms.

25 Cycle Eliminators

Lighting current of 25 cycles only is available to me and I am wondering whether battery eliminators will operate on this low frequency. Where can I obtain 25 cycle apparatus?

Any transformer will work on an alternating current regardless of its frequency or number of cycles. But the design of the apparatus is different for different frequencies, for the resistances of the coils increase in proportion to the number of alternations per second. Therefore, in order to get the proper voltages and reduction of hum you must have eliminators built for 25 cycles. Nearly all large radio supply houses carry such apparatus. Try the following: Radolek Co., 601 W. Randolph St., Chicago; Insuline Corp., 25 Park Place, New York City; Allied Radio, 833 W. Jackson Blvd., Chicago; Wholesale Radio, 100 6th Ave., New York City.

New Tubes in Leutz Set

My Leutz radio receiver was rebuilt at the factory last year to take the -51 type of tubes in place of the original -24s. Now I wish to substitute the new 58s for the -51s. Can this be done?

The only change we recommend is the use of a 56 in place of the one -27 now in your receiver. The -51s in use are similar to the -35s which are more widely used. We are reluctant to advise the change of -51s to 58s in your case, although there are adapters available to convert the 5-prong bases of the -51s to the 6-prong base of the newer 58. But since you state that the manufacturer rebuilt this set once to use the -51 tube in place of the original -24s, we do not know just what wiring changes have been made or the characteristics of the set at the present time. We believe, however, you are getting about all you can out of the receiver with its -51 type tubes.



Nino Martini, phenomenal young Italian tenor whose voice range covers more than two and one-half octaves is the only living singer capable of reaching "F" above high "C" in full voice. With Howard Barlow and Columbia Symphony Orchestra Wednesdays and Fridays at 11:00 p. m. EST.

Was The CRICKET GAME from PARIS?

IT BEGINS to look as if that famous cricket game came to our listeners direct from Paris. It was difficult to believe that the French station would be picked up by so many readers at such widely scattered points particularly at an hour when it was already daylight in Europe. We are communicating with the Paris station, Poste Parisien, and if a reply is received in time, we will add a postscript to this article.

An actual report of announcement comes from Stanley A. Schmuck, 94 Otis St., East Cambridge, Mass., who heard "Ello, ello, ello, ici Poste Parisien." Stanley reports picking up these broadcasts every morning from January 13th to 18th inclusive—a remarkable feat.

Our readers will recall that a number of listeners have reported interference on 915 kcs. which they could not locate. If Poste Parisien was really heard by so many people, then it may be the cause of this reported interference. The world is getting smaller when Paris interferes with Detroit!

Reporting the Game

The game was in Australia where teams representing that country and England were competing. The broadcast evidently was from a description by cable although the rapidity of the action led many of our readers to believe they were hearing a "ring-side" report.

The fullest report of the broadcast comes to us from Theo. S. Peirce, Pinecrest, Clinton, Mass., who says: "The game was played in Australia; minute by minute reports were sent by cable to the Poste Parisien studios where the announcer, Mr. Alan Fairfax, very cleverly described the game from the cablegrams, adding realistic touches and enthusiasm, which made it seem like an actual play-by-play

broadcast at the scene. The broadcast was sponsored by Mr. Arthur E. Whitelaw, Australia House, Strand, London. The game ended about 3:40 a. m. EST. A synopsis and forecast of results of future games in the series was then given, followed by recordings. Finally at about 4:00 a. m. a general sign-off; the announcer said that 'this report has, of course, come from the studios of Poste Parisien; the next game in the series will be broadcast tomorrow morning at 6:00 a. m.' This was repeated in French."

As this is the first European station to be so widely received (if it was Paris), we are giving the names of those reporting it to show the "spread" of the reception.

Some of the Listeners

Bill Vornkahl, Westport, Conn. Warren Snyder, 2125 First St., N. W., Washington, D. C. Chas. L. Morgan, 800 East 179th St., New York City. L. E. Wallace, 110 N. Duval St., Tallahassee, Fla. Mrs. Jessie Alberta Weaver, 370 Central Park West, New York City. Derek Wharton, 22 Elmwood Ave., Rye, N. Y. Daniel C. Looby, 1414 E. Cheltenham Ave., Philadelphia, Pa. Robert Hough, 25 Ellenton Ave., New Rochelle, N. Y. R. R. Rawstron, Claremont, N. H. Edward F. Gross, 666 Park Place, Brooklyn, N. Y. J. Louis Dawson, West Cape May, N. J. Richard M. Carter, 1315 Washtenaw Ave., Ann Arbor, Mich. Douglas Wauchope, 501 S. Candler St., Decatur, Ga.

The First Confirmation

P. S. First confirmation comes from Earl R. Roberts, 105 Gumber Ave., Cambridge, Ohio. On January 12th he received a letter from Poste Parisien, Paris, France. It was translated from the French as follows:

"Monsieur: We have the honor to

notify you of the reception of your letter of December 6th for which we thank you very much. These are our broadcasts which you have heard. The game to which you make allusion is the cricket matches played in Australia. Kindly accept, Monsieur, the expression of our sincere sentiments. (Signed) Poste Parisien."

The station is owned by Compagnie Generale D'Energie Radio-Electrique. The address is Siege Social: 4, Rue du General-Foy, Paris (8 e).

Here is the first chance, Radexers, where we have been able to recommend an opportunity of tuning in Europe on the broadcast band. Try for Poste Parisien on 914 kcs. between 1:00 a. m. and 4:00 a. m. EST.

Those who have heard what they thought was a Cuban station on 915 kcs. should tune carefully and perhaps they will bring in Poste Parisien.

Our Second Postscript

P. S. There seems to be no further doubt that those who heard the reports of this cricket game were listening to Poste Parisien on 914 kcs. It did not seem probable that so many readers in so many different sections would pick up this European station but it is the only one we have been able to find which broadcast these games and its frequency is that reported by all listeners. R. R. Rawstron, Claremont, N. H., and Stanley Nevin, South Hadley Center, Mass., both send us letters from Fleming & Whitelaw, Australia House, London, England, which say: "The station to which you were listening was not 4RK in Rockhampton, Australia, but Poste Parisien, Paris. Cables were despatched every minute by a commentator in Australia and these in turn were read by Mr. Alan Fairfax from the Poste Parisien Studio. The broadcast was sponsored by Mr. A. E. Whitelaw, the well-known Australian importer of Preservene Soap into Great Britain."

So like the defeated candidates on election day, we "concede" the reception of Poste Parisien.

That 1430 Channel . .

WITH regard to the attempted synchronization of the Columbia stations on 1430 kcs. C. M. Falconer makes this comment:

"I am informed by the Supervisor of Radio that there never was any synchronization such as that employed by WBZ-WBZA, WJZ-WBAL and WEAF-WTIC. In these three cases the emission was truly synchronized, a special frequency being employed for the purpose. It was thus impossible for either of the two stations involved to receive anything but identical stuff. The unsatisfactory results were traced to causes beyond control in the present state of knowledge, as they consisted in erratic behavior of waves reflected from the Heaviside Layer, and the question of the location of the receiver also entered into the situation. With the stations on 1430 it was simultaneous broadcasting. The theory was that if they all took the same program from the Columbia Chain, and were all strictly on their assigned frequency, there would be no interference. But such, unfortunately, did not prove to be the case. I do not know whether anything was done to compensate for differences of resistance in the communication wires, caused by varying distances; but I have been informed that results might have been better had all the transmitters been identical in construction."

We are changing our symbols to show division of time on this channel rather than synchronization. This undoubtedly reflects the actual situation more accurately.

The debate on the DX rules will appear in the April issue. An effort is being made to form a committee from the clubs to study the question.

LETTER WRITING for SPANISH STATIONS

WHEN a person tries to write a letter in a language with which he is unfamiliar, the result is apt to be as amusing as Wallace Irwin's "Letters from a Japanese Schoolboy." On the other hand there is little use in writing letters in a language which the recipient

cannot read. Earl R. Roberts, 105 Gomer Ave., Cambridge, Ohio, sends us the following form letter taken from a bulletin of the Atlantic Radio Club. It was published for the use of their members in reporting reception to Spanish-speaking stations.

(English translation)

Chief Engineer,
Radio Station (Call)

My dear Sir:

I have just had the great pleasure of hearing your station (Call) on —kcs. and on the log below I am giving you some of the selections I listened to. Will you be so kind as to check this with your station log and send me a verification of my reception?

Ingeniero en Jefe,
Estacion Radiodifusora (Call)
(City and Country)
Muy Estimado Sr.:

Acabo de tener el gran placer de oír su estacion radiodifusora (Call) en —kcs. y a continuacion me permito darle la lista de unas de las muchas selecciones que me ha sido grato sintonizar. Le quedaria altamente agradacido si Vd. pudiese hacerme el favor de comprobar mi audicion con sus radiodifusiones y mandarme confirmacion de mi recepcion.

1. Seleccion de orquesta
2. " de piano
3. " de violin
4. " de organa
5. " de marimba
6. " de acordeon
7. Solo vocal (Senor)
8. " (Dama)
9. Coro
10. Musica clasica
11. " popular
12. " nacional
13. " de baile
14. Fox trot
15. Marcha
16. Vals
17. Habla
18. Anuncios de la Estacion
19. Volumen-debil
20. " -mediano
21. " -fuerte
22. Calidad de tono-mala
23. " de tono-buena
24. Condiciones atmosfericas-buenas
25. " -malas
26. Musica Americana
27. Musica Espanol
28. Guitarr
29. Duo Trio
30. La Vez

1. Orchestral selection
2. Piano
3. Violin
4. Organ
5. Marimba
6. Accordion
7. Vocal solo (man)
8. " (woman)
9. " chorus
10. Classical music
11. Popular
12. Native
13. Dance music
14. Fox trot
15. March
16. Waltz
17. Talking
18. Station announcement
19. Faint volume
20. Good volume
21. Great volume
22. Tone quality poor
23. " good
24. Atmospheric conditions good
25. Atmospheric conditions bad
26. American music
27. Spanish music
28. Guitar
29. Duet Trio
30. The time

Anticipandole mis mas efusivas gracias, abrigo la esperanza de enviarle otro reporte dentro de poco tiempo y me ofrezco de Vd.

Afmo. atto. y. s. s.

Thanking you in advance for your verification and hoping to send you another report in the near future, I am

Yours very truly,

"THIS IS WHAT I THINK..."

• • • *Suggestions and Criticisms*

WE ARE planning two innovations in coming issues which we believe our readers will welcome heartily. We will drop the regular Index by Frequencies in the May and June issues and in its place we will have in the May number a complete list of stations by frequencies with their mail addresses, the slogans they use on the air, the hotels or other buildings in which their studios are located and which are mentioned in their announcements. We feel that this feature will be of very great help in identifying those tantalizing stations whose call letters cannot be quite distinguished. This list will not appear again and our readers should be sure to save the May edition for their future DXing.

In June the Index by Frequencies will be a composite list of all the broadcasting stations of the world. That is, on the 1500 channel, for instance, there will be found not only the stations of North America but also those of Europe, Asia, South America, Africa and Oceania which use that channel. This number, too, should be carefully preserved. We think this is the first time such a list of stations has ever appeared in print and it may be the last.

Make a note now not to miss the May and June issues for these two numbers will be an invaluable addition to any listener's library.

Using the New Tubes

The articles regarding the substitution of the new type tubes in place of the old, aroused much interest. It must be understood that the new tubes will give their maximum value only in sets especially designed for them. In many older sets, a considerable increase in efficiency over the old tubes may be secured by using the newer types with suitable adapt-

ers. In such cases the work is more or less experimental but a number of readers are reporting greatly increased efficiency. "I replaced all the tubes -45 and -24 in my old set," writes Jesse Lausman, 717 S. Shelby Street, Louisville, Ky. "The new type Majestic tubes, 2-46, 4-57 and 1-80 increased the efficiency of my Majestic No. 131 super-screen-grid set tremendously. All stations up to 2000 miles now come in without using the distance switch and I added two great catches to my stock of verifications—CJCA, Edmonton, Alberta, and KGU, Honolulu, Hawaii."

That Distance Formula

In our January issues, R. C. Myretetus of Collingswood, N. J., suggested a mathematical formula for measuring the value of reception. This was an interesting device and several readers have submitted the ratings of their best catches; A. L. Hynes, Clarendville, Newfoundland, has CFRC 50 w. 1100 miles rating 22.00; Harry M. Gordon, Erie, Pa., CKFC 50 w. 2316 miles rating 46.03; Albert Sandham, St. Catharines, Ont., CMGE 30 w. 1500 miles rating 50.00; Frank E. Switalski, Cincinnati, 10AB 25 w. 1280 miles rating 51.2 and Eugene G. Shook, Terre Haute, WNBW 10 w. 635 miles rating 63.5.

Some readers object to the formula pointing out that a 5000-watt station 5000 miles away would have a factor of only 1, while Mr. Shook's 10-watter gives 63.5. Some suggest that the distance should be squared before dividing by the power but this would place too much emphasis on the distance. It is probably true that there are too many other factors in radio reception besides distance and power to permit any kind of a mathematical formula. Using that suggested by Mr. Myretetus, all of the

following catches have the factor of 50; do our readers think they all have the same value as catches? A 200-watt station 10,000 miles distant, a 100-watter 5000 miles; a 50-watter 2500 miles and a ten-watter 500 miles?

"The department in RADEX showing time on the air is a wonderful help," concedes A. L. Long, 523 N. Dewey, Oklahoma City, "but it would be a great deal more of a help if the times were shown in the Index by Frequencies instead of the Index by Call Letters. Then when I am tuning (which is done by frequencies and not by call letters) I can see at a glance what stations on any frequency are on the air at the time I am tuning. I know that such a change would help me to get many stations that I have not received and I believe such a change would be appreciated by a great many radio fans all over the country." Mr. Long makes an excellent point and we will certainly consider it at the beginning of the next radio season. We have felt that listing the owners in the Index by Frequencies was a help in identifying station announcements but we are not sure the time on the air would not be more valuable than the names of owners and the latter might be relegated to the Index by Call Letters.

Does KZRM Verify?

"You mention that KZRM does not verify," writes L. F. Stetson, 3420 Janssen Ave., Chicago, Ill. "I have a verification from KZRM and it is a card well worth having in one's collection. The card or 'QSL' is blue in color and the letters 'KZRM' are in heavy red type in the center. It is signed by B. H. Silen, Manager. Here is some dope on the station: When signing off they always bid you 'Mabuhay' (pronounced mah-boo-high). I had written them four times, having heard their program that many times, each time giving in detail what was heard, and I believe they will not verify unless they are heard three successive times, and the log must be correct."



Little Dink and Uncle Sims of Roark Bradford's "John Henry" stories, on CBS at 8:00 and 8:45 p. m. EST.

"I have been a steady reader of RADEX several years and have never found cause for question until now," comments P. O. Seiser, 196 Harborview Ave., Bridgeport, Conn. "In the December issue you said Station KZRM, Manila, P. I., does not verify. They do, if you get them, by a special card with KZRM in large red letters. I would like to hear of others who actually received KZRM on 618.5 with loud speaker. My verification is dated March 31st, 1932." On our questionnaire which KZRM filled out and returned to us, one question was "Do you verify reception for your listeners upon receipt of accurate report and return postage?" and the answer written in is "No." Information regarding verifications in our index is that given us by the station itself. We have been careful to avoid changing our data upon receipt of information from listeners because we want to show the rule and not some exceptions.

"I enjoy RADEX very much but I

have a criticism to make," observes Joe W. Swadley, Jr., Box 103, Primrose, Nebraska. "I am a DXer and have a log of more than 200 stations in 37 states and three provinces but I think you pay too much attention to your DX column and not enough to programs. You could devote twice the space you use to the program list. You should give every program carried by the chains including the Orange, Gold and Dixie networks. Programs and entertainment are what the majority of radio listeners, yes, a good majority of your readers, are interested in." The same mail brings a letter from another reader who suggests that we drop the programs entirely and give that space to DX! To give all the programs of all the chains, would require every page of RADEX. We are trying to strike a balance that will be satisfactory to the greatest number.

Measuring Distances

Every now and then some reader asks us to publish a table of distances. Older readers will remember that we formerly published such a table. In a book of our size only forty or fifty cities can be shown and hence only a small fraction of our readers can be served. We abandoned the table for the Map of North America which contains a mileage measure so that the distance between any two cities can be measured. We find this very much more satisfactory than any table that can be devised. This replies to Wm. M. Smith, 201 Stone St., Johnstown, Pa., who says he is a 69 year old Radexer and has copies back to February, 1931, which he prizes as much as he does his fishing tackle and that is the joy of his life.

Building Sets

"I am especially interested in the letters you publish from makers of small sets," comments Wm. Dyke, 1200 Western Ave., Effingham, Ill. "I have built lots of them, none over four tubes. I think you should enlarge the space devoted to experiments with small sets. Though I have

made lots of small sets, I have never sold one nor tried to; have four in the house now." Mr. Dyke is more than 80 years old and greatly enjoys his radio work.

"Your letter saved me at least \$3.00," writes H. J. Jandron, 77 Marion Road, Watertown, Mass., to the Technical Editor. "This is a good example of the service RADEX is giving to its readers."

Harry M. Gordon, 1002 Parade Street, Erie, Pa., suggests a new championship. "Who has the most back issues of RADEX in his radio library? I have twenty-two."

Annoying Interference

Several Radexers complain of interference with WTAM on 1070 kcs. and a few of them are sure it is a Spanish-speaking station. It hardly seems that the two low-powered Cubans known to be on this wave could be making the mischief. Neither does it come from the stations on 1060, 1080 or KMOX on 1090 although these have a serious heterodyne in some locations. The 770 channel is also very badly muddled up. For some reason the Radio Commission permits KFAB Lincoln and WBBM Chicago to use this wave together during the daytime. These stations are altogether too powerful and too close together geographically to use the same channel at the same time and the result is, like the Kilkenney cats, the two stations destroy each other during daylight hours in a large portion of the Middle West. As if two powerful stations on one wave were not enough, a number complain there is still another interfering signal on this channel.

"What powerful station," inquires Daniel C. Looby, Secy., Atlantic Radio Club, 1414 E. Cheltenham Ave., Philadelphia, Pa., "was interfering badly with WBBM on 770 kcs. at about 1:19 A. M. EST, Friday, December 30th? This station was playing dance music and signed off about 2:00 A. M. EST. WBBM was on till 3:00, so I was unable to get the call letters. Another S.O.S.!

Do you know anything about a station on 810 kcs. talking about wires, etc., Tuesday morning, December 6th, at 2:00 A.M. EST, using the call EQ7? A number of members have also reported this station which gave no location. About every five minutes they would say 'EQ7 signing off till the next period. So long.' Then they would come back on the air about two minutes later and broadcast for about five minutes and sign off again."

In a later letter Mr. Looby answers his own question by saying that he has decided it is CMCQ off his 780 frequency which is interfering with WBBM.

E. G. Shook, Terre Haute, Ind., says: "On the morning of December 28th, I was listening to WBBM at 12:45 to 1:00 A.M. CST. I thought I heard another station crowding in but it was very faint. I moved the dial back and forth but the station came in almost directly on WBBM. At 12:56 the unknown station almost crowded WBBM out but the strength of WBBM finally won and the other station slowly faded away."

Uses Ocean for Aerial

"I have been experimenting with a new system of aerals out here on the west coast," writes Richard D. Caddell, 1115 Pender St. West, Van-

couver, B. C., "and I have just discovered that an aerial I have been using lately cuts out fading and static better than any other type of aerial that I have ever used. I live right alongside the ocean, and the other day I took 150 feet of aerial wire and strung it between two floats in the ocean, so that no part of the aerial is above the water. The aerial is submerged about 15 feet below the surface of the ocean, including the lead-in, and I can truthfully say it beats anything that I have ever tried in the line of aerals yet, and believe me, I've tried plenty. This ocean or under-water aerial that I am now using is certainly a big improvement over the overhead or underground aerial, because there is practically no static or interference below the water level, like there is on dry land, and not nearly as much fading. The signal strength has also been increased about 25% with this aerial, especially on distant stations."

Wants Help with "Mercury"

"I would be greatly obliged if you could give me some information about the 1932 model Mercury Diplomat, a receiver made by the H. M. Kipp Co., Ltd., of Toronto," writes C. G. Briggs, 296 Vernon Road, St. James, Winnipeg, Manitoba. "This superheterodyne model employs 5-27, 2-24, 3-35,

Though a comedian, Jimmy Lyons is reputedly an intensive worrier and being "Editor of the Sunday Gazette" is a serious proposition. Jimmy propounds his own views on the news every week during the Sunday Matinee of the Air—CBS 2:30-3:00 p. m. EST.



1-80 and one 12-10 Amperite. I would like to have a wiring diagram of the set and also complete instructions on how to shield the wiring and what material would be necessary. I have had considerable trouble with this receiver lately. One channel interferes with the adjoining one. This model has adjustable i. f. transformers at the back of the chassis and two servicemen that have had it for adjustment lately, do not seem to understand it. Can I improve this circuit by using -56, -57 and -58 tubes to replace types -27, -24 and -35?" Can any of our Canadian readers who have similar sets advise Mr. Briggs who states that the manufacturers are no longer in business.

Makes DX Records

"I have an RCA Victor RE 20, with, of course, an attachment for making transcriptions either from the air or through the microphone," advises Mrs. Jessie A. Weaver, 370 Central Park West, New York, N. Y. "I have made records and sent them to WKAQ, San Juan; WJAX, Jacksonville; CMCR and CMCW, Havana.

Have not had time to hear from Havana, but Mr. Agusty, of WKAQ, was interested, as was KSL, Salt Lake City. The latter printed a small article in the KSL News, of October 30th, in part: 'These records, clear reproductions of the test program, reached KSL well in advance of the dedicatory program of October 22nd.' It surely is an interesting record of a program to keep. I made one from WKAQ at slow speed that runs for 7½ minutes. There is music, announcements and a short description of the havoc the hurricane wrought."

Another Feminine Fan

"Just another young lady who is a real radio nut," admits Marian Canniff, 2112 S. Cedar St., Lansing, Mich. "Although I have been interested in radio ever since 1924, when I had a Radiodyne and crystal sets galore, I have never been a real dyed-in-the-wool DXer. Didn't stay up late enough. I regret now that I didn't, taking advantage of having a Radiodyne, a 6-tube set, which was capable of bringing in good distances. Your article about the old days of radio

surely brought back memories to me, too. Wish I had one or two copies, at least, of your RADEX of 1924 or 1925."

"About LR4," writes Robert Rosenberger, 17 Janssen Place, Kansas City, Mo., "I think it should be included in your log, just like YV1BC is. Their verification states their power is 20 kilowatts. Their time on the air is 'Transmite diaramente de 11 a 24 (hora Argentina).' They are at Callaco 1526, in Buenos Aires. I have this month received also the station in Limoges, France, and I'm pretty sure about ZP1, for they kept saying 'City of Tomississ' and also HJN. These make for me every country of South America, except Peru, so when can I catch OAX?"

Heard on Two Channels

"C. H. P.," Blenheim, Ontario, is puzzled by the receipt of CFCO, Chat-ham, Ont., with exceptional volume and clarity on 870 kcs. where WLS comes in on the dial. CFCO was formerly on 1210 but has recently moved to 1010 but we cannot say why their program should be picked up on 870. Since their move to 1010, they are being heard in Cleveland, at least, regularly and with good volume. "C. H. P." states that the phenomenon of CFCO being heard on 870 was mentioned by the announcer of WLS. Can some one figure a harmonic out of this?"

"I heard a station on 750 say 'This is EQ7 Lansing, calling EW7 Jackson.' About a week later I heard him again saying, 'EQ7 signing off until next period K.' What kind of a station is this and what is it doing with a call beginning with E?" asks Richard M. Carter, 1315 Washtenaw Ave., Ann Arbor, Mich. This is the same call reported by Mr. Looby. We have had other inquiries in regard to this "EQ7". Who knows him and what is he doing in the broadcast band?

"Several mornings I had tuned in 1220 kcs. and heard a police report. Early this morning I heard call letters announced and they sounded like

WPEF. Does anyone know of this station?" asks Mrs. Jessie A. Weaver, 370 Central Park West, New York, N. Y. "I believe I would feel better about hearing, 'There are burglars in Apartment 1C,' as I did this morning, if I knew where the station is."

Who Can Answer These?

"I had an RCA 82 and last year, just before I broke up housekeeping, I sold the set," comments H. W. McCracken 1 Tyndall Ave., Phillipsburg, N. J. "Now I am in the market for a combination short and long-wave. Can you give me a tip on what I should buy. I want one that will pull in everything possible."

"Has any other reader an RCA-Victor R-74 with which they have used a short wave converter?" inquires Rene Fraenkel, 69 Congress Street, Newark, N. J. "Can you tell me the types of tubes used with the Atwater Kent, S. W. Converter, Model 93?" Respectfully referred to our readers.

"I wonder if anyone heard the same thing I did at about 6:00 A.M. CST, January 1st," inquires R. V. Heinzelmann, 880 Grosvenor Ave., Winnipeg, Man. "It was on about 1350 kcs., and the program, as far as I could hear, was as follows: 6:08, large chorus, and then a talk in which the speaker talked about changing prices to end the depression, then asked if they expected him to end it; 6:15, music (banjo) and man singing; then the chorus again, and again at 6:20. The station faded as if it were a foreigner."

Mystery on 725

"This morning, Tuesday, January 17th, I had a station on about 725 kcs., one that completely mystified me inasmuch as heavy static prevented me from identifying it," reports Edward F. Goss, 666 Park Place, Brooklyn, N. Y. "I came upon it at 2:20 A.M. and tried unsuccessfully till 3 A.M. to get its call. There were an orchestra and vocal selections, and at 3 A.M. I lost the program in the, by now, intense static. RADEX has no stations on 725 kcs.

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and I am in doubt whether it was one of the Vancouver 100-watters or possibly a trans-Atlantic station. It could hardly have been any of the more powerful stations around 730 kcys., as KMPC, a 500-watter from Beverly Hills, Cal., was coming in like a load of bricks on 710 kcys., much louder than my unknown station. Did any of the gang hear it?"

Modernizing RCA 60

"There is cheering news for our friends that are still using an RCA 60, model 1928," announces Rudolph Kure, 3633 Vine Street, Clifton, Cincinnati. "Don't throw away the 'old heap', rejuvenate it instead. The result will be astonishing. Changing the wiring of this old-fashioned set, which is a simple matter, and replacing the 171-A with a 245 will improve the set immensely. By employing an adapter the 247 Pentode tube also can be used. The tone quality produced by the 247 is not as good as that of the 245. Either the 247 with more volume and slightly inferior tone quality or the 245 with less volume and a clearer signal. Take your choice. The 247 requires sharper tuning, in fact a station that transmits a sharply tuned signal may be easily leaped when employing the 247."

Some New JO's

New stations in Japan which will be on the air soon if they are not there already are as follows: JOBK No. 2, Osaka, and JOCK No. 2, Nagoya, both with ten kilowatts but frequencies unknown; JOAG, Nagasaki, 930 kcys., 500 watts; JOBG, Maebashi, 970 kcys., 500 watts; JOCG, Asahigawa, 655 kcys., 300 watts; JODG, Hamamatsu, 635 kcys., 300 watts; JOFG, Fukui, 990 kcys., 500 watts; JOXK, Tokushima, 980 kcys., 500 watts; JFKB, Tainan, Formosa, 720 kcys., 1000 watts; JQAK, Dairen, 760 kcys., 500 watts; JFBK, Tainan, Formosa, 720 kcys., 1000 watts; and ZILY, Hoten, Mukden, Manchuria, 900 kcys., 1500 watts.

From the tip sheet of the New England Radio Club: "The informa-

tion comes from the City of Fort Morgan, Colo., that KGEW is no longer broadcasting." Will some of our western readers please verify this? We surely do like to cross them off on these crowded channels. The trouble is most of them go into court. The following stations are now in court trying to make the FRC keep their hands off them: KFH, Wichita; KGEF, Los Angeles; KGMP, Elk City; WBAK, Harrisburg; WHP, Harrisburg; WIBO, Chicago; WJKS, Gary; WLOE, Boston; WMCA, New York; WNJ, Newark; WNYC, New York; WOQ, Kansas City; WPCB, New York; WERE, Erie.

On the Longer Waves

"Tell Mr. Sutfin of Hornell, N. Y., that I receive the long-wave European stations," says Eddie Grant, North Sydney, Nova Scotia. "I have a Victor, Model R-32, ten tubes. I receive G2LO, G2ZY, G6BM, G2BD, G5SC, 2RN, Athlone, OKR, OKP, CT1AA, SCF, SBB, F8GC, Poste Parisien, Beziere, Heilsburg and Stuttgart, Germany, and Beromuenster in Switzerland. Mr. Sutfin may write me if he wants more information on the European stations, especially the British Broadcasting Company stations."

"I note you have in the January issue a little on the longer waves," says Robert R. Rawstron, 296 Main St., Claremont, N. H. "TFU on 250 kcys. with 17 KW of power broadcast daily from 3 to 6 A.M. EST, and Saturday and Sundays till 8 A.M., according to word from them. The address is, TFU, Box 547, Reykjavik, Iceland."

Are They Outlaws

"Concerning the broadcasting station in the Southern Hotel, Denton, Texas," advises Burney McClurkan, 804 N. Locust St., Denton, Texas, "the call letters are DNTX. Their frequency is 960 kcys. The owner of this station is R. E. Turner. DNTX does not have a Federal Radio Commission license. It has a 50-watt transmitter, but is allowed to use a power of only 5 watts. They are not

supposed to be heard outside the State of Texas. Their hours of broadcast are weekdays 10 A.M. to 2 P.M. CST; Sundays, 8:30 A.M. to 11 A.M., and 1:30 P.M. to 5 P.M. CST."

Another outlaw station, evidently the old WAIR of New Philadelphia, Ohio, is reported by Miss Lilian M. Bethel, 323 First St., N. E., Massillon, Ohio. "WJM, Massillon, Ohio, is located in Lincoln Hotel and operating at this time on 860 kcys. using, I believe, ten watts power. They have used 850, 840 and 830 and now 860. They are using a lot of records but are having daily auditions for talent. They are also doing some local advertising. Ray Wilson is manager of the station."

Some Station Notes

"Upon listening to CMJK, Camaguey, Cuba," says Ansel Gridley, Box 1294, Sarasota, Fla., "I received the following information: CMJK was directly in the path of the cyclone that swept through Cuba, and they have just recently reconstructed their transmitter, and this was a test program. CMJK is located in the editorial room of the local newspaper, El Camagueyano, or The Camagueyano. The mail address of the station is P. O. Box 320, Camaguey, Cuba."

"What is CNRO doing on 635 kcys.?" asks Douglas Wauchope, 501 S. Candler St., Decatur, Ga. "The report that we are operating on 635 kcys. is in error," replies CNRO. "We are still operating on a frequency of 600 kcys. 500 meters."

Station CKPR, Fort William, Ontario, tells us that the reports that they are broadcasting on 650 kcys. are incorrect; that they are still on 890 and adhering to that frequency as closely as modern methods will permit.

"We anticipate a change of frequency from our present 880 kcys. to 930," writes CKPC, Preston, Ont. This station will present a DX program on the morning of Saturday, March 11th from 2:00 to 5:00 A.M. EST, but we are not certain whether

they will be found on 880 or 930 channel.

WXYZ, Detroit, is to be key station of a new Michigan network. Other stations are WOOD-WASH, Grand Rapids; WIBM, Jackson; WELL, Battle Creek; WKZO, Kalamazoo; and WFDF, Flint.

Station CMGE writes the Atlantic Radio Club that they are still on 1340 kcys. but expect to move to 1375 very soon.

Station CNRA, Moncton, N. B., asks for information as to what station on 630 kcys. is interfering with their signals.

KGER, Long Beach, Calif., broadcasts DX tips on 1360 kcys., beginning at midnight, PST.

WFIW may move from Hopkinsville, Kentucky, to Louisville, the Chief Examiner of the FRC having approved the application. WLAP will probably object as it has asked for WFIW's present channel and increased power.

"In a late paper I saw that WSAJ, Grove City, claims that station is six months older than KDKA. How so?" asks Fred Stone, Kintnersville, Pa. We'll have to refer that question to the historians. "Is there a station at Easton, Pa.? I heard him announce as WEAS." No record of any b. c. station in Easton and the last book of s. w. stations makes no mention of Easton.

Just Idiosyncrasies

"The fact that low-power stations are often louder than much larger stations in the same city is sure noticeable," says Gilbert Van Vranken, Jr., 2230 E. El Molino Ave., Pasadena, Calif. "KGMB is often extremely loud when KGU's carrier is barely audible and KGU has ten times the output. WBBC, New York, is far louder than WEAJ or WJZ, yet WEAJ has one hundred times as much power. Also get KFLV louder than WENR, and WFIW louder than WHAS."

"I have found that putting a rheo-

(Continued on page 79)

MONTHLY MEETING of DX Club

• • • Thrills and Disappointments

WITH the widely reported reception of Poste Parisien as described in the article on the now famous cricket matches, it is evident that more and more of our readers may be a little more hopeful of tuning in some of the Europeans. Trans-Atlantic stations however for most of us still remain one of those 100-to-1 shots. "Why can't I get foreign stations?" is the plaintive demand we frequently hear. "Others with no better locations than mine and some using the same set I have, are reporting them; why can't I?" Even Solomon with all his wisdom couldn't answer this one. We doubt not that many of those reporting reception of across-the-pond stations have neighbors with the same make of receiver who don't get them. It's just one of those things in radio.

Foreign Data Helpful

"I could see no reason," writes Robert Hough, 26 Ellenton Ave., New Rochelle, N. Y., "for including the European stations in your lists until I accidentally stumbled on two German stations Wednesday morning, January 4th, and one German station Thursday morning, January 5th. Wednesday I had Dresden on 932 kcs. and Frankfurt-am-Main on 1157 kcs., both with enough volume to be heard all over the ground floor. Stuttgart on 832 on Thursday was just as loud. What I want to know is how to address them when they have no call letters? Have you by any chance their addresses? Frankfurt announced in English as well as German, but the other two signed off in German and it was only through my smattering knowledge of German as picked up via short wave, that I was able to make out the cities. There was no guess work, as I received them so unexpectedly and just as they were

signing off, so had no time to look them up. I had no idea of their location; in fact, I thought they must be U. S. stations announcing in German and waited for the English announcement."

We receive radio publications from England, Switzerland, and several other countries but not one of them gives the mail addresses for the European stations. Perhaps some of our other readers can tell Robert how to address his stations.

"Last Saturday morning," writes Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio, "I was delighted to pick up the program of Heilsberg, Germany, from 1:20 to 2:25 A.M. EST, on 1157 kcs., with really fair volume. I have plenty for verification—organ, concert orchestra, opera singers, talks in German, etc. The fading was very rapid, exactly as Paris did after 2 A.M., but for only a short time were the signals inaudible. After 2:00 the signals were noticeably weaker and more apt to fade for longer intervals. A DXer in Rye, N. Y., has veris from several German stations which he gets daily from 1:00 to 2:30 A.M. I am taking his word that it was Heilsberg, and not Frankfurt, I received, since he has them verified. On the other side of the world I succeeded in adding 2BL, 2YA and 5CK, of which the latter was far the best, on December 27th from 5:00 to 5:50 A.M., with a church program. I deducted one more from the total of U. S. unheard, bringing that list to only 30 by logging KIDW. CMJK came in fine on a DX Sunday."

From South Dakota

"May I tell you about my DXing?" asks Mrs. Myron Pierce, Philip, S. Dak. "Don't remember seeing any letters in your magazine from South Dakota. Our closest station is about

100 miles distant. Our radio is a Majestic Model 20 superhet., 8 tubes. In the twenty-one months we have had it have received nearly 300 stations. Haven't done so much late night or early morning DXing as my husband doesn't seem to appreciate noises all times of the night. I am just a mere woman. Would sure like to get Alaska. Have tried several times, but have never heard them announce. I believe our Majestic to be one of the most selective radios I have ever seen. The other night just before dark, I separated XER, WSB and WJR. Don't you think that is rather good when XER is so loud here and WSB so far away? We live west of the river between Rapid City and Pierre, S. Dak."

Rules of the NNRC

"Perhaps your readers might be interested in learning that the Newark News Radio Club accepts members from any country or hemisphere," suggests Alfred W. Oppel, Executive Secretary, 215 Market Street, Newark, N. J. "To date we have a membership of more than 1800. The dues are \$2.00 the first year and \$1.00 thereafter, annually. New members receive a gold membership button and card. Our distant members receive a copy weekly of the Wednesday issue of the Newark News, wherein are printed the DX tips and programs for seven days in advance. Air mail service is provided for those members desiring same, if they remit the cost. We have five classifications of DX certificates: Junior, Master, Past-Master, Ace and Super-Ace. Ratings and qualifications for these certificates are based on geographical locations of our members. Therefore, no NNRC member may fail to acquire one of these ratings, if he is eligible. NNRC club stickers and stationery can be purchased by the member at a small cost. Eighteen radio stations from coast to coast and twelve newspapers dispense NNRC DX tips for the convenience of DXers in general."



Boake Carter is Philco's news editorialist, being on the air five times weekly on CBS Monday to Friday inclusive at 7:45 p. m. EST.

"Raymond M. Bell says to try for English stations at 7:00 P.M. EST," writes A. L. Hynes, Clarendville, Newfoundland. "Might say all these mentioned close down every night at midnight GMT (7 P.M. EST). These stations, including French, German and Italian, with many other European, always come in regularly with us any time after sunset, some of them as early as 2:30 P.M. I have received verifications from several 500-watters in California this month. I never try to get a verification unless I'm absolutely sure of the station, and don't get any verifications from any station in U. S. A. or Canada using over 1000 watts power. I've been getting KTM, Los Angeles (3350 miles) regularly every morning at 7:30. VONF are now on 1195 kcs. every evening 6:30 to 8:00 P.M. (5:00 to 6:30 EST). VOGY are still on 910 kcs. I'm using a Philco 7-tube battery-operated superhet., model 35."

Three Receive 2KO

T. Colegrove, Frankfort, Mich., writes: "I just received a verification from 2KO who has this to say: 'It is rather interesting that we should have received three reports from the U. S. A. in the same mail, two from California and yours—the dates being October 13th, 17th and 19th and that these are the only reports we have received from the U. S. during the last six months although, once prior to that date, we received two reports within a few days of each other when the station was operating on a power of only nine watts in the aerial.'"

"Evidently the power of the Australians who give their aerial power should be multiplied by two in order to compare it with stations which give their output power as 2KO says his aerial power is now 100 watts."

Too Many Japs

The old proverb has it that one man's meat is another man's poison. Here's a reader who receives so many JO's that they annoy him!

"I notice there is quite a discussion on the Japs," comments H. N. Delmonico, 1475 Trimble St., Vancouver, B. C. "Regarding them, all I can say is that they are a darn nuisance to me. My record is fourteen Japs in one night on a Scott All-Wave. In fact, I can get them nearly any night, but at times the static is too heavy, and they are not worth listening to. Other nights they just pound in, but the average person will give it up as a bad job, for most of their stations are on a chain, and they are very shy on announcing in English. After months of listening I managed to get one, JOHK, whose program is part English, with enough to send for verification. This arrived this week."

"This morning I received my first real thrill when I tuned in WKAQ, San Juan, P. R., on its special broadcast for the Newark DX Club," remarks Jerome W. Landenberger, 7305 West Chester Pike, Upper Darby, Pa. "I would appreciate hearing from any

of your readers who have tuned in KGU, Honolulu. I have tried patiently for this station and would like to know if anybody in this section of the country has been successful in receiving them. I will answer all letters received. I also would like to hear from owners of the new 11-tube Majestic superheterodyne similar to my own, and as to what results they are having."

Texas Wants New England

"I would like to know if there are ever any DXers around my neck of the woods who are ever able to tune in Delaware, New Hampshire, Vermont, Rhode Island and Maine," inquires O. D. Duncan, 811 W. Woodard St., Denison, Texas. "I have tried dialing as early as 3 P. M., but just don't seem to be able to pick up any distance then, and when it does get where stations can come through, the Central Standard stations are going full blast. I would like to know just how to break through to get those states, for Boston is as far up that way as I have received."

"Last night at 10:08 P.M. EST, I noticed CMAF in RADEX on 680 kcys.," writes Charles L. Morgan, 800 East 179th St., New York, N. Y. "I don't know how I missed that before. Well I turned in just for fun and there it was. I listened until 11 P.M. It was loud and clear. Could hear VAS on 690 at the same time. Well another dime to CMAF. The funny thing about this (and that is radio) is WPTF on 680 kcys. could not be heard, while CMAF was on. Maybe they were not on."

Verifying Australia

"Concerning the Australians," writes Mrs. L. R. Ledbetter, 1109 Grammar St., Vicksburg, Miss. "I have verification from 5CK, 2YR and 2CO, the latter having sent back my coupon due to the fact that it is a government station. So, save the 9 cents for another one, you DXers. I have logged every frequency. Interference is terrific in this locality and does not cease in the early morning

so it is often useless to try for anything distant."

"Something ought to be done about WJJD operating so late," complains Murray D. Bryce, Rt. 1, Royal Oak, V. I., B. C., Canada. "Last Saturday they signed off at 6:30 P.M. PST. They were quite loud through KSL. KSL, with their new transmitter, is one of the finest stations in America, and should be accorded better treatment. The interference some nights from WJJD is terrible."

A Get-Together

Hartford, Conn., readers take notice: "Saturday evening finds four ardent DX fans gathered together for an evening of DX discussion and good-natured razzing on the ones we caught and the ones we missed during the week," preambles Sidney R. Kaufman, 60 Bretton Road, West Hartford, Conn. "We look forward to these meetings and would like to have a few more DXers added to the bunch."

"I am side-tracked, living in the 'Haven Home for Aged Men' here," writes Chas S. Humphrey, 109 Lowell Street, Peabody, Mass. "I have an old-timer three-tube battery set but I wouldn't swap it for that electric set downstairs. I can put it out of sight. I have to have a radio to play with to keep from getting old. I am only seventy-four."

"I see several of the DX fans are wondering about their verifications from YV1BC, Caracas," says Harry M. Gordon, 1002 Parade St., Erie, Pa. "I sent my verification in on October 23rd and today, December 30th, I received a verification from them."

A Dominion club, the Canadian DX Relay, Box 339, Goderich, Ontario, sends us a number of DX tips which unfortunately reached us too late to appear in the February issue. Canadian readers may secure a copy of "The Relay" by addressing the club as above.

"Our Club would like to pass along to you the following list of foreign stations, all of which have been heard quite well," writes Henry P. Allen,

Vice President of the Atlantic Radio Club, 513 City Line, Oak Lane, Philadelphia.

OKP, Prague, Czechoslovakia, 616 kcs., 2 A.M. on Tuesdays.

Langenburg, Germany, 635 kcs., 1:30 A.M.

Stuttgart, Germany, 831 kcs., 1:00 A.M.

EAJ1, Barcelona, Spain, 860 kcs., 3:00 A.M. on Wednesdays.

Hamburg, Germany, 923 kcs., 1:00 A.M.

Gleiwitz, Germany, 1085 kcs., 2:00 A.M.

Heilsburg, Germany, 1157 kcs., 1:00 A.M.

SBH, Horby, Sweden, 1166 kcs., 1:00 A.M.

Leipzig, Germany, 1184 kcs., 1:00 A.M.

I1TR, Trieste, Italy, 1210 kcs., 2:30 A.M., on Mondays and Tuesdays only.

Nuremberg, Germany, 1256 kcs., 1:00 to 1:30 A.M.

All time is given in Eastern Standard.

Miscellaneous Tips

"I have some DX tips here," suggests Harry M. Gordon, 1002 Parade St., Erie, Pa., "that might interest some of the fans. These were sent with my verifications from different stations. KPCB, Seattle, Wash., write that they are on the air every night until 3:30 A.M. PST, on Saturday nights clear through till the next day. KTFI, Twin Falls, Idaho, daily to 11 P.M. MST, on Saturdays till midnight."

In a letter to H. N. Delmonico, 1475 Trimble St., West Point Grey, Vancouver, B. C., Station JOHK, Sendai, Japan, 770 kcs., gives his time on the air as follows: Weekdays, 7:00-11:40 A.M., 12:05-5:35 P.M., 6:00-9:30 P.M. Sundays, 9:00-9:30 A.M., 3:40-3:50 and 6:00-10:15 P.M. Japan is in Time Zone 44 on the Time Converter.

"Please insert the following notice in your March issue," requests C. C. Norton, 127 B Street, Vallejo, Calif. "Thursday night of March 16th will

be 'Pacific Coast on the Air' for the Transcontinental Radio DX Club and 41 stations have been invited. The hours are 11 P.M. to 7:30 A.M. EST. Everybody is invited to tune in."

Regarding the special DX program arranged for Radexers by WNBX for Saturday morning, March 18th, 4:00 to 5:00 EST, R. R. Rawstrong writes: "They want a report from every state and province. You might add that a 'Muter' inside aerial will be a distance prize and doubtless there will be others."

"I am trying to arrange for a special DX program for the Atlantic Radio Club, Glenside, Pa., over RUS on March 19th from 3:00 to 4:00 A.M. EST," informs Earl R. Roberts, 105 Gomer Ave., Cambridge, Ohio. "It is impossible, however, to tell yet whether they will be on or not."

Japs Do Use English

"I have a Sparton set," advises Austin L. Johnson, 8 Elmhurst Apt., Ogden, Utah, "and have logged 260 stations to date, among them five stations in Japan. Have a letter of verification from JOIK, but the others have not responded to date. It has been my experience that if you listen closely you will notice they announce the station in English at intervals. I get home from work at 1:00 A.M. and get very good reception after that time. The west coast stations are signing off about 2:00 A.M., and after that time get the Japan stations almost any night. Have one station in Cuba and many in Canada and Mexico. Have eight New York City stations and many in Chicago and other eastern cities."

From New Zealand

"I have one of your latest issues supplied to me by my American radio pal, R. M. Ballard of Visalia, Calif.," writes S. M. Cartwright, Hakari, Mokau River, New Zealand, "and I can tell you it is a great help to me to pick up the U. S. A. stations. I have only logged 66 U. S. stations just now, but I hope to be able to collect a few more during this Christmas and

New Year. I use a Stewart-Warner 5-tube Model 32S receiver, battery operated, with 120 ft. aerial and pierce ground. I have been DXing eighteen months and have logged 242 stations, with 140 verified, including Europe, U. S. A., India, Japan, Siam, Australia and New Zealand, Mexico and Canada."

Good Work in Chicago

L. F. Stetson, 3420 Janssen Ave., Chicago, Ill., reports verifications recently received from VK7UV, Ulverstone, Tasmania, on 1460, ZL1ZQ, Auckland, N. Z., on 1190, 10BI, Prince Albert, Sask., on 1195, 2RN, Dublin, Ireland, on 726, HJN, Bogota, Colombia, on 685, YV1BC, Caracas, Venez., on 960, JOLK, Fukuoka, Japan, on 680, XEFS, Queretaro, Mex., on 1000, CMJP, Moron, Cuba, on 1360, XEFC, Merida, Yucatan, on 1050, XEFO, Mexico City, on 940 XETB, Torreon, Mex., on 3180, CMCA, Havana, on 1235, WTDV, St. Thomas, Virgin Island on 69 meters, WIEP, a fishing trawler, on 115 meters and KDVR, the SS Pres. Madison, on 36 meters—a most excellent list from the heart of Chicago. Mr. Stetson is in the radio business.

The Infant Department

"Here is another set for the baby department," remarks Romaine Ruhf, 307 S. Broad St., Nazareth, Pa. "I have a homemade two-tube set, using a stage of t. r. f. ahead of a regenerative detector, which does not create any disturbance in other receivers. The tubes are a 27 and 56 respectively. With this set I have received 390 stations from 540 kcys. to VE9RM at 2004 kcys., without changing anything but the condenser setting. I have 10 Californians, 9 Mexicans and 9 Cubans, and my best catch is CKPR, Fort William, which was then 50 watts."

Another Nova Scotian who receives the Europeans is Robert Osborne of Stellarton. "I have received radio stations in Great Britain on 625, 843, 797, 1040 and 1147 kcys. On 914 kcys. I have received a radio station in

France. Also Rome on 680, Algiers on 825, Germany on 832, Spain on 860, and Italy on 905. Some of these I have had as early as 4:30 P.M. AST, it still being daylight here. I have received European stations many times this winter. I have often heard Porto Rico and Florida when reception of New York and Boston stations was impossible."

"I bought a SW set this fall, but the b. c. l. band still holds my interest almost all the time," writes Stanley Savage, R. 4, Spokane, Wash. "Trans-Pacific DX has been pretty good this year. During the past month the Japanese have been coming in especially well. I've heard about 36 from across the ocean. On short wave I've only heard two. 4BH, Brisbane, is well received all over the U. S., and is much easier to understand than some of the higher powered VK's."

Who Relayed Honolulu?

"Reception so far has been very good," comments W. H. Lewis, 1328 Delaware St., Leavenworth, Kansas. "No foreign stations so far, but I have logged and verified 10-AB, Moose Jaw, and 10-BQ, Brantford, Ont., the latter only 15 watts. Could someone inform me what short-wave station relayed the New Year's program from Honolulu to the United States? I would appreciate the information very much."

"I have become quite a DX fan this winter," says Robert H. Glass, Florida Preparatory School, Daytona Beach, Fla., "and your magazine has helped me tremendously. With my paltry 210 stations I feel like a beginner, but I hope to increase my list. I have a Clarion Model 220, on which I intend to use earphones in an endeavor to bring in more new stations. To date I have 21 on the Pacific Coast, my pride and joy being KRSC, a 100-watter from Seattle, Wash."

"I received verification for my best catch on Saturday, namely, KGU, Honolulu," writes Roy Knight, 1521 Bannatyne Ave., Winnipeg, Man. "I don't know of anyone in this city getting that. Some of my best catches

are CHML, Hamilton; WCAZ, Carthage; CFJC, Kamloops; 10-AB, Moose Jaw; 10-BI, Prince Albert; WEXL, Royal Oak; WLBC, Muncie. WNAD said I was their farthest reach on a regular broadcast. I got them at 7:50 P.M. Besides these I have had 49 100-watters."

A Newcomer

"I started DXing in September, 1931," advises Kent Scott, Station A, Box 42, Barborton, Ohio, "and up to now I have logged 551 stations in U. S. A., Canada, Cuba, Mexico, Porto Rico, and South America. I have logged every state, except Nevada, and I hope to log it soon. I use a 9-tube Bremer-Tully highboy on B.C.B. and a Stewart-Warner converter. My veries total over 300. I will answer all letters."

"The most important new stations I have had are KUMA, Yuma, Ariz.; KGFJ, Los Angeles; KFXM, San Bernardino, and KWG, Stockton, Calif.," reports Milford Voss, 1108 Wealthy St., Grand Rapids, Mich. "The nights of December 29th and 30th I tuned in KGU, Honolulu. They were coming in good for them."

"Since having RADEX, I have picked up 680 different stations and some very fine programs," reports W. H. Bradford, Box 64, Newfields, N. H., "but to me my best pick-up was a test program last fall from Station VK2ME, Sydney, Australia. My set is a Stewart-Warner combination with 10 tubes."

Verifies Italy

"I got a verification from Trieste, Italy, on 1311 kcys., on a program of November 27, 1932," postcards Bill Vornkahl, Westport, Conn.

"After reading the DX pages of your magazine for the last two years (I haven't missed an issue since January, 1931) I have decided to tell you of my luck," advises D. C. Hamilton, 5814 Murrayhill Ave., Pittsburgh, Pa. "I have an 8-tube Majestic superhet., which certainly brings them in. I have logged 666 stations in 47 states, my one failure being

Nevada. I have 29 channels and 21 states complete. Among my foreigners are 11 Japs, 23 Mexican, 18 Cuban, HHK, RW36, WKAQ, TIGR, HIX, YV1BC, VK4QG, VK2NC, VK4RK, ZL2YA, ZL4YA, ZL1YA, and my prize station COMK, Mukden, China, which I received at 5:30 A. M. EST."

Logs Every Channel

"I have had 338 stations with at least one station on every one of the regular channels," says Robert Hough, 26 Ellenton Ave., New Rochelle, N. Y. "I have had all but three states. I still have to get Nevada, Wyoming and Arizona. I've had all but two provinces of Canada, the missing provinces being British Columbia and Saskatchewan; also seven Mexican stations, two in Cuba and one in Porto Rico. As yet I have not had Central America, or any stations beyond the West Coast. I would like to hear what other owners of Crosley sets are doing."

"This is my first DX year, which began October 1st," writes Lloyd Harrison, 130 So. Hague Ave., Columbus, Ohio. "Using a 9-tube McMillan, I have logged 214 stations from October 1st to November 30th. Best in my log are WKAQ, CMBY, CMCJ, XEW, XEPN, XER, CHML, WHBC, KEX, KMPC, KTM and KFSD, besides ten others in California and six in Canada. I have also received the following short-wave stations on this set: W1XAU, W2XAB, W2XAR, W3XK, WMP, WRDS, W1XAL. I would be pleased to hear from any DXer using this make set."

A Daytime Record

"Here's some daytime distance that I believe will establish some kind of a record," say A. K. Mallard of Dallas, Texas, "but after reading about some of the boys getting 10-watters in Australia, I doubt if my record is any good after all. Here 'tis, all received between the hours of 11:30 and 12:30 CST: CKOK, WLW, WENR, WOWO, WCAU, WGN, and a rumpus on the 780 band caused by WBBM and KFAB. Many other near-

er stations were received but these were outstanding."

"I have been more or less interested in Dxing for several years, but it is only recently I have been logging stations," writes Erwin B. Nebel, 161 Grenville St., Woodbridge, N. J. "I have a Colonial 8-tube superhet and I am very well satisfied with its performance. My only aerial is a single wire running the length of the attic, and the ground is attached to a hot-water radiator. I began logging stations about the middle of October and my total to date is 171 stations."

This Month's Changes

OWNERS

560	WNOX	Knoxville, Tenn., to WNOX, Inc.
580	WIBW	Topeka, Kans., to Topeka Broadcasting Assn., Inc.
640	WAUI	Columbus, Ohio, to Associated Radio-casting Corp.
1010	WPAP-WQAO-WKRY	New York City to Marcus Loew Book- ing Agency
1120	CFJC	Kamloops, B. C., to Review Publishing Co., Ltd.
1170	WCAU	Philadelphia, Pa., to WCAU Broad- casting Co.
1200	WJW	Akron, Ohio, to WJW, Inc.
1210	WSBC	Chicago, Ill., to WSBC, Inc.
1370	WIEQ-WRAK	Williamsport, Pa., to WRAK, Inc.
1420	WMAS	Springfield, Mass., to WMAS, Inc.
1420	WTBO	Cumberland, Md., to Associated Broad- casting Corp.

POWER

550	KFDY	Brookings, S. Dak., 500 to 1000
570	WEAO	Columbus, Ohio, 750 to 1000
1200	WFBC	Greenville, S. C., 50 to 100
1370	WJBK	Detroit, Mich., 50 to 100

DELETED

570	TGW	Guatemala City
1310	WKBS	Galesburg, Ill.
1400	WCMA	Culver, Ind.

REINSTATED

1420	WERE	Erie, Pa.
1450	WNJ	Newark, N. J.

CHAINS

570	WSYR	Syracuse, N. Y., R to B
630	WMAL	Washington, D. C., New B

FREQUENCIES

585	XEPN	Piedras Negras, Mex., from 885
1195	VONF	St. John's, Newfoundland, from 1115

CALLS

1310	WAML	Laurel, Miss. from WTSL
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NEW

1500	WKEU	La Grange, Ga.
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WHAT'S ON THE AIR TONIGHT?

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

COLUMBIA (C).....WABC NATIONAL, Red (R).....WEAF NATIONAL, Blue (B).....WJZ

Call	Dial	Call	Dial

Call	Dial	Call	Dial

Call	Dial	Call	Dial

TIME—E Eastern Standard; C Central Standard; M Mountain Standard; P Pacific Standard.

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

Editor's Note: These programs are correct at the time of going to press but are subject to change thereafter.

MONDAY

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

B—Little Orphan Annie
CKGW KDKA WBAL WBZA WCKY
WGAR WHAM WIS WJAX WJR
WJZ WRVA WWNC

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

C—Elizabeth Barthell
CFRB CKOK KFAB KFH KLZ
KMOX KSCJ KSL KTRH KFOR
WAAB WABC WADC WBCM WBIG
WBRC WBT WDAE WDBJ WDOO
WDRG WDSU WFAN WFBL WFEA
WGR WGST WHEC WIP WISN
WJAS WKBH WKBN WLBW WLBZ
WNAK WNOX WODX WOKO WORC
WQAM WREC WSBT WSFA WSJS
WSPD WTAQ WTOG

R—Waldorf-Astoria Orchestra
CKGW KFYR KGO KOA KPRC
KSD KTBS WBEN WCAE WCKY
WCSH WDAF WEAF WENR WFRB
WFI WHO WIBA WIOD WJAR
WKY WMC WQAI WOC WRC WSB
WSMB WTAG WYWC

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

C—Reis and Dunn
CFRB CKOK KFAB KFH KLZ
KMOX KSCJ KSL KTRH KFOR
WAAB WADC WBCM WBIG WBRC
WBT WCAO WDAE WDBO WDOO
WDSU WEAN WFAN WGR WHEC
WIP WISN WJAS WJSV WKBH
WLBW WLBZ WNAK WOKO WORC
WQAM WSBT WSFA WSJS WSPD
WTAQ WTAG WTOG

B—Del Lampe and Orchestra
KOIL KSO KWCR KWK WBAL
WJZ WMAQ WREN WSYR

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

C—Vaughn De Leath
CFRB CKOK KTRH WAAB WABC
WADC WBCM WBIG WBRC WBT
WDBO WDOO WDSU WEAN WFEA
WGR WJSV WKBN WLBW WLBZ
WOKO WORC WQAM WSFA WSJS
WSPD WTAG WTOG
R—Al Bernard, Minstrel Man
KFSD KGO KOA WBEN WDAF
WEAF WFRB WIOD WIS WMAQ
WMC WRC WSB WSMB

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

C—Just Plain Bill
CKOK WAAB WABC WCAO WCAU
WHK WJSV WKBW
R—Rhythm String Quartet
WBEN WCAE WCSH WEAF WFRB
WFI WJAR WRC WSAI WTAG
WTAG WTAG WJW

B—Lowell Thomas

CKGW KDKA WBAL WBZ WBZA
WGAR WHAM WJR WJZ WLW
B—Little Orphan Annie
KFYR KOIL KPRC KSO KSTP
KTBS KWCR KWK WBAF WDAY
WBCB WENR WKY WQAI WREN

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

C—Myrt and Marge
CKOK KRLD WABC WADC WCAO
WCAU WDRG WEAN WFBL WGR
WHK WJAS WJSV WKRC WNAC
WOKO WSBT WSPD WWVA
B—Amos 'n' Andy
CKGW KDKA WBAL WBZ WBZA
WCKY WFLA WGAR WHAM WIOD
WJAX WJR WJZ WLW WPTF WRC
WRVA WWNC

R—Gruen and Hall, Piano Duo
KDYL KFI KFSD KFYR KGO KOA
KSTP KTBS KVOO KYW WCSH
WDAF WEAF WBCB WFRB WGY
WHO WIBA WKY WOC WOW WSAI
WSM WTAG

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

C—Buck Rogers—Year 2433
CKOK KMOX WABC WBBM WCAU
WCCO WGRB WJAX WHK
R—Whittemore Ray Knight
WDAF WEAF WEEI WGY WHO
WJAR WLIT WMAQ WOC WOW
WRC WTAG WJW
B—Tastyest Jesters
KDKA WBAL WBZ WBZA WCKY
WHAM WJZ

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

B—Five Star Theatre
KDKA KTBS WBAL WBZ WBZA
WHAM WIS WJZ WMAL WMC
WPTF WRVA WSAZ WSMB WWNC
R—Van and Don, Comedy Team
WCSH WDAF WEAF WENR WFRB
WGY WJAR WOW WSAI WTAG
C—Dolph Martin's Orchestra
WABC WCAO WCAU WDRG WEAN
WFBL WFEA WGR WHEC WHP
WJAS WJSV WLBZ WNAC WOKO
WORC

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

C—Boake Carter, News Flashes
CKOK KMOX KMOX WABC WBBM
WBT WCAO WCAU WCCO WGR
WHAS WHK WJSV WNAC
R—The Goldbergs
KFYR KPRC WBEN WCAE WCSH
WEAF WEEI WFAA WFRB WGY
WJAR WKY WLIT WQAI WRC
WTAG WTAG WJW

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

C—Whispering Jack Smith
CKOK KMOX KMOX WABC WADC
WCAO WCAU WDRG WEAN WFBL
WFBM WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WSPD

R—Seconlyand Sketches

WBEN WCSH WEAF WEEI WGY
WJAR WTAG WTIC
C—Cicquet Club Eskimos
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR
WHAM WJZ WLS WREN

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

C—Singin' Sam
CKOK KMOX KMOX WABC WADC
WCAU WCCO WDRG WEAN WFBL
WFBM WGN WGR WHK WJAS
WJSV WKRC WNAC WOKO WSPD

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

C—Fu Manchu Mystery
CFRB CKOK KMOX KMOX KRLD
WABC WADC WBT WCAO WCAU
WDRG WEAN WFBM WGN WGR
WHAS WHK WJAS WJSV WKRC
WNAC WOKO WOWO WSPD

R—Voice of Firestone

CFYC CKGW KPRC KSD KTBS
KVOO WBEN WCAE WCSH WEAF
WEEI WFAA on 8:45 WFRB WFLA
WGY WHO WIOD WIS WJAR WJDX
WKY WLIT WLW WMAQ WMC
WQAI WOC WOW WRC WRVA
WSB WSM WSMB WTAG WTAM
WTIC WJW WWNC

B—Don Carney Dog Chats

KDKA KWK WBAL WBZ WBZA
WGAR WJR WJZ WLS WREN

E-8:45 p.m., C-7:45, M-6:45, P-5:45

B—Phillips Lord in Country Doctor
KDKA KOIL KWCR KWK WBAL
WBZ WBZA WGAR WJR WJZ WLS
WREN

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

C—Chesterfield Program
CKOK KBD KERN KFBK KFPY
KPRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOH KOIN KOL ROMA
KRLD KSL KTRH KTSR KVI KWG
WABC WADC WBRC WBT WCAH
WCAO WCAU WCCO WDAE WDBJ
WDBO WDRG WDSU WEAN WFBL
WFBM WGN WGST WHAS WHEC
WHK WISN WJAS WJSV WKBW
WKRC WLAC WLBZ WMBG WMT
WNAC WOKO WORC WOWO WPG
WQAM WREC WSPD WTAG WTOG

MONDAY—(Continued)

R—A. & P. Gypsies
KSD WBEN WCAE WCHS WDAF
WEAF WEEL WGY WHO WJAR
WLIT WMAQ WOC WOW WRC
WSAI WTAG WTAM WVIC WWJ
B—Sinclair Minstrels
KDKA KFYR KOIL KPRC KSO
KSTP KTBS KTHS KVOC KWCR
KWK WAPI WBAL WBZ WBZA
WDAY WEBC WFAA WFLA WGAR
WHAM WIBA WIOD WIS WJAX
WJDX WJR WJZ WKY WLW WMC
WOAI WENR WRVA WSB WSM
WSMB WTMJ WWNC

E-9:15 p.m., C-6:15, M-7:15, P-8:15
C—The Mills Brothers
COK KMCB KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WGN WHAS WHK WJAS WJSV
WKBW WKRC WNAC WOKO WSPD

E-9:30 p.m., C-8:30, M-7:30, P-8:30
C—Mysteries in Paris
COK KMCB KMOX WABC WADC
WBT WCAO WCAU WCAU WFBL
WGN WHK WJAS WJSV WKBW
WKRC WNAC WOKO WOWO WSPD
R—Paul Whiteman and Orchestra
KDYL KFI KFSD KFYR KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTAR KTBS
WBEN WCAE WCHS WDAF WDAY
WEAF WEBC WEEL WFAA WFRB
WFLA WGY WHO WIBA WIOD
WJAR WJAX WJDX WKY WLIT
WMAQ WMC WOAI WOC WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTMJ WWJ WWNC
B—Jack Frost's Melody Moments
KDKA WBAI WENR WGAR WHAM
WJR WJZ WLW

E-10:00 p.m., C-9:00, M-8:00, P-7:00
R—Contented Program
CFCE CKGW KFYR KPRC KSD
KSTP WBEN WCAE WDAF WEAF
WEBC WENR WFAA WFLA WGY
WHO WIOD WJAX WKY WMC
WOAI WOC WRVA WSAI WSB
WSM WTAM WTMJ WWJ
C—Columbia Revue
CFRB COK KLRA KLZ KMBC
KSCJ KSL KTRH KTSa KFOR
WAAB WABC WADC WBBM WBCM
WBIG WBRC WBT WCAH WCAO
WCAU WCCO WDAE WDBJ WDOD
WDRC WDSU WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WJAS WJSV WKBH WKBW WKBW
WLBW WLBZ WMBD WMT WNAX
WNOX WODX WOKO WORC WPG
WQAM WREC WSJS WSPD WTOC
B—The Sizzlers, Harmony Trio
KDKA KDYL KFSD KGHL KGIR
KOA KOIL KSO KWCR KWK WBAL
WCKY WGAR WJR WJZ WMAQ
WREN WSYR

E-10:15 p.m., C-9:15, M-8:15, P-7:15
B—Vic and Sade
KDYL KFSD KGO KOA KWCR
KWK KYW WBAL WCKY WJZ
WREN WSYR

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C—Edwin C. Hill
CFRB COK KLRA KLZ KMBC
KMOX KSCJ KTRH KTSa KFOR
WAAB WABC WADC WBCM WBIG
WBRC WBT WCAH WCAO WCCO
WDAE WDBJ WDOD WDRC WDSU

WFAN WFBL WFBM WFEA WGST
WHAS WHEC WHP WIP WISN
WJAS WJSV WKBH WKBW WKBW
WLBW WLBZ WMBD WNAX WNOX
WODX WOKO WORC WQAM WREC
WSJS WSPD WTOC
B—Alice Joy and Old Stager
CFCE KOIL KSO KWCR KWK
WBAL WCKY WGAR WHAM WJR
WJZ WREN WSYR
R—National Radio Forum
KECA KGA KPO KSD KTAR KTBS
WBEN WCHS WDAF WEAF WEEL
WENR WFBR WFLA WIBA WIOD
WIS WJAR WJDX WKY WOAI
WRC WRVA WSAI WTAG WTAM
WWJ WWNC

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C—Myrt and Marge
KDB KERN KFBK KFPY KFRK
KGB KHJ KLZ KMBC KMJ KMOX
KOIN KOL KSL KVI KWG WBBM
WCCO WDSU WFBM WHAS WLAC

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C—Howard Barlow's Symphony
CFRB COK KFAB KFH KLZ
KMBC KSCJ KSL KTRH KFOR
WAAB WABC WADC WBCM WBRC
WBT WCAO WDOD WDRC WDSU
WEAN WFAN WFBM WHK WIBW
WICC WIP WISN WJAS WJSD
WKBW WKBW WLBW WLBZ WMBD
WNAX WODX WOKO WORC WQAM
WSBT WSJS WSPD WTAR WTOC
R—Ted Weems and Orchestra
KFRY KGO KOA KSD WBEN WCAE
WCKY WDAF WEAF WEBC WFRB
WGY WHA WIBA WJAR WOC WRC
WTAG WTAM WWJ
B—Amos 'n' Andy
KDYL KFI KFSD KGO KGW KHQ
KOA KOIL KOMO KPRC KSTP
KTHS KWK WBAP WDAF WENR
WJDX WKY WMAQ WMC WOAI
WREN WSB WSM WTMJ

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C—Guy Lombardo and Orchestra
CFRB COK KFAB KFH KLZ
KMBC KMOX KSCJ KSL KTRH
KFOR WAAB WABC WADC WBCM
WBRC WBT WCAO WCAU WCCO
WDOD WDRC WDSU WEAN WFBM
WHK WIBW WICC WISN WJSV
WKBW WKBW WLBW WLBZ WMBD
WNAC WODX WOKO WORC WPG
WQAM WSBT WSJS WSPD WTAR
WTOC
R—Jack Denny and Orchestra
WEAF WFRB WJAR WRC WTAG
WVIC
R—Voice of Firestone
KDYL KFI KFSD KFYR KGHL
KGIR KGO KGU KGW KHQ KOA
KOMO KSTP KTAR WDAY WEBC
WIBA WTMJ

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C—Abe Lyman and Orchestra
COK KFAB KLZ KMBC KMOX
KRLD KSCJ KSL KTRH KFOR
WABC WBCB WBT WCAU WCCO
WDOD WDSU WIBW WICC WISN
WJSV WKBW WLBW WMBD WNAC
WNAX WOKO WPG WSBT WSPD
WTOC
B—Freddie Martin and Orchestra
KDKA KOIL KWCR KWK KYW
WBZ WBZA WGAR WJZ WRC
WREN
R—The Goldbergs
KDYL KECA KEX KGA KJR KOA
KPO

TUESDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
B—Orphan Annie, See Monday

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C—H. V. Kallenborn
COK KFH KSCJ KSL KTRH KFOR
WAAB WABC WADC WBBM WBCM
WBIG WBRC WBT WCAO WDAE
WDOD WDOD WDRC WDSU WEAN
WFEA WHEC WICC WISN WJAS
WJSV WKBH WKBW WKBW WLBW
WLBZ WNAX WODX WOKO WORC
WQAM WSBT WSPA WSJS WSPD
WTAQ WTAR WTOC
R—Waldorf-Astoria, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C—Reis and Dunn, See Monday

E-6:30 p.m., C-5:30, M-4:30, P-3:30
R—Mid-Week Hymn Sing
KFRY KGO KOA KOMO KTBS
KTHS KVOC WBEN WDAF WEAF
WFRB WFI WIS WMAQ WMC
WOAI WPTC WSB WSMB WTAG
WWNC

E-6:45 p.m., C-5:45, M-4:45, P-3:45
R—Back of the News
WBEN WEAF WFRB WFI WIS WJAR
WPTC WRC WSM WTAG WWJ
B—Lowell Thomas, See Monday
B—Orphan Annie, See Monday
C—Just Plain Bill, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00
R—James Melton, Tenor
KDYL KFSD KFYR KGO KHQ KOA
KOMO KTBS WBEN WCHS WDAF
WDAY WEAF WEBC WFRB WFI
WIBA WJAR WMAQ WRC WSAI
WTAG WWJ
C—Myrt and Marge, See Monday
B—Amos 'n' Andy, See Monday

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C—Buck Rogers, See Monday
R—Wheatonville, See Monday
B—Radio in Education
KDKA KDYL KECA KEX KFSD
KFRY KGA KGIR KJR KOA KOIL
KPO KTBS KVOC KWCR WBZ
WBZA WENR WFLA WIBA WIS
WJDX WJZ WMC WOAI WPTC
WREN WSB WSM WSMB WWNC

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C—Keller, Sargent and Ross
COK KMCB KMOX WABC WCAO
WCAU WDRC WGN WGR WHAS
WHK WJAS WJSV WKRC WNAC

E-7:45 p.m., C-6:45, M-5:45, P-4:45
R—Octavius Roy Cohen Mystery
KDKA KOIL KSO KWCR KWK
KYW WBZ WBZA WGAR WJZ
WREN WSYR
C—Boake Carter, See Monday
R—The Goldbergs, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C—Easy Aces
COK KMCB KMOX WABC WADC
WCAO WCAU WCCO WEAN WFBL
WFBM WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WSPD
R—Blackstone, Sanderson-Crumit
KSD KSTP KYW WBEN WCAE
WCHS WDAF WEAF WEBC WEEL
WFI WGY WHO WJAR WOC WOW

TUESDAY—(Continued)

WRC WSAI WTAG WTAM WWJ
B—Eno Crime Club
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WGAR WHAM
WJZ WLW WMAQ WREN

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C—Magic Voice
COK KMCB KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WFBM WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WSPD

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C—Kate Smith
COK KMCB KMOX WABC WADC
WBCM WCAH WCAO WCAU WCCO
WFBL WFBM WGN WGR WHAS
WHEC WHK WISN WJAS WJSV
WKBH WKRC WOKO WOWO WSPD
R—Wayne King and Orchestra
KSD KSTP WBEN WCAE WCKY
WCHS WEAF WEBC WEEL WFRB
WFI WGY WHO WIBA WJAR
WMAQ WOC WOW WRC WSAI
WTAG WTAM WTMJ WWJ
B—Horlick-Health Talks
KDKA KOIL KWCR KWK WBAL
WBZ WBZA WGAR WHAM WJZ
WLS WLW WREN

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C—Abe Lyman and Orchestra
COK KMCB KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WFBM WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WOWO WSPD
B—Phillips Lord, See Monday

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C—Chesterfield, See Monday
R—Ben Bernie and Orchestra
KFRY KOA KPRC KSTP WBAP
WBEN WCAE WCKY WCHS WDAF
WDAY WEAF WEEL WFRB WFI
WGY WHO WJAR WKY WLS WMC
WOAI WOC WOW WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WWJ
B—Household Musical Memories
KDKA KSO KWK WBAL WBZ
WBZA WHAM WJR WJZ WMAQ
WREN

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C—Threads of Happiness
COK KDB KERN KFBK KFH
KFPY KFRK KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOMA
KRLD KSL KTRH KTSa KVI KWG
WABC WADC WBRC WBT WCAO
WCAU WCCO WDAE WDOD WDOD
WDRC WDSU WEAN WFBL WFBM
WGN WGST WHAS WHEC WHK
WJAS WJSV WKBW WKRC WLAC
WNAC WOKO WOWO WQAM WREC
WSPD WTAR WTOC

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R—Ed Wynn-Don Voorhees
CFCE KDYL KFI KFSD KFYR
KGHL KGIR KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KTAR
KTBS KTHS KVOC WBAP WBEN
WCAE WCHS WDAF WDAY WEAF
WEBC WEEL WFRB WFI WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMAQ WFI WOC WOW WRC
WRVA WSB WSM WSMB WTAG
WTAM WTMJ WWJ WWNC

C—California Melodies
CFRB COK KFH KLZ KMBC
KMOX KSCJ KSL KTRH KTSa
WABC WBCM WBIG WBRC WBT
WCAO WCAU WCCO WDAE WDOD
WDRC WEAN WFBM WFEA WHEC
WHK WIBW WJAS WKBH WKBW
WLBW WLBZ WMBD WNAC WNAX
WODX WOKO WQAM WSJS WTAR
WTOC
B—Willard Robinson and Orchestra
KDKA KSO KWK WBAL WBZ
WBZA WCKY WENR WJR WJZ
WREN WSYR

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C—Five Star Theatre
KLRA WABC WBIG WBT WCAO
WCAU WDBJ WDOD WDRC WDSU
WEAN WFBL WFEA WHP WICC
WJAS WJSV WKBW WLAC WMBG
WNAC WNOX WOBW WOKO WORC
WREC WSJS WTAR

R—Lucky Strike Hour
KDYL KFI KFSD KFYR KGO KGU
KGW KHQ KOA KOMO KPRC KSD
KSTP KTAR KTBS KTHS WAPI
WBAP WBEN WCAE WCHS WDAF
WDAY WEAF WEBC WEEL WENR
WFRB WFI WFLA WGY WHO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WLW WMC WOAI
WOC WRC WRVA WSB WSM WSMB
WTAG WTAM WTMJ WWJ WWNC

B—Sigmund Spaeth, Tune Detective
CFCE KDKA KOIL KSO KWCR
KWK WBAL WCKY WGAR WHAM
WJR WJZ WMAQ WREN WSYR

E-10:15 p.m., C-9:15, M-8:15, P-7:15
B—Vic and Sade, See Monday

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C—Edwin C. Hill, See Monday
B—Ilomay Bailey, Soprano
KSO KWCR KWK WBAL WCKY
WGAR WHAM WJR WJZ WMAQ
WREN

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C—Charles Carlie, Tenor
CFRB COK KFAB WAAB WABC
WADC WBCM WDRC WFAN WFBL
WFEA WHEC WHK WIP WJAS
WJSV WKBW WLBW WLBZ WMBD
WNOX WODX WOKO WORC WQAM
WREC WPG WSBT WSPD

B—Professor Jack McAllister
CKGW KDKA KOIL KSO KWCR
KWK WBAL WCKY WGAR WHAM
WJR WJZ WMAQ WREN WSYR
C—Myrt and Marge, See Monday

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C—Howard Barlow, See Monday
B—Amos 'n' Andy, See Monday
B—Jack Fulton, Tenor
CKGW WBAL WFLA WGAR WHAM
WIS WJZ WSYR WWNC

E-11:15 p.m., C-10:15, M-9:15, P-8:15
B—Heart Songs, Women's Octet
CFCE CKGW KFYR KGIR KPRC
KSTP KTBS KWK WBAL WCKY
WENR WFLA WGAR WHAM WIBA
WIS WJR WJZ WMC WRC WREN
WSM WSYR WWNC

B—Octavius Roy Cohen Mystery
KDYL KECA KEX KFYR KGA KJR
KOA KPO KPRC KSTP KTBS WDAY
WEBC WFAA WIBA WJDX WKY
WMC WOAI WSB WSMB WTMJ

E-11:00 p.m., C-10:30, M-9:30, P-8:30
C—Ishma Jones and Orchestra
CFRB COK KFAB KFH KLZ
KMBC KSCJ KSL KTRH WAAB
WABC WADC WBCM WBRC WBT
WCAO WCAU WCCO WDAE WDOD
WDOD WDRC WDSU WEAN WFBM
WHEC WHK WIBW WICC WISN
WJSV WKBW WKBW WLBW WLBZ
WMBD WNAX WODX WOKO WORC
WPG WQAM WSJS WSPD WTAR
WTOC WWVA

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R—The Goldbergs, See Monday
B—Cab Calloway and Orchestra
KDKA KOIL KPRC KSO KTBS
KWCR KWK WAPI WJZ WBZA
WFLA WGAR WIOD WJR WJZ WKY
WMC WREN WSB WSM WSMB
WWNC

C—Joe Haymes and Orchestra
COK KFAB KLZ KMBC KSCJ KSL
KTRH KFOR WABC WBRC WBT
WCAH WCAU WDAE WDOD WDSU
WFBL WGST WHAS WHK WHP
WISN WJAS WJSV WKBW WLBW
WMBD WMT WNAX WNOX WOKO
WPG WREC WSBT WSPD WTOC

E-12:30 a.m., C-11:30, M-10:30, P-9:30
R—Sam Robbins and Orchestra
WAPI WCAE WEAF WFRB WFI
WFLA WIOD WJAR WMAQ WMC
WRC WSB WSM WSMB WTAM
WWNC
R—Ben Bernie and Orchestra
KFI KFSD KGO KHQ KOMO KSD
KTAR

WEDNESDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
B—Orphan Annie, See Monday

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C—Vaughn DeLeath
CFRB COK KFH KMOX KSCJ
KSL KTRH KFOR WAAB WABC
WADC WBBM WBCM WBIG WBT
WCAO WDAE WDOD WDOD WDRC
WDSU WEAN WFEA WHEC WIP
WISN WJAS WJSV WKBH WKBW
WKBW WLBW WLBZ WNAX WODX
WOKO WORC WQAM WSBT WSPA
WSJS WSPD WTAQ WTOC
R—Waldorf-Astoria, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C—Dick Mansfield and Orchestra
CFRB COK KFAB KFH KLZ KSCJ
KSL KTRH KFOR WAAB WADC
WBCM WBIG WBRC WBT WCAO
WDAE WDBJ WDOD WDRC WDSU
WGR WGST WHAS WHEC WHP
WIP WISN WJAS WJSV WKBH
WLBW WLBZ WMT WNAX WNOX
WODX WOKO WORC WQAM WREC
WSBT WSPA WSJS WSPD WTAQ
WTOC

E-6:30 p.m., C-5:30, M-4:30, P-3:30
R—Harding Sisters, Piano Duo
KECA KEX KGA KJR KOA KPO
KSD KTBS KTHS WBEN WCKY
WDAF WEAF WFRB WIBA WIS
WMAQ WMC WOAI WSB WTAG
WWNC

E-6:45 p.m., C-5:45, M-4:45, P-3:45
R—Andy Sannella
KECA KEX KFSD KGA KJR KPO
KSD WBEN WCAE WCHS WEAF
WFRB WFI WHO WIS WJAR WMAQ

WEDNESDAY—(Cont'd)

WMC WOC WOW WRC WSAI WSM
WTAG WTAM

C — Just Plain Bill, See Monday
B — Lowell Thomas, See Monday
B — Orphan Annie, See Monday

E-7:00 p.m., C-8:00, M-5:00, P-4:00
C — Myrt and Marge, See Monday
B — Amos 'n' Andy, See Monday
R — Mische Weisbord, Violist
KDYL KFYR KGO KHQ KOA
KOMO KSTP KTBS KYW WDAF
WDAY WEAF WECB WFBR WGY
WHO WIBA WJAR WMC WOC
WOW WRC WSAI WSB WSM WTAG
WTAM

E-7:15 p.m., C-8:15, M-5:15, P-4:15
C — Buck Rogers, See Monday
R — Wheatonville, See Monday
B — Carson Robison, Barbasol
KDKA KOIL KWK WBAL WBZ
WBZA WENR WJZ

E-7:30 p.m., C-8:30, M-5:30, P-4:30
B — Five Star Theatre, See Monday
C — Dolph Martin, See Monday

E-7:45 p.m., C-8:45, M-5:45, P-4:45
C — Boake Carter, See Monday
R — The Goldbergs, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Whispering Jack Smith, See Mon.
R — Royal Vagabonds, Ken Murray
KSD WBEN WCAE WCHS WDAF
WEAF WEEI WFBW WGY WJAR
WLIT WLS WOW WRC WSAI WTAG
WTAM WTIC WWJ
B — Eno Crime Club, See Tuesday

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C — Singin' Sam, See Monday

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Kate Smith, See Tuesday
R — The Shadow, Mystery Drama
WBEN WCHS WEAF WEEI WFBW
WGY WJAR WLIT WRC WTAG
WTIC
B — Harriet Lee and Leaders
KDKA KWCR KWK WBAL WFLA
WIS WJAX WJZ WREN WWNC

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C — Abe Lyman, See Tuesday
B — Phillips Lord, See Monday

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Chesterfield, See Monday
R — Symphony Concert
KDYL KFI KFSD KFYR KGO KHQ
KOA KOMO KSD KTAR KTBS
KVOO WBEN WCAE WCHS WDAF
WEAF WFBW WFLA WHO WIBA
WIOD WIS WJAR WKY WLIT
WMC WOAI WOC WOW WRC WSB
WSM WTAG WTAM WWJ WWNC
B — Sherlock Holmes
CFRC CKGW KDKA KOIL KWCR
KWK WBAL WBZ WBZA WGAR
WHAM WJR WJZ WLS WLW WREN

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C — Romantic Bachelor
COK KDB KERN KFBK KFH
KFYR KFCR KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRDL KSCJ KSL KTRH

KTSA KVI KWG WABC WACO
WADC WBIG WBRC WBT WCAO
WCAU WCCO WDBJ WDDO WDRC
WDSU WEAN WFLB WFBM WGN
WGST WHAS WHK WIBW WISN
WJAX WJVS WKBH WKBW WKRC
WLAC WLBB WMBG WMT WNAC
WNAX WNOX WODX WOKO WOWO
WREC WSPD WTAR

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Guy Lombardo-Burns and Allen
COK KMBC KMOX KOMA KRDL
KTRH KTSA WABC WADC WCAO
WCAU WCCO WDRC WEAN WFLB
WFBM WGN WHK WJAX WJVS
WKBW WKRC WNAC WOKO WOWO
WSPD

B — Morton Downey and Donald Novis
KDKA KDYL KFI KGHL KGIR
KGO KGW KHQ KOA KOIL KOMO
KPRC KTAR KTBS KTHS KVOO
KWCR KWK WBAL WBZ WBZA
WENR WFAA WGAR WHAM WJDX
WJR WJZ WKY WLW WOAI WREN
WSB WSM WSNB

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Old Gold—Fred Waring
COK KDB KERN KFBK KFYR
KFCR KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMO
KSL KTAT KTRH KTSA KVI KWG
WAAB WABC WADC WBRC WBT
WACH WCAO WCAU WCCO WDAE
WDBO WDDO WDRC WDSU WFLB
WFBM WGN WGST WHAS WHEC
WHK WIBW WJAX WJVS WKBW
WKRC WODX WOKO WOWO WQAM
WREC WRR WSPD
R — Corn Cob Pipe Club
KDYL KFI KGHL KGIR KGO KGW
KHQ KOA KOMO KSD WBEN
WCAE WCHS WDAF WEAF WEEI
WENR WFBW WGY WHO WJAR
WLIT WLW WOC WOW WRC WRVA
WTAG WTAM WTIC WWJ
B — D. W. Griffith's Hollywood
KDKA KOIL KPRC KWK WBAL
WBZ WBZA WFAA WGAR WJR WJZ
WKY WMAQ WMC WREN WSB
WSMB

E-10:15 p.m., C-9:15, M-8:15, P-7:15
B — Alice Joy, Contralto
KFYR KSO KTBS KWCR WBAL
WBZ WBZA WCKY WDAY WECB
WFLA WGAR WIBA WIS WJZ WKY
WREN WSB WSNB WWNC

E-10:30 p.m., C-9:30, M-8:30, P-7:30
R — Carveth Wells
KDYL KFYR KGA KGHL KGIR
KOA KPRC KSD KSTP KTBS KTHS
WDAF WDAY WEAF WECB WFAA
WFBW WHO WIBA WKY WMAQ
WOAI WOC WOW WRVA WTMJ
C — Edwin C. Hill, See Monday

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C — Fray and Braggiotti, Piano
CFRC COK WAAB WABC WADC
WBOM WCAU WDRC WFLB WFEA
WHCR WHK WJAX WJVS WKBW
WLBB WLBB WOKO WORC WOWO
WSPD
C — Myrt and Marge, See Monday

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Howard Barlow, See Monday
R — Nellie Revell, Interview
KSD WCAE WCKY WEAF WFBW
WGY WJAR WLIT WRC WTAM
WWJ

B — Amos 'n' Andy, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Isham Jones, See Tuesday
B — Cesare Soderio and Orchestra
KSO KWCR KWK WBAL WBZ
WBZA WCKY WENR WGAR WHAM
WJZ WREN

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C — Eddie Duchin and Orchestra
COK KFAB KLZ KMBC KSCJ
KTRH KFOR WABC WBRC WBT
WCAH WCAU WCCO WDAE WDDO
WDSU WEAN WFLB WGN WHAS
WHK WHP WICC WISN WJAX
WJVS WKBW WLBB WMBD WMT
WNAC WNAX WNOX WOKO WORC
WPG WREC WSBT WSPD WTOG
R — The Goldbergs, See Monday
B — Ben Bernie and Orchestra
KDKA KFYR KOIL KSO KWCR
KWK WBZ WBZA WECB WENR
WFLA WGAR WIBA WIOD WJZ
WREN WWNC

E-12:15 p.m., C-11:15, M-10:15, P-9:15
B — Sherlock Holmes
KDYL KFI KFSD KGHL KGIR
KGO KGW KHQ KOA KOMO KTAR

THURSDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
B — Orphan Annie, See Monday

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — H. V. Kaltenborn, See Tuesday
R — Waldorf-Astoria, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Harold Stern and Orchestra
CFRC COK KFAB KFH KLZ
KMBC KSCJ KSL KTRH KFOR
WAAB WADC WBIG WBRC WBT
WCAU WDAE WDDO WDRC WDSU
WGR WHEC WISN WJAX WJVS
WKBW WLBB WLBB WNAX WOKO
WORC WQAM WSBT WSJS WSPD
WTAQ WTAR WTOG

E-6:30 p.m., C-5:30, M-4:30, P-3:30
R — Donald Novis, Tenor
KECA KEX KFSD KFYR KGA KJR
KOA KPO KSD KTBS KTHS WAPI
WBEN WDAF WDAY WEAF WIBA
WIS WJAR WMAQ WMC WOAI
WRC WSAI WSB WSNB WTAG
WWNC

E-6:45 p.m., C-5:45, M-4:45, P-3:45
C — Just Plain Bill, See Monday
B — Lowell Thomas, See Monday
B — Orphan Annie, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge, See Monday
B — Amos 'n' Andy, See Monday

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Buck Rogers, See Monday
R — Wheatonville, See Monday
B — Carson Robison, See Wednesday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Keller, Sargent, See Tuesday
R — Van and Don, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
B — Murder Mystery, See Tuesday
C — Boake Carter, See Monday
R — The Goldbergs, See Monday

THURSDAY—(Continued)

E-8:00 p.m., C-7:00, M-6:00, P-5:00
R — Rudy Vallee and Orchestra
CFRC CKGW KDYL KFI KFYR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTAR WAPI WBAP
WBEN WCAE WCKY WCHS WDAF
WDAY WEAF WECB WEEI WFBW
WFI WFLA WGY WHO WIOD WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOC WOW WRC WRVA
WSAI WSB WSM WSNB WTAG
WTAM WTMJ WWJ
C — Easy Aces, See Tuesday

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C — Whispering Jack Smith
COK KMBC KMOX WABC WADC
WCAU WCAU WDRC WEAN WFLB
WFBM WGN WGR WHAS WHK
WJAX WJVS WKRC WNAC WOKO
WSPD

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Kate Smith, See Tuesday
B — Rin Tin Tin Thriller
KDKA KOIL KWK WBZ WBZA
WGAR WHAM WJZ WLS WLW
WREN

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C — Abe Lyman, See Tuesday
B — Howard Thurston, Magician
KDKA KOIL KWK WBZ WBZA
WGAR WHAM WJR WJZ WLS
WLW WREN

E-9:00 p.m., C-8:00, M-7:00, P-6:00
R — Maxwell House Showboat
KDYL KFI KFSD KGO KGW KHQ
KOA KOMO KPRC KSD KSTP
KTAR KTBS WAPI WBEN WCAE
WCKY WCHS WDAF WEAF WEEI
WFBW WFI WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WWNC

C — Chesterfield, See Monday
B — Death Valley Days
KDKA KOIL KWK WBAL WBZ
WBZA WGAR WHAM WJR WJZ
WLS WLW WREN

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C — Mills Brothers, See Monday

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Col. Stoopnagle and Budd
COK KDB KERN KFBK KFH
KFYR KFCR KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KSCJ KSL KTRH KTAT
KTSA KVI KWG WABC WADC
WBRC WBT WCAH WCAO WCAU
WCCO WDAE WDBO WDRC WDSU
WEAN WFLB WFBM WGN WGST
WHAS WHEC WHK WJAX WJVS
WKBW WKRC WLAC WNAC WOKO
WOWO WQAM WREC WRR WSPD
WTAR

B — Len Joy's Dancing Strings
KDKA KFSD KOIL KSO KWCR
KWK WBAL WBZ WBZA WENR
WGAR WHAM WJZ WREN

E-10:00 p.m., C-9:00, M-8:00, P-7:00
B — Wilfred Glenn, Basso
CFRC CKGW KDKA KOIL KSO
KWCR KWK WBAL WBZ WBZA
WCKY WGAR WHAM WJR WJZ
WMAQ WREN

C — Five Star Theatre, See Tuesday
R — Lucky Strike, See Tuesday

E-10:15 p.m., C-9:15, M-8:15, P-7:15
B — Vic and Sade, See Monday

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — Boswell Sisters
CFRC COK KLRA KLZ KMBC
KSCJ KTRH KTSA KFOR WAAB
WABC WADC WBBM WBCM WBIG
WBRC WBT WCAH WCAO WCAU
WCCO WDAE WDBJ WDDO WDRC
WDSU WEAN WFLB WFBM WFEA
WGST WHAS WHEC WHK WHP
WICC WISN WJAX WJVS WKBW
WKBW WKBW WLBB WLBB WMBD
WMT WNAX WNOX WODX WOKO
WORC WOWO WPG WQAM WREC
WSJS WSPD WTOG
B — Ilomay Bailey, See Tuesday

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C — Myrt and Marge, See Monday
B — Prof. Jack McAllan, See Tuesday
C — Morton Downey
COK WAAB WABC WADC WBCM
WCAU WDRC WEAN WFLB WFEA
WHEC WHK WICC WJAX WJVS
WKBW WLBB WLBB WOKO WORC
WOWO WSPD

E-11:00 p.m., C-10:00, M-9:00, P-8:00
R — James Melton, Tenor
KSD WCAE WCKY WEAF WFBW
WRC WSAI WTAG WWJ
C — Howard Barlow, See Monday
B — Amos 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15
B — Murder Mystery, See Tuesday

E-11:30 p.m., C-10:30, M-9:30, P-8:30
B — Cesare Soderio and Orchestra
CFRC CKGW KDYL KEX KFSD
KFYR KGA KJR KOA KOIL KPO
KSO KWCR KWK WBAL WBZ
WBZA WECB WFLA WGAR WHAM
WIBA WIS WJAX WJR WJZ WMC
WRC WREN WSB WSNB WWNC
C — Isham Jones, See Tuesday
R — Jack Denny, See Monday

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R — The Goldbergs, See Monday
C — Eddie Duchin, See Wednesday

FRIDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
B — Orphan Annie, See Monday

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Vaughn DeLeath, See Wednesday
R — Waldorf-Astoria, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15
B — Del Lampe, See Monday

E-6:45 p.m., C-5:45, M-4:45, P-3:45
C — Just Plain Bill, See Monday
B — Lowell Thomas, See Monday
B — Orphan Annie, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge, See Monday
B — Amos 'n' Andy, See Monday
R — Donald Novis, Tenor
KDYL KFYR KGO KOA KOMO
KSTP KTBS KYW WAPI WCHS
WDAF WDAY WEAF WECB WEEI
WFBW WGY WIBA WJAR WMC
WOW WRC WSAI WSB WSM WTAM
WWJ

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Buck Rogers, See Monday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
B — Five Star Theatre, See Monday
C — Dolphin Martin, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter, See Monday
R — The Goldbergs, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Trade and Mark
COK KLZ KMBC KMOX KSL
WABC WADC WCAO WCAU WCCO
WDRC WEAN WFLB WFBM WGN
WGR WHAS WHK WJVS WKRC
WNAC WOKO WSPD
R — Cities Service Concert
CKGW KDYL KOA KPRC KSD
KSTP KTBS KYW WBEN WCAE
WCHS WDAF WEAF WECB WEEI
WFAA WFBW WGY WHO WJAR
WKY WLIT WOAI WOC WOW WRC
WSAI WTAG WTAM WTIC WTMJ
WWJ

B — Nestle's Program
KDKA KOIL KWK WBAL WBZ
WBZA WGAR WHAM WJR WJZ
WLS WREN

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C — Singin' Sam, See Monday

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — March of Time
COK KDB KERN KFBK KFYR
KFCR KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KSL KVI KGW
WABC WADC WCAO WCAU WCCO
WDRC WEAN WFLB WFBM WGN
WGR WHAS WHK WJAX WJVS
WKRC WNAC WOKO WOWO WSPD
B — Horlick Program, See Tuesday

E-8:45 p.m., C-7:45, M-6:45, P-5:45
B — Howard Thurston, See Thursday

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Chesterfield, See Monday
R — First Nighter, Drama
KDKA KDYL KFI KFSD KGO KGW
KHQ KOA KOIL KOMO KPRC
KSTP KTAR KTBS KWK WAPI
WBAL WBZ WBZA WCKY WECB
WGAR WHAM WJR WJZ WKY WLS
WOAI WREN WSB WSM WSNB
WTAM

R — Three California Nuts
WCHS WEAF WEEI WJR WTAG
WTIC

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C — Mary Eastman, Soprano
CFRC COK KFH KLRA KLZ
KMBC KMOX KSCJ KSL KTRH
KTSA KFOR WAAB WABC WACO
WADC WBCM WBIG WBT WCAH
WCAO WCCO WDAE WDBJ WDDO
WDRC WDSU WEAN WFLB WFBM
WFEA WGST WHAS WHEC WHP
WIBW WICC WISN WJAX WJVS
WKBW WKBW WLBB WLBB WNAX
WNOX WODX WOKO WORC WQAM
WREC WSBT WSJS WSPD WTOG

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R — Pond's Program
KSD WBEN WCAE WCHS WDAF
WEAF WENR WFBW WGY WHO
WJAR WLIT WOC WOW WRC WSAI
WTAG WTAM WWJ

FRIDAY—(Continued)

C — Edwin C. Hill, Inside Story
 CKOK KFH KLRA KMBC KMOX
 KOMA KRLD KTRH KTSB WABC
 WADC WBCM WCAH WCAO WCAU
 WCCO WDRC WEAN WFBL WFBM
 WGN WHAD WHAS WHK WHP
 WJBW WJAS WJSV WKBB WKWB
 WKRC WLWB WLWB WMBD WNAC
 WOKO WORC WQOW WREC WSPD
B — Armour Program
 KDKA KDYL KFI KGO KGW KHQ
 KOA KOIL KOMO KPRC KSO KSTP
 KWK WAPI WBAL WBZ WBZA
 WEBC WFPA WGAR WHAM WIOD
 WJAX WJR WJZ WKY WMAQ
 WMC WOAI WREN WRVA WSB
 WSM WSMB WTMJ WWNC

E-10:00 p.m., C-9:00, M-8:00, P-7:00
R — Chevrolet — Al Jolson

KDYL KFI KFSD KFYR KGH
 KGIR KGO KGW KHQ KOA KOMO
 KPRC KSD KSTP KTAR KTBS
 KTBS KVOO WBN WCAE WCHS
 WDAF WDAY WEAF WEBC WEEI
 WENR WFAA WFBF WFLA WGY
 WHO WIBA WIOD WIS WJAR
 WJAX WKY WLIT WLW WMC
 WOAI WOC WQOW WRC WRVA WSB
 WSM WSMB WTAG WTAM WTC
 WTMJ WWJ WWNC

B — Alice Joy
 CFCE CKGW KOIL KSO KWCR
 KWK WBAL WCKY WHAM WJZ
 WMAQ WREN
C — Columbia Revue, See Monday

E-10:15 p.m., C-9:15, M-8:15, P-7:15
B — Vic and Sade, See Monday

E-10:30 p.m., C-9:30, M-8:30, P-7:30
B — Concert Orchestra
 KDKA KPRC KSO KWCR WBAL
 WGAR WHAM WJZ WREN

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C — Myrt and Marge, See Monday
R — Borrah Minevitch, Harmonica
 CKGW KSD WBN WCKY WCHS
 WDAF WEAF WEEI WFBF WGY
 WJAR WQOW WSAI WTAG WTAM
 WTC WJZ
C — Fray and Braggiotti, See Wednesday

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Howard Barlow, See Monday
R — Anson Weeks and Orchestra
 KSD WCAE WCKY WEAF WFBF
 WRC WTAG WWJ
B — Amos 'n' Andy, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Abe Lyman and Orchestra
 CFRB CKOK KFBF KFH KLZ
 KMBC KSCJ KSL KTRH KVR
 WAAB WABC WADC WBCM WBCB
 WBT WCAO WDAE WDBO WDRC
 WDSU WEAN WFBM WFEA WHEC
 WHK WICW WISN WJVB WLWB
 WLWB WMBD WNAX WOKO WORC
 WQAM WSBT WSJS WSPD
 WTAR WTTA

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C — Ben Pollack and Orchestra
 CKOK KFBF KLZ KMBC KRLD
 KSCJ KSL KTRH KVR WABC
 WBCB WBT WCAO WCCO WDAE
 WDBO WDSU WICW WISN WJSV
 WLWB WMBD WNAC WNAX WOKO
 WPG WSBT WSPD WTC

R — The Goldbergs, See Monday
B — Cab Calloway, See Tuesday

SATURDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
B — Orphan Annie, See Monday

E-5:00 p.m., C-5:00, M-4:00, P-3:00
C — America's Grub Street
 CFRB CKOK KFBF KFH KSCJ KSL
 KTRH KVR WAAB WABC WADC
 WBBM WBCM WBIG WBRB WBT
 WCAO WCAU WCCO WDAE WDBO
 WDOD WDRC WDSU WEAN WFEA
 WHEC WICW WISN WJSV WKBB
 WLWB WLWB WNAX WOKO WORC
 WQAM WSBT WSFA WSJS WSPD
 WTAR WTTA WTC WWVA
R — Waldorf-Astoria, See Monday
R — Little German Band
 KDKA KOIL KSO KWCR WBAL
 WENR WJR WJZ WREN

E-6:30 p.m., C-5:40, M-4:30, P-3:30
B — Laws That Safeguard
 KDYL KEX KFSD KFYR KGA KGIR
 KJR KOA KOIL KPO KPRC KSO
 KSTP KTAR KTBS KTBS KWCR
 KWK WBAL WBZ WBZA WCKY
 WEBC WFLA WIBA WIOD WIS
 WJAX WJR WJZ WKY WMAQ
 WMC WOAI WREN WRVA WSB
 WSM WWNC

E-6:45 p.m., C-5:45, M-4:45, P-3:45
B — Fields and Hall
 WBAL WGAR WHAM WIOD WIS
 WJR WJZ WMC
B — Orphan Annie, See Monday

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Frederic William Wile
 KMBC KRLD KTRH WABC WADC
 WBBM WBCM WBIG WBRB WBT
 WCAO WCAU WCCO WDAE WDBO
 WDRC WDSU WEAN WFBM WFEA
 WHEC WHK WICW WJAS WJSV
 WLWB WLWB WNAC WOKO WQAM
 WSFA WSJS WSPD WTAR WWVA
B — Anson Weeks and Orchestra
 CFCE CKGW KDKA KSO KWK
 WBAL WBZ WBZA WCKY WFLA
 WGAR WHAM WJZ WLW WOAI
 WSB WWNC

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — William Hall, Baritone
 CFRB CKOK KTRH WABC WADC
 WBCM WBIG WBRB WCAO WCAU
 WDAE WDOD WDRC WDSU WEAN
 WFBM WFEA WGR WICW WJAS
 WJSV WLWB WLWB WNAC WOKO
 WORC WQAM WSFA WSJS WSPD
 WTAR WWVA
R — Ozzie Nelson and Orchestra
 CKGW KGO KOA WBN WACE
 WCKY WDAF WEAF WFBF WFI
 WHO WJAR WOC WTAG WWJ
B — Merle Thorpe Talk
 KDYL KECA KEX KFSD KFYR
 KGA KJR KOA KOIL KPO KPRC
 KSTP KTBS KWCR KWK WBAL
 WBZ WBZA WEBC WENR WFLA
 WGAR WHAM WIBA WIOD WIS
 WJDX WJZ WKY WMC WOAI
 WREN WSB WSMB WWNC

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Street Singer
 CFRB CKOK KMBC KMOX KRLD
 KSCJ KSL KTRH KVR WABC
 WADC WBCM WBIG WBRB WBT
 WCAO WCAU WCCO WDAE WDBO

WDOD WDRC WDSU WEAN WFBM
 WFEA WGR WHEC WISN WJAS
 WJSV WKBB WLWB WLWB WNAC
 WOKO WQAM WSFA WSPD WTAQ
 WTAR WTC
B — Murder Mystery, See Tuesday

E-9:00 p.m., C-7:00, M-6:00, P-5:00
C — Easy Aces, See Tuesday
R — Archer Gibson, Organist
 KEX KGA KJR KOA KPO KPRC
 KSD KTBS WBN WDAF WEAF
 WEBC WEEI WFI WHO WIBA WIS
 WJAR WMAQ WMC WOAI WOC
 WSB WSMB WTAG WTAM WWJ
 WWNC

B — American Taxpayers' League
 KDKA KDYL KEX KFSD KFYR
 KGA KGHL KGIR KJR KOA KOIL
 KPO KPRC KSTP KTAR KWK WAPI
 WBAL WCKY WDAY WEBC WFLA
 WHAM WIBA WIOD WJAX WJDX
 WJZ WLS WRC WREN WSM WSMB
 WWNC

E-9:15 p.m., C-7:15, M-6:15, P-5:15
C — Magic Voice, See Tuesday
B — Boston Symphony Orchestra
 CFCE CKGW KDKA KOIL KSO
 KWCR KWK WBAL WBZ WBZA
 WCKY WGAR WHAM WJR WJZ
 WREN

E-9:30 p.m., C-7:30, M-6:30, P-5:30
C — Alexander Haas Gypsy Ensemble
 CFRB CKOK KFH KLZ KMBC
 KSCJ KSL KTRH KTSB KVR
 WABC WADC WBCM WBIG WBRB
 WBT WCAO WCCO WDAE WDBO
 WDOD WDRC WDSU WEAN WFBM
 WFEA WGR WHEC WICW WISN
 WJSV WKBB WLWB WLWB WNAX
 WOKO WORC WPG WQAM WSBT
 WSFA WSPD WTAQ WTAR WTC
R — Economic World Today
 KDYL KFSD KFYR KGA KFH
 KGIR KJR KOA KPO KPRC KSD
 KSTP WAPI WBAP WBN WCHS
 WDAF WDAY WEAF WEBC WEEI
 WFBF WFI WFLA WGY WHO WIBA
 WIOD WIS WJAR WJDX WKY
 WMAQ WMC WOAI WOC WQOW
 WRC WSAI WSMB WTAG WTAM
 WWJ WWNC

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Chesterfield, See Monday
R — Blue Danube, Waltz Program
 KDYL KFI KFSD KFYR KGO KGW
 KOA KOMO KPRC KSD KSTP
 KTBS WAPI WBAP WBN WCAE
 WCHS WDAF WEAF WEBC WFBF
 WFLA WGY WIOD WIS WJAR
 WJAX WJDX WKY WMAQ WMC
 WOAI WRC WSB WSMB WTAG
 WTAM WWJ WWNC

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C — Boswell Sisters
 CFRB CKOK KFH KLRA KLZ
 KMBC KMOX KRLD KSCJ KSL
 KTRH KTSB KVR WAAB WABC
 WACO WADC WBBM WBCM WBIG
 WBRB WBT WCAH WCAO WCCO
 WDAE WDBJ WDBO WDOD WDSU
 WEAN WFBM WFEA WGR WHEC
 WHK WICW WISN WJVB WLWB
 WLWB WMBD WMT WNAX WNOX
 WODX WOKO WORC WQOW WQAM
 WRC WSPD WTAR WTC

SATURDAY—(Continued)

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Carborundum Band
 CKOK KMBC KMOX WAAB WABC
 WCAO WCAU WCCO WGN WHAS
 WHK WJAS WKBW WKRC WSPD
R — George Olsen and Orchestra
 KDYL KFI KFSD KFYR KGO KGW
 KHQ KOA KOMO KSD KSTP WBAP
 WBN WCAE WCHS WDAF WDAY
 WEAF WEBC WEEI WFBF WFI
 WGY WHO WIBA WJAR WKY WLW
 WMAQ WOAI WOC WQOW WRC
 WSAI WSB WTAG WTAM WTMJ
 WWJ

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Marion Downey
 CFRB CKOK KFH KLRA KLZ
 KMBC KSCJ KSL KTRH KTSB
 KVR WAAB WABC WADC WBBM
 WBCM WBIG WBRB WBT WCAH
 WCAO WCAU WCCO WDAE WDBJ
 WDBO WDOD WDRC WDSU WEAN
 WFBM WFEA WGR WHEC WHAS
 WHK WHP WIBW WICW WJAS
 WJSV WKBB WKWB WLWB WLWB
 WMBD WMT WNAX WNOX WODX
 WOKO WORC WQOW WQAM WRC
 WSBT WSJS WSPD WTAQ
 WTAR WTC

E-10:15 p.m., C-9:15, M-8:15, P-7:15
C — Public Affairs Institute
 KFH KLZ KSCJ KTRH KTSB KVR
 WAAB WABC WADC WBBM WBCM
 WBIG WBRB WBT WCAO WCAU
 WCCO WDAE WDBO WDOD WDRC
 WDSU WEAN WFBM WFEA WHEC
 WICW WJAS WJSV WKBB WLWB
 WLWB WMBD WNAX WOKO WORC
 WPG WQAM WSBT WSJS WSPD
 WTAR WTC WWVA
B — Salon Singers
 CFCE CKGW KDKA KOIL KSO
 KWCR WBAL WBZ WBZA WGAR
 WHAM WJZ WMAQ WREN

E-10:30 p.m., C-9:30, M-8:30, P-7:30
B — Cuckoo Program
 CKGW KDKA KOIL KSO KWCR
 KWK KYW WBAL WCKY WGAR
 WHAM WJZ WREN WSJR

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Guy Lombardo and Orchestra
 CFRB CKOK KFBF KLZ KSCJ KSL
 KTRH KVR WAAB WABC WADC
 WBCM WBRB WBT WCAO WCAU
 WCCO WDAE WDBO WDOD WDRC
 WDSU WEAN WFBM WHEC WHK
 WICW WISN WJAS WJSV WLWB
 WLWB WMBD WNAX WOKO WORC
 WPG WQAM WSBT WSJS WSPD
 WTAR WTC WWVA
B — Buccaneers, Vocal Trio
 CFCE KDKA KOIL KSO KWCR
 KWK WBAL WBZ WHAM WJZ
 WREN

E-11:10 p.m., C-10:10, M-9:10, P-8:10
R — Jack Denny and Orchestra
 KSD WBN WCAE WCKY WCHS
 WDAF WEAF WEEI WFBF WFI
 WGY WHO WJAR WMAQ WOC
 WRC WSAI WTAG WWJ

E-11:15 p.m., C-10:15, M-9:15, P-8:15
R — Low White, Organist
 KOIL KSO KWCR KWK WBAL WBZ
 WBZA WGAR WHAM WJR WJZ
 WRC WREN
B — Murder Mystery, See Tuesday

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Harold Stern and Orchestra
 CFRB CKOK KFBF KLZ KSCJ KSL
 KTRH KVR WAAB WABC WADC
 WBCM WBRB WBT WCAO WCCO
 WDAE WDBO WDOD WDRC WDSU
 WEAN WFBM WHEC WICW WIP
 WJSV WKBB WLWB WLWB WNAX
 WOKO WORC WQAM WSBT WSJS
 WSPD WTAR WTC WWVA
R — Paul Whiteman and Orchestra
 KSD WBN WCAE WCKY WDAF
 WEAF WEEI WFBF WFI WGY
 WHO WJAR WMAQ WOC WTAG
 WWJ

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R — Ted Weems and Orchestra
 KDYL KFSD KFYR KGA KGHL
 KJR KOA KPO KPRC KSD KSTP
 KTAR KTBS WCAE WCKY WDAF
 WDAY WEAF WFAA WFBF WFI
 WGY WHO WIBA WIOD WJAR
 WJAX WMAQ WMC WOAI WOC
 WRC WSB WSMB WTAG WTAM
 WWNC
B — Supper Club, Waldorf-Astoria
 KOIL KSO KWCR KWK KYW WBZ
 WBZA WGAR WHAM WJR WJZ
 WRC WREN WSJR
C — Joe Haymes, See Tuesday

E-12:30 a.m., C-11:30, M-10:30, P-9:30
R — Vincent Lopez and Orchestra
 KDYL KEX KFYR KGA KJR KPO
 KPRC KSD KSTP KTBS KVOO
 WBN WCAE WCKY WDAF WEAF
 WEBC WFBF WFI WFLA WHO
 WIBA WIOD WJAR WJAX WKY
 WMC WOAI WOC WSB WSMB
 WTAG WTAM WWNC

SUNDAY

E-11:15 a.m., C-10:15, M-9:15, P-8:15
R — Major Bowes' Family
 KDYL KEX KFSD KFYR KGA KJR
 KOA KPO KPRC KVOO WBAP
 WDAF WDAY WEAF WFBF WFLA
 WGY WHO WIOD WJAR WJAX
 WKY WMC WOC WRC WSM WSMB
 WTAG WTAM WTMJ WWJ WWNC

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C — Salt Lake Tabernacle Choir
 CFRB CKOK KFBF KLZ KSCJ KSL
 KTRH KTSB KVR WABC WADC
 WBCM WBIG WBT WCAO WCAU
 WCCO WDAE WDBO WDOD WDRC
 WDSU WEAN WFEA WGR WHEC
 WHK WIBW WISN WJAS WJSV
 WKBB WKBB WLWB WLWB WMBD
 WNAX WNAX WODX WOKO WORC
 WPG WQAM WSBT WSJS WSPD
 WTAQ WTAR WWVA

E-12:15 p.m., C-11:15, M-10:15, P-9:15
B — Roxy's Gang
 CFCE CKGW KDKA KDYL KECA
 KEX KFSD KFYR KGA KJR KOA
 KOIL KPO KPRC KSTP KTAR
 KVOO KWK WAPI WBAL WBZ
 WBAZ WDAY WEBC WFAA WFLA
 WGAR WHAM WIBA WIOD WIS
 WJAX WJR WJZ WKY WLW WMAQ
 WOAI WRC WREN WRVA WSB
 WSM WSMB WSJR WWNC

E-12:30 p.m., C-11:30, M-10:30, P-9:30
R — Musical Arts Quartet
 KDYL KPRC KSTP KTBS WBN
 WDAF WEAF WEBC WFBF WFLA
 WGY WJAR WKY WOAI WRC
 WTAM WWJ

E-12:45 p.m., C-11:45, M-10:45, P-9:45
C — Street Singer
 CFRB CKOK KFBF KLZ KMBC
 KSCJ KSL KTRH KTSB KVR
 WABC WADC WBCM WBIG WBT
 WCAO WCCO WDAE WDBO WDOD
 WDSU WGR WHEC WHK WIBW
 WISN WJAS WJSV WKBB WKBB
 WLWB WLWB WMBD WNAX WODX
 WOKO WPG WQAM WSJS WSPD
 WTAQ WTAR WTC WWVA

E-1:00 p.m., C-12:00, M-11:00, P-10:00
C — Freddie Rich's Orchestra
 CFRB CKOK KFBF KLZ KMBC
 KSCJ KTRH KTSB KVR WAAB
 WABC WADC WBCM WBRB WCAU
 WCCO WDAE WDBJ WDOD WDRC
 WDSU WFBL WFBM WGR WGST
 WHEC WHK WISN WJAS WKBB
 WKBB WLWB WLWB WMT WNOX
 WODX WOKO WPG WQAM WREC
 WSFA WSJS WSPD WTAQ WWVA

E-1:15 p.m., C-12:15, M-11:15, P-10:15
C — Little Jack Little
 CFRB CKOK KLZ KMBC KSCJ
 KTRH KTSB KVR WAAB WABC
 WADC WBCM WCCO WDAE WDBJ
 WDOD WDRC WDSU WFBL WFBM
 WGR WGST WHEC WJAS WKBB
 WLWB WLWB WMT WNOX WODX
 WOKO WPG WQAM WREC WSJS
 WSPD WTAQ WWVA
R — Walter Logan Pop Concert
 CFCE CKGW KFYR KPRC KSD
 KSTP KTBS KVOO WAPI WBN
 WCAE WCKY WCHS WDAF WDAY
 WEAF WEBC WFAA WFBF WFI
 WFLA WGY WIBA WIOD WIS WJAR
 WJAX WKY WOAI WQOW WRC
 WRVA WSAI WSB WSM WSMB
 WTAG WTAM WWJ WWNC

E-1:30 p.m., C-12:30, M-11:30, P-10:30
C — Columbia Church of the Air
 CFRB CKOK KLZ KSCJ KSL KTRH
 KTSB KVR WAAB WABC WADC
 WBCM WBIG WCAO WCCO WDAE
 WDBO WDOD WDRC WDSU WGR
 WHEC WIBW WJAS WJSV WKBB
 WLWB WLWB WNAX WODX WOKO
 WPG WQAM WSBT WSJS WSPD
 WTAQ WTAR WTC WWVA

E-2:00 p.m., C-1:00, M-12:00, P-11:00
C — Smiling Ed McConnell
 CKOK KERN KFBK KFPY KFR
 KGB KHJ KLZ KMBC KMOX KOIN
 KOL KSL KVI KWG WABC WBBM
 WBT WCCO WDSU WGR WGST
 WHAS WHEC WJAS WJSV WKRC
 WLAC WNAC WQOW WQAM WRR
R — International Radio Forum
 CFCE CKGW KFI KFSD KGO KGW
 KHQ KOA KOMO KSD KTBS WAPI
 WBN WCAE WCKY WCHS WDAF
 WEAF WEEI WFAA WFBF WFLA
 WGY WIOD WIS WJAR WJAX
 WJDX WMC WOAI WQOW WRVA
 WSAI WSB WSM WSMB WTAG
 WTAM WWJ WWNC
B — Monarch Mystery Teller
 KDKA KDYL KFI KFYR KGO KOA
 KOIL KSO KSTP KWCR KWK WBZ
 WBZA WCKY WDAY WEBC WGAR
 WHAM WIBA WJAR WJAX WJR
 WJZ WMAQ WREN WTMJ WWNC

E-2:15 p.m., C-1:15, M-12:15, P-11:15
C — Poet's Gold — David Ross
 CFRB CKOK KFBF KFH KLRA
 KLZ KMBC KSCJ KSL KTRH KVR
 WABC WACO WADC WBBM WBCM

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CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

BANDS

Carborundum Band, 9:30 p.m., Saturday, C.
Little German Band, 6:00 p.m., Saturday, B.

CONCERTS

Howard Barlow, 11:00 p.m., daily, ex. Sat. and Sun., C.
Blue Danube, 9:00 p.m., Saturday, R.
Boston, Symphony, 8:15 p.m., Saturday, B.
Concert Orchestra, 10:30 p.m., Friday, B.
Gauchos, 11:00 p.m., Sunday, C.
General Electric, 9:00 p.m., Sunday, R.
Alexander Haas, 8:30 p.m., Saturday, C.
Walter Logan, 1:15 p.m., Sunday, R.
New York Philharmonic, 3:00 p.m., Sunday, C.
Walter Smith, 7:15 p.m., Sunday, C.
Caesare Soder, 11:30 p.m., Wed. and Thurs., B.
Symphony Concert, 9:00 p.m., Wednesday, R.
Symphony Marimba, 8:30 p.m., Sunday, B.
Waldorf-Astoria, 6:00 p.m., daily, ex. Sunday, R.
Mischa Weisbord, 7:00 p.m., Wednesday, R.

DANCE BANDS

Victor Arden, 2:30 p.m., Sunday, C.
Ben Bernie, 12 mid. Wed., B; 9:00 p.m. and 12:30 a.m., Tuesday, R.
Cab Calloway, 12 mid. Tuesday and Friday, B.
Jack Denny, 11:30 p.m., Mon. and Thurs.; 11:10 p.m., Saturday, R.
Eddie Duchin, 12 mid. Wednesday and Thursday, C.
Clyde Doerr, 2:15 p.m., Sunday, R.
Joe Furst, 12 mid., Sunday, R.
Joe Haymes, 12 mid., Tuesday and Saturday, C.
Isam Jones, 11:30 p.m., Sun., Tues., Wed. and Thurs., C.
Len Joy, 9:30 p.m., Thursday, B.
Wayne King, 3:00 p.m., Sunday; 8:30 p.m., Tuesday, R.
Del Lampe, 6:15 p.m., Monday and Friday, B.
Guy Lombardo, 11:30 p.m., Mon.; 9:30 p.m., Wed.; 11:00 p.m., Saturday, C.
Vincent Lopez, 10:15 p.m., Sunday, B; 12:30 a.m., Sat., R.
Abe Lyman, 12 mid., Monday; 11:30 p.m., Friday; 8:45 p.m., Tuesday, Wednesday, Thursday, C.
Dick Mansfield, 6:15 p.m., Wednesday, C.
Dolph Martin, 7:30 p.m., Monday, Wednesday, Friday, C.
Freddie Martin, 12 mid., Monday, R.
Ozzie Nelson, 7:15 p.m., Saturday, R.
George Olsen, 9:30 p.m., Saturday, R.
Ben Pollack, 12 mid., Sunday and Friday, C.
Freddie Rich, 1:00 p.m., Sunday, C.
Willard Robison, 9:30 p.m., Tuesday, B.
Harold Stern, 11:30 p.m., Saturday, C.
William Stoess, 12 mid., Sunday, B.
Rudy Vallee, 8:00 p.m., Thursday, R.
Fred Waring, 10:00 p.m., Wednesday, C.
Anson Weeks, 7:00 p.m., Sat., B; 11:00 p.m., Fri., R.
Ted Weems, 11:00 p.m., Monday; 12 mid., Saturday, R.
Paul Whiteman, 6:30 p.m., Sun., B; 9:30 p.m., Mon.; 11:30 p.m., Sat., R.

DIALOG

Fred Allen, 9:00 p.m., Sunday, C.
Amos 'n' Andy, 7 and 11 p.m., daily, ex. Sat. and Sun., B.
Burns and Allen, 9:30 p.m., Wednesday, C.
Cuckoo, 10:30 p.m., Saturday, B.
Easy Aces, 8:00 p.m., Tuesday, Thursday and Saturday, C.
Marx Bros., 7:30 p.m., Monday, B.
Jack McLallen, 10:45 p.m., Tuesday and Thursday, B.
Baron Munchausen, 10:00 p.m., Thursday, R.
Ken Murray, 8:00 p.m., Wednesday, R.
Drs. Pratt and Sherman, 10:15 p.m., Sunday, B.
Reis and Dunn, 6:15 p.m., Monday and Tuesday, C.
Stoopnagle and Budd, 9:30 p.m., Thursday, C.
Three California Nuts, 9:00 p.m., Friday, R.
Van and Don, 7:30 p.m., Monday and Thursday, R.
Vic and Sade, 10:15 p.m., Mon., Tues., Thurs., Fri., B.

DRAMA

Big Ben, 5:15 p.m., Sunday, R.
Octavus R. Cohen Mystery, 7:45 and 11:15 p.m., Tues., Thurs., Sat., B.

Death Valley Days, 9:00 p.m., Thursday, B.
Eno Crime Club, 8:00 p.m., Tuesday and Wednesday, B.
First Nighter, 9:00 p.m., Friday, B.
Foreign Legion, 10:30 p.m., Sunday, C.
Fu Manchu Mystery, 8:30 p.m., Monday, C.
Goldbergs, 7:45 p.m. and 12 mid., daily, ex. Sat. and Sun., R.
Great Moments in History, 7:30 p.m., Sunday, B.
Griffith's Hollywood, 10:00 p.m., Sun. and Wed., B.
John Henry, 8:00 and 8:45 p.m., Sunday, C.
Sherlock Holmes, 9:00 p.m. and 12:15 a.m., Wednesday, B.
Orange Lantern, 10:45 p.m., Sunday, B.
Phillips Lord, 8:45 p.m., Mon., Tues. and Wed., B.
Magic Voice, 8:15 p.m., Tuesday and Saturday, C.
March of Time, 8:30 p.m., Friday, C.
Moonshine and Honeyuckle, 2:30 p.m., Sunday, R.
Myrt and Marge, 7:00 and 10:45 p.m., daily, ex. Sat. and Sun., C.
Mysteries in Paris, 9:30 p.m., Monday, C.
Pages of Romance, 5:30 p.m., Sunday, B.
Rin Tin Tin, 8:30 p.m., Thursday, B.
Buck Rogers, 7:15 p.m., daily, ex. Sat. and Sun., C.
Roses and Drums, 5:00 p.m., Sunday, C.
The Shadow, 8:30 p.m., Wednesday, R.
Soonyland Sketches, 8:00 p.m., Monday, R.
Squibb's, 4:30 p.m., Sunday, R.
Wheatenaville, 7:15 p.m., daily, ex. Friday and Saturday, R.
Jesse Crawford, 11:30 p.m., Sunday, B.

PIANO AND ORGAN

Fray and Braggiotti, 10:45 p.m., Wednesday and Friday, C.
Archer Gibson, 8:00 p.m., Saturday, R.
Gruen and Hall, 7:00 p.m., Monday, R.
Harding Sisters, 6:30 p.m., Wednesday, R.
Ernest Hutcheson, 10:00 p.m., Sunday, C.
Vee Lawnhurst, 4:15 p.m., Sunday, R.
Ohman and Arden, 2:30 p.m., Sun., C.; 9:30 p.m., Sun., R.
Lew White, 11:15 p.m., Saturday, B.

POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m., Monday, R.
Album of Familiar Music, 9:30 p.m., Sunday, R.
Armour Program, 9:30 p.m., Friday, B.
Bath Club, 9:00 p.m., Sunday, C.
Blue Coal Revue, 5:30 p.m., Sunday, C.
Major Bowes' Family, 11:15 a.m., Sunday, R.
California Melodies, 9:30 p.m., Tuesday, C.
Chase and Sanborn, 8:00 p.m., Sunday, R.
Cities Service, 8:00 p.m., Friday, R.
Clicquot Club Eskimos, 8:00 p.m., Monday, B.
Columbia Revue, 10:00 p.m., Monday and Friday, C.
Contented Program, 10:00 p.m., Monday, R.
Corn Cob Pipe Club, 10:00 p.m., Wednesday, R.
Firestone, 8:30 and 11:30 p.m., Monday, R.
Five Star Theatre, 10:00 p.m., Tues. and Thurs., C.; 7:30 p.m., Mon., Wed. and Fri., B.
Jack Frost's Melody, 9:30 p.m., Monday, B.
Household Musical Memories, 9:00 p.m., Tuesday, B.
Inside Story, 9:30 p.m., Friday, C.
Lucky Strike, 10:00 p.m., Tuesday and Thursday, R.
Manhattan Merry-Go-Round, 3:30 p.m., Sunday, B.
Maxwell House, 9:00 p.m., Thursday, B.
Borrah Minevitch, 7:00 p.m., Sun.; 10:45 p.m., Fri., R.
Nestle's Program, 8:00 p.m., Friday, B.
Old Gold, 10:00 p.m., Wednesday, C.
Pennsolt Parade, 9:30 p.m., Sunday, C.
Poet's Gold, 2:15 p.m., Sunday, C.
Pond's Program, 9:30 p.m., Friday, R.
Rox's Gang, 12:15 p.m., Sunday, B.
Royal Vagabonds, 8:00 p.m., Wednesday, R.
Andy Sanella, 6:45 p.m., Wednesday, R.
Singer Club, 12 mid., Saturday, B.
Swift's Garden, 5:30 p.m., Sunday, R.
Wildroot Institute, 4:15 p.m., Sunday, R.
Ed Wynn, 9:30 p.m., Tuesday, R.
Yeast Foamers, 2:30 p.m., Sunday, B.

QUARTETS

Mills Brothers, 9:15 p.m., Monday and Thursday, C.
Revelers, 4:30 p.m., Sunday, R.
Singing Cylinders, 5:30 and 6:30 p.m., Sunday, B.

RELIGIOUS

Dr. S. Parkes Cadman, 3:30 p.m., Sunday, R.
Cathedral Hour, 6:30 p.m., Sunday, C.
Catholic Hour, 6:00 p.m., Sunday, R.
Church of the Air, 1:30 p.m., Sunday, C.
Rev. Charles E. Coughlin, 4:00 p.m., Sunday, B.
Mid-Week Hymn Sing, 6:30 p.m., Tuesday, R.
National Vespers, 5:00 p.m., Sunday, B.
National Youth Conference, 4:30 p.m., Sunday, B.
Our Church Music, 3:00 p.m., Sunday, B.
Seth Parker's, 10:45 p.m., Sunday, R.
Salt Lake Choir, 12 noon, Sunday, C.
Temple of Song, 4:00 p.m., Sunday, B.

SINGERS

Homay Bailey, 10:30 p.m., Tuesday and Thursday, B.
Elizabeth Barthell, 6:00 p.m., Monday, C.
Al Bernard, 6:30 p.m., Monday, R.
Boswell Sisters, 10:30 p.m., Thurs.; 9:15 p.m., Sat., C.
Buccaneers, 11:00 p.m., Saturday, B.
Eddie Cantor, 8:00 p.m., Sunday, R.
Charles Carlie, 10:45 p.m., Tuesday, C.
Richard Crooks, 8:30 and 11:30 p.m., every other Monday, R.
Bing Crosby, 9:00 p.m., Wednesday and Saturday, C.
Vaughn DeLeath, 6:30 p.m., Mon.; 6:00 p.m., Wed., Fri., C.
Morton Downey, 10:45 p.m., Thurs.; 10:00 p.m., Sat., C.; 9:30 p.m., Wed., B.
Jessica Dragonette, 8:00 p.m., Friday, R.
Mary Eastman, 8:15 p.m., Sunday; 9:15 p.m., Friday, C.
Ruth Etting, 9:00 p.m., Monday and Thursday, C.
Fields and Hall, 6:45 p.m., Saturday, B.
Jack Fulton, 11:00 p.m., Tuesday, B.
Wilfred Glenn, 10:00 p.m., Thursday, B.
Alice Joy, 10:30 p.m., Mon.; 10:15 p.m., Wed.; 10:00 p.m., Fri., B.
Al Jolson, 10:00 p.m., Friday, R.
Keller, Sargent and Ross, 7:30 p.m., Tues. and Thurs., C.
Jeanie Lang, 9:30 p.m., Thursday, C.
Harriet Lee, 8:30 p.m., Wednesday, B.
Little Jack Little, 1:15 p.m., Sunday, C.
Nino Martini, 11:00 p.m., Wednesday and Friday, C.
Smiling Ed McConnell, 2:00 p.m., Sunday, C.
Tommy McLaughlin, 9:15 p.m., Tuesday, C.
James Melton, 7:30 p.m., Sunday; 7:00 p.m., Tuesday; 11:00 p.m., Thursday, R.
Monarch Mystery Tenor, 2:00 p.m., Sunday, B.
Frank Munn, 9:30 p.m., Sunday, R.
Donald Novis, 9:30 p.m., Wednesday; 6:30 p.m., Thursday; 7:00 p.m., Friday, R.
Carson Robison, 7:15 p.m., Wednesday and Thursday, B.

Lanny Ross, 9:00 p.m., Thursday, R.
Romantic Bachelor, 9:15 p.m., Wednesday, C.
Harry Rose, 2:30 p.m., Sunday, C.
Salon Singers, 10:15 p.m., Saturday, B.
Sanderson-Crumit, 8:00 p.m., Tuesday, R.
Ethel Shutta, 9:30 p.m., Saturday, R.
Singer Sam, 8:15 p.m., Monday, Wednesday, Friday, C.
Sizzlers Trio, 10:00 p.m., Monday, B.
Kate Smith, 8:30 p.m., Tuesday, Wednesday, Thursday, C.
Aileen Stanley, 11:15 p.m., Sunday, B.
Street Singer, 12:45 p.m., Sunday 7:45 p.m., Saturday, C.
Tastyest Jesters, 7:15 p.m., Monday, B.
Lawrence Tibbett, 8:30 and 11:30 p.m., every other Monday, R.
Trade and Mark, 8:00 p.m., Fri., C.; 7:45 p.m., Sunday, R.
Gus Van, 9:30 p.m., Saturday, R.
Whispering Jack Smith, 8:00 p.m., Mon. and Wed.; 8:15 p.m., Thurs., C.
Women's Octet, 11:15 p.m., Tuesday, B.

TALKS

America's Grub Street, 6:00 p.m., Saturday, C.
American Taxpayers' League, 8:00 p.m., Saturday, B.
Boake Carter, 7:45 p.m., daily, ex. Sat. and Sun., C.
Don Carney Dog Chats, 8:30 p.m., Monday, B.
Economic World Today, 8:30 p.m., Saturday, R.
William Hard, 6:45 p.m., Tuesday, R.
Edwin C. Hill, 10:30 p.m., Mon., Tues., Wed.; 9:30 p.m., Friday, C.
Horlick's Health, 8:30 p.m., Tuesday and Friday, B.
International Forum, 2:00 p.m., Sunday, R.
H. V. Kaltenborn, 6:00 p.m., Tuesday and Thursday, C.
Dr. Julius Klein, 7:00 p.m., Sunday, C.
Warden Lawes, 9:00 p.m., Sunday, B.
David Lawrence, 10:00 p.m., Sunday, R.
Laws That Safeguard, 6:30 p.m., Saturday, B.
National Radio Forum, 10:30 p.m., Monday, R.
Our American Schools, 6:30 p.m., Sunday, R.
Angelo Patri, 7:45 and 11:15 p.m., Sunday, C.
Public Affairs Institute, 10:15 p.m., Saturday, C.
Radio in Education, 7:15 p.m., Tuesday, B.
Nellie Revell, 11:00 p.m., Wednesday, R.
Sigmund Spaeth, 10:00 p.m., Tuesday, B.
Lowell Thomas, 6:45 p.m., daily, ex. Sat. and Sun., B; 5:00 p.m., Sunday, R.
Marie Thorne, 7:15 p.m., Saturday, B.
Howard Thurston, 8:45 p.m., Thurs. and Fri., B.
Carveth Wells, 10:30 p.m., Wednesday, R.
Frederic William Wile, 7:00 p.m., Saturday, C.
Walter Winchell, 9:30 and 11:15 p.m., Sunday, B.

KEY TO SYMBOLS

As Shown in the Index by Frequencies and Dial Numbers

Frequency is given in kilocycles; wavelength in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column. R-C indicates Remote Control. Where space permits, names of hotels or other buildings used in announcements are shown in parenthesis. These are not mail addresses.

Second Column Symbols			
a	Verifies reception for return postage.	B	National "Blue" network.
b	Verifies only occasionally.	C	Columbia network.
c	Does not verify.	D	Daytime only.
d	Verification 10c; letter 25c.	Dn	Daytime with occasional evening hours.
e	Sends Ekko stamp for 10c.	E	Trans-Canada network.
f	Sends Ekko stamp for 5c.	F	Canadian National Railways network.
g	Sends Ekko stamp for postage.	G	All Canadian networks.
h	Sends own station stamp for 10c.	H	Yankee network.
i	Sends own station stamp for 5c.	J	Orange and gold network.
j	Sends own station stamp for postage.	K	Mexican networks.
k	Has no stamps.	L	Canadian Pacific Ry. network (Dominion).
s	No information available.	M	Canadian Radio Corp. network.
Fourth Column Symbols			
A	These stations are synchronized.	N	National "Red" and "Blue" networks.
P	Has construction permit only.	Q	Great Lakes network.
R	Great Lakes network.	R	National "Red" network.
S	Sunday only.	S	Sunday only.
T	Don Lee System.	U	Dixie network.
V	Maritime Broadcasting network.	V	Maritime Broadcasting network.
W	Curtis-Indiana network.	X	Has permit to increase power.
X	Has permit to increase power.	Y	Has permit to change location.
Y	Has permit to change location.	Z	Has permit to change frequency.
Z	Has permit to change frequency.	a-b-c	Small letters show stations using same transmitter.
1-2-3	Figures denote stations sharing time.	1-2-3	Figures denote stations sharing time.
.....	No information.		No information.

INDEX BY FREQUENCIES AND DIAL NUMBERS

NOTICE OF COPYRIGHT

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FOR KEY TO SYMBOLS SEE PAGE 45

540 kilocycles 555.2 meters

CKOK	ae	5000	CG	Windsor, Ont.	Essex Broadcasters, Ltd.
XKEY	z	105	546.8	Merida, Mex.	Partido Socialista S. E.

550 kilocycles 545.1 meters

KFDY	ae	1000	1	Brookings, S. D.	South Dakota State College
KFUO	ae	1000	2(1)	St. Louis, Mo.	Evangelical Lutheran Church
KFYR	ah	1000	1N(2.5)	Bismarck, No. Dakota	Meyer Broadcasting Co.
KOAC	ak	1000	.....	Corvallis, Ore.	Oregon State Agricultural College
KSD	ak	500	2R	St. Louis, Mo.	Pulitzer Publishing Co.
WDEV	ae	500	D	Waterbury, Vt.	Harry G. Whitehill
WGR	ae	1000	C	Buffalo, N. Y.	Buffalo Broadcasting Corp.
WKRC	ak	1000	C	Cincinnati, Ohio	WKRC, Inc., Hotel Alms

560 kilocycles 535.4 meters

KFDM	ak	500	(1)	Beaumont, Texas	Sabine Broadcasting Co., Inc.
KLZ	ae	1000	C	Denver, Colo.	Reynolds Radio Co., Inc.
KTAB	ae	1000	.....	San Francisco, Calif.	Associated Broadcasters, Inc.
WFI	ae	500	1R	Philadelphia, Pa.	WFI Broadcasting Co.
WBO	ae	1000	(1.5)a	Chicago, Ill.	Nelson Bros. Bond & Mtg. Co.
WLIT	ak	500	1R	Philadelphia, Pa.	Lit Bros. Broadcasting System, Inc.
WNOX	ak	1000	C(2)	Knoxville, Tenn.	WNOX Inc.
WPCC	ak	500	Sa	Chicago, Ill.	North Shore Congregational Church
WQAM	ae	1000	C	Miami, Fla.	Miami Broadcasting Co.

570 kilocycles 526.0 meters

KGKO	z	250	(.5)	Wichita Falls, Texas	Wichita Falls Broadcasting Co.
KMTR	ae	500	.....	Hollywood, Calif.	KMTR Radio Corp.
KVI	ae	500	C	Tacoma, Wash.	Puget Sound Broadcasting Co.
WEO	ae	1000	1	Columbus, Ohio	Ohio State University
WKBN	ak	500	1C	Youngstown, Ohio	WKBN Broadcasting Corp.
WMCA	ak	500	3	New York, N. Y.	Knickerbocker Broadcasting Co., Inc.
WNAX	ae	1000	C(2.5)	Yankton, S. D.	House of Gurney, Inc.
WNYC	ak	500	3	New York, N. Y.	Dept. of Plant & Structures
WSYR	ak	250	B2	Syracuse, N. Y.	Central N. Y. Brdcastg. Corp., (WMAC)
WWNC	ae	1000	N	Asheville, N. C.	Citizens Broadcasting Co., Inc.

580 kilocycles 516.9 meters

CFCY	ae	500	E	Charlottetown, P. E. I.	Island Radio Broadcasting Co., Ltd.
CHMA	ak	250	4S	Edmonton, Alta.	Christian & Missionary Alliance
CKCL	aj	500	.....	Toronto, Ont.	The Dominion Battery Co.
CKUA	ak	500	4F	Edmonton, Alta.	University of Alberta
CMDD	z	150	588	Havana, Cuba	G. deSequeira
CMW	ae	1400	585	Havana, Cuba	Troncoso y Gil
KMJ	ak	500	CT	Fresno, Calif.	McClatchy Radio Stations (Fresno Bee)
KSAC	ak	500	2(1)	Manhattan, Kans.	State Agricultural College
WDBO	ae	250	CU	Orlando, Fla.	Orlando Broadcasting Co., Inc.
WIBW	ae	1000	C2	Topeka, Kans.	Topeka Broadcast Assn., Inc.
WOBW	ak	250	1(5)	Charleston, W. Va.	WOBW, Inc., Ruffner Hotel
WSAZ	ak	250	1(5)	Huntington, W. Va.	WSAZ, Inc.
WTAG	ae	250	R(.5)	Worcester, Mass.	Worcester Telegram Pub. Co., Inc.
XEPN	z	100000	585	Piedras Negras, Mex.	(Yolanda Hotel), Eagle Pass, Texas

590 kilocycles 508.2 meters

CJQC	ae	5000	595GZ	London, Ont.	Free Press Printing Co., Ltd.
KHQ	ak	1000	N(2)	Spokane, Wash.	Louis Wasmer, Inc.
WCAJ	ae	500	1	Lincoln, Neb.	Nebraska Wesleyan University
WEEI	ak	1000	R	Boston, Mass.	Edison Electric Illuminating Co.
WKZO	ae	1000	D	Kalamazoo, Mich.	WKZO, Inc., Burdick Hotel
WOW	ach	1000	1R	Omaha, Neb.	Woodmen of the World

INDEX BY FREQUENCIES AND DIAL NUMBERS

600 kilocycles 499.7 meters

CNRO	ak	500	F	Ottawa, Ont.	Canadian National Railways
KFSD	ah	1000	N	San Diego, Calif.	Airfan Radio Corp.
WCAC	ak	250	2	Storrs, Conn.	Connecticut Agricultural College
WCAO	ae	250	C	Baltimore, Md.	Monumental Radio Co.
WICC	ae	250	2H(.5)C	Bridgeport, Conn.	Bridgeport Bdtg. Station, Inc.
WMT	ak	500	C	Waterloo, Iowa	Waterloo Broadcasting Co.
WREC	z	500	C(1)	Memphis, Tenn.	WREC, Inc.

610 kilocycles 491.5 meters

KFRK	ae	1000	C	San Francisco, Calif.	Don Lee Broadcasting System
WDAF	ae	1000	R	Kansas City, Mo.	Kansas City Star Co.
WIP	ak	500	C	Philadelphia, Pa.	Pennsylvania Bdtg. Co. (WFAN)
WJAY	ae	500	D	Cleveland, Ohio	Cleveland Radio Broadcasting Corp.
XETR	z	1000	.....	Mexico City, Mexico	Cia. Difusora Mexicana S. A.

620 kilocycles 483.6 meters

KGW	ae	1000	N	Portland, Ore.	Oregonian Publishing Co.
KIAR	ae	500	NJ(1)	Phoenix, Ariz.	KTAR Broadcasting Co.
WFLA	ae	1000	Na(2.5)	Clearwater, Fla.	Florida West Coast Bdtg. Co., Inc.
WLBZ	ak	500	C	Bangor, Maine	Maine Broadcasting Co., Inc.
WSUN	ae	1000	Na(2.5)	St. Petersburg, Fla.	Florida West Coast Bdtg. Co., Inc.
WTMJ	ae	1000	N(2.5)	Milwaukee, Wis.	Journal Company

630 kilocycles 475.9 meters

CFCT	ae	500	G	Victoria, B. C.	Victoria Broadcasting Assn.
CJGX	ae	500	FL	Yorkton, Sask.	Winnipeg Grain Exchange
CKOC	ae	1000	635aG	Hamilton, Ont.	Wentworth Radio Bdtg. Co., Ltd.
CKTB	ae	1000	635aL	St. Catharines, Ont.	Wentworth Radio Bdtg. Co., Ltd.
CMCU	z	150	.....	Havana, Cuba	Jorge Garcia Serra
CMQ	z	250	.....	Havana, Cuba	Jose Fernandez
CNRA	ae	700	F	Moncton, N. B.	Canadian National Railways
HIX	ah	1000	.....	Santo Domingo, D. R.	The Dominican Government
KFRU	ak	500	I	Columbia, Mo.	KFRU, Inc.
KGFX	z	200	D	Pierre, S. D.	Dana McNeil
WGFB	ae	500	W-1	Evansville, Ind.	Evansville On the Air, Inc.
WMAL	ae	250	(.5)-B	Washington, D. C.	M. A. Leese Radio Corp., Inc.
WOS	ak	500	1D	Jefferson City, Mo.	Missouri State Marketing Bureau
XETF	ak	500	K	Veracruz, Ver., Mexico	Manuel Angel Fernandez
XFG	z	2000	638.3	Mexico City, Mexico	Sria. de Guerra y Marina

640 kilocycles 468.5 meters

CHRC	ak	100	645aG	Quebec, Que.	CHRC, Ltd., Victoria Hotel
CKCI	ck	100	645a	Quebec, Que.	Le Soleil, Ltd.
CKCR	ak	100	645G	Waterloo, Ont.	Mitchell & Little
KFI	ah	50000	N1	Los Angeles, Calif.	Earl C. Anthony, Inc.
WAIU	ae	500	I	Columbus, Ohio	Associated Radiocasting Corp.
WOI	ae	5000	D	Ames, Iowa	State College of Agriculture

650 kilocycles 461.3 meters

KPCB	ae	100	.....	Seattle, Wash.	Queen City Broadcasting Co.
WSM	aej	50000	N	Nashville, Tenn.	National Life & Accident Ins. Co.

660 kilocycles 454.3 meters

CHWK	ak	100	665	Chilliwack, B. C.	Chilliwack Broadcasting Co., Ltd.
CJRM	z	500	665	Moose Jaw, Sask.	Jas. Richardson & Sons, Ltd.
CJRW	z	1000	665	Fleming, Sask.	Jas. Richardson & Sons, Ltd.
RUS	z	500	664	Salvador	Republic of El Salvador
WAAW	agh	500	D	Omaha, Neb.	Omaha Grain Exchange
WEAF	ak	50000	R	New York City	National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

WMAQ	ae	5000	N	Chicago, Ill.	WMAQ, Inc. (NBC Lessees)
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680 kilocycles 440.9 meters

CMAF	ak	1000		Havana, Cuba	International Broadcasting Co.
KFEQ	ae	2500	D	St. Joseph, Mo.	Scroggin & Co., Bank
KPO	ak	5000	N	San Francisco, Calif.	National Broadcasting Co., Inc.
WPTF	ae	1000	N Dn	Raleigh, N. C.	Durham Life Insurance Co.

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690 kilocycles 434.5 meters

CFAC	ak	500	1G	Calgary, Alta.
CFRB	ak	1000	CM	Toronto, Ont.
CJCJ	ak	500	1LE	Calgary, Alta.
NAA	z	1000	.....	Arlington, Va.
VAS	z	2000	685(4)	Gloucester, N. S.
XET	ck	500	.....	Monterrey, Mexico

Calgary Herald, Ltd.
Rogers-Majestic Corp., Ltd.
Albertan Publishing Co., Ltd.
U. S. Navy
Canadian Marconi Co.
Cadena Radio Difusora Mexicana S. A.

700 kilocycles 428.3 meters

WLW	ae	50000	N	Cincinnati, Ohio
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The Crosley Radio Corporation

710 kilocycles 422.3 meters

KMPC	ae	500	Dn	Beverly Hills, Calif.
WOR	ak	5000	X	Newark, N. J.
XEN	agj	1000	711K	Mexico City

R. S. MacMillan
Bamberger's Broadcasting Service, Inc.
Cerveceria Modelo S. A.

720 kilocycles 416.4 meters

WGN	ak	25000	C	Chicago, Ill.
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WGN, Inc., Drake Hotel

730 kilocycles 410.7 meters

CHLS	ak	100	1b	Vancouver, B. C.
CHYC	z	5000	5a	Montreal, Que.
CKAC	ak	5000	CaM	Montreal, Que.
CKCD	z	100	1b	Vancouver, B. C.
CKFC	ak	50	1	Vancouver, B. C.
CKMO	z	100	1	Vancouver, B. C.
CKWX	ak	100	1L	Vancouver, B. C.
CMK	ae	3150	.....	Havana, Cuba
XEF-XER	z	75000	735-665	Villa Acuna, Mexico

W. G. Hassell (Province Bldg.)
Northern Electric Co., Ltd.
La Presse Publishing Co., Ltd.
Vancouver Daily Province
United Church of Canada
Sprott-Shaw Radio Co.
Western Broadcasting Co., Ltd.
National Broadcasting Co. of Cuba
Villa Acuna Broadcasting Co., Inc.

740 kilocycles 405.2 meters

CJCA	ae	500	745EL	Edmonton, Alberta
KMMJ	bk	1000	Dn	Clay Center, Neb.
WSB	ae	5000	N	Atlanta, Ga.
WHBB	ak	250	D	Portsmouth, N. H.

Edmonton Journal, Ltd.
M. M. Johnson Co. (R/C Lincoln)
Atlanta Journal, Biltmore Hotel
Granite State Broadcasting Co.

750 kilocycles 399.8 meters

KGU	aj	2500	NX	Honolulu, Hawaii
VOWR	ak	750	.....	St. John's, N. F.
WJR	ak	10000	B	Detroit, Mich.
XEAN	ae	5000	.....	Juarez, Chih., Mexico

Advertiser Publishing Co.
Wesley United Church
WJR, The Goodwill Station, Inc.
Radio Difusora Nacional S. A.

760 kilocycles 394.5 meters

KXA	ae	250	(5)	Seattle, Wash.
WBAL	ae	10000	BA	Baltimore, Md.
WEW	ae	1000	D	St. Louis, Mo.
WJZ	ck	50000	BA	New York City

American Radio Tel. Co.
(See 1060 kcys. also)
St. Louis University
National Broadcasting Co., Inc.

770 kilocycles 389.4 meters

KFAB	ae	5000	1C	Lincoln, Neb.
WBBM	ae	25000	1C	Chicago, Ill.

KFAB Broadcasting Co.
WBBM Bldg. Corp. (Wrigley Bldg.)

780 kilocycles 384.4 meters

CKY	z	5000	.....	Winnipeg, Man.
CMBS	z	150	.....	Havana, Cuba
CMCQ	z	1000	.....	Havana, Cuba
KELW	ae	500	2(1)	Burbank, Calif.
KTM	ae	500	2(1)	Los Angeles, Calif.
WEAN	ak	250	CH(5)	Providence, R. I.
WMC	ak	500	N(1)	Memphis, Tenn.
WPCOR	ae	500	b	Portsmouth, Va.
WTAR	ae	500	bC	Norfolk, Va.
XEP	z	1000	.....	Mexico City

Manitoba Telephone System
Enrique Artealejo
Andres Martinez
Magnolia Park, Ltd.
Pickwick Broadcasting Corp., Ltd.
Shepard Broadcasting Service, Inc.
Memphis Commercial Appeal, Inc.
WTAR Radio Corp. (Norfolk)
WTAR Radio Corp.
Cia. Difusora de Mexico S. A.

790 kilocycles 379.5 meters

CMHC	z	250	.....	Tuvalu, Cuba
CMJK	ae	300	.....	Camaguey, Cuba
KGO	ak	7500	N	San Francisco, Calif.
WGY	ak	50000	R	Schenectady, N. Y.

Frank H. Jones
Tano Gomez
General Electric Co. (Opr. NBC)
General Electric Co.

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800 kilocycles 374.8 meters

WBAP	ak	50000	Na	Fort Worth, Texas
WFAA	ak	50000	Na	Dallas, Texas

Carter Publications, Inc.
Dallas News-Dallas Journal

810 kilocycles 370.2 meters

CHNS	ae	500	815aZG	Halifax, N. S.
CNRH	ak	500	815aZ	Halifax, N. S.
VOAS	ak	200	D	St. John's, N. F.
WCCO	ae	50000	C	Minneapolis, Minn.
WPCH	ak	500	D	New York City
XFC	z	350	.....	Aguascalientes, Mex.
XFI	z	1000	818	Mexico City, Mexico

Maritime Bdctg. Co., Ltd. Opr.
Canadian National Railways
Ayre & Sons, Ltd.
Northwestern Broadcasting, Inc.
Eastern Broadcasters, Inc.
Gobierno del Estado de Aguascalientes
Sria. de Ind. C. y Trabajo

820 kilocycles 365.6 meters

CMGC	z	30	.....	Matanzas, Cuba
WHAS	aj	25000	C	Louisville, Ky.

Oscar S. Mechoso
The Louisville Times Co., Inc.

830 kilocycles 361.2 meters

CMGA	z	100	834	Colon, Cuba
KOA	ak	12500	NJ	Denver, Colo.
WEEU	ak	1000	D	Reading, Pa.
WHDD	ae	1000	DY	Boston, Mass.
WRUF	ae	5000	DnC	Gainesville, Fla.
XETW	z	500	.....	Mexico City, Mexico

L. Valdes Figueroa
General Electric Co. (NBC Opr.)
Berks Broadcasting Co.
Matheson Radio Co., Inc.
State of Florida (Univ. of Fla.)
Rafael M. Pena

840 kilocycles 356.9 meters

CHNC	z	5000	a	Toronto, Ont.
CKGW	ae	5000	NEA	Toronto, Ont.
CKLK	ak	1000	G	Red Deer, Alta.
CMC	z	500	.....	Havana, Cuba
CPRY	ae	5000	La	Toronto, Ont.
XETH	z	100	.....	Puebla, Mexico
XETM	z	15000	P845	Matamoros, Mex.
XFB	z	500	.....	Jalapa, Mexico

Canadian National Carbon Co., Ltd.
Gooderham & Worts, Ltd.
Alberta Pacific Grain Co., Ltd.
Cuban Telephone Co.
Canadian Pacific Co., Royal York Hotel
Ramon Huerta
Miguel Musquiz, A.
Estado de Vera Cruz

850 kilocycles 352.7 meters

KIEV	z	100	D	Glendale, Calif.
KWKH	ae	10000	1	Shreveport, La.
WWL	ak	10000	1DnX	New Orleans, La.

Cannon Systems, Inc.
Hello World Broadcasting Corp.
WWL Development Co. (Loyola Univ.)

860 kilocycles 348.6 meters

VOGY	z	500	P	St. John's, N. F.
WABC	ae	50000	aC	New York City
WBOQ	ae	50000	a	New York City
WHB	ae	500	D	Kansas City, Mo.
XFX	z	500	.....	Mexico City, Mexico

Atlantic Broadcasting Corp.
Atlantic Broadcasting Corp. (tests)
WHB Broadcasting Co.
Secretaria de Educacion Publica

870 kilocycles 344.6 meters

WENR	ak	50000	Na	Chicago, Ill.
WLS	ae	50000	Na	Chicago, Ill.

Great Lakes Bdctg. Co. NBC Opr.
Agricultural Broadcasting Co.

880 kilocycles 340.7 meters

CHML	ae	50	4G	Hamilton, Ont.
CJCB	ak	100	G	Sydney, N. S.
CKCV	ak	100	.....	Quebec, Que.
CKPC	ak	100	4L	Preston, Ont.
KFKA	ak	500	2(1)	Greeley, Colo.
KLX	ae	500	.....	Oakland, Calif.
KPOF	ae	500	2	Denver, Colo.
WCOE	ae	500	(1)	Meridian, Miss.
WGBI	ah	250	Q1	Scranton, Pa.
WQAN	ak	250	1	Scranton, Pa.
WSUI	ae	500	.....	Iowa City, Iowa

Maple Leaf Radio Co., Ltd.
Nathanson's Radio Headquarters
Vandry, Inc.
Cyrus Dolph
Mid-Western Radio Corp.
Tribune Publishing Co.
Pillar of Fire
Mississippi Broadcasting Co., Inc.
Scranton Broadcasters, Inc.
Scranton Times
State University of Iowa

890 kilocycles 336.9 meters

CFBO	z	500	.....	St. John, N. B.
CKCO	z	100	3	Ottawa, Ont.
CKPR	ak	100	3G	Fort William, Ont.
CMCF	ak	250	1	Havana, Cuba
CMX	ae	500	1	Havana, Cuba
KARK	ae	250	.....	Little Rock, Ark.
KENF	ak	500	2(1)	Shenandoah, Iowa
KSEI	ae	250	(5)	Pocatello, Idaho
KUSD	ae	500	2	Vermillion, S. Dak.

C. A. Munro, Ltd.
Dr. G. M. Geldert
Dougall Motor Car Co., Ltd.
Raoul Karman, Casa DelaPorte
Casa "Lavin" Francisco A. Lavin, Adm.
Arkansas Radio & Equipment Co.
Henry Field Company
Radio Service Corporation
University of South Dakota

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VOGT	ae	400	893	Wabana, N. F.	The Gaiety Theatre
WGST	ak	250	C(5)	Atlanta, Ga.	Southern Broadcasting Co.
WILL	ak	250	2(5)	Urbana, Ill.	University of Illinois
WJAX	ae	250	(5)R	Providence, R. I.	The Outlet Co.
WMMN	ae	250	(5)	Fairmont, W. Va.	A. M. Rowe, Inc.
XETU	z	100	.....	Pachuca, Mexico	Rodrigo Mariquez
900 kilocycles 333.1 meters					
KGBU	ak	500	.....	Ketchikan, Alaska	Alaska Radio & Service Co.
KHJ	ae	1000	CT	Los Angeles, Calif.	Don Lee Broadcasting System
WBEN	ae	1000	R	Buffalo, N. Y.	WBEN, Inc., Buffalo Evening News
WJAX	ae	1000	N	Jacksonville, Fla.	City of Jacksonville
WKY	ae	1000	N	Oklahoma City, Okla.	Oklahoma Publishing Co.
WLBL	ae	2000	D	Stevens Point, Wis.	Wis. Dept. Agriculture & Markets
910 kilocycles 329.6 meters					
CFQC	z	500	.....	Saskatoon, Sask.	The Electric Shop, Ltd.
CFCL	ae	100	915	Prescott, Ont.	Radio Association of Prescott
TICR	z	50	911	San Jose, Costa Rica	
XEW	ak	5000	.....	Mexico City, Mexico	Cadena Radio-difusora Mexicana S. A.
XFF	z	500	915	Chihuahua, Mex.	Gobierno del Estado de Chihuahua
920 kilocycles 325.9 meters					
CMBW	z	150	925	Havana, Cuba	Alvarez-Moris
CMCN	z	250	925	Havana, Cuba	Antonio Ginard
CMDE	z	250	925	Havana, Cuba	Evilio Villar
HHK	z	1000	.....	Port au Prince, Haiti	Republic of Haiti
KFEL	ak	500	1	Denver, Colo.	Gene O'Fallon (Albany Hotel)
KFXF	ae	500	1	Denver, Colo.	Colorado Radio Corp.
KOMO	aj	1000	N	Seattle, Wash.	Fisher's Blend Station, Inc.
KPRC	ae	1000	N(2.5)	Houston, Texas	Houston Printing Co. (Houston Post)
WAAF	ak	500	D	Chicago, Ill.	Drovers Journal Publishing Co.
WBSO	ae	500	D	Babson Park, Mass.	Broadcasting Service Org., Inc.
WWJ	ak	1000	R	Detroit, Mich.	The Detroit News
930 kilocycles 322.4 meters					
CFCH	ak	100	3LM	North Bay, Ont.	Northern Supplies, Ltd.
CFRC	ak	50	3(2)	Kingston, Ont.	Queen's University
CKX	ak	500	B	Brandon, Manitoba	Manitoba Telephone System
CMJF	z	200	.....	Camaguey, Cuba	John L. Stowers
KFWI	aj	500	1	San Francisco, Calif.	Radio Entertainments, Ltd.
KGBZ	ak	500	2(1)	York, Neb.	Dr. Geo. R. Miller
KMA	ae	500	2(1)	Shenandoah, Iowa	Earl E. May Seed & Nursery Co.
KROW	ak	500	1(1)	Oakland, Calif.	Educational Broadcasting Corp.
WBRC	ak	500	C(1)	Birmingham, Ala.	Birmingham Bldg. Co., Inc.
WDBJ	ae	250	C(5)	Roanoke, Va.	Times-World Corp.
WIBG	ae	25	D	Glenaside, Penna.	WIBG, Inc. (Kewick Bldg.)
940 kilocycles 319.0 meters					
KOIN	zk	1000	CT	Portland, Ore.	KOIN, Inc. (New Heathman Hotel)
WAAT	ae	300	D	Jersey City, N. J.	Bremer Broadcasting Corp.
WCSD	ae	1000	R(2.5)	Portland, Maine	Congress Square Hotel Co.
WDAY	ae	1000	N	Fargo, N. Dakota	WDAY, Inc. (Black Bldg.)
WFIW	ae	1000	C	Hopkinsville, Ky.	WFIW, Inc.
WHA	ak	1000	D	Madison, Wis.	University of Wisconsin
XEFO	ak	5000	(3.5)	Mexico City, Mexico	National Revolucionario Party (XFO)
950 kilocycles 315.6 meters					
CMHD	z	250	.....	Caibarien, Cuba	Manual Alvarez
KFWB	ak	1000	.....	Los Angeles, Calif.	Warner Bros. Broadcasting Corp.
KGHL	ak	1000	NJ(2.5)	Billings, Mont.	Northwestern Auto Supply Co.
KMBC	ak	1000	C	Kansas City, Mo.	Midland Bldg. Co. (Pickwick Hotel)
VONA	z	100	N	St. John's, N. F.	Lane, Gillard & Avery
WRC	ak	500	N	Washington, D. C.	National Broadcasting Co., Inc.
960 kilocycles 312.3 meters					
CHCK	ak	100	V	Charlottetown, P.E. I.	J. A. Gesner & W. E. Burke
CHWC	ak	500	3FL	Regina, Sask.	R. H. Williams & Sons, Ltd.
CKCK	ak	500	3FL	Regina, Sask.	Leader Post, Ltd. (Leader Bldg.)
CKNC	ak	500	M	Toronto, Ont.	Canadian National Carbon Co., Ltd.
CMAY	z	150	965	Havana, Cuba	Eugenio Oliver
CMBD	z	150	965	Havana, Cuba	Luis Perez Garcia
CMCW	ak	150	965	Havana, Cuba	Vilarino y Cervantes
XEAW	z	10000	965	Reynosa, Mexico	International Broadcasting Co.
CMJL	z	50		Camaguey, Cuba	Enrique Artimes
YVBC	ak	5000		Caracas, Venezuela	Broadcasting Caracas

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970 kilocycles	309.1 meters				
KJR	ae	5000	N	Seattle, Wash.	Northwest Broadcasting System, Inc.
WCFL	ak	1500	RX	Chicago, Ill.	Chicago Federation of Labor
980 kilocycles 303.9 meters					
CFCN	ak	10000	985FL	Calgary, Alberta	The Voice of the Prairies, Ltd.
CMGF	z	100	987	Matanzas, Cuba	Bernabe R. de la Torre
KDKA	ak	50000	B	Pittsburgh, Pa.	Westinghouse Elec. & Mfg. Co.
990 kilocycles 302.8 meters					
WBZ	ak	25000	BA	Boston, Mass.	Westinghouse Elec. & Mfg. Co.
WBZA	ak	1000	BA	Springfield, Mass.	Westinghouse Elec. & Mfg. Co.
XEK	z	101	.....	Mexico City, Mexico	Arturo Martinez
1000 kilocycles 299.8 meters					
KFVD	ak	250	Dn	Los Angeles, Calif.	Los Angeles Broadcasting Co.
WHO	z	5000	RAX	Des Moines, Iowa	Central Broadcasting Co.
WIC	ak	5000	RAX	Davenport, Iowa	Central Broadcasting Co.
WORK	aj	1000	D	York, Pa.	York Broadcasting Co.
XEA	ak	100	.....	Guadalajara, Mexico	Radiofonografica de Guadalajara, S.A.
XEC	z	50	.....	Toluca, Mexico	Jesus R. Benavides
XEFE	z	100	.....	N. Laredo, Tams., Mex.	Rafael T. Carranza
XEFI	z	100	.....	Chihuahua, Mexico	Feliciano Lopez Islas
XEFJ	z	100	.....	Monterrey, Mexico	Rodolfo Junco de la Vega
XEFS	z	40	.....	Queretaro, Mexico	Salvador Sanchez
XEFJ	ak	100	K	Juarez, Mexico	Juan G. Buttner & Leo Allande
XEL	ak	10	.....	Saltillo, Mexico	Antonio Garza Castro y J. T. Perez
XETC	z	100	.....	Jalapa, Ver., Mexico	Juventino Sanchez
1010 kilocycles 296.9 meters					
CFCO	ak	250	.....	Chatham, Ont.	John Beardall (Wm. Pitt Hotel)
CKIK	ak	50	.....	Wolfville, N. S.	Acadia University
CMCB	ak	150	.....	Havana, Cuba	Manuel & Guillermo Salas
CMCX	z	150	.....	Havana, Cuba	Diario "El Mundo"
KGGF	ak	500	2(1)	Coffeyville, Kans.	Powell & Platz
KQW	ae	500	T	San Jose, Calif.	Pacific Agricultural Foundation, Ltd.
WHN	ae	250	1	New York City	Marcus Loew Booking Agency
WIS	ae	500	N(1)	Columbia, S. C.	WIS, Inc.
WNAD	ae	500	2	Norman, Okla.	University of Oklahoma
WPAP	ae	250	1a	New York City	Marcus Loew Booking Agency
WQAO	ae	250	1a	New York City	Marcus Loew Booking Agency
WRNY	z	250	1	New York City	Marcus Loew Booking Agency
XEU	ak	100	.....	Veracruz, Mexico	Baltasar Pazos Sosa
1020 kilocycles 293.9 meters					
KYW	ae	10000	N	Chicago, Ill.	Westinghouse Elec. & Mfg. Co. (KFKX)
WRAX	ae	250	D	Philadelphia, Pa.	WRAX Broadcasting Co.
XEFD	z	300	.....	Tijuana, Mex.	Carlos de la Sierra
1030 kilocycles 291.1 meters					
CFCF	ae	500	NG	Montreal, Que.	Canadian Marconi Co.
CMHI	ck	30	a	Santa Clara, Cuba	Laviz & Paz
CMKC	z	150	1034a	Santiago de Cuba	Pinol Batlle y Co.
CNRV	ak	500	.....	Vancouver, B. C.	Canadian National Railways
XEB	ak	1000	.....	Mexico City, Mexico	El Buen Tono, S. A.
1040 kilocycles 288.3 meters					
CMGH	z	15	.....	Matanzas, Cuba	O. y J. Alvarez
KRLD	ae	10000	1C	Dallas, Tex.	KRLD Radio Corp. (Adolphus Hotel)
KTHS	ae	10000	1N	Hot Springs, Ark.	Chamber of Commerce
WESG	ae	1000	D	Elmira, N. Y.	WESG, Inc.
WKAR	ae	1000	D	East Lansing, Mich.	Michigan State College
1050 kilocycles 285.5 meters					
CMJG	z	50	.....	Camaguey, Cuba	Jose Antonio Lefran
KFBX	ae	5000	Dn	Abilene, Kans.	Farmers & Bankers Life Ins. Co.
KNX	ae	25000	X	Hollywood, Calif.	Western Broadcast Co.
XEFC	z	10		Merida, Yuc.	Hugo Molina Font
XES	dk	250	1055K	Tampico, Mexico	Difusora Portena

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1060 kilocycles 282.8 meters

KWJJ	z	500	Dn	Portland, Ore.
WBAL	ae	10000	1B	Baltimore, Md.
WJAG	ak	1000	Dn	Norfolk, Neb.
WTIC	ak	50000	1R	Hartford, Conn.

KWJJ Broadcast Co., Inc.
Consolidated Gas, Elec. L. & Pwr. Co.
Norfolk Daily News
Travelers' Bdctg. Service Corp.

1070 kilocycles 280.2 meters

CMBG	z	225	.....	Havana, Cuba
CMCB	af	150	.....	Havana, Cuba
KJBS	ae	100	D	San Francisco, Calif.
WCAZ	ae	50	D	Carthage, Ill.
WDZ	ak	100	D	Tuscola, Ill.
WTAM	ak	50000	R	Cleveland, Ohio
XEG	z	250	1075	Mexico City, Mexico

John L. Stowers
Metropolitan-Radio de Cuba
Julius Brunton & Sons Co.
Superior Bdctg. Service, Inc.
James L. Bush
National Broadcasting Co., Inc.
Ricardo Gonzales Montero

1080 kilocycles 277.6 meters

WBT	ae	25000	CU	Charlotte, N. C.
WCBD	ae	5000	1Dn	Zion, Ill.
WMBI	ck	5000	1Dn	Chicago, Ill.

Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX	ak	50000	C	St. Louis, Mo.
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Voice of St. Louis, Inc.

1100 kilocycles 272.6 meters

KGDM	ak	250	D	Stockton, Calif.
WLWL	ae	5000	1	New York City
WPG	ae	5000	1C	Atlantic City, N. J.

E. F. Pfeffer
Missionary Society of St. Paul
Municipality of Atlantic City

1110 kilocycles 270.1 meters

CMJO	z	15	.....	Ciego de Avila, Cuba
KSOO	ae	1000	Dn(2.5)	Sioux Falls, So. Dak.
WRVA	ae	5000	N	Richmond, Va.
XENT	z	150000	1115	Neuvo Laredo, Mex.

Rey-Borges
Sioux Falls Broadcast Assn., Inc.
Larus & Bros. Co., Inc.
Compania Industrial Universal, S. A.

1120 kilocycles 267.7 meters

CFCA	ak	500	G	Toronto, Ont.
CFJC	ak	100	EL	Kamloops, B. C.
CHGS	ce	100	VX	Summerside, P. E. I.
CJOC	ak	100	.....	Lethbridge, Alta.
CMHU	ae	40	1125	Cienfuegos, Cuba
KFIO	ae	100	D	Spokane, Wash.
KFSG	ak	500	a	Los Angeles, Calif.
KRKD	ae	500	a	Los Angeles, Calif.
KRSC	ak	100	D	Seattle, Wash.
KTRH	ak	500	2C	Houston, Tex.
WDEL	aj	250	(.5)	Wilmington, Del.
WHAD	ae	250	1C	Milwaukee, Wis.
WISN	ak	250	1C	Milwaukee, Wis.
WTAW	ae	500	2	College Station, Texas

Toronto Daily Star
Review Publishing Co., Ltd.
R. T. Holman, Ltd.
Harold R. Carson
Victorino Lopez (Hotel Bristol)
Spokane Broadcasting Corp.
Echo Park Evangelistic Assn.
Fireside Broadcasting Co.
Radio Sales Corp. (Wash. Ath. Club)
KTRH Broadcasting Co. (Rice Hotel)
WDEL, Inc.
Marquette University
American Radio News Corp.
Agricultural & Mech. College

1130 kilocycles 265.3 meters

KSL	ae	50000	C	Salt Lake City, Utah
WJJD	ze	20000	Dn	Chicago, Ill.
WOV	ae	1000	D	New York City
XEH	ak	250	1132	Monterrey, Mexico

Radio Service Corp. of Utah
WJJD, Inc. (Palmer House)
International Broadcasting Corp.
Tarnava & Cia

1140 kilocycles 263.0 meters

CMBJ	z	150	.....	Havana, Cuba
CMCD	ae	250	.....	Havana, Cuba
KVOO	ae	5000	1N	Tulsa, Okla.
WAPI	aj	5000	1N	Birmingham, Ala.
XETA	z	250	.....	Mexico City, Mexico

Emilio Perera
Angel Bertermaty y Garcia
Southwestern Sales Corp.
WAPI Broadcasting Corp.
Manuel Espinosa Tagle

1150 kilocycles 260.7 meters

CMJH	ak	50	.....	Ciego de Avila, Cuba
WHAM	ae	5000	BX	Rochester, N. Y.
XED	z	500	1155	Guadalajara, Mex.
10-AT	ak	25	1155	Trail, B. C.

Luis Marauri Mendoza
Stromberg-Carlson Tel. Mfg. Co.
International Broadcasting Co.
Trail Amateur Radio Assn.

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1160 kilocycles 258.5 meters

WOWO	ae	10000	1C	Fort Wayne, Ind.
WVVA	ae	5000	1C	Wheeling, W. Va.

Main Auto Supply Co.
West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

CMJE	z	50	1175	Camaguey, Cuba
WCAU	ae	50000	C	Philadelphia, Pa.

Manuel Fernandez
WCAU Broadcasting Co.

1180 kilocycles 254.1 meters

CMCJ	z	250	1185	Havana, Cuba
KEX	ak	5000	2N	Portland, Ore.
KOB	ae	20000	2	Albuquerque, N. M.
WDGY	ak	1000	Dn	Minneapolis, Minn.
WINS	ae	500	.....	New York City
WMAZ	ak	500	.....	Macon, Ga.

Rafael Rodriquez
National Broadcasting Co.
N. M. Coll. of Agr. & Mechanical Arts
George W. Young
American Radio News Corp.
Southeastern Broadcasting Co.

1190 kilocycles 252.0 meters

WOAI	ae	50000	N	San Antonio, Texas
VOHF	z	500	1195	St. John's, N. F.

Southern Equipment Co.
Dominion Brdcstg. Co., Ltd.

1200 kilocycles 249.9 meters

CHCH	z	100	2	Montreal, Que.
CHLP	z	100	2	Montreal, Que.
CKOV	ak	100	.....	Kelowna, B. C.
CMGB	z	30	1205	Matanzas, Cuba
KBTM	ak	100	D	Paragould, Ark.
KERN	ak	100	CT	Bakersfield, Calif.
KFJB	ak	100	(.25)	Marshalltown, Iowa
KFWF	ak	100	5	St. Louis, Mo.
KFXD	ae	100	.....	Nampa, Idaho
KFXJ	ak	100	.....	Grand Junction, Colo.
KGDE	ae	100	(.25)	Fergus Falls, Minn.
KGDY	ak	100	.....	Huron, S. D.
KGEK	ak	100	9	Yuma, Colo.
KGEW	ak	100	9	Ft. Morgan, Colo.
KGFJ	ae	100	.....	Los Angeles, Calif.
KGHI	ak	100	.....	Little Rock, Ark.
KGVO	ak	100	.....	Missoula, Mont.
KMLB	ae	100	.....	Monroe, La.
KVOS	z	100	.....	Bellingham, Wash.
KWG	ak	100	CT	Stockton, Calif.
WABI	ak	100	.....	Bangor, Maine
WABZ	ak	100	1	New Orleans, La.
WBZ	ak	100	.....	Ponca City, Okla.
WBHS	ak	100	4	Huntsville, Ala.
WCAT	ak	100	D	Rapid City, S. D.
WCAX	ak	100	.....	Burlington, Vt.
WCLO	ak	100	.....	Janesville, Wis.
WOOD	ae	100	3	Harrisburg, Pa.
WFAM	ak	100	8C	South Bend, Ind.
WFBC	z	100	(.25)4	Greenville, S. C.
WFBE	ak	100	(.25)	Cincinnati, Ohio
WHBC	ak	10	.....	Canton, Ohio
WHBY	ak	100	.....	Green Bay, Wis.
WBXB	z	100	(.3)	Utica, N. Y.
WIL	ae	100	5(.25)	St. Louis, Mo.
WJBC	ae	100	6	LaSalle, Ill.
WJBL	ae	100	6	Decatur, Ill.
WJBW	ak	100	1	New Orleans, La.
WJJC	ae	100	3	Lancaster, Pa.
WLAP	ae	100	(.25)	Louisville, Ky.
WNBO	ae	100	.....	Washington, Pa.
WNBW	z	10	(.1)	Carbondale, Pa.
WORC	ak	100	CH	Worcester, Mass.
WPHR	ae	100	(.25)	Petersburg, Va.
WRBL	ak	100	.....	Columbus, Ga.
WWAE	ae	100	8	Hammond, Ind.
10-AB	ak	25	.....	Moose Jaw, Sask.
10-AK	ak	15	.....	Stratford, Ont.
10-BI	ak	25	.....	Prince Albert, Sask.
10-BP	ak	25	1199	Wingham, Ont.
10-BQ	ak	15	.....	Brantford, Ont.
10-BU	z	15	.....	Canora, Sask.

Montreal Radio Corp.
La Patrie, Ltd.
Okanagan Broadcasters, Ltd.
Jose Anorga
Beard's Temple of Music
Bee Bakersfield Broadcasting Co.
Marshall Electric Co., Inc.
St. Louis Truth Center, Inc.
Frank E. Hurt (R/C Boise)
Western Slope Brdcstg. Co.
Jaren Drug Co.
Voice of South Dakota, Inc.
Beehler Electrical Equipment Co.
City of Fort Morgan
Ben. S. McGlashan
O. A. Cook
Mosby's, Inc.
Liner's Broadcasting Station, Inc.
KVGS, Inc.
McClatchy Newspapers
First Universalist Society
Samuel D. Reeks
C. L. Carrell (R/C various cities)
Radio Station WBHS, Inc.
State School of Mines
Burlington Daily News
WCLO Radio Corp. (R/C Beioit)
Keystone Broadcasting Corp.
South Bend Tribune (WSBT)
News-Piedmont Co.
Radio Station WFBE, Inc.
Edward P. Graham
WHBY, Inc.
WBXB, Inc.
Missouri Broadcasting Corp.
Kaskaskia Broadcasting Co.
Commodore Broadcasting, Inc.
C. C. Carlson
Lancaster Bdctg. Service, Inc.
American Broadcasting Corp. of Ky.
Spriggs Symplex
WNBW, Inc.
A. F. Kleindienst
WLBG, Inc.
WRBL Radio Station, Inc.
Hammond-Calumet Bdctg. Corp.
Moose Jaw Radio Assn.
M. I. Higgins Elec. & Radio Co.
Prince Albert Radio Club
W. T. Cruickshank
Tom Brown & Harold Brown
Canora Radio Assn.

1210 kilocycles 247.8 meters

CFNB	ae	100	E	Fredericton, N. B.
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James S. Neill & Sons, Ltd.

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CJOR	ak	500	E	Vancouver, B. C.	George C. Chandler
CKMC	ak	100	8	Cobalt, Ont.	R. L. McAdam
KASA	ak	100	.....	Elk City, Okla.	E. M. Woody (Casa Grande Hotel)
KDLR	ak	100	.....	Devils Lake, N. Dak.	KDLR, Inc.
KFJI	ak	100	.....	Klamath Falls, Ore.	KFJI Broadcasters, Inc.
KFOR	ak	100	(25)	Lincoln, Neb.	Howard A. Shuman
KFPW	ak	100	.....	Fort Smith, Ark.	Southwestern Hotel Co.
KFVS	ak	100	.....	Cape Girardeau, Mo.	Oscar C. Hirsch
KFXM	ak	100	9	San Bernardino, Calif.	J. C. & E. W. Lee
KGCR	ah	100	.....	Watertown, S. Dak.	Greater Kampeska Radio Corp.
KGNO	ak	100	.....	Dodge City, Kans.	Dodge City Broadcasting Co.
KGY	ak	100	.....	Olympia, Wash.	KGY, Inc. (Capitol Park Bldg.)
KIEM	z	100	DP	Eureka, Calif.	Harold H. Hanseth
KPPC	ak	50	9	Pasadena, Calif.	Pasadena Presbyterian Church
KWEA	z	100	.....	Shreveport, La.	Helo World Broadcasting Corp.
WALR	ae	100	.....	Zanesville, Ohio	WALR Broadcasting Corp.
WBAX	ak	100	1	Wilkes-Barre, Pa.	John H. Stenger, Jr. (Morris Bldg.)
WBBL	ak	100	7S	Richmond, Va.	Grace Covenant Pres. Church
WCBS	ak	100	2	Springfield, Ill.	WCBS, Inc.
WCRW	ae	100	4	Chicago, Ill.	Clinton R. White
WEBB	ak	100	6	Harrisburg, Ill.	Harrisburg Broadcasting Co.
WEDC	z	100	4	Chicago, Ill.	Emil Denemark, Inc.
WFAS	ak	100	3	White Plains, N. Y.	Westchester Broadcasting Corp.
WGBB	ak	100	3	Freeport, N. Y.	Harry H. Carman
WGCM	ae	100	P	Gulfport, Miss.	Great Southern Land Co.
WGNV	ae	50	.....	Chester Twp., N. Y.	Peter Goelz (Orange County)
WHBF	ae	100	.....	Rock Island, Ill.	Rock Island Broadcasting Co.
WHBU	ae	100	.....	Anderson, Ind.	Anderson Broadcasting Corp.
WHET	aj	100	D	Troy, Ala.	Troy Broadcasting Co.
WIBU	ak	100	.....	Poyette, Wis.	Win. C. Forrest
WJBI	ak	100	3	Red Bank, N. J.	Monmouth Broadcasting Co., Inc.
WJBU	ae	100	1	Lewisburg, Pa.	Bucknell University
WJBY	ae	100	.....	Gadsden, Ala.	Ingrams Broadcasting Co.
WJEJ	ae	100	D	Hagerstown, Md.	A. V. Tidmore
WJW	ae	100	.....	Akron, Ohio	WJW, Inc.
WKFI	ak	100	7C	Greenville, Miss.	J. Pat Scully
WMBG	aj	100	.....	Richmond, Va.	Havens & Martin, Inc.
WOCL	ak	50	.....	Jamestown, N. Y.	A. E. Newton
WOMT	ak	100	.....	Manitowoc, Wis.	Francis Mengin Kadow
WPAW	ak	100	aY	Providence, R. I.	Cherry & Webb Broadcasting Co.
WPRO	ak	100	.....	Providence, R. I.	Cherry & Webb Broadcasting Co.
WQDX	z	100	.....	Thomasville, Ga.	Stevens Luke
WSBC	z	100	4	Chicago, Ill.	WSBC, Inc.
WSEN	ak	100	.....	Columbus, Ohio	Columbus Bldg. Corp. (Seneca Hotel)
WSIX	ak	100	.....	Springfield, Tenn.	638 Tire & Vulc. Co. (R/C WLW)
WSOC	ae	100	.....	Gastonia, N. C.	WSOC, Inc.
WTAX	ae	100	2	Springfield, Ill.	WTAX, Inc.
XEX	z	500	.....	Mexico City, Mexico	Excelsior, Cia Editorial S. A.

1220 kilocycles 245.8 meters

CMHK	z	15	1225	Cruces, Cuba	V. Villaneuva
KFKU	z	500	a	Lawrence, Kans.	University of Kansas
KTW	z	1000	2S	Seattle, Wash.	First Presbyterian Church
KWSC	ae	1000	2(2)	Pullman, Wash.	State College of Washington
WCAD	ak	500	D	Canton, N. Y.	St. Lawrence University
WCAE	ae	1000	R	Pittsburgh, Pa.	WCAE, Inc. and Sun-Telegraph
WDAE	ak	1000	C	Tampa, Fla.	WCAE Daily Times (Tampa Terrace)
WREN	ak	1000	aB	Lawrence, Kans.	Jenny Wren Co.

1230 kilocycles 243.8 meters

CMBY	z	350	1235	Havana, Cuba	Callejas-Estefani
CMCA	z	150	1235	Havana, Cuba	Manuel Cruz
KFOF	aj	250	.....	Anchorage, Alaska	Anchorage Radio Club, Inc.
KGGM	ak	250	(5)	Albuquerque, N. M.	New Mexico Broadcasting Co.
KYA	ae	1000	N	San Francisco, Calif.	Pacific Broadcasting Co.
WFBM	ae	1000	1C	Indianapolis, Ind.	Indianapolis Power & Light Co.
WNAC	ae	1000	CH	Boston, Mass.	Shepard Broadcasting Service, Inc.
WSBT	ak	500	1C	South Bend, Ind.	South Bend Tribune (WFAM)

1240 kilocycles 241.8 meters

CMAB	z	20	1249	Pinar del Rio, Cuba	Jose Silveira
KGCU	ak	250	3	Mandan, N. Dak.	Mandan Radio Assn.
KLPM	ak	250	3	Minot, N. Dak.	John B. Cooley

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KTAT	ak	1000	1	Fort Worth, Texas	KTAT Broadcast Co., Inc.
KTFI	ak	500		Twin Falls, Idaho	Radio Broadcasting Corp. of Idaho
WACO	ak	1000	1C	Waco, Texas	Central Texas Broadcasting Co.
WKAQ	ae	1000	.....	San Juan, P. R.	Radio Corp. of Porto Rico
WXYZ	ak	1000	.....	Detroit, Mich.	Kunsky-Trendle Broadcasting Corp.
XEFW	z	70	.....	Tampico, Mex.	Jose Expedito Martinez

1250 kilocycles 239.9 meters

KFMX	aj	1000	2	Northfield, Minn.	Carleton College
KFOK	ae	1000	CT	Long Beach, Calif.	Nichols & Warinner, Inc.
WAAM	ae	1000	1(2.5)	Newark, N. J.	WAAM, Inc.
WAL	ae	1000	2	Northfield, Minn.	St. Olaf College
WDSU	ak	1000	C	New Orleans, La.	Jos. H. Uhalt
WGCP	ak	250	1	Newark, N. J.	May Radio Broadcasting Co.
WLB	ak	1000	2	Minneapolis, Minn.	University of Minnesota
WODA	z	1000	1	Paterson, N. J.	Richard E. O'Dea
WRHM	ae	1000	2	Minneapolis, Minn.	Minnesota Broadcasting Corp.
XEFA	z	500	.....	Mexico City, Mexico	Eduardo Limon Segui

1260 kilocycles 238.0 meters

CMJI	ak	5	.....	Ciego de Avila, Cuba	Gilberto Gessa Lopez
KOIL	ak	1000	B	Council Bluffs, Iowa	Mona Motor Oil Co.
KRGV	ae	500	1	Harlingen, Texas	KRGV, Inc. (Rio Grande Na. Life Bldg.)
KVOA	ak	500	.....	Tucson, Arizona	Robert M. Rulph
KWWG	z	500	1	Brownsville, Texas	Frank P. Jackson
WLBW	ae	500	C(1)	Erie, Pa.	Broadcasters of Pennsylvania, Inc.
WNBX	ak	250	D	Springfield, Vt.	WNBX Broadcasting Corp.
WTOC	ae	500	CU	Savannah, Ga.	Savannah Broadcasting Co., Inc.

1270 kilocycles 236.1 meters

CMBC	ae	150	.....	Havana, Cuba	Domingo Fernandez
CMJN	z	50	.....	Camaguey, Cuba	E. de Ugarriza
KGCA	ak	100	D2	Decorah, Iowa	Chas. W. Greenley
KOL	ae	1000	CT	Seattle, Wash.	Seattle Broadcasting Co.
KVOR	ae	1000	C	Colorado Springs, Col.	Reynolds Radio Co., Inc.
KWLC	ak	100	D2	Decorah, Iowa	Luther College
WASH	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Co.
WFBF	ae	500	R	Baltimore, Md.	Baltimore Radio Show, Inc.
WJDX	ak	1000	N	Jackson, Miss.	Lamar Life Insurance Co.
WOOD	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.

1280 kilocycles 234.2 meters

KFBB	ae	1000	(2.5)	Great Falls, Mont.	Buttrey Broadcast, Inc.
WCAM	ae	500	1	Camden, N. J.	City of Camden (City Hall Tower)
WCAP	ae	500	1C	Asbury Park, N. J.	Radio Industries Broadcast Co.
WDOF	ae	1000	C(2.5)	Chattanooga, Tenn.	WDOF Bldg. Corp. (Hotel Patten)
WIBA	ae	500	N(1)	Madison, Wis.	Badger Broadcasting Co., Inc.
WOAX	ae	500	1	Trenton, N. J.	Trenton Broadcasting Co.
WRR	ae	500	C	Dallas, Texas	City of Dallas (Hilton Hotel)

1290 kilocycles 232.4 meters

CMHL	z	20	.....	Cienfuegos, Cuba	Oscar Zayas
KDYL	ak	1000	N	Salt Lake City, Utah	Intermountain Broadcasting Corp.
KFUL	ak	500	1	Galveston, Texas	News Publishing Co. (Buccaneer Hotel)
KLCN	z	50	D	Blytheville, Ark.	C. L. Lintzenich
KTSA	ak	1000	1C(2.5)	San Antonio, Texas	Southwest Broadcast Co. (Plaza Hotel)
WBEC	ae	1000	N(2.5)	Superior, Wis.	Head of the Lakes Broadcasting Co.
WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.	Pittsburgh Radio Supply House
WNBZ	z	50	D	Saranac Lake, N. Y.	Smith & Mece

1300 kilocycles 230.6 meters

CMKJ	z	20	.....	Guantanamo, Cuba	Luis Morlote
KALE	ak	500	3C	Portland, Ore.	KALE, Inc.
KFAC	aj	1000	.....	Los Angeles, Calif.	Los Angeles Broadcasting Co.
KFH	ae	1000	C1	Wichita, Kans.	Wichita Eagle-Hotel Lassen
KFJR	ag	500	3	Portland, Ore.	Ashley C. Dixon-KFJR, Inc.
WBFR	aej	1000	1	Brooklyn, N. Y.	Peoples Pulpit Assn.
WBVD	ae	500	1	New York City	Debs Memorial Radio Fund, Inc.
WFAF	z	1000	1	New York City	Fifth Avenue Broadcasting Corp.
WHAZ	ae	500	1	Troy, N. Y.	Rensselaer Polytechnic Institute
WIOD	ae	1000	N	Miami, Fla.	Isle of Dreams Broadcasting Corp.
WQO	ae	1000	1	Kansas City, Mo.	Unity School of Christianity

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1310 kilocycles 228.9 meters

CMJP	z	7.5		Moron, Cuba	Cesar Canals
KCRJ	ak	100	D	Jerome, Arizona	Chas. C. Robinson
KFBK	ak	100	C	Sacramento, Calif.	Jas. McClatchy Co.
KFGQ	ak	100	7	Boone, Iowa	Boone Biblical College
KFPL	ck	100	.....	Dublin, Texas	C. C. Baxter
KFPM	ae	15	.....	Greenville, Texas	New Furniture Co.
KFXR	ak	100	(.25)	Oklahoma City, Okla.	Exchange Ave. Baptist Church
KFYO	ak	100	(.25)Z	Lubbock, Texas	Kirksey Brothers
KGBX	ak	100	.....	Springfield, Mo.	KGBX, Inc.
KGCX	ak	100	(.25)	Wolf Point, Mont.	First State Bank of Vida
KGEZ	aj	100	.....	Kalispell, Mont.	Donald C. Treloar
KGFV	ah	100	.....	Kearney, Neb.	Central Nebraska Bdctg. Corp.
KIFH	z	100	.....	Juneau, Alaska	Juneau Broadcasting Co.
KIT	ak	100	.....	Yakima, Wash.	Valley Broadcasters, Inc.
KMED	ak	100	.....	Medford, Ore.	Mrs. W. J. Virgin
KRMD	ak	100	.....	Shreveport, La.	KRMD, Inc. (Jefferson Hotel)
KTSM	z	100	a	El Paso, Texas	Tri-State Broadcasting Co., Inc.
KXRO	ak	100	.....	Aberdeen, Wash.	KXRO, Inc. (Hotel Morck)
WAML	z	100	.....	Laurel, Miss.	Southland Radio Corp.
WBEO	z	100	.....	Marquette, Mich.	Lake Superior Broadcasting Co.
WBOW	ak	100	.....	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	z	100	.....	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	ae	100	b	Joliet, Ill.	WCLS, Inc.
WDAA	z	100	a	El Paso, Texas	Tri-State Broadcasting Co., Inc.
WEER	ae	100	Q(.25)	Buffalo, N. Y.	Howell Broadcasting Station
WEXL	ak	50	.....	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	ak	100	3	Altoona, Pa.	The Gable Broadcasting Co.
WFDF	ae	100	.....	Flint, Mich.	Frank D. Fallain (Union Ind. Bldg.)
WGAL	ae	100	5	Lancaster, Pa.	WGAL, Inc. (Lancaster Newsp. Bldg.)
WGH	ae	100	.....	Newport News, Va.	Hampton Roads Broadcasting Corp.
WHAT	ak	100	4	Philadelphia, Pa.	Independence Broadcasting Co.
WIAS	ak	100	7	Ottumwa, Iowa	Iowa Bdctg. Co. (Hotel Ottumwa)
WJAC	ae	100	3	Johnstown, Pa.	WJAC, Inc.
WKAV	ae	100	.....	Laconia, N. H.	Laconia Radio Club
WKBB	ae	100	bYZ	Joliet, Ill.	Richard W. Hoffman
WKBC	z	100	.....	Birmingham, Ala.	R. B. Broyles Furniture Co.
WLBC	ak	50	6	Muncie, Ind.	D. A. Burton—A. J. Marriott
WMBO	ak	100	.....	Auburn, N. Y.	WMBO, Inc. (Masonic Temple)
WNBH	ak	100	H(.25)	New Bedford, Mass.	New Bedford Bdctg. Co. (N. B. Hotel)
WOL	ae	100	.....	Washington, D. C.	American Broadcasting Co.
WRAW	ak	100	5X	Reading, Pa.	Reading Broadcasting Co.
WROL	ak	100	.....	Knoxville, Tenn.	Stuart Bdctg. Co. (Farragut Hotel)
WSAJ	ae	100	.....	Grove City, Pa.	Grove City College
WSJS	ae	100	C	Winston-Salem, N. C.	Winston-Salem Journal Co.
WTEL	ae	100	4	Philadelphia, Pa.	Foulkrod Radio Eng. Co., Inc.
WTJS	ak	100	(.25)	Jackson, Tenn.	Sun Publishing Co. (Sun Bldg.)
WTRC	ak	50	6 (.1)	Elkhart, Ind.	Elkhart Daily Truth
XEFB	ak	100	1315	Monterrey, N. L., Mex.	Quintanilla y Stevenson
XEI	ak	150	.....	Morelia, Mexico	Carlos Gutierrez M.

1320 kilocycles 227.1 meters

CMBF	z	150	1325	Havana, Cuba	Ramon Bardales
CMCY	ak	1000	1325	Havana, Cuba	M. D. Autran
KGHF	ak	250	(.5)	Pueblo, Colo.	C. P. Ritchie & J. E. Finch
KGMB	ak	250	C	Honolulu, Hawaii	Honolulu Broadcasting Co.
KID	ae	250	(.5)	Idaho Falls, Idaho	KID Broadcasting Co., Inc.
WADC	ae	1000	C	Akron, Ohio	Allan T. Simmons
WSMB	ae	500	N	New Orleans, La.	WSMB, Inc.

1330 kilocycles 225.4 meters

KGB	ae	1000	CT	San Diego, Calif.	Don Lee Broadcasting System
KMO	ak	250	.....	Tacoma, Wash.	KMO, Inc. (Hotel Winthrop)
KSCJ	ah	1000	IC(.25)	Sioux City, Iowa	Perkins Bros. Co.
WDRG	ae	500	CH	Hartford, Conn.	WDRG, Inc.
WSAI	ae	500	R(1)	Cincinnati, Ohio	The Crosley Radio Corp.
WTAQ	ae	1000	IC	Eau Claire, Wis.	The Gillette Rubber Co.

1340 kilocycles 223.7 meters

KFPY	ae	1000	CT	Spokane, Wash.	Symons Bdctg. Co. (Symons Bldg.)
WCOA	agj	500		Pensacola, Fla.	Pensacola Bdctg. Co. (San Carlos Hot.)
WSPD	ae	1000	C	Toledo, Ohio	Toledo Bdctg. Co. (Com. Perry Hotel)

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1350 kilocycles 222.1 meters

KIDO	ak	1000		Boise, Idaho	C. G. Phillips & Frank Hill
KWK	ae	1000	B	St. Louis, Mo.	Thomas Patrick, Inc. (Hotel Chase)
WAWZ	ae	250	1	Zarephath, N. J.	Pillar of Fire
WBNX	ae	250	1a	New York City	New York Met. Broadcasting Corp.
WCDA	ae	250	1a	New York City	Italian Educ. Bdctg. Co., Inc.
WEHC	ae	500	DY	Emory, Va.	Emory & Henry College
WMSG	ae	250	1a	New York City	New York Met. Broadcasting Corp.

1360 kilocycles 220.4 meters

KGER	ah	1000	.....	Long Beach, Calif.	Consolidated Bdctg. Co. (R/C Los An.)
KGIR	ak	500	NJ	Butte, Mont.	KGIR, Inc.
WCSC	ae	500	.....	Charleston, S. C.	So. Carolina Broadcasting Co., Inc.
WFBL	ak	1000	C(.25)	Syracuse, N. Y.	Onondaga Radio Broadcasting Corp.
WGES	ae	500	1(1)	Chicago, Ill.	Oak Leaves Broadcasting Station, Inc.
WJCS	agj	1000	1Z	Gary, Ind.	Johnson-Kennedy Radio Corp.
WQBC	ak	500	.....	Vicksburg, Miss.	Delta Bdctg. Co. (Post-Herald Station)
XEFB	z	250	P	Mexico City, Mexico	Francisco Hornedo

1370 kilocycles 218.8 meters

CMCR	z	150	1375	Havana, Cuba	Aurelio Hernandez
CMGE	z	30	1375	Cardenas, Cuba	Genaro Sebatier
KCRC	ak	100	2(.25)	Enid, Okla.	Enid Radiophone Co. (Oxford Hotel)
KFB	aj	50	3	Everett, Wash.	Leese Bros.
KFJM	zk	100	.....	Grand Forks, N. Dak.	University of North Dakota
KFJZ	ae	100	.....	Fort Worth, Texas	Fort Worth Broadcasters, Inc.
KFLX	z	100	.....	Galveston, Texas	George Roy Clough
KGAR	ae	100	(.25)	Tucson, Arizona	Tucson Motor Service Co.
KGDA	ak	100	.....	Mitchell, S. Dak.	Mitchell Broadcasting Corp.
KGFC	bk	100	2	Oklahoma City, Okla.	Oklahoma Broadcasting Co., Inc.
KGFL	zk	100	4	Santa Fe, N. Mex.	KGFL, Inc.
KGKL	ak	100	.....	San Angelo, Texas	KGKL, Inc. (St. Angelus Hotel)
KICA	z	100	4	Clovis, N. Mex.	Southwest Broadcasting Co.
KMAC	ak	100	5	San Antonio, Texas	Walmac Co., Inc. (Blue Bonnet Stud.)
KONO	ak	100	5	San Antonio, Texas	Mission Broadcasting Co.
KOOS	ae	100	.....	Marshallfield, Ore.	H. H. Hanseth, Inc. (Hall Bldg.)
KRE	ak	100	.....	Berkeley, Calif.	First Cong. Church of Berkeley
KSO	z	100	B(.25)	Des Moines, Iowa	Iowa Broadcasting Co.
KUL	ak	100	D	Walla Walla, Wash.	KUL, Inc. (Marcus Whitman Hotel)
KVL	z	100	3	Seattle, Wash.	KVL, Inc.
KWKC	z	100	.....	Kansas City, Mo.	Wilson Duncan Broadcasting Co.
WBMT	ak	100	.....	Danville, Va.	Piedmont Broadcasting Corp.
WCBM	ae	100	Z(.25)	Baltimore, Md.	Baltimore Broadcasting Corp.
WDAS	ae	100	(.25)	Philadelphia, Pa.	WDAS Bdctg. Sta., Inc. (Elks Hot el)
WCLC	z	50	(.1)	Hudson Falls, N. Y.	O. T. Griffin & G. F. Bissell
WGL	z	100	C	Fort Wayne, Ind.	F. C. Zieg
WHBD	bk	100	.....	Mount Orab, Ohio	F. P. Moler
WHBQ	ak	100	.....	Memphis, Tenn.	Station WHBQ, Inc. (Hotel Claridge)
WHDF	ak	100	(.25)	Calumet, Mich.	Upper Michigan Broadcasting Co.
WIBM	ak	100	1	Jackson, Mich.	WIBM, Inc. (Otsega Hotel)
WJBK	ae	100	1Q	Detroit, Mich.	James F. Hopkins, Inc. (Curtiss Bldg.)
WJEO	z	100	6P	Williamsport, Pa.	WRAC, Inc.
WTL	ae	100	.....	Atlanta, Ga.	Oglethorpe University
WLEY	ae	100	(.25)	Lexington, Mass.	Lexington Air Station
WLVA	ck	100	7	Lynchburg, Va.	Lynchburg Broadcasting Corp.
WMBR	ak	100	.....	Tampa, Fla.	F. J. Reynolds
WPFB	ak	100	.....	Hattiesburg, Miss.	Hattiesburg Broadcasting Co.
WQDM	ae	100	D	St. Albans, Vt.	A. J. St. Antoine & E. J. Regan
WRAC	ak	100	6	Williamsport, Pa.	WRAC, Inc.
WRAM	ae	100	.....	Wilmington, N. C.	Wilmington Radio Assn., Inc.
WRDO	ae	100	.....	Augusta, Maine	WRDO, Inc. (Augusta House)
WRJN	ae	100	.....	Racine, Wis.	Racine Bdctg. Corp. (Hotel Racine)
WSVS	ak	50	.....	Buffalo, N. Y.	Seneca Vocational School
XEFV	z	50	.....	Juarez, Mexico	Jose Onofre Meza

1380 kilocycles 217.3 meters

CMJC	z	150	1382	Camaguey, Cuba	Feliciano Isaac
KOH	ak	500	C	Reno, Nevada	McClatchy Newspapers
KOV	ak	500	2	Pittsburgh, Pa.	KOV Bdctg. Co. (Investment Bldg.)
WRBH	aj	1000	1C	LaCrosse, Wis.	WRBH, Inc. (Radio Bldg.)
WSMK	ak	200	2	Dayton, Ohio	Stanley M. Krohn, Jr.
XETB	z	125	.....	Torreón, Coah., Mex.	Jose A. Berumen

CUT OUT
ON DOTTED LINES

KCY.S.
1380
MTRS.
217.3
DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

1390 kilocycles 215.7 meters

CMCH	ak	50	1395	Havana, Cuba
CMCM	z	15	1395	Havana, Cuba
CMDB	z	40	1395	Havana, Cuba
KLRA	ae	1000	1C	Little Rock, Ark.
KOY	ae	500	C(1)	Phoenix, Arizona
KUOA	bk	1000	1	Fayetteville, Ark.
WHK	ae	1000	C(2.5)	Cleveland, Ohio

1400 kilocycles 214.2 meters

KLO	ae	500	.....	Ogden, Utah
KOCW	z	500	(.5)	Chickasha, Okla.
WBAA	ak	500	1	Lafayette, Ind.
WBCU	ak	500	2	Brooklyn, N. Y.
WCGU	ak	500	2	Brooklyn, N. Y.
WFOU	ak	500	2	Brooklyn, N. Y.
WKBK	ak	500	1W	Indianapolis, Ind.
WLTH	ae	500	2	Brooklyn, N. Y.

1410 kilocycles 212.6 meters

KFLV	ak	500	4	Rockford, Ill.
KGRS	ae	1000	1	Amarillo, Texas
WAAB	ae	500	CH	Boston, Mass.
WBCM	ae	500	C	Bay City, Mich.
WDAG	ae	1000	1	Amarillo, Texas
WHBL	ae	500	4	Sheboygan, Wis.
WHIS	ak	250	2	Bluefield, W. Va.
WODX	ea	500	3CU	Mobile, Ala.
WRBX	ae	250	2	Roanoke, Va.
WSFA	ak	500	3C	Montgomery, Ala.

1420 kilocycles 211.1 meters

KABC	ak	100	.....	San Antonio, Texas
KBPS	aj	100	4	Portland, Ore.
KCMC	ak	100	.....	Texarkana, Ark.
KFIZ	ak	100	.....	Fond du Lac, Wis.
KGFF	ak	100	.....	Shawnee, Okla.
KGGC	ak	100	.....	San Francisco, Calif.
KGIW	ak	100	1	Trinidad, Colo.
KGIX	ak	100	.....	Las Vegas, Nevada
KGKX	z	100	.....	Lewiston, Idaho
KICK	z	100	Y	Red Oak, Iowa
KIDW	ak	100	1	Lamar, Colo.
KORE	ae	100	.....	Eugene, Ore.
KUMA	ak	100	.....	Yuma, Arizona
KWCR	ae	100	B(.25)	Cedar Rapids, Iowa
KXL	ae	100	4	Portland, Ore.
WAGM	af	100	.....	Presque Isle, Maine
WAMC	ae	100	.....	Annisston, Ala.
WAZL	z	100	2	Hazleton, Pa.
WEHS	ak	100	a	Cicero, Ill.
WELL	z	50	.....	Battle Creek, Mich.
WENC	ak	100	D	Americus, Ga.
WERE	ae	100	.....	Erie, Pa.
WHDL	ae	100	D	Tupper Lake, N. Y.
WHFC	ae	100	a	Cicero, Ill.
WILM	ae	100	2	Wilmington, Del.
WJBO	z	100	D	New Orleans, La.
WJMS	ak	100	.....	Ironwood, Mich.
WKBI	ak	100	a	Cicero, Ill.
WLBF	ae	100	.....	Kansas City, Kans.
WMAS	ae	100	CH	Springfield, Mass.
WMBC	ae	100	(.25)	Detroit, Mich.
WMBH	ak	100	(.25)	Joplin, Mo.
WPAD	ak	100	.....	Paducah, Ky.
WSPA	ae	100	(.25)	Spartanburg, S. C.
WTBO	ae	100	(.25)	Cumberland, Md.

1430 kilocycles 209.7 meters

KECA	ah	1000	N	Los Angeles, Calif.
KGNF	ak	500	D	North Platte, Neb.
WBAK	ak	500	1(1)D	Harrisburg, Pa.

Wifredo & Hum. Fontanals Sanchez
Aurelio Balino
Julio Powers
Arkansas Broadcasting Co.
Nielsen Radio & Sporting Goods Co.
Southwestern Hotel Co. (Ft. Smith)
Radio Air Service Corp. (Higbee Store)

Interstate Bcg. Corp.
J. T. Griffin
Purdue University
Brooklyn Broadcasting Corp.
United States Broadcasting Corp.
Paramount Broadcasting Co.
Indianapolis Broadcasting, Inc.
Voice of Brooklyn, Inc.

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

Alamo Bctg. Co., Inc. (Texas Theatre)
Student Body Benson Polytech. School
Texarkana Gazette & Daily News
Reporter Printing Co.
KGFF Bdctg. Co. (Aldridge Hotel)
Golden Gate Broadcasting Co.
Leonard E. Wilson
J. M. Heaton
Sand Point Broadcasting Co.
Red Oak Radio Corp.
Lamar Broadcasting Co.
Frank L. Hill & Curtis G. Phillips
Dr. Albert H. Schermann
Cedar Rapids Broadcast Co.
KXL Broadcasters (Hotel Multnomah)
Aroostook Broadcasting Corp.
Raymond C. Hammett (Alabama Hot.
Hazleton Brdctg. Service, Inc.
WEHS, Inc.
Enquirer-News Co.
Americus Broadcast Co.
Erie Broadcasting Corp.
Tupper Lake Broadcasting Co., Inc.
WHFC, Inc.
Delaware Broadcasting Co.
Baton Rouge Brdctg. Co., Inc.
WJMS, Inc. (St. James Hotel)
WKBI, Inc.
WLBF Bdctg. Co. (Aladdin Hotel)
WMAS, Inc.
Michigan Broadcasting Co.
W. M. Robertson
Paducah Bdctg. Co. (Ritz Hotel)
The Voice of South Carolina
Associated Brdctg. Corp.

Earle C. Anthony, Inc.
Great Plains Broadcasting Co.
Pennsylvania State Police

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WCAH	ae	500	1C	Columbus, Ohio
WFEA	ae	500	CH	Manchester, N. H.
WHBC	ae	500	C	Rochester, N. Y.
WHP	ak	500	1C(1)	Harrisburg, Pa.
WNBR	ae	500	.....	Memphis, Tenn.
WOKO	ae	500	C	Albany, N. Y.

Commercial Radio Service Co.
New Hampshire Broadcasting Co.
WHBC, Inc. (Roch. Sav. Bank Bldg.)
WHP, Inc. (Harrisburg Telegraph)
Memphis Bdctg. Co. (WGBC)
WOKO, Inc. (Hotel Ten Eyck)

1440 kilocycles 208.2 meters

CMBL	ak	20	1444	Havana, Cuba
CMCN	ak	30	1444	Havana, Cuba
KDFN	ak	500	.....	Casper, Wyo.
KLS	ae	250	D	Oakland, Calif.
KXYZ	ak	500	.....	Houston, Texas
WBIG	ae	500	C(1)	Greensboro, N. C.
WCBA	ah	250	a	Allentown, Pa.
WMBD	ae	500	3C(1)	Peoria, Ill.
WSAN	z	250	a	Allentown, Pa.
WTAD	ak	500	3	Quincy, Ill.

Julio C. Hidalgo
Armando Romeu Marrero
Donald L. Hathaway
Warner Bros.
Harris County Broadcast Co.
No. Carolina Broadcasting Co., Inc.
B. Bryan Musselman
Peoria Broadcasting Co.
Allentown Call Publishing Co., Inc.
Illinois Broadcasting Corp.

1450 kilocycles 206.8 meters

KTBS	ae	1000	N	Shreveport, La.
WGAR	ak	500	B(1.)	Cleveland, Ohio
WHOM	ae	250	1	Jersey City, N. J.
WNJ	ak	250	1	Newark, N. J.
WSAR	ae	250	.....	Fall River, Mass.
WTFI	ak	500	.....	Athens, Ga.

Tri-State Bdctg. System, Inc.
WGAR Broadcasting Co., Inc.
New Jersey Broadcasting Corp.
Radio Investment Co., Inc.
Doughty & Welch Electric Co., Inc.
Liberty Broadcasting Co.

1460 kilocycles 205.4 meters

KSTP	ae	10000	N(25)	St. Paul, Minn.
WJSV	ck	10000	C	Washington, D. C.

National Battery Broadcasting Co.
Old Dominion Broadcasting Co.
(Transmitter at Alexandria, Va.)

1470 kilocycles 204.0 meters

KGA	ak	5000	B	Spokane, Wash.
WLAC	ae	5000	C	Nashville, Tenn.

Northwest Broadcasting System
Life & Casualty Insurance Co.

1480 kilocycles 202.6 meters

CMBK	z	15	1485	Havana, Cuba
KOMA	ak	5000	C	Oklahoma City, Okla.
WKBW	ae	5000	C	Buffalo, N. Y.

Alberto Alvarez
National Radio Mfg. Co.
Buffalo Broadcasting Corp.

1490 kilocycles 201.2 meters

WCKY	ae	5000	N	Covington, Ky.
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L. B. Wilson, Inc. (Mabley & Carew)

1500 kilocycles 199.9 meters

CMBR	z	40		Havana, Cuba
KDB	ak	100	CT	Santa Barbara, Calif.
KGFI	aj	100	(.25)	Corpus Christi, Texas
KGFF	ak	100	.....	Moorhead, Minn.
KGIZ	ak	100	.....	Grant City, Mo.
KGKB	bk	100	.....	Tyler, Texas
KGKY	ck	100	.....	Scottsbluff, Neb.
KNOW	ak	100	.....	Austin, Texas
KPJM	ak	100	.....	Prescott, Arizona
KPO	aj	100	.....	Wenatchee, Wash.
KREG	ak	100	.....	Santa Ana, Calif.
KXO	az	100	.....	El Centro, Calif.
WFDV	ak	100	.....	Rome, Ga.
WHFE	ak	100	(.25)	Kosciusko, Miss.
WKBV	z	100	.....	Connersville, Ind.
WKBZ	ak	100	.....	Ludington, Mich.
WKEU	z	100	P	LaGrange, Ga.
WLOE	ae	100	(.25)	Boston, Mass.
WMBQ	ae	100	1	Brooklyn, N. Y.
WMIL	ak	100	1	Brooklyn, N. Y.
WMPG	ak	100	.....	Lapeer, Mich.
WNBF	ae	100	.....	Binghamton, N. Y.
WOPI	ae	100	.....	Bristol, Tenn.
WPEN	ce	100	(.25)	Philadelphia, Pa.
WRDW	ae	100	.....	Augusta, Ga.
WSYB	ae	100	.....	Rutland, Vt.
WWRL	ak	100	1	Woodside, N. Y.
WWSW	ae	100	X(.25)	Pittsburgh, Pa.
XEFZ	ae	100	.....	Coyoacan, Mexico

Tomas Basal
Santa Barbara Broadcasters, Ltd.
Eagle Broadcasting Co., Inc.
Red River Broadcasting Co., Inc.
Grant City Park Corp.
East Texas Broadcasting Co.
Hilliard Co., Inc.
KUT Bdctg. Co. (Driskill Hotel)
Scott & Sturm
Wescost Broadcasting Co.
Voice of Orange Empire, Inc.
E. R. Irey and F. M. Bowles
Rome Broadcasting Corp.
Attala Milling & Produce Co.
William O. Knox
K. L. Ashbacher
Marshall & Malcolm
Boston Broadcasting Co. (WRSC)
Paul J. Gollhofer
Arthur Faske
First Methodist Protestant Church
Howitt-Wood Radio Co., Inc.
Radiohone Bdctg. Station WOPI
Wm. Penn Broadcasting Co.
Musicove, Inc. (Relays WLW)
Philip Weiss Music Co.
Long Island Broadcasting Corp.
Walker & Downing Radio Corp.
Manuel Zetina

KCTA.
1500
MTR.
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

ALABAMA				COLORADO			
Watts	Watts	Keys.	Keys.	Watts	Watts	Keys.	Keys.
Anniston O-21 tr	100	WAMC	1420	San Jose J-1	500	KQW	1010
Birmingham O-21	5000	WAPI	N 1140	Santa Ana M-3	500	KREG	1500
	100	WBRC	C 930	Santa Barbara M-2	100	KDB	C 1500
	100	WKBC	1310	Stockton J-2	250	KGDM	1100
Gadsden O-21	100	WJBY	1210		100	KWG	C 1200
Huntsville N-21 c	100	WBHS	1200				
Mobile Q-20	500	WODX	C 1410				
Montgomery P-21	500	WSFA	C 1410				
Troy P-21 rc	100	WHET	1210				
ALASKA							
Anchorage	250	KFOD	1230				
Juneau	100	KIFH	1310				
Ketchikan	500	KGBU	900				
ARIZONA							
Jerome M-6	100	KCRJ	1310				
Phoenix N-6	500	KOY	C 1390				
	500	KTAR	N 620				
Prescott M-6	100	KPJM	1500				
Tucson O-7	100	KGAR	1370				
	500	KVOA	1260				
Yuma O-5 tl	100	KUMA	1420				
ARKANSAS							
Blytheville M-19	50	KLCN	1290				
Fayetteville M-16	1000	KUOA	1390				
Fort Smith N-16	100	KFPW	1210				
Hot Springs N-17	1000	KTHS	N 1040				
Little Rock N-17	250	KARK	890				
	100	KGHI	1200				
	1000	KLRA	C 1390				
Paragould M-18	100	KBTM	1200				
Texarkana O-17 bl	100	KCMC	1420				
CALIFORNIA							
Bakersfield L-2 br	100	KERN	C 1200				
Berkeley J-2	100	KRE	1370				
Beverly Hills M-3 bl	500	KMPC	710				
Burbank M-3	500	KBLW	780				
El Centro N-4	100	KXO	1500				
Eureka H-1 tc	100	KIEM	1210				
Fresno K-2	500	KMJ	C 580				
Glendale M-3	100	KIEV	850				
Hollywood M-3	500	KMTR	570				
	25000	KNX	1050				
Long Beach M-3	1000	KFOX	C 1250				
	1000	KGER	1360				
Los Angeles M-3	1000	KECA	N 1430				
	1000	KFAC	1300				
	50000	KFI	N 640				
	500	KFSG	1120				
	250	KFVD	1000				
	1000	KFWB	950				
	100	KGFJ	1200				
	1000	KHJ	C 900				
	500	KRKD	1120				
	500	KTM	780				
Oakland J-1	250	KLS	1440				
	500	KLX	880				
	500	KROW	930				
Pasadena M-3	50	KPPC	1210				
Sacramento J-2	100	KFBK	C 1310				
San Bernardino M-3	100	KFXM	1210				
San Diego N-3	1000	KFSD	N 600				
	1000	KGB	1330				
	1000	KFRC	C 610				
San Francisco J-1	500	KFWI	930				
	100	KGGC	1420				
	7500	KGO	N 790				
	100	KJBS	1070				
	5000	KPO	N 680				
	1000	KTAB	560				
	1000	KYA	N 1230				

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

ILLINOIS				KANSAS			
Watts	Watts	Keys.	Keys.	Watts	Watts	Keys.	Keys.
Carthage J-18	50	WCAZ	1070	Abilene K-15 bl	5000	KFBI	1050
Chicago I-20	10000	KFKX	1020	Coffeyville M-15 tr	500	KGGF	1010
	10000	KYW	N 1020	Dodge City L-13	100	KGNO	1210
	500	WAAF	920	Kansas City K-16	100	WLB	1420
	25000	WBBM	C 770	Lawrence K-16	500	KFKU	1220
	1500	WCFL	R 970		1000	WREN	B 1220
	100	WCRW	1210	Manhattan K-15	500	KSAC	580
	100	WEDC	1210	Topeka K-16	1000	WBW	C 580
	50000	WENR	N 870	Wichita L-15	1000	KFH	C 1300
	500	WGES	1360				
	25000	WGN	C 720				
	1000	WIBO	560				
	20000	WJJD	1130				
	50000	WLS	N 870				
	5000	WMAQ	N 670				
	5000	WMBI	1080				
	500	WPCC	560				
	100	WSBC	1210				
	100	WEHS	1420				
	100	WHFC	1420				
	100	WKBI	1420				
	100	WJBL	1200				
	100	WEBQ	1210				
	100	WCLS	1310				
	100	WKBB	1310				
	100	WJBC	1200				
	500	WMBD	C 1440				
	500	WMTD	1440				
	500	KFLV	1410				
	100	WHBF	1210				
	100	WCBS	1210				
	100	WTAX	1210				
	100	WDL	1070				
	250	WZZ	890				
	5000	WCBD	1080				
INDIANA							
Anderson J-21	100	WHBU	1210				
Connersville K-21	100	WKBV	1500				
Elkhart I-21 bc	50	WTRC	1310				
Evansville L-20	500	WGBF	630				
Fort Wayne J-21	1000	WGL	C 1370				
	10000	WOWO	C 1160				
	1000	WJWS	1360				
	100	WWAB	1200				
	1000	WFBM	C 1230				
	500	WKBF	1400				
	500	WBAA	1400				
	50	WLBC	1310				
	100	WFAM	C 1200				
	500	WSBT	C 1230				
	100	WBOW	1310				
IOWA							
Ames I-17	5000	WOI	640				
Boone I-17	100	KFGO	1310				
Cedar Rapids I-18	100	KWCR	B 1420				
Council Bluffs J-16	1000	KOIL	B 1260				
Davenport I-18	5000	WOC	R 1060				
Decorah H-18	100	KGCA	1270				
	100	KWLC	1270				
	100	KSO	B 1370				
	5000	WHO	R 1000				
	500	WSUI	880				
	100	KFBI	1200				
	100	WLAS	1310				
	100	KICK	1420				
	500	KFN	890				
	500	KMA	930				
	1000	KSCJ	C 1330				
	500	WMT	C 600				
KANSAS							
Abilene K-15 bl	5000	KFBI	1050				
Coffeyville M-15 tr	500	KGGF	1010				
Dodge City L-13	100	KGNO	1210				
Kansas City K-16	100	WLB	1420				
Lawrence K-16	500	KFKU	1220				
	1000	WREN	B 1220				
Manhattan K-15	500	KSAC	580				
Topeka K-16	1000	WBW	C 580				
Wichita L-15	1000	KFH	C 1300				
KENTUCKY							
Covington K-22	5000	WCKY	N 1490				
Hopkinsville M-20	1000	WFIW	C 940				
Louisville L-21	25000	WHAS	C 820				
	100	WLAP	1200				
	100	WPAD	1420				
LOUISIANA							
Monroe P-18	100	KMLB	1200				
New Orleans R-19	100	WABZ	1200				
	1000	WDSU	C 1250				
	100	WJBO	1420				
	100	WJBW	1200				
	500	WSMB	N 1320				
	10000	WWL	850				
	100	KRMD	1310				
	1000	KTBS	N 1450				
	100	KWEA	1210				
	10000	KWKH	850				
MAINE							
Augusta F-28	100	WRDO	1370				
Bangor F-29	100	WABI	1200				
	500	WLBZ	C 620				
	1000	WCSH	R 940				
	100	WAGM	1420				
MARYLAND							
Baltimore J-26	10000	WBAL	B 1060				
	250	WCAO	C 600				
	100	WCBM	1370				
	500	WFB	R 1270				
	100	WTBO	1420				
	100	WJEJ	1210				
MASSACHUSETTS							
Babson Park G-28	500	WBSO	920				
Boston G-28	500	WAAB	C 1410				
	25000	WBZ	B 990				
	1000	WBEI	R 590				
	1000	WHDH	830				
	100	WLOE	1500				
	1000	WNAC	C 1230				
	250	WSAR	1450				
	100	WLB	1370				
	100	WNBH	1310				
	1000	WBZA	B 990				
	100	WMAS	1420				
	100	WORC	C 1200				
	250	WTAG	R 580				
MICHIGAN							
Battle Creek I-21	50	WELL	1420				
Bay City H-22	500	WBCM	C 1410				
Calumet E-19	100	WHDF	1370				
Detroit H-22	100	WJBK	1370				
	10000	WJR	B 750				
	100	WMB	1420				
	1000	WWJ	R 920				
	1000	WXYZ	1240				
	1000	WKAR	1040				

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

	Watts	Keys.		Watts	Keys.
Flint H-22	100	WFDF	1310	Las Vegas L-5	100 KGIX 1420
Grand Rapids H-21	500	WASH	1270	Reno I-3	500 KOH C 1380
Ironwood F-18 rc	100	WOOD	1270		
Jackson I-21	100	WJMS	1420		
Kalamazoo I-21 tl	100	WIBM	1370		
Lapeer H-22	1000	WKZO	590		
Ludington H-20	100	WMPC	1500		
Marquette F-19	100	WKBB	1500		
Royal Oak H-22	50	WBEO	1310		
		WEXL	1310		
MINNESOTA					
Fergus Falls F-15	100	KGDE	1200		
Minneapolis G-17	50000	WCCO	C 810		
	1000	WDGY	1180		
	1000	WLB	1250		
	1000	WRHM	1250		
Moorhead F-15	100	KGFK	1500		
Northfield G-17	1000	KFMX	1250		
	1000	WCAL	1250		
St. Paul G-17	10000	KSTP	N 1460		
MISSISSIPPI					
Greenville O-18	100	WKFI	1210		
Gulfport Q-19	100	WGCM	1210		
Hattiesburg Q-19	100	WPFB	1370		
Jackson P-19	1000	WJDX	N 1270		
Kosciusko O-19 bc	100	WHEF	1500		
Laurel P-19 br	100	WAML	1310		
Meridian P-20	500	WCOC	880		
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	C 950		
	100	KWKC	1370		
	1000	WDAF	R 610		
	500	WHB	860		
	1000	WQQ	1300		
St. Joseph K-16	2500	KFEQ	680		
St. Louis L-18	500	KFUO	550		
	100	KFWF	1200		
	50000	KMOX	C 1090		
	500	KSD	R 550		
	1000	KWK	B 1350		
	1000	WEW	760		
	100	WIL	1200		
Springfield M-17	100	KGBX	1310		
MONTANA					
Billings F-9	1000	KGHL	N 950		
Butte F-7	500	KGIR	N 1360		
Great Falls E-8	1000	KFBB	1280		
Kalispell D-7	100	KGEZ	1310		
Missoula E-7	100	KGVO	1200		
Wolf Point E-11	100	KGCX	1310		
NEBRASKA					
Clay Center J-14	1000	KMMJ	740		
Kearney J-14 bc	100	KGFW	1310		
Lincoln J-15	5000	KFAB	C 770		
	100	KFOR	1210		
	500	WCAJ	590		
Norfolk I-15	1000	WJAG	1060		
North Platte J-13	500	KGNE	1430		
Omaha J-15	500	WAAW	660		
	1000	WOW	R 590		
Scottsbluff I-11	100	KGKY	1500		
York J-15	500	KGBZ	930		
NEVADA					
Las Vegas L-5	100	KGIX	1420		
Reno I-3	500	KOH	C 1380		
NEW HAMPSHIRE					
Laconia G-28 lc	100	WKAU	1310		
Manchester G-28	500	WFEA	C 1430		
Portsmouth G-28 tc	250	WHEB	740		
NEW JERSEY					
Asbury Park I-27	500	WCAP	C 1280		
Atlantic City J-27	5000	WPG	C 1100		
Camden I-26	500	WCAM	1280		
Jersey City I-27	300	WAAT	940		
	250	WHOM	1450		
Newark I-27	1000	WAAM	1250		
	250	WGCP	1250		
	250	WNI	1450		
	5000	WOR	710		
Paterson I-27	1000	WODA	1250		
Red Bank I-27	100	WJBI	1210		
Trenton I-26	500	WOAX	1280		
Zarephath I-27	250	WAWZ	1350		
NEW MEXICO					
Albuquerque N-7	250	KGGM	1230		
	20000	KOB	1180		
Clovis O-11 tr	100	KICA	1370		
Santa Fe M-10	100	KGFL	1370		
NEW YORK					
Albany G-27 bl	500	WOKO	C 1430		
Auburn H-25	100	WMBO	1310		
Binghamton H-26	100	WNBF	1500		
Brooklyn I-27	500	WBBC	1400		
	1000	WBBR	1300		
	500	WCCU	1400		
	500	WFOJ	1400		
	500	WLTH	1400		
	100	WMBQ	1500		
	100	WML	1500		
Buffalo H-24	1000	WBEN	R 900		
	100	WBR	C 1310		
	1000	WGR	C 550		
	5000	WKBW	C 1480		
	50	WSVS	1370		
	500	WCAD	1220		
	50	WCNY	1210		
	1000	WESG	1040		
	100	WGBB	1210		
	50	WGLC	1370		
	50	WOCL	1210		
Canton F-26	50000	WABC	C 860		
Chester Twp.	250	WBNX	1350		
Elmira H-25 c	50000	WBOO	1360		
Freeport I-27	250	WCDA	1350		
Hudson Falls G-27	50000	WEAF	R 660		
Jamestown H-24	500	WEVD	1300		
New York City I-27	1000	WFAB	1300		
	250	WINS	1180		
	250	WHN	1010		
	50000	WJZ	B 760		
	5000	WLWL	1100		
	250	WMCA	570		
	250	WMSG	1350		
	500	WNYC	570		
	1000	WOW	1130		
	250	WPAP	1010		
	500	WPCH	810		
	250	WQAO	1010		
	250	WRNY	1010		
Rochester G-25	5000	WHAM	B 1150		
	500	WHEC	C 1430		

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

	Watts		Keys.		Watts		Keys.
Saranac Lake F-26	50	WMBZ	1290	Portland E-3	500	KALE	C 1300
Schenectady G-27	50000	WGY	R 790		5000	KEX	N 1180
Syracuse G-25	1000	WFBL	C 1360		100	KBPS	1420
	250	WMAC	570		500	KFJR	1300
	250	WSYR	B 570		1000	KGW	N 620
Troy G-27	500	WHAZ	1300		1000	KOIN	C 940
Tupper Lake F-26	100	WHDL	1420		500	KWJJ	1060
Utica G-26	100	WIBX	1200		100	KXL	1420
Woodside I-27	100	WWRL	1500				
White Plains H-27 bl	100	WFAS	1210				
NORTH CAROLINA							
Asheville M-23	1000	WWNC	N 570	Allentown I-26	250	WCBA	1440
Charlotte M-24	25000	WBT	C 1080		250	WSAN	1440
Gastonia M-24	100	WSOC	1210	Altoona I-25	100	WFBG	1310
Greensboro M-24	500	WBIG	C 1440	Carbondale H-26	10	WNBW	1200
Raleigh M-25	1000	WPTF	N 680	Erie H-24	100	WERE	1420
Wilmington N-26	100	WRAM	1370		500	WLBW	C 1260
Winston-Salem M-24	100	WSJS	C 1310	Glenside I-26 rc	25	WIBG	930
				Grove City I-24	100	WSAJ	1310
				Harrisburg I-25	500	WBAK	1430
					100	WCOD	1200
					500	WHP	C 1430
				Hazleton I-26 lc	100	WAZL	1420
				Johnstown J-24	100	WJAC	1310
				Lancaster I-26	100	WGAL	1310
					100	WKJC	1200
				Lewisburg I-26	100	WJBU	1210
				Philadelphia I-26	50000	WCAU	C 1170
					100	WDAS	1370
					500	WFI	R 560
					100	WHAT	1310
					500	WIP	C 610
					500	WLIT	R 560
					100	WPEN	1500
					250	WRAX	1020
					100	WTEL	1310
				Pittsburgh J-24	50000	KDKA	B 980
					500	KQV	1380
					1000	WCAB	R 1220
					1000	WJAS	C 1290
					100	WWSW	1500
				Reading I-26	1000	WEEU	830
					100	WRAW	1310
				Scranton H-26	250	WGBI	880
					250	WQAN	880
				Washington J-24	100	WNBO	1200
				Wilkes-Barre I-26	100	WBAX	1210
					100	WBRE	1310
				Williamsport I-25	100	WRAC	1370
					100	WJEQ	1370
				York J-25 tr	1000	WORK	1000
PHILIPPINES							
				Cebu	500	KZRC	937.5
				Manila	1000	KZKA	1110
					50000	KZRM	618.5
PORTO RICO							
				San Juan W-34	1000	WKAQ	1240
RHODE ISLAND							
				Providence H-28	250	WEAN	C 780
					250	WJAR	R 890
					100	WPAW	1210
					100	WPRO	1210
SOUTH CAROLINA							
				Charleston O-25	500	WCSC	1360
				Columbia N-24	500	WIS	N 1010
				Greenville N-23 tc	100	WFBC	1200
				Spartanburg N-23	100	WSPA	1420

Columbia: C. National: Red, R; Blue, B; Both, N.

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Columbia: C. National: Red, R; Blue, B; Both, N.

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INDEX BY LOCATIONS WITH MAP KEY

HIDALGO	Watts	Keys.
Pachuca Y-13 re	100 XETU	890
JALISCO		
Guadalajara, Ja. X-10	100 XEA	1000
	500 XED	1155
MICHOACAN		
Morelia, Mich. Y-12	125 XEI	1310
NEUVO LEON		
Monterrey, N. L. U-13	100 XEFB	1315
	100 XEFJ	1000
	250 XEH	1132
	500 XET	690
PUEBLA		
Puebla Z-13	100 XETH	840
QUERETARO		
Queretaro X-12 br	40 XEFS	1000
TAMAULIPAS		
Matamoros U-14 tr	150000 XBTM	845
N. Laredo S-13	100 XEFB	1000
	150000 XENT	1115
Reynosa, Tams. T-14	10000 XEAW	965
Tampico, Tams. W-14	70 XEFW	1240
	250 XES	1055
VERA CRUZ		
Jalapa Y-14	100 XETC	1000
	500 XFB	840
Vera Cruz, Ver. Z-14	500 XETF	630
	100 XEU	1010
YUCATAN		
Merida, Yuc. X-19	10 XEFC	1050
	105 XEY	546.8
WEST INDIES		
CUBA		
Calbarien W-25	250 CMHD	950
Camaguey W-26	150 CMJC	1382
	50 CMJE	1175
	200 CMJF	930
	50 CMJG	1050
	300 CMJK	790
	50 CMJL	960
	50 CMJN	1270
Cardenas W-24	30 CMGB	1375
Ciego de Avila W-26	50 CMJH	1150
	5 CMJI	1260
	15 CMJO	1110
Cienfuegos W-25	40 CMHJ	1125
	20 CMHL	1290
Colon W-24	100 CMGA	834
Cruces	15 CMHK	1225

Guantanamo X-28 re	Watts	Keys.
Havana W-23	20 CMKJ	1300
	1000 CMAF	680
	150 CMAY	965
	150 CMBC	1270
	150 CMBD	965
	150 CMBF	1325
	225 CMBG	1070
	150 CMBJ	1140
	15 CMBK	1485
	20 CMBL	1444
	30 CMBN	1444
	40 CMBR	1500
	150 CMBR	780
	150 CMBW	925
	350 CMBY	1235
	150 CMBZ	1010
	500 CMG	840
	150 CMCA	1235
	150 CMCB	1070
	250 CMCD	1140
	250 CMCJ	890
	50 CMCH	1395
	250 CMCI	1185
	15 CMCN	1395
	250 CMCO	925
	1000 CMCP	780
	150 CMCR	1375
	150 CMCU	630
	150 CMCW	965
	150 CMCX	1010
	1000 CMCY	1385
	40 CMDB	1395
	150 CMDD	588
	250 CMDE	925
	3150 CMK	730
	250 CMQ	630
	1400 CMW	585
	500 CMX	890
	30 CMGB	1205
	30 CMGC	820
	100 CMGF	967
	15 CMGH	1040
	7.5 CMJP	1310
	20 CMAB	1249
	30 CMHI	1030
	150 CMKC	1034
	250 CMHC	790
Matanzas W-24		
Moron		
Pinar del Rio W-22		
Santa Clara W-25		
Santiago X-28		
Tuinecu W-25 re		
DOMINICAN REPUBLIC		
Santo Domingo X-31	1000 HIX	630
HAITI		
Port au Prince X-30	1000 HHK	920
SOUTH AMERICA		
Caracas Venez. DD-31	5000 YV1BC	960

Map Key: For locating cities not shown on the RADEX Map of North America, use the small letters following the square in which that city is located thus: tl top left, to top center, tr top right, bl bottom left, be bottom center, br bottom right, l left, o center, r right.

TIME CONVERSION TABLE

	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
Atlantic												
Eastern	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
Central	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
Mountain	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
Pacific	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00

CFAC

INDEX BY CALL LETTERS AND SATURDAY TIME

KASA

CFAC	680 Calgary, Alta., <i>MST</i> . 7:30-9 a.m.; 11:30 a.m.-1:30 p.m.; 4:30-6 p.m.	CJRW	685 Fleming, Sask., <i>MST</i> . 7:30-10 p.m.	CMCD	1140 Havana, Cuba, <i>EST</i> . Noon-3 p.m.; 8 p.m.-mid.
CFBO	890 St. John, N. B.	CKAC	730 Montreal, Que., <i>EST</i> . 7:30 a.m.-mid.	CMCF	890 Havana, Cuba, <i>EST</i> . 5-8 p.m.
CFCA	1120 Toronto, Ont., <i>EST</i> . 7:15-noon; 1:00 p.m.-11:30 p.m.	CKCD	730 Vancouver, B.C.	CMCH	1395 Havana, Cuba, <i>EST</i> . 5-9 p.m.
CFCF	1030 Montreal, Que., <i>EST</i> . 8 a.m.-mid.	CKCI	845 Quebec, Que., <i>EST</i> . 1-1:30 p.m.	CMCJ	1185 Havana, Cuba.
CFCH	930 North Bay, Ont., <i>EST</i> . Noon-1 p.m.; 5-8.	CKCK	960 Regina, Sask., <i>MST</i> . 9-10 a.m.; 11 a.m.-noon; 1-3:30.	CMCM	1395 Havana, Cuba.
CFCN	985 Calgary, Alta., <i>MST</i> . 7:30 a.m.-1:30 p.m.	CKCL	580 Toronto, Ont., <i>EST</i> . 8:30-10 a.m.; 11:45 a.m.-11 p.m.	CMCN	925 Havana, Cuba.
CFCO	1010 Chatham, Ont., <i>EST</i> . Silent.	CKCO	890 Ottawa, Ont.	CMCQ	780 Havana, Cuba.
CFCT	630 Victoria, B. C., <i>PST</i> . 8:30 a.m.-12:30 p.m.; 6-8 p.m.; 10-11 p.m.	CKCR	645 Waterloo, Ont., <i>EST</i> . 10 a.m.-1:15 p.m.; 4-7:30 p.m.	CMCR	1375 Havana, Cuba.
CFCY	580 Charlottetown, P. E. I. <i>AST</i> . 11:30 a.m.-noon; 4:30-8 p.m.	CKCV	880 Quebec, Que., <i>EST</i> . Noon-2 p.m.; 6:30-7:30.	CMCU	630 Havana, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKFC	730 Vancouver, B. C. Silent.	CMCW	965 Havana, Cuba, <i>EST</i> . 6 p.m.-mid.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKGW	840 Toronto, Ont., <i>EST</i> . 6:45 a.m.-mid.	CMCX	1010 Havana, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKIC	1010 Wolfville, N. S., <i>AST</i> . 7:30-8:30 a.m.; 12:15-1:15 p.m.; 6-7 p.m.	CMCY	1325 Havana, Cuba, <i>EST</i> . 8:30-10:30 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKLC	840 Red Deer, Alta., <i>MST</i> . 8 a.m.-8 p.m.	CMDB	1395 Havana, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKMC	1210 Cobalt, Ont., <i>EST</i> . Silent.	CMDD	588 Havana, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKMO	730 Vancouver, B. C.	CMDE	925 Havana, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKNC	960 Totonto, Ont., <i>EST</i> . 8 a.m.-12:30 p.m.; 5-11:15 p.m.	CMGA	834 Colon, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKOC	635 Hamilton, Ont., <i>EST</i> . 8 a.m.-10:30 p.m.	CMGB	1205 Matanzas, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKOK	540 Windsor, Ont., <i>EST</i> . 7:30 a.m.-mid.	CMGC	820 Matanzas, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKOV	1200 Kelowna, B. C., <i>PST</i> . 8-9 a.m.; 11:30 a.m.-2 p.m.; 4:30-7:30 p.m.; 9-11 p.m.	CMGE	1375 Cardenas, Cuba, <i>EST</i> . Noon-2; 8-10 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKPC	630 Preston, Ont., <i>EST</i> . 4 p.m.-11 p.m.	CMGF	987 Matanzas, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKPR	890 Ft. William, Ont., <i>EST</i> . 10 a.m.-2 p.m.; 6-8 p.m.	CMGH	1040 Matanzas, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKTB	635 St. Catharines, Ont., 1:30-5 p.m.; 6-10 p.m., <i>EST</i> .	CMHD	790 Tuinecu, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKUA	580 Edmonton, Alta., <i>MST</i> . Silent.	CMHE	950 Caibarien, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKWX	730 Vancouver, B. C., <i>PST</i> . 8-8:30 a.m.; 10:30 a.m.-noon; 4:30-7:30; 11:30-mid.	CMHI	1030 Santa Clara, Cuba, <i>EST</i> . 11 a.m.-1 p.m.; 8-10 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKX	930 Brandon, Man., <i>CST</i> . 8:30-9:30 a.m.	CMHJ	1125 Cienfuegos, Cuba, <i>EST</i> . 11 a.m.-1 p.m.; 7-9 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CKY	780 Winnipeg, Man., <i>CST</i> . 8:30 a.m.-4 p.m.; 7-10:45 p.m.	CMHK	1225 Cruces, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMAB	1249 Pinar del Rio, Cuba.	CMHL	1290 Cienfuegos, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMAC	680 Havana, Cuba, <i>EST</i> . 5-11:30 p.m.	CMJC	1382 Camaguey, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMAD	965 Havana, Cuba.	CMJE	1175 Camaguey, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBC	1270 Havana, Cuba, <i>EST</i> . 11 a.m.-5 p.m.	CMJF	930 Camaguey, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBD	965 Havana, Cuba.	CMJG	1050 Camaguey, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBF	1325 Havana, Cuba.	CMJH	1150 Ciego de Avila, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBG	1070 Havana, Cuba.	CMJI	1260 Ciego de Avila, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBJ	1140 Havana, Cuba.	CMJK	790 Camaguey, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBK	1405 Havana, Cuba.	CMJL	960 Camaguey, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBL	1444 Havana, Cuba, <i>EST</i> . 3-5 p.m.	CMJN	1270 Camaguey, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBN	1444 Havana, Cuba, <i>EST</i> . 2-3 p.m.; 9:15-11 p.m.	CMJO	1110 Ciego de Avila, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBR	1500 Havana, Cuba.	CMJP	1310 Moron, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBS	780 Havana, Cuba.	CMJQ	730 Havana, Cuba, <i>EST</i> . 10 a.m.-noon; 6 p.m.-mid.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBW	825 Havana, Cuba.	CMK	1034 Santiago, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMBY	1235 Havana, Cuba.	CMKJ	1300 Guantanamo, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMCZ	1010 Havana, Cuba, <i>EST</i> . 9-10:30 a.m.; noon-2 p.m.; 4-5 p.m.; 6-7 p.m.; 8-11 p.m.	CMKJ	630 Havana, Cuba.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMC	840 Havana, Cuba.	CMW	585 Havana, Cuba, <i>EST</i> . 7:30 a.m.-11:30 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMCA	1235 Havana, Cuba.	CMX	890 Havana, Cuba, <i>EST</i> . 11 a.m.-2 p.m.; 8-mid.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.	CMCB	1070 Havana, Cuba, <i>EST</i> . 11:30 a.m.-1 p.m.; 5-6 p.m.; 7:30-10 p.m.	CNRA	830 Moncton, N. B., <i>AST</i> . 12:30-2 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			CNRH	815 Halifax, N. S., <i>AST</i> . Silent.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			CNRO	800 Ottawa, Ont., <i>EST</i> . Noon-1 p.m.; 6-8:30 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			CNRV	1038 Vancouver, B. C., <i>PST</i> . 2-3:30 p.m.; 5:30-8:30 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			CPRY	840 Toronto, Ont., <i>EST</i> . 1-1:30 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			HHK	829 Port-au-Prince, Haiti.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			HIX	630 Santo Domingo, <i>EST</i> . Silent.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			KABC	1429 San Antonio, Tex., <i>CST</i> . 6:45 a.m.-1:30 p.m.; 4-mid.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			KALE	1300 Portland, Ore., <i>PST</i> . 7-10:30 a.m.; 2:30-5; 6-7 p.m.; 8-mid.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			KARK	890 Little Rock, Ark., <i>CST</i> . 7:30 a.m.-9 p.m.
CFJC	1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.			KASA	1210 Elk City, Okla., <i>CST</i> . 7 a.m.-9 p.m.

KBPS 1420 Portland, Ore., <i>PST</i> . Silent.	KFLV 1410 Rockford, Ill., <i>CST</i> . 10 a.m.-12:30 p.m.; 3-6 p.m.; 8-10 p.m.	KGCA 1270 Decorah, Iowa, <i>CST</i> . 8:30-9:45 a.m.; 10:45-11:30 a.m.; 12:30-2:30 p.m.
KBTM 1200 Paragould, Ark., <i>CST</i> . 7:30 a.m.-3 p.m.	KFLX 1370 Galveston, Texas, <i>CST</i> . 12:50 Northfield, Minn., <i>CST</i> . 10:15-10:35 a.m.	KGCR 1210 Watertown, S. D., <i>CST</i> . 6:30 a.m.-3 p.m.; 5-9 p.m.
KCMC 1420 Texarkana, Ark., <i>CST</i> . 6:45 a.m.-9 p.m.	KFNH 890 Shenandoah, Iowa, <i>CST</i> . 5-8 a.m.; 9-10 a.m.; 12:15-5 p.m.; 6-10 p.m.	KGCU 1240 Mandan, N. D., <i>MST</i> . Noon-5 p.m.; 6:45-9 p.m.
KCRC 1370 Enid, Okla., <i>CST</i> . 10:10 a.m.-2 p.m.; 3:45-7:45 p.m.	KFOR 1210 Lincoln, Nebr., <i>CST</i> . 7 a.m.-10 p.m.	KGEX 1310 Wolf Point, Mont., <i>MST</i> . 6:30-9 a.m.; 11:30-3; 6-9 p.m.
KCRJ 1010 Jerome, Ariz., <i>MST</i> . 7:30-9:30 a.m.; noon-1 p.m.; 3:45-6 p.m.	KFOX 1250 Long Beach, Calif., <i>PST</i> . 6 a.m.-mid.	KGDA 1370 Mitchell, S. D., <i>CST</i> . 8 a.m.-4:30 p.m.; 5:30-9 p.m.
KDB 1500 Santa Barbara, Calif. 8 a.m.-mid., <i>PST</i> .	KFPL 1310 Dublin, Texas, <i>CST</i> . 6 a.m.-10:30 p.m.	KGDE 1200 Fergus Falls, Minn. 7 a.m.-9 p.m., <i>CST</i> .
KDFN 1440 Casper, Wyo., <i>MST</i> . 9 a.m.-9 p.m.	KFPM 1310 Greenville, Texas, <i>CST</i> . 7:45-9 a.m.; 1-2:45 p.m.; 6-9 p.m.	KGDM 1100 Stockton, Calif., <i>PST</i> . 6 a.m.-mid.
KDKA 980 Pittsburgh, Pa., <i>EST</i> . 7 a.m.-12:30 a.m. next day.	KFPW 1210 Fort Smith, Ark., <i>CST</i> . 7:30 a.m.-3 p.m.; 5:30-9:30 p.m.	KGDU 1200 Huron, S. D., <i>CST</i> . 7 a.m.-2 p.m.; 4-9 p.m.
KDLR 1210 Devils Lake, N. D., <i>CST</i> . 7 a.m.-3 p.m.; 5:30-9:30 p.m.	KFPY 1340 Spokane, Wash., <i>PST</i> . 7:10 a.m.-12:30 a.m. next day.	KGEE 1200 Yuma, Colo., <i>MST</i> . 11:30 a.m.-mid.
KDYL 1290 Salt Lake City, Utah. 6:30 a.m.-1 p.m., <i>MST</i> .	KFQD 1230 Anchorage, Alaska. 6 p.m.-mid. (Zone 6)	KGEE 1380 Long Beach, Calif., <i>PST</i> . 6 a.m.-1:15 a.m.
KECA 1430 Los Angeles, Calif., <i>PST</i> . 9 a.m.-11 p.m.	KFRG 610 San Francisco, Calif. 8 a.m.-1 p.m.; 5-8 p.m.	KGFW 1200 Ft. Morgan, Colo., <i>MST</i> . Silent.
KELW 780 Burbank, Calif., <i>PST</i> . 9 a.m.-1 p.m.; 5-8 p.m.	KFRU 630 Columbia, Mo., <i>CST</i> . 6:30-9 a.m.; 2-9 p.m.	KGGE 1310 Kalispell, Mont., <i>MST</i> . 8 a.m.-9 p.m.
KERN 1200 Bakersfield, Calif., <i>PST</i> . 7:30 a.m.-mid.	KFSB 600 San Diego, Calif., <i>PST</i> . 7:30 a.m.-mid.	KGFF 1420 Shawnee, Okla., <i>CST</i> . 7:30 a.m.-9 p.m.
KEX 1180 Portland, Ore., <i>PST</i> . 7 a.m.-noon; 1 p.m.-mid.	KFSG 1120 Los Angeles, Calif., <i>PST</i> . 1:30-3 p.m.; 7:30-mid.	KGFG 1370 Oklahoma City, Okla. 7:15-10 a.m.; 3-3:45 p.m.; 7:45- 9:15 p.m., <i>CST</i> .
KFAB 770 Lincoln, Neb., <i>CST</i> . 6 a.m.-10:30 p.m.	KFUL 1290 Galveston, Texas, <i>CST</i> . 8:30 a.m.; 11 a.m.-1 p.m.; 2:30- 4 p.m.; 5:30-8 p.m.; 10:15-mid.	KGFI 1500 Corpus Christi, Texas. 7 a.m.-3 p.m.; 6-10 p.m., <i>CST</i> .
KFAC 1300 Los Angeles, Calif., <i>PST</i> . 7 a.m.-mid.	KFUO 550 St. Louis, Mo., <i>CST</i> . 6:30-7 a.m.; 12:15-12:40 p.m.	KGFI 1200 Los Angeles, Calif. 24 hours daily.
KFBB 1280 Great Falls, Mont., <i>MST</i> . 8 a.m.-3 p.m.; 5-10 p.m.	KFVJ 1000 Los Angeles, Calif., <i>PST</i> . 6 a.m.-6:45 p.m.; 10 p.m.-mid.	KGFK 1500 Moorhead, Minn., <i>CST</i> . 8 a.m.-9 p.m.
KFBI 1050 Abilene, Kans., <i>CST</i> . 5 a.m.-9 p.m.	KFVS 1210 Cape Girardeau, Mo. 9 a.m.-noon; 4-7:30; 9-mid., <i>CST</i> .	KGFL 1370 Santa Fe, N. M., <i>MST</i> . 9-10 a.m.; 11 a.m.-3 p.m.; 4:50- p.m.; 7:30-9 p.m.
KFBK 1310 Sacramento, Calif., <i>PST</i> . 7 a.m.-11 p.m.	KFWB 950 Los Angeles, Calif., <i>PST</i> . 7:30 a.m.-mid.	KGFM 1310 Kearney, Neb., <i>CST</i> . 7:30 a.m.-1:30 p.m.; 5-10:30 p.m.
KFBL 1370 Everett, Wash., <i>PST</i> . 8:30 a.m.-noon-3 p.m.; 2-6 a.m.	KFWF 1200 St. Louis, Mo., <i>CST</i> . Silent.	KGFX 830 Pierre, S. D. 12:30 a.m.-mid.
KFDM 560 Beaumont, Tex., <i>CST</i> . 7 a.m.-2 p.m.; 4:30-10:30 p.m.	KFWI 930 San Francisco, Calif. 7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30 p.m.; 11-1 a.m., <i>PST</i> .	KGHC 1420 San Francisco, Calif. 9 a.m.-9 p.m., <i>PST</i> .
KFDY 550 Brookings, S. D., <i>CST</i> . 12:30-2 p.m.	KFXD 1200 Nampa, Idaho, <i>MST</i> . 7 a.m.-9 p.m.	KGHE 1010 Coffeyville, Kans., <i>CST</i> . 7:30 a.m.-2 p.m.; 5-10:30 p.m.
KFEL 920 Denver, Colo., <i>MST</i> . 7-8:30 a.m.; 10 a.m.-12:30 p.m.; 3-4:30 p.m.; 6-7:30 p.m.	KFXF 920 Denver, Colo., <i>MST</i> . 8:30-10 a.m.; 12:30-3; 4:30-6; 7:30-mid.	KGHM 1230 Albuquerque, N. M. 8 a.m.-2 p.m.; 4-10 p.m., <i>MST</i> .
KFEQ 680 St. Joseph, Mo., <i>CST</i> . 6 a.m.-7:45 p.m.	KFXJ 1200 Grand Jet., Colo., <i>MST</i> . 8 a.m.-2 p.m.; 6-9 p.m.	KGHN 1320 Pueblo, Colo., <i>MST</i> . 7 a.m.-1 p.m.; 4-10 p.m.
KFGQ 1310 Boone, Iowa, <i>CST</i> . 6-7:30 a.m.; 1:30-2:30 p.m.	KFXM 1210 San Bernardino, Calif. 7 a.m.-mid., <i>PST</i> .	KGHI 1200 Little Rock, Ark., <i>CST</i> . 8:30 a.m.-1:30 p.m.; 5-9 p.m.; 3 a.m.
KFHF 1300 Wichita, Kans., <i>CST</i> . 7-8:30 a.m.; 9-11 a.m.; 11:30 a.m.-2 p.m.; 3-10; 11-11:30 p.m.	KFXR 1310 Oklahoma City, Okla. 7:30 a.m.-2 p.m.; 4-10, <i>CST</i> .	KGHL 950 Billings, Mont., <i>MST</i> . 7:30 a.m.-4 p.m.; 5:30-11 p.m.
KFI 640 Los Angeles, Calif., <i>PST</i> . 6:30 a.m.-mid.	KFYD 1310 Lubbock, Texas, <i>CST</i> . 6 a.m.-2 p.m.; 4-10 p.m.	KGIR 1380 Butte, Mont., <i>MST</i> . 7 a.m.-mid.
KFIO 1120 Spokane, Wash., <i>PST</i> . 6 a.m.-sun.	KFYR 550 Bismarck, N. D., <i>CST</i> . 6:30 a.m.-12:30 p.m.; 2-11 p.m.	KGIV 1420 Trinidad, Colo., <i>MST</i> . 6-8 a.m.; 10-2 p.m.; 5-8 p.m.
KFIZ 1420 Fond du Lac, Wis., <i>CST</i> . 10 a.m.-1 p.m.; 4-10 p.m.	KGA 1470 Spokane, Wash., <i>PST</i> . 6 a.m.-mid.	KGIX 1420 Las Vegas, Nev., <i>PST</i> . 6-9 a.m.; noon-3 p.m.; 6-9 p.m.
KFJB 1290 Marshalltown, Iowa. 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	KGAR 1370 Tucson, Ariz., <i>MST</i> . 7 a.m.-1:30 p.m.; 4-11 p.m.	KGIZ 1500 Grant City, Mo., <i>CST</i> . 7-11 a.m.; noon-5 p.m.; 6-9 p.m.
KFJI 1210 Klamath Falls, Ore. 7:30 a.m.-9 p.m., <i>PST</i> .	KGB 1330 San Diego, Calif., <i>PST</i> . 7 a.m.-mid.	KGKB 1500 Tyler, Texas, <i>CST</i> . 7 a.m.-2 p.m.; 4-10 p.m.
KFJM 1370 Grand Forks, N. D. 7 a.m.-9 p.m., <i>CST</i> .	KGBU 900 Ketchikan, Alaska. (Zone 8), 10 a.m.-3 p.m.; 5-7; 10 p.m.-3 a.m.	KGKL 1370 San Angelo, Texas, <i>CST</i> . 8 a.m.-11:30 p.m.
KFJR 1300 Portland, Ore., <i>PST</i> . 10:30 a.m.-2:30 p.m.; 5-6 p.m.; 7-8 p.m.	KGBX 1310 Springfield, Mo., <i>CST</i> . 6:30-9:30 a.m.; 11 a.m.-2 p.m.; 4-10 p.m.	KGKO 570 Wichita Falls, Texas. 1420 Lewistown, Idaho.
KFJZ 1370 Fort Worth, Texas, <i>CST</i> . 7 a.m.-11 p.m.	KGBZ 930 York, Neb., <i>CST</i> . 7:30-9:30 a.m.; 11 a.m.-12:30 p.m.; 2-3:30 p.m.; 5-6:30 p.m.; 8:30-10 p.m.	KGKY 1500 Scottsbluff, Neb., <i>MST</i> . 6:30 a.m.-2 p.m.; 4:30-9 p.m.
KFKA 880 Greeley, Colo., <i>MST</i> . 6-7:30 a.m.; 9 a.m.-2:30 p.m.; 8-11 p.m.		KGMB 1320 Honolulu, Hawaii. 7-9 a.m.; 10:40 a.m.-11 p.m. (Zone 5)
KFKU 1220 Lawrence, Kans., <i>CST</i> . 2:30-3 p.m.; 6-6:15 p.m.		KGNF 1430 North Platte, Neb. 7 a.m.-sun., <i>MST</i> .
KFKX 1020 Chicago, Ill.		KGNO 1210 Dodge City, Kans. 7:30 a.m.-3:30 p.m.; 5-9, <i>MST</i> .

KGO 790 San Francisco, Calif. 7 a.m.-12:30 a.m., <i>PST</i> .	KNX 1050 Hollywood, Calif., <i>PST</i> . 6:30 a.m.-1 a.m. next day.	KSO 1380 Des Moines, Iowa. 1110 Sioux Falls, S. D., <i>CST</i> . 6 a.m.-8 p.m.
KGRS 1410 Amarillo, Texas, <i>CST</i> . 6-8 a.m.; 10 a.m.-12:30 p.m.; 3-4:30; 6-7:30; 9-10 p.m.	KOA 930 Denver, Colo., <i>MST</i> . 7 a.m.-mid.	KSTP 1460 St. Paul, Minn., <i>CST</i> . 6:30 a.m.-12:30 a.m. next day.
KGU 750 Honolulu, Hawaii. 6:15-10:30 a.m.; noon-1 p.m.; 3:15-11 p.m. (Zone 5)	KOAC 550 Corvallis, Ore., <i>PST</i> . 6:30 a.m.-4 p.m.; 6-8:30 p.m.	KTAB 560 San Francisco, Calif. 6:45 a.m.-1 a.m., <i>PST</i> .
KGVO 1200 Missoula, Mont., <i>MST</i> . 6 a.m.-mid.	KOB 1100 Albuquerque, N. M. 7 a.m.-9 p.m., <i>MST</i> .	KTAR 620 Phoenix, Ariz., <i>MST</i> . 7 a.m.-11:15 p.m.
KGW 620 Portland, Ore., <i>PST</i> . 6:30 a.m.-mid.	KOCW 1400 Chickasha, Okla. 1380 Reno, Nev., <i>PST</i> . 8 a.m.-mid.	KTAT 1240 Ft. Worth, Texas. 7-9 a.m.; noon-1:30 p.m.; 4-7 p.m.; 9-mid.
KGY 1210 Olympia, Wash., <i>PST</i> . 6 a.m.-mid.	KOIL 1260 Council Bluffs, Ia., <i>CST</i> . 6 a.m.-1 a.m.	KTBS 1450 Shreveport, La., <i>CST</i> . 6 a.m.-mid.
KHJ 900 Los Angeles, Calif., <i>PST</i> . 7 a.m.-1 a.m. next day.	KOIN 940 Portland, Ore., <i>PST</i> . 6 a.m.-1 a.m. next day.	KTFI 1240 Twin Falls, Idaho, <i>MST</i> . 6:30 a.m.-mid.
KHQ 690 Spokane, Wash., <i>PST</i> . 7 a.m.-mid.	KOL 1270 Seattle, Wash., <i>PST</i> . 6:45 a.m.-mid.	KTHS 1040 Hot Springs, Ark., <i>CST</i> . 9-10 a.m.; 11 a.m.-12:30 p.m.; 4:30-5:30; 7-9:30 p.m.
KICA 1370 Clovis, N. M.	KOMA 1400 Oklahoma City, Okla. 7 a.m.-11 p.m., <i>CST</i> .	KTM 780 Los Angeles, Calif., <i>PST</i> . 6-10 a.m.; 1-5 p.m.; 8 p.m.-4 a.m. next day.
KICK 1420 Red Oak, Iowa. Silent.	KONO 920 Seattle, Wash., <i>PST</i> . 6:55 a.m.-12:30 a.m. next day.	KTRH 1120 Houston, Texas, <i>CST</i> . 6:30-11 a.m.; noon-11:30 p.m.
KID 1320 Idaho Falls, Idaho, <i>MST</i> . 9 a.m.-mid.	KONO 1370 San Antonio, Tex., <i>CST</i> . 8:30-10 a.m.; 11 a.m.-noon; 1:30-4 p.m.; 6-7 p.m.; 8-10; 9 a.m.-10 p.m.	KTSA 1290 San Antonio, Tex., <i>CST</i> . 6-8 a.m.; 9:30-11:30 a.m.; 3-5 p.m.; 7-10 p.m.
KIDO 1350 Boise, Idaho, <i>MST</i> . 7 a.m.-10 p.m.	KOOS 1370 Marshallfield, Ore., <i>PST</i> . 9 a.m.-9 p.m.	KTSM 1310 El Paso, Texas. 1220 Seattle, Wash.
KIDW 1420 Lamar, Colo., <i>MST</i> . 6-8 a.m.; 2-6 p.m.; 8-10.	KORE 1420 Eugene, Ore., <i>PST</i> . 7:45 a.m.-8:30 p.m.	KTW 1370 Walla Walla, Wash. 6 a.m.-sun., <i>PST</i> .
KIEM 1210 Eureka, Calif., <i>PST</i> .	KOY 1390 Phoenix, Ariz., <i>MST</i> . 7 a.m.-10 p.m.	KUMA 1420 Yuma, Ariz., <i>MST</i> . 7-9 a.m.; noon-3 p.m.; 6-9 p.m.
KIEV 659 Glendale, Calif., <i>PST</i> . 6 a.m.-sun.	KPCB 650 Seattle, Wash., <i>PST</i> . 5:30 a.m.-8 p.m.; 10 p.m.-4 a.m.	KUOA 1390 Fayetteville, Ark., <i>CST</i> . 7-8 a.m.; 11 a.m.-1 p.m.; 5-6:30 p.m.
KIFH 1310 Juneau, Alaska.	KPFJ 1500 Prescott, Ariz., <i>MST</i> . 9 a.m.-2 p.m.; 4-11 p.m.	KUSD 890 Vermillion, S. D., <i>CST</i> . Silent.
KIT 1310 Yakima, Wash., <i>PST</i> . 7 a.m.-mid.	KPO 680 San Francisco, Calif. 7:30 a.m.-mid., <i>PST</i> .	KVI 570 Tacoma, Wash., <i>PST</i> . 6:30 a.m.-1 a.m.
KJBS 1070 San Francisco, Calif. Mid. to local sunset, <i>PST</i> .	KPOF 880 Denver, Colo., <i>MST</i> . 7:30-9 a.m.; 2:30-4:30 p.m.; 6-8 p.m.	KVL 1370 Seattle, Wash.
KJRH 1290 Blytheville, Ark.	KPPC 1210 Pasadena, Calif., <i>PST</i> . Silent.	KVOA 1290 Tucson, Ariz.
KLO 1400 Ogden, Utah. 8:30 a.m.-10:30 p.m., <i>MST</i> .	KPK 1500 Wenatchee, Wash., <i>PST</i> . 7 a.m.-10 p.m.	KVOO 1140 Tulsa, Okla., <i>CST</i> .
KLPW 1240 Minot, N. D., <i>CST</i> . 7 a.m.-1 p.m.; 6-7:45 p.m.; 10- 11:30 p.m.	KPRC 920 Houston, Texas, <i>CST</i> . 6:30 a.m.-mid.	KVOR 1270 Colorado Springs, Colo. 7 a.m.-10 p.m., <i>MST</i> .
KLRA 1390 Little Rock, Ark., <i>CST</i> . 8-11 a.m.; 1-5 p.m.; 6:30-11 p.m.	KQV 1380 Pittsburgh, Pa., <i>EST</i> . 8:30 a.m.-1 p.m.; 2-11 p.m.	KVOS 1290 Bellingham, Wash.
KLS 1440 Oakland, Calif., <i>PST</i> . 8:30 a.m.-7:30 p.m.	KQW 1010 San Jose, Calif., <i>PST</i> . 7 a.m.-3 p.m.; 4:30-10 p.m.	KWCR 1420 Cedar Rapids, Ia., <i>CST</i> . 6:30 a.m.-mid.
KLX 880 Oakland, Calif., <i>PST</i> . 7 a.m.-11 p.m.	KRE 1370 Berkeley, Calif., <i>PST</i> . 6:30-9:30 a.m.; noon-3 p.m.; 6-9 p.m.	KWEA 1210 Shreveport, La.
KLZ 560 Denver, Colo., <i>MST</i> . 6:30 a.m.-11:30 p.m.	KMA 930 Shenandoah, Iowa, <i>CST</i> . 6-7:30 a.m.; 9:30-11 a.m.; 12:30- 2 p.m.; 3:30-5 p.m.; 6:30-8:30 p.m.	KWG 1200 Stockton, Calif., <i>PST</i> . 7 a.m.-mid.
KMA 930 Shenandoah, Iowa, <i>CST</i> . 6-7:30 a.m.; 9:30-11 a.m.; 12:30- 2 p.m.; 3:30-5 p.m.; 6:30-8:30 p.m.	KMAC 1370 San Antonio, Tex., <i>CST</i> . 7-8:30 a.m.; 10-11 a.m.; noon- 1:30 p.m.; 4-6 p.m.; 7-8 p.m.; 10 p.m.-2 a.m.	KWJJ 1060 Portland, Ore.
KMB 950 Kansas City, Mo., <i>CST</i> . 6:15 a.m.-mid.	KMB 1310 Medford, Ore., <i>PST</i> . 8 a.m.-9:30 p.m.	KWK 1350 St. Louis, Mo., <i>CST</i> . 6:55 a.m.-12:15 a.m. next day.
KMED 1310 Medford, Ore., <i>PST</i> . 8 a.m.-9:30 p.m.	KMJ 580 Fresno, Calif., <i>PST</i> . 7 a.m.-mid.	KWK 1370 Kansas City, Mo.
KML 1200 Monroe, La., <i>CST</i> . 7 a.m.-10 p.m.	KMMJ 740 Clay Center, Neb., <i>CST</i> . 5:45 a.m.-sun.	KWKH 950 Shreveport, La., <i>CST</i> . 8:30 p.m.-mid.
KMO 1330 Tacoma, Wash., <i>PST</i> . 6:30 a.m.-11 p.m.	KMOX 1090 St. Louis, Mo., <i>CST</i> . 6:45 a.m.-1 p.m.	KWLC 1270 Decorah, Iowa, <i>CST</i> . 6:30-8:30 a.m.; 9:45-10:45; 11:30 a.m.-12:30 p.m.
KMP 710 Beverly Hills, Calif. 6:30 a.m.-5:15 p.m.; 8-1 a.m. <i>PST</i> .	KMR 570 Hollywood, Calif., <i>PST</i> . 6:30 a.m.-mid.	KWSC 1220 Pullman, Wash., <i>PST</i> . 6:45-8 a.m.; 10:30 a.m.-9:30 p.m.
KMR 570 Hollywood, Calif., <i>PST</i> . 6:30 a.m.-mid.	KNOW 1500 Austin, Texas, <i>CST</i> . 7:30 a.m.-1 p.m.; 5-11 p.m.	KX 760 Seattle, Wash., <i>PST</i> . 7 a.m.-sundown; 9 p.m.-mid.
		KXL 1420 Portland, Ore., <i>PST</i> . 7 a.m.-mid.
		KXO 1500 El Centro, Calif.
		KXRO 1310 Aberdeen, Wash., <i>PST</i> . 7:30 a.m.-mid.
		KXYZ 1440 Houston, Texas, <i>CST</i> . 7-10 a.m.; 11 a.m.-1:15 p.m.; 3:30-10:30 p.m.
		KYA 1230 San Francisco, Calif. 7:30 a.m.-mid., <i>PST</i> .
		KYW 1020 Chicago, Ill., <i>CST</i> . 7 a.m.-1 a.m. next day.

KZRM

INDEX BY CALL LETTERS AND SATURDAY TIME

WERE

KZRM 618.5 Manila, P. I. 6:30-7:30 a.m.; 12:15-1:15; 3-10:30 p.m.	WBBR 1300 Brooklyn, N. Y., <i>EST.</i> Silent.	WCLO 1200 Janesville, Wis., <i>CST.</i> 7:30 a.m.-3:30 p.m.; 5-9 p.m.
NAA 690 Arlington, Va. RUS 684 Salvador. TICR 911 San Jose, C. R. VAS 685 Glace Bay, N. S., <i>AST.</i> 1:15-1:30 p.m.; mid-12:15 a.m.	WBBZ 1200 Ponca City, Okla., <i>CST.</i> 6 a.m.-10 p.m.	WCLS 1310 Joliet, Ill., <i>CST.</i> 11 a.m.-noon; 3-8 p.m.; 10 p.m.-mid.
VOAS 810 St. Johns, N. F. 11 a.m.-12:30 p.m.; 4-5:30 p.m.; 7:45-10 p.m. (Zone 19)	WBCM 1410 Bay City, Mich., <i>EST.</i> 8 a.m.-mid.	WCOA 1340 Pensacola, Fla., <i>CST.</i> 9 a.m.-10:30 p.m.
VOGT 893 Wabana, N. F. Silent.	WBEN 900 Buffalo, N. Y., <i>EST.</i> 6:45 a.m.-1 a.m.	WCOC 890 Meridian, Miss., <i>CST.</i> 7:30 a.m.-2 p.m.; 5-11 p.m.
VOGY 080 St. Johns, N. F. VONA 950 St. Johns, N. F. 12:30-2 p.m.; 6:30-8 p.m. (Zone 19)	WBEO 1310 Marquette, Mich., <i>CST.</i> 9:30 a.m.-1:15 p.m.; 5-7 p.m.	WCOD 1200 Harrisburg, Pa., <i>EST.</i> 8-11 a.m.; 3-6 p.m.; 8-11 p.m.
VONF 1195 St. Johns, N. F. Noon-2 p.m.; 6-8 p.m. (Zone 19)	WBHS 1200 Huntsville, Ala., <i>CST.</i> 8 a.m.-2 p.m.; 5-9:30 p.m.	WCRW 1410 Chicago, Ill., <i>CST.</i> 7-8:30 a.m.; 11:30 a.m.-1:30 p.m.; 6-7 p.m.; 9-10 p.m.
VOWR 750 St. Johns, N. F. Silent.	WBIG 1440 Greensboro, N. C., <i>EST.</i> 8 a.m.-11 p.m.	WCSC 1380 Charleston, S. C., <i>EST.</i> 8 a.m.-3 p.m.; 6-11 p.m.
WAAB 1410 Boston, Mass., <i>EST.</i> 7:45 a.m.-mid.	WBNX 1350 New York City, <i>EST.</i> 9 a.m.-noon; 3-6 p.m.	WCSS 940 Portland, Maine, <i>EST.</i> 7:45 a.m.-1 p.m.; 2:30-11:15 p.m.
WAFA 920 Chicago, Ill., <i>CST.</i> 6 a.m.-local sunset.	WBOQ 680 New York City. WBOW 1310 Terre Haute, Ind., <i>CST.</i> 7 a.m.-2 p.m.; 4-mid.	WDAA 1220 Tampa, Fla., <i>EST.</i> 8 a.m.-mid.
WAAM 1250 Newark, N. J., <i>EST.</i> 7-9 a.m.; 10 a.m.-noon; 2-4:30; 6-9 p.m.	WBRC 930 Birmingham, Ala., <i>CST.</i> 7 a.m.-11 p.m.	WDAF 610 Kansas City, Mo., <i>CST.</i> 6:26 a.m.-mid.
WAAT 940 Jersey City, N. J., <i>EST.</i> 6 a.m.-6 p.m.	WBRE 1310 Wilkes Barre, Pa. WBSO 920 Babson Park, Mass., 7 a.m.-5 p.m., <i>EST.</i>	WDAQ 1410 Amarillo, Texas, <i>CST.</i> 8-10 a.m.; 12:30-3; 4:30-6; 7:30-9; 10-mid.
WAAW 680 Omaha, Neb., <i>CST.</i> 6 a.m.-6 p.m.	WBT 1080 Charlotte, N. C., <i>EST.</i> 7 a.m.-mid.	WDAH 1310 El Paso, Texas. WDAS 1370 Philadelphia, Pa., <i>EST.</i> 9 a.m.-10:30 p.m.
WBAC 860 New York City, <i>EST.</i> 7:30 a.m.-2 a.m. next day.	WBTM 1370 Danville, Va., <i>EST.</i> 11 a.m.-1 p.m.; 6-6:30; 7-10:30 p.m.	WDAY 940 Fargo, N. D., <i>CST.</i> 6 a.m.-11 p.m.
WBBI 1200 Bangor, Maine, <i>EST.</i> 9 a.m.-2 p.m.; 6-10 p.m.	WBZ 990 Boston, Mass., <i>EST.</i> 7 a.m.-mid.	WDBJ 930 Roanoke, Va., <i>EST.</i> 8 a.m.-mid.
WBZ 1200 New Orleans, La., <i>CST.</i> Noon-4 p.m.; 8 p.m.-mid.	WBZA 990 Springfield, Mass., <i>EST.</i> 7 a.m.-mid.	WDBO 580 Orlando, Fla., <i>EST.</i> 7 a.m.-mid.
WACO 1240 Waco, Texas, <i>CST.</i> 6-7 a.m.; 9-noon; 1:30-4 p.m.; 7-9 p.m.	WCAC 600 Storrs, Conn., <i>EST.</i> Silent.	WDEL 1120 Wilmington, Del., <i>EST.</i> 9 a.m.-10 p.m.
WADC 1320 Akron, Ohio, <i>EST.</i> 8:30 a.m.-mid.	WCAD 1220 Canton, N. Y., <i>EST.</i> 12:30-1:20 p.m.	WDEV 550 Waterbury, Vt., <i>EST.</i> 9:30-11 a.m.; noon-2 p.m.
WAGM 1420 Presque Isle, Me., <i>EST.</i> 10 a.m.-1 p.m.; 4:30-9:30 p.m.	WCAE 1220 Pittsburgh, Pa., <i>EST.</i> 6:45 a.m.-mid.	WDGY 1180 Minneapolis, Minn. 6:30 a.m.-8:15 p.m., <i>CST.</i>
WAIU 640 Columbus, Ohio, <i>EST.</i> 7 a.m.-sunset.	WCAH 1430 Columbus, Ohio, <i>EST.</i> 7:45 a.m.-mid.	WDDO 1280 Chattanooga, Tenn. 7:30 a.m.-11 p.m., <i>CST.</i>
WALR 1210 Zanesville, Ohio, <i>EST.</i> 9 a.m.-10 p.m.	WCAJ 590 Lincoln, Neb., <i>CST.</i> 10:45 a.m.; noon-12:30 p.m.	WDRC 1330 Hartford, Conn., <i>EST.</i> 8 a.m.-mid.
WAMC 1420 Anniston, Ala., <i>CST.</i> 7:10-30 a.m.; noon-9 p.m.	WCAL 1250 Northfield, Minn., <i>CST.</i> 9:45-10:15 a.m.	WDSU 1250 New Orleans, La., <i>CST.</i> 7 a.m.-11:45 p.m.
WAML 1310 Laurel, Miss. WAPI 1140 Birmingham, Ala., <i>CST.</i> 6 a.m.-9 p.m.	WCAM 1290 Camden, N. J., <i>EST.</i> Silent.	WDZ 1070 Tuscola, Ill., <i>CST.</i> 7 a.m.-4:30 p.m.
WASH 1270 Gd. Rapids, Mich., <i>EST.</i> 7 a.m.-mid.	WCAO 600 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	WEAF 880 New York City, <i>EST.</i> 6:45 a.m.-1 a.m. next day.
WAWZ 1350 Zarephath, N. J., <i>EST.</i> 7:45-8:45 a.m.	WCAP 1280 Asbury Park, N. J., <i>EST.</i> 9 a.m.-noon; 2-7:30 p.m.	WEAN 780 Providence, R. I., <i>EST.</i> 7:30 a.m.-1 a.m. next day.
WAZL 1420 Hazelton, Pa., <i>EST.</i> WBAA 1400 Lafayette, Ind., <i>CST.</i> Silent.	WCAT 1200 Rapid City, S. D., <i>CST.</i> 1:30-2:30 p.m.	WEAO 570 Columbus, Ohio, <i>EST.</i> 1 p.m.-mid.
WBAK 1430 Harrisburg, Pa., <i>EST.</i> 10:30-11:30 a.m.	WCAU 1170 Philadelphia, Pa., <i>EST.</i> 8 a.m.-1 a.m. next day.	WEBC 1290 Superior, Wis., <i>CST.</i> 7 a.m.-11 p.m.
WBAL 1090 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	WCAX 1200 Burlington, Vt., <i>EST.</i> Noon-1 p.m.	WEBQ 1210 Harrisburg, Ill., <i>CST.</i> 6-9 a.m.; noon-4 p.m.; 7:30-9 p.m.
WBAP 000 Ft. Worth, Texas, <i>CST.</i> 8:30-10:30 a.m.; 12:30-3 p.m.; 4:30-5:30 p.m.; 6-9 p.m.	WCAZ 1070 Carthage, Ill., <i>CST.</i> 1:30 p.m.-2 p.m.	WEBR 1310 Buffalo, N. Y., <i>EST.</i> 7 a.m.-2 a.m.
WBAX 1210 Wilkes Barre, Pa., <i>EST.</i> 7:30-noon; 6-11 p.m.	WCBA 1440 Allentown, Pa., <i>EST.</i> 7:30 a.m.-1 p.m.	WEDC 1210 Chicago, Ill. WEEI 590 Boston, Mass., <i>EST.</i> 6:45 a.m.-mid.
WBBC 1400 Brooklyn, N. Y., <i>EST.</i> 7 a.m.-11; 7:30 p.m.-9 p.m.	WCBD 1080 Zion, Ill., <i>CST.</i> 7:30-10:30 a.m.; 4 p.m.-4:45 p.m.	WEEU 830 Reading, Pa., <i>EST.</i> 8 a.m.-8 p.m.
WBBL 1210 Richmond, Va., <i>EST.</i> Silent.	WCBM 1370 Baltimore, Md., <i>EST.</i> 7 a.m.-1:30 p.m.; 5-11 p.m.	WEHC 1350 Emory, Va., <i>EST.</i> 6-8 a.m.; 11 a.m.-2 p.m.; 4-7 p.m.
WBBM 770 Chicago, Ill., <i>CST.</i> 6:45 a.m.-10 p.m.; 11:30 p.m.-2 a.m.	WCBS 1210 Springfield, Ill., <i>CST.</i> 11:15 a.m.-3 p.m.; 6:45-8:30 p.m.	WEHS 1420 Cicero, Ill., <i>CST.</i> 4-6 p.m.
	WCCO 610 Minneapolis, Minn. 6:45 a.m.-12:30 a.m., <i>CST.</i>	WELL 1420 Battle Creek, Mich. WENC 1420 Americus, Ga., <i>EST.</i> 7 a.m.-2 p.m.; 4 p.m.-sunset.
	WCDA 1350 New York City, <i>EST.</i> 6 p.m.-mid.	WEMR 870 Chicago, Ill., <i>CST.</i> 10:15-11:45 a.m.; 3:30-7 p.m.; mid-1:30 a.m.
	WCFL 970 Chicago, Ill., <i>CST.</i> 6 a.m.-mid.	WERE 1420 Erie, Pa., <i>EST.</i>
	WCUG 1400 Brooklyn, N. Y., <i>EST.</i> 3:45 p.m.-6; 10:30 p.m.-2 a.m.	
	WCKY 1490 Covington, Ky., <i>CST.</i> Mid.-mid.	

WESG

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WKBI

WESG 1040 Elmira, N. Y. Variable.	WHA 940 Madison, Wis., <i>CST.</i> 10 a.m.-2 p.m.	WINS 1180 New York City, <i>EST.</i> 7 a.m.-10:15 p.m.
WEVD 1300 New York City, <i>EST.</i> 8-9 a.m.; 10-noon; 3-9; 10-11 p.m.	WHAD 1120 Milwaukee, Wis., <i>CST.</i> 9:30-10:15 a.m.; 8:30-9:30 p.m.	WIOD 1300 Miami, Fla., <i>EST.</i> 7 a.m.-1 a.m. next day.
WEW 780 St. Louis, Mo., <i>CST.</i> 8 a.m.-11 a.m.	WHAM 1150 Rochester, N. Y., <i>EST.</i> 7:45 a.m.-1 a.m.	WIP 610 Philadelphia, Pa., <i>EST.</i> 9 a.m.-mid.
WEXL 1310 Royal Oak, Mich., <i>EST.</i> 8 a.m.-11 p.m.	WHAS 820 Louisville, Ky., <i>CST.</i> 7 a.m.-mid.	WIS 1010 Columbia, S. C., <i>EST.</i> 7 a.m.-2 p.m.; 5:30-11 p.m.
WFAA 800 Dallas, Texas, <i>CST.</i> 6:45-8:30 a.m.; 10:30-1; 3-5; 5:30-6; 9-11:30 p.m.	WHAT 1310 Philadelphia, Pa., <i>EST.</i> 9 a.m.-11:30; 1-4; 9-mid.	WISN 1120 Milwaukee, Wis., <i>CST.</i> 9:30 a.m.; 10:15 a.m.-8:30 p.m.; 9:30-mid.
WFAB 1300 New York City, <i>EST.</i> 9-10 a.m.; noon-3; 9-10; 11-mid.	WHAZ 1300 Troy, N. Y., <i>EST.</i> Silent.	WJAC 1310 Johnstown, Pa., <i>EST.</i> 8:30-10:30 a.m.; 4:30-6:15 p.m.; 9:15 p.m.-mid.
WFAM 1200 South Bend, Ind., <i>CST.</i> 7:30 a.m.-3 p.m.; 5:30-8 p.m.	WHB 880 Kansas City, Mo., <i>CST.</i> 6 a.m.-sunset.	WJAG 1060 Norfolk, Neb., <i>CST.</i> 6 a.m.-sunset.
WFAS 1210 White Plains, N. Y. 10 a.m.-noon; 3-5; 7-10 p.m.	WHBC 1290 Canton, Ohio, <i>EST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	WJAR 890 Providence, R. I., <i>EST.</i> 8 a.m.-mid.
WFBC 1200 Greenville, S. C. WFBE 1200 Cincinnati, Ohio, <i>EST.</i> 7 a.m.-11 p.m.	WHBD 1370 Mt. Orab, Ohio, <i>EST.</i> 7-11 a.m.; noon-5 p.m.; 6-9 p.m.	WJAS 1290 Pittsburgh, Pa., <i>EST.</i> 7:30 a.m.-11:30 p.m.
WFBG 1310 Altoona, Pa. 10:30 a.m.-2:30 p.m.; 6:15-9:15 p.m.	WHBF 1210 Rock Island, Ill., <i>CST.</i> 10 a.m.-4 p.m.; 5-mid.	WJAX 800 Jacksonville, Fla., <i>EST.</i> 7 a.m.-mid.
WFBL 1380 Syracuse, N. Y., <i>EST.</i> 7:30 a.m.-mid.	WHBL 1410 Sheboygan, Wis., <i>CST.</i> 7-10 a.m.; 12:30-3 p.m.; 6-8 p.m.	WJAY 610 Cleveland, Ohio, <i>EST.</i> 6 a.m.-sunset.
WFBM 1230 Indianapolis, Ind., <i>CST.</i> 7:30-10:15 a.m.; noon-3 p.m.; 5:30 p.m.-mid.	WHBQ 1370 Memphis, Tenn., <i>CST.</i> 7:55 a.m.-10:30 p.m.	WJBC 1290 LaSalle, Ill., <i>CST.</i> 8-9 a.m.; 1 p.m.-12:30 p.m.; 3:30-6:30 p.m.
WFBR 1270 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	WHBU 1210 Anderson, Ind., <i>CST.</i> 7 a.m.-1 p.m.; 3-9 p.m.	WJBI 1210 Red Bank, N. J., <i>EST.</i> 5 p.m.-7 p.m.
WFDF 1310 Flint, Mich., <i>EST.</i> 7 a.m.-11 p.m.	WHBY 1200 Green Bay, Wis., <i>CST.</i> 7 a.m.-10 p.m.	WJBK 1370 Detroit, Mich., <i>EST.</i> 7 a.m.-1 a.m.
WFDV 1500 Rome, Ga., <i>CST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	WHDF 1370 Calumet, Mich., <i>CST.</i> Silent till May 1	WJBL 1200 Decatur, Ill., <i>CST.</i> 6:30-8 a.m.; 9-10 p.m.; 12:30-3; 6:30-11 p.m.
WFEA 1430 Manchester, N. H., <i>EST.</i> 9 a.m.-11 p.m.	WHDH 830 Boston, Mass., <i>EST.</i> 8 a.m.-12:45 p.m.; 2:45-7:15.	WJBO 1420 New Orleans, La. WJBU 1210 Lewisburg, Pa., <i>EST.</i> Noon-6 p.m.
WFI 580 Philadelphia, Pa., <i>EST.</i> 6:45-9 a.m.; 9:45-11 a.m.; 1-2 p.m.; 3-4:30 p.m.; 6-mid.	WHDL 1420 Tupper Lake, N. Y., <i>EST.</i> 7:45 a.m.-1 p.m.; 3-7:45 p.m.	WJBW 1290 New Orleans, La., <i>CST.</i> 8 a.m.-noon; 4-8 p.m.
WFIW 940 Hopkinsville, Ky., <i>CST.</i> 6 a.m.-3 p.m.; 5 p.m.-mid.	WHEB 740 Portsmouth, N. H., <i>EST.</i> 10 a.m.-sunset.	WJBY 1210 Gadsden, Ala., <i>CST.</i> 6 a.m.-12:10 next day.
WFLA 620 Clearwater, Fla., <i>EST.</i> 7:15 a.m.-mid.	WHFC 1200 Cicero, Ill., <i>CST.</i> 7 a.m.-1:30 p.m.; 6 p.m.-1 a.m.	WJDX 1270 Jackson, Miss., <i>CST.</i> 6:15-10 a.m.; 11:30 a.m.-10 p.m.
WFOX 1400 Brooklyn, N. Y., <i>EST.</i> 1:30-3:45 p.m.; 9-10:30 p.m.	WHIS 1410 Bluefield, W. Va., <i>EST.</i> 8-9 a.m.; noon-2 p.m.; 6-8 p.m.	WJEF 1210 Hagerstown, Md. 7 a.m.-5 p.m.
WGAL 1310 Lancaster, Pa., <i>EST.</i> 10 a.m.-noon; 1:30-11 p.m.	WHK 1390 Cleveland, Ohio, <i>EST.</i> 7 a.m.-mid.	WJEQ 1370 Williamsport, Pa. WJJD 1130 Chicago, Ill., <i>CST.</i> 6 a.m.-8:30 p.m.
WGAR 1450 Cleveland, Ohio, <i>EST.</i> 6 a.m.-3 a.m.	WHN 1010 New York City, <i>EST.</i> 1:30 p.m.-4 p.m.	WJKS 1380 Gary, Ind., <i>CST.</i> 12:30-6:15 p.m.; 8-11 p.m.
WGBB 1210 Freeport, N. Y., <i>EST.</i> Silent.	WHO 1800 Des Moines, Iowa. WHOM 1450 Jersey City, N. J., <i>EST.</i> 8-10 a.m.; 3-6 p.m.; 9-mid.	WJMS 1420 Ironwood, Mich., <i>CST.</i> 7 a.m.-2:30 p.m.; 4:30 p.m.-sunset.
WGBF 630 Evansville, Ind., <i>CST.</i> 6:30 a.m.-3:30 p.m.; 4-7; 9-11:30 p.m.	WHP 1430 Harrisburg, Pa., <i>EST.</i> 8:30-10:30 a.m.; 11:30 a.m.-1 a.m.	WJR 750 Detroit, Mich., <i>EST.</i> 6:00 a.m.-1 a.m. next day.
WGBI 880 Scranton, Pa., <i>EST.</i> 9:30 a.m.-12:30 p.m.; 1:30-4:30 p.m.; 5:30-2 a.m.	WIAS 1310 Ottumwa, Iowa, <i>CST.</i> 7:30 a.m.-1:30 p.m.; 4-9 p.m.	WJSV 1480 Washington, D. C., <i>ETS.</i> 7:30 a.m.-1 a.m. next day.
WGCM 1210 Gulfport, Miss., <i>CST.</i> 8 a.m.-2 p.m.; 3-9 p.m.	WIBA 1280 Madison, Wis., <i>CST.</i> 6:30 a.m.-11:30 p.m.	WJTL 1370 Atlanta, Ga., <i>CST.</i> 6:45 a.m.-mid.
WGCP 1250 Newark, N. J., <i>EST.</i> Silent.	WIBG 930 Glenside, Pa., <i>EST.</i> Daybreak to sunset.	WJW 1210 Akron, Ohio, <i>EST.</i> 8 a.m.-10 p.m.
WGES 1350 Chicago, Ill., <i>CST.</i> 8 a.m.-12:30 p.m.; 6:15-8:30; 11 p.m.-2 a.m.	WIBM 1370 Jackson, Mich., <i>EST.</i> 7:30 a.m.-8:15 p.m.	WJZ 780 New York City, <i>EST.</i> 7:30 a.m.-1 a.m. next day.
WGH 1310 Newport News, Va. 7 a.m.-2 p.m.; 5-11 p.m., <i>EST.</i>	WIBO 580 Chicago, Ill., <i>CST.</i> 6:30 a.m.-mid.	WKAQ 1240 San Juan, P. R., <i>AST.</i> 2:30-4:30 p.m.; 7:30-10:30 p.m.
WGL 1370 Fort Wayne, Ind., <i>CST.</i> 6:15 a.m.-9:30 p.m.	WIBU 1210 Poynette, Wis., <i>CST.</i> 9 a.m.-9 p.m.	WKAR 1040 E. Lansing, Mich., <i>EST.</i> 11-11:45 a.m.
WGLC 1370 Hudson Falls, N. Y., <i>EST.</i> WGN 720 Chicago, Ill., <i>CST.</i> 7:30 a.m.-2 a.m.	WIBW 580 Topeka, Kans., <i>CST.</i> 6 a.m.-mid.	WKAV 1310 Lacombe, N. H., <i>EST.</i> 9 a.m.-1 p.m.; 3-8 p.m.
WGN 1210 Chester, N. Y., <i>EST.</i> WGR 550 Buffalo, N. Y., <i>EST.</i> 7:30 a.m.-mid.	WIBX 1200 Utica, N. Y. WICC 800 Bridgeport, Conn., <i>EST.</i> 7:30 a.m.-mid.	WKBB 1410 Birmingham, Ala. WKBF 1490 Indianapolis, Ind., <i>CST.</i> 6:30 a.m.-1:15 p.m.; 4:15-9; 11-mid.
WGST 890 Atlanta, Ga., <i>CST.</i> 7 a.m.-11 p.m.	WIL 1200 St. Louis, Mo., <i>CST.</i> 7 a.m.-mid.	WKBH 1380 LaCrosse, Wis., <i>CST.</i> 7:30 a.m.-10 p.m.
WGY 790 Schenectady, N. Y., <i>EST.</i> 6:45 a.m.-1 a.m. next day.	WILL 899 Urbana, Ill., <i>CST.</i> 10 a.m.-12:15 p.m.	WKBI 1420 Cicero, Ill., <i>CST.</i> 1:30-4 p.m.
	WILM 1420 Wilmington, Del., <i>EST.</i> 7:30 a.m.-10 p.m.; 4:30-10 p.m.	

WKBN 570 Youngstown, Ohio, <i>EST.</i> 7 a.m.-1 p.m.	WMBR 1370 Tampa, Fla., <i>EST.</i> 6:45 a.m.-10 p.m.	WOS 830 Jefferson City, Mo. 9 a.m.-1:10 p.m., <i>CST.</i>
WKBV 1500 Connersville, Ind., <i>CST.</i> 10 a.m.-noon; 6-10 p.m.	WMC 780 Memphis, Tenn., <i>CST.</i> 7 a.m.-11 p.m.	WOV 1130 New York City, <i>EST.</i> 8 a.m.-6 p.m.
WKBW 1430 Buffalo, N. Y., <i>EST.</i> 9:15 a.m.-1 a.m. next day.	WMCA 570 New York City, <i>EST.</i> 8-11 a.m.; noon-6 p.m.; 8:30 p.m.-2 a.m.	WOW 590 Omaha, Neb., <i>CST.</i> 6:15-10 a.m.; 10:45 a.m.-2:30 a.m.
WKBZ 1500 Ludington, Mich., <i>CST.</i> 9 a.m.-9:30 p.m.	WMIL 1500 Brooklyn, N. Y., <i>EST.</i> 3 p.m.-9 p.m.	WOWO 1180 Fort Wayne, Ind., <i>CST.</i> 7:30 a.m.-7:45 p.m.; 9:15 p.m.-mid.
WKEU 1500 LaGrange, Ga. 7 a.m.-2 p.m.; 4-9 p.m.	WMMN 890 Fairmont, W. Va., <i>EST.</i> 7 a.m.-9 p.m.	WPAD 1420 Paducah, Ky., <i>CST.</i> 7:30 a.m.; 11 a.m.-2 p.m.; 4-mid.
WKFI 1210 Greenville, Miss., <i>CST.</i> 7 a.m.-2 p.m.; 4-9 p.m.	WMPC 1500 Lapeer, Mich., <i>EST.</i> Silent.	WPAP 1010 New York City, <i>EST.</i> 4 p.m.-8 p.m.
WKJC 1200 Lancaster, Pa., <i>EST.</i> 11 a.m.-3 p.m.; 6-8 p.m.	WMSG 1350 New York City, <i>EST.</i> Noon-3 p.m.	WPAW 1210 Providence, R.I., <i>EST.</i> 9 a.m.-1:45 p.m.; 3 p.m.-mid.
WKRC 550 Cincinnati, Ohio, <i>EST.</i> 6:45 a.m.-mid.	WMT 900 Waterloo, Iowa, <i>CST.</i> 7 a.m.-11 p.m.	WPCC 580 Chicago, Ill. Silent.
WKY 900 Oklahoma City, Okla. 6:30 a.m.-mid., <i>CST.</i>	WNAC 1230 Boston, Mass., <i>EST.</i> 8 a.m.-1 a.m. next day.	WPCH 810 New York City, <i>EST.</i> 8 a.m.-sunet.
WKZO 590 Kalamazoo, Mich., <i>EST.</i> 6:30 a.m.-8:15 p.m.	WNAD 1010 Norman, Okla. Silent.	WPEN 1500 Philadelphia, Pa., <i>EST.</i> 7:30 a.m.-10:30 p.m.
WLAC 1470 Nashville, Tenn., <i>CST.</i> 7 a.m.-11 p.m.	WNAX 570 Yankton, S. D., <i>CST.</i> 6 a.m.-mid.	WPFB 1370 Hattiesburg, Miss., <i>CST.</i> 7 a.m.-2 p.m.; 6-11 p.m.
WLAP 1290 Louisville, Ky., <i>CST.</i> 6:30 a.m.-11 p.m.	WNBF 1500 Binghamton, N.Y., <i>EST.</i> 7 a.m.-10 p.m.	WPG 1100 Atlantic City, N.J., <i>EST.</i> 8:15 a.m.-6 p.m.; 8 p.m.-1 a.m.
WLB 1250 Minneapolis, Minn., 8 p.m.-9 p.m., <i>CST.</i>	WNBH 1310 New Bedford, Mass., 7 a.m.-6 p.m.	WPHR 1200 Petersburg, Va., <i>EST.</i> 9 a.m.-noon; 3-6 p.m.; 9 p.m.-mid.
WLBC 1310 Muncie, Ind., <i>CST.</i> 7 a.m.-6 p.m.	WNBZ 1290 Saranac Lake, N. Y. 1450 Newark, N. J., <i>EST.</i>	WPRO 1210 Providence, R. I., <i>EST.</i> 9 a.m.-1:45 p.m.; 3 p.m.-mid.
WLBK 1428 Kansas City, Kans. 7 a.m.-11 p.m., <i>CST.</i>	WNOB 1200 Washington, Pa., <i>EST.</i> 9 a.m.-noon; 3-6 p.m.; 9 p.m.-mid.	WPTF 890 Raleigh, N. C., <i>EST.</i> 6:45 a.m.-9:15 p.m.
WLBW 800 Stevens Point, Wis. 8 a.m.-3 p.m., <i>CST.</i>	WNBX 1260 Springfield, Vt., <i>EST.</i> 6 a.m.-sunet.	WQAM 560 Miami, Fla., <i>EST.</i> 7 a.m.-mid.
WLBZ 620 Bangor, Maine, <i>EST.</i> 8:30 a.m.-mid.	WNBZ 1290 Saranac Lake, N. Y. 1450 Newark, N. J., <i>EST.</i>	WQAN 890 Scranton, Pa., <i>EST.</i> 12:30-1:30 p.m.; 4:30-5:30 p.m.
WLEY 1370 Lexington, Mass., <i>EST.</i> Noon-3 p.m.; 6-9 p.m.	WNOX 580 Knoxville, Tenn., <i>CST.</i> 6:45 a.m.-11 p.m.	WQAO 1010 New York City, <i>EST.</i> Silent.
WLIT 900 Philadelphia, Pa., <i>EST.</i> 9-9:45 a.m.; 11 a.m.-1 p.m.; 2-3 p.m.; 4:30-6 p.m.	WNYC 570 New York City, <i>EST.</i> 11 a.m.-noon; 6-8:30 p.m.	WQBC 1390 Vicksburg, Miss., <i>CST.</i> 7:30 a.m.-2:30 p.m.; 5-11 p.m.
WLOE 1500 Boston, Mass., <i>EST.</i> 10 a.m.-1:30 p.m.; 4:30-9:30 p.m.	WOAI 1190 San Antonio, Tex., <i>CST.</i> 6:30-9:15 a.m.; 11:15-3 p.m.; 4:45-10:45 p.m.	WQDM 1370 St. Albans, Vt., <i>EST.</i> 8-9 a.m.; 11 a.m.-2 p.m.
WLS 870 Chicago, Ill., <i>CST.</i> 6-10:15 a.m.; 11:45 a.m.-3:30 p.m.; 7 p.m.-1 a.m.	WOAX 1290 Trenton, N. J., <i>EST.</i> Noon-2 p.m.; 7:30-mid.	WQDX 1210 Thomaston, Ga. 1370 Williamsport, Pa., <i>EST.</i>
WLTH 1400 Brooklyn, N. Y., <i>EST.</i> 11 a.m.-1:30 p.m.; 6-7:30 p.m.	WOBU 580 Charleston, W. Va., <i>EST.</i> 9 a.m.-noon; 2-4 p.m.; 8:30 p.m.-mid.	WRAM 1370 Wilmington, N. C., <i>EST.</i> 7:30 a.m.-3 p.m.; 6:30-11 p.m.
WLVA 1370 Lynchburg, Va., <i>EST.</i> 8 a.m.-11; 1-6 p.m.	WOC 1000 Davenport, Iowa, <i>CST.</i> 7 a.m.-11 p.m.	WRAW 1310 Reading, Pa., <i>EST.</i> 7:30-9:30 a.m.
WLW 700 Cincinnati, Ohio, <i>EST.</i> 6:30 a.m.-1 a.m. next day.	WOCL 1210 Jamestown, N. Y., <i>EST.</i> Noon-mid.	WRAX 1020 Philadelphia, Pa., <i>EST.</i> 7 a.m.-sunet.
WLWL 1100 New York City. 6-8 p.m., <i>EST.</i>	WODA 1250 Paterson, N. J. 1410 Mobile, Ala., <i>CST.</i>	WRBL 1200 Columbus, Ga., <i>CST.</i> 7 a.m.-9 p.m.
WMAC 570 Syracuse, N. Y. 7 a.m.-1 a.m. next day.	WODX 9 a.m.-4 p.m.; 9-11 p.m.	WRBX 1410 Roanoke, Va., <i>EST.</i> 9 a.m.-noon; 3-6 p.m.; 8 p.m.-1 a.m.
WMAL 630 Washington, D. C., <i>EST.</i> 8 a.m.-mid.	WOI 640 Ames, Iowa, <i>CST.</i> 6:30 a.m.-2:30 p.m.	WRC 950 Washington, D.C., <i>EST.</i> 6:45 a.m.-1 a.m. next day.
WMAQ 670 Chicago, Ill., <i>CST.</i> 7 a.m.-1 a.m. next day.	WOKO 1430 Albany, N. Y., <i>EST.</i> 9 a.m.-1 a.m. next day.	WRDO 1670 Augusta, Maine, <i>EST.</i> 7-9:30 a.m.; 10:30 a.m.-1:30 p.m.; 3:30-10 p.m.
WMAS 1420 Springfield, Mass., <i>EST.</i> 7:45 a.m.-mid.	WOL 910 Washington, D. C., <i>EST.</i> 7 a.m.-1 p.m.; 3-9 p.m.	WRDW 1500 Augusta, Ga., <i>EST.</i> 8 a.m.-2 p.m.; 5-11 p.m.
WMAZ 1190 Macon, Ga., <i>EST.</i> 7 a.m.-9:30 p.m.	WOMT 1210 Manitowoc, Wis., <i>CST.</i> 7 a.m.-9 p.m.	WREC 890 Memphis, Tenn. 1220 Lawrence, Kans., <i>CST.</i>
WMBC 1420 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid.	WOOD 1270 Gd. Rapids, Mich., <i>EST.</i> 7 a.m.-mid.	WRHM 1250 Minneapolis, Minn. 6:15-9:45 a.m.; 10:35 a.m.-1 a.m.
WMBD 1440 Peoria, Ill., <i>CST.</i> 6-9:30 a.m.; 1-2:30 p.m.; 8-mid.	WOPI 1500 Bristol, Tenn., <i>EST.</i> 7 a.m.-2 p.m.; 4-11 p.m.	WRIN 1370 Racine, Wis., <i>CST.</i> 8 a.m.-10:30 p.m.
WMBG 1210 Richmond, Va., <i>EST.</i> 7:30 a.m.-1:30 p.m.; 5-11 p.m.	WOQ 1300 Kansas City, Mo., <i>CST.</i> 6-7 a.m.; 8:35-9:05 a.m.; 11-11:30 a.m.; 2-3 p.m.; 10-11 p.m.	WRNY 1010 New York City. 1310 Knoxville, Tenn., <i>CST.</i>
WMBH 1420 Joplin, Mo., <i>CST.</i> Noon-2 p.m.; 6-7 p.m.	WOR 710 Newark, N. J., <i>EST.</i> 6:45 a.m.-mid.	WRR 1200 Dallas, Texas, <i>CST.</i> 6:30 a.m.-11 p.m.
WMBI 1080 Chicago, Ill., <i>CST.</i> 7-7:30 a.m.; 10:30-noon; 12:30-1:30; 2:30-4 p.m.	WORC 1200 Worcester, Mass., <i>EST.</i> 8 a.m.-mid.	WRUF 830 Gainesville, Fla., <i>EST.</i> 8 a.m.-8 p.m.
WMSO 1310 Auburn, N. Y., <i>EST.</i> 9 a.m.-9 p.m.	WORK 1000 York, Pa., <i>EST.</i> 7:55 a.m.-sunet.	
WMBQ 1500 Brooklyn, N. Y., <i>EST.</i> 9-11 a.m.		

WRVA 1110 Richmond, Va., <i>EST.</i> 7 a.m.-mid.	WTRC 1310 Elkhart, Ind., <i>CST.</i> 7:30 a.m.-7:30 p.m.	XETR 810 Mexico City, Mex. 890 Pachuca, Mex.
WSAI 1330 Cincinnati, Ohio, <i>EST.</i> 8 a.m.-11 p.m.	WWAE 1200 Hammond, Ind., <i>CST.</i> 7 a.m.-8:30; 11-1 p.m.; 4-11:30 p.m.	XETU 890 Mexico City, Mex. 1010 Veracruz, Mex., <i>CST.</i>
WSAJ 1310 Grove City, Pa. Silent.	WWJ 920 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid.	XEU 7-8 a.m.; 10-11 a.m.; noon-3 p.m.; 6-mid.
WSAN 1440 Allentown, Pa., <i>EST.</i> 5 p.m.-mid.	WWL 850 New Orleans, La., <i>CST.</i> 8 a.m.-8:30 p.m.	XEW 910 Mexico City, Mex., <i>CST.</i> 10 a.m.-mid.
WSAR 1450 Fall River, Mass., <i>EST.</i> 8 a.m.-3:30 p.m.; 5-10 p.m.	WWNC 570 Asheville, N. C., <i>CST.</i> 7 a.m.-mid.	XEX 1210 Mexico City, Mex. 548.0 Mexico, Mex.
WSAZ 580 Huntington, W. Va. <i>EST.</i>	WWRL 1500 Woodside, N. Y., <i>EST.</i> 8-9 a.m.; 11 a.m.-noon; 2-3 p.m.; mid.-3 a.m.	XFB 840 Jalapa, Mex. 005 Aguascalientes, Mex.
WSB 740 Atlanta, Ga., <i>CST.</i> 6:25 a.m.-11 p.m.	WWSW 1500 Pittsburgh, Pa., <i>EST.</i> 8 a.m.-1:30 p.m.; 3-mid.	XFG 638.3 Mexico City, Mex. 018.1 Mexico City, Mex.
WSBC 1210 Chicago, Ill., <i>CST.</i> 10-11:30 a.m.; 1:30-3:30; 5-6; 8-9; 11-mid.	WWVA 1180 Wheeling, W. Va., <i>EST.</i> 7:30 a.m.-mid.	XFI 840 Mexico City, Mex. 000 Mexico City, Mex.
WSBT 1230 South Bend, Ind., <i>CST.</i> 6-7:30 a.m.; 3-5:30 p.m.	WXYZ 1240 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid.	YVIBC 960 Caracas, Venez. 11 a.m.-1:30 p.m.; 5:45-10:30 p.m.
WSEN 1210 Columbus, Ohio, <i>EST.</i> 8 a.m.-11 p.m.	XEA 1000 Guadalajara, Mex., <i>CST.</i> 11 a.m.-noon; 2-3 p.m.; 5-11 p.m.	10-AB 1200 Moose Jaw, Sask., <i>MST.</i> 5:30-8:30 p.m.
WSFA 1410 Montgomery, Ala., <i>CST.</i> 6:30 a.m.-9 p.m.	XEAN 750 Juarez, Mex., <i>MST.</i> 9 a.m.-2 p.m.; 5-11 p.m.	10-AK 1200 Stratford, Ont., <i>EST.</i> 6-8 p.m.
WSIX 1210 Springfield, Tenn., <i>CST.</i> 6 a.m.-3 p.m.; 6-9 p.m.	XEAW 965 Reynosa, Mex. 1030 Mexico City, Mex., <i>CST.</i>	10AT 1158 Trail, B. C., <i>PST.</i> 9 a.m.-2 p.m.; 5-10 p.m.
WSJS 1310 Winston-Salem, N. C. 8 a.m.-mid., <i>EST.</i>	XEC 1000 Toluca, Mex. 1155 Guadalajara, Mex.	10-BI 1200 Prince Albert, Sask. Noon-1 p.m.; 6-8 p.m.; 10-mid.
WSM 850 Nashville, Tenn., <i>CST.</i> 7 a.m.-mid.	XED 735 Villa Acuna, Mex. 24 hours daily.	10-BP 1199 Wingham, Ont., <i>EST.</i> 9:30-11 p.m.
WSMB 1320 New Orleans, La., <i>CST.</i> 7 a.m.-mid.	XEFA 1250 Mexico City, Mex. 1315 Monterrey, Mex., <i>CST.</i>	10-BQ 1200 Brantford, Ont., <i>EST.</i> 6-7 p.m.
WSMK 1380 Dayton, Ohio, <i>EST.</i> 7 a.m.-8 p.m.; 10 p.m.-mid.	XEFB 11 a.m.-2 p.m.; 6-10 p.m.	10-BU 1200 Canora, Sask.
WSOC 1210 Gastonia, N. C., <i>EST.</i> 8 a.m.-10 p.m.	XEFC 1050 Merida, Mex. 1020 Tijuana, Mex.	
WSPA 1420 Spartanburg, S. C., <i>EST.</i> 7:30 a.m.-11 p.m.	XEFE 1000 Laredo, Mex. 1380 Mexico City, Mex.	
WSPD 1340 Toledo, Ohio, <i>EST.</i> 7:30 a.m.-mid.	XEFH 1000 Chihuahua, Mex. 1000 Monterrey, Mex.	
WSUI 880 Iowa City, Iowa, <i>CST.</i> 9-10 a.m.; 6-7 p.m.	XEFI 840 Mexico City, Mex., <i>CST.</i> 2-3 p.m.; 7-11 p.m.	
WSUN 820 St. Petersburg, Fla., <i>EST.</i> 7:15 a.m.-mid.	XEFO 1000 Queretaro, Mex., <i>CST.</i> 7-11:30 p.m.	
WSVS 1370 Buffalo, N. Y., <i>EST.</i> 8:30 a.m.-10 a.m.; 2-3 p.m.	XEFV 1370 Juarez, Mex. 1240 Tampico, Mex.	
WSYB 1500 Rutland, Vt., <i>EST.</i> 10 a.m.-1 p.m.; 5-9 p.m.	XEFW 1500 Cozacan, Mex., <i>CST.</i> 8-11 p.m.	
WSYR 570 Syracuse, N. Y., <i>EST.</i> 7 a.m.-3 p.m.; 4-11 p.m.	XEG 1075 Mexico City, Mex. 1132 Monterrey, Mex., <i>CST.</i>	
WTAD 1440 Quincy, Ill., <i>CST.</i> 9:30 a.m.-1 p.m.; 2:30-8 p.m.	XEH 9 a.m.-1:30 p.m.; 6-10 p.m.	
WTAG 580 Worcester, Mass., <i>EST.</i> 8 a.m.-11:15 p.m.	XEI 1310 Morelia, Mex., <i>CST.</i> 2-3:30 p.m.; 8:30-10:30 p.m.	
WTAM 1070 Cleveland, Ohio, <i>EST.</i> 6:30 a.m.-1 a.m. next day.	XEJ 1000 Juarez, Mex., <i>CST.</i> 11 a.m.-4 p.m.; 6-11 p.m.	
WTAQ 1330 Eau Claire, Wis., <i>CST.</i> 7 a.m.-8 p.m.	XEK 990 Mexico City, Mex. 1000 Saltillo, Mex., <i>CST.</i>	
WTAR 780 Norfolk, Va., <i>EST.</i> 7 a.m.-mid.	XEL 11 a.m.-1 p.m.; 6-9 p.m.	
WTAW 1120 College Station, Texas. Silent.	XEN 711 Mexico City, <i>CST.</i> 10 a.m.-noon; 2-4 p.m.; 7-mid.	
WTAX 1210 Springfield, Ill., <i>CST.</i> 7 a.m.-11:15; 3-6:45; 8:30-mid.	XENT 1115 Nuevo Laredo, Mex. 780 Mexico City, Mex.	
WTBO 1420 Cumberland, Md., <i>EST.</i> 7 a.m.-1:30 p.m.; 2:30-8 p.m.	XEPN 585 Piedras Negras, Mex. 735 Villa Acuna, Mex.	
WTEL 1310 Philadelphia, Pa., <i>EST.</i> 7-9 a.m.; 11-1 p.m.; 4-9 p.m.	XER 24 hours daily.	
WTFI 1450 Athens, Ga., <i>EST.</i> 8 a.m.-4 p.m.; 6-10 p.m.	XES 1055 Tampico, Mex., <i>CST.</i> 9-10:30 a.m.; noon-2 p.m.; 5-6; 6:30-10 p.m.	
WTIC 1080 Hartford, Conn., <i>EST.</i> 7 a.m.-4 p.m.	XET 690 Monterrey, Mex., <i>CST.</i> 9 a.m.-2 p.m.; 6-10 p.m.	
WTJS 1310 Jackson, Tenn., <i>CST.</i> 7 a.m.-1 p.m.; 3-10:30 p.m.	XETA 1140 Mexico City, Mex. 1380 Torreon, Mex.	
WTMJ 820 Milwaukee, Wis., <i>CST.</i> 6:45 a.m.-12:30 a.m.	XYTC 1000 Jalapa, Mex. 1030 Veracruz, Mex., <i>CST.</i>	
WTOC 1260 Savannah, Ga., <i>EST.</i> 7 a.m.-mid.	XETH 840 Puebla, Mex. 845 Matamoros, Mex.	

ADDITIONAL DX CALENDAR

Friday Night, Mar. 3rd
3:00-9:00 KPPC, 1210
Pasadena, Calif.

Saturday Night, Feb. 25
4:00-6:00 KIEV, 850
Glendale, Calif.

Sunday Night, Feb. 26
12:00-2:00 EARA, 1071
Canary Islands

"How to Build a Filtering Device" and conquer power-line noises will be the subject of the Technical Editor's article in the April RADEX. This problem is the basis of more inquiries from our readers than any other. Don't miss Mr. Dashiell's next article.

POLICE BROADCASTING STATIONS

By Cities

Call	Megs.	Mtr	City
WPDO	2.458	121.97	Akron, Ohio.
WPED	1.712	175.13	Arlington, Mass.
WPDY	2.414	124.20	Atlanta, Ga.
WPDN	2.458	121.97	Auburn, N. Y.
KGPS	2.414	124.20	Bakersfield, Calif.
WPEQ	1.570	191.08	Baton Rouge, La.
KGPI	1.712	175.13	Beaumont, Texas
KSW	2.422	123.79	Berkeley, Calif.
WEY	1.558	192.43	Boston, Mass.
WPEJ	1.712	175.13	Brookline, Mass.
WPEE	2.450	122.40	Brooklyn, N. Y.
WRDU	1.596	187.85	Brooklyn, N. Y.
WPEF	2.450	122.40	Bronx, N. Y.
WMJ	2.422	123.79	Buffalo, N. Y.
KGZG	2.470	121.40	Cedar Rapids, Iowa
KGZF	2.450	122.40	Chanute, Kans.
WPDV	2.458	121.97	Charlotte, N. C.
WPEY	2.470	121.40	Chattanooga, Tenn.
WPDB	1.712	175.13	Chicago, Ill.
WPDC	1.712	175.13	Chicago, Ill.
WPDD	1.712	175.13	Chicago, Ill.
WKDU	1.712	175.13	Cincinnati, Ohio
WRDH	2.458	121.97	Cleveland, Ohio
WPDJ	2.430	123.45	Columbus, Ohio
KVP	1.712	175.13	Dallas, Texas
KGPN	2.470	121.40	Davenport, Iowa
WPDH	2.430	123.45	Dayton, Ohio
KGFX	2.442	122.77	Denver, Colo.
KGZG	2.470	121.40	Des Moines, Iowa
WCK	2.414	124.20	Detroit, Mich.
WKDT	1.596	187.85	Detroit, Mich.
WPDJ	2.414	124.20	Detroit, Mich.
WRDS	1.574	190.48	East Lansing, Mich.
WPDF	2.442	122.77	Flint, Mich.
WPDZ	2.470	121.40	Fort Wayne, Ind.
KGPR	1.712	175.13	Fort Worth, Texas
WMP	1.574	190.48	Framingham, Mass.
KGZA	2.414	124.20	Fresno, Calif.
WPEB	2.442	122.77	Grand Rapids, Mich.
WRDR	2.414	124.20	Grosse Pt., Mich.
WMO	2.414	124.20	Highland Park, Mich.
KGPO	2.450	122.40	Honolulu, Hawaii
KGZB	1.712	175.13	Houston, Texas
WMDZ	2.442	122.77	Indianapolis, Ind.
KGPE	2.422	123.79	Kansas City, Mo.
KGZH	2.442	122.77	Klamath Falls, Ore.
WPDJ	2.470	121.40	Kokomo, Ind.

By Call Letters

Call	Megs.	Mtr	City
KGJX	1.712	175.13	Pasadena, Calif.
KGZD	2.470	121.40	Cedar Rapids, Iowa
KGPA	2.414	124.20	Seattle, Wash.
KGPS	2.416	124.09	Minneapolis, Minn.
KGPC	1.712	175.13	St. Louis, Mo.
KGPD	1.558	192.43	San Francisco, Calif.
KGPD	2.470	121.40	San Francisco, Calif.
KGPE	2.422	123.79	Kansas City, Mo.
KGPG	2.422	123.79	Vallejo, Calif.
KGPH	2.450	122.40	Oklahoma City, Okla.
KGPI	2.470	121.40	Omaha, Neb.
KGPI	1.712	175.13	Beaumont, Texas
KGPK	2.470	121.40	Sioux City, Iowa
KGPL	1.712	175.13	Los Angeles, Calif.
KGPM	2.470	121.40	San Jose, Calif.
KGPN	2.470	121.40	Davenport, Iowa
KGPO	2.450	122.40	Tulsa, Okla.
KGPP	2.442	122.77	Portland, Ore.
KGPO	2.450	122.40	Honolulu, Hawaii
KGPR	1.712	175.13	Fort Worth, Texas
KGPS	2.414	124.20	Bakersfield, Calif.
KGFW	2.470	121.40	Salt Lake City, Utah
KGFX	2.442	122.77	Denver, Colo.
KGFY	1.574	190.48	Shreveport, La.
KGZD	2.450	122.40	Wichita, Kans.
KGZA	2.414	124.20	Fresno, Calif.
KGZB	1.712	175.13	Houston, Texas
KGZC	2.422	123.79	Topeka, Kans.

Call	Megs.	Mtr	City
WPDJ	2.442	122.77	Lansing, Mich.
WPET	1.712	175.13	Lexington, Ky.
KGPL	1.712	175.13	Los Angeles, Calif.
WPEE	2.442	122.77	Louisville, Ky.
WPEC	2.470	121.40	Memphis, Tenn.
WPEL	1.570	191.08	Middleboro, Mass.
WPKD	2.450	122.40	Milwaukee, Wis.
KGPH	2.416	124.09	Minneapolis, Minn.
WFFA	1.712	175.13	Newton, Mass.
WPEK	2.430	123.45	New Orleans, La.
WCF	1.596	187.85	New York, N. Y.
WPEG	2.450	122.40	New York, N. Y.
WPEW	1.570	191.08	Northampton, Mass.
KGPH	2.450	122.40	Oklahoma City, Okla.
KGPI	2.470	121.40	Omaha, Neb.
KGJX	1.712	175.13	Pasadena, Calif.
WPDJ	2.414	124.20	Passaic, N. J.
WPDJ	2.470	121.40	Philadelphia, Pa.
WPDJ	1.712	175.13	Pittsburgh, Pa.
KGPP	2.442	122.77	Portland, Ore.
WPEI	1.712	175.13	Providence, R.I.
WPDH	2.442	122.77	Richmond, Ind.
WPDH	2.458	121.97	Rochester, N. Y.
WPEF	2.442	122.77	Saginaw, Mich.
KGPC	1.712	175.13	St. Louis, Mo.
WPDH	2.146	124.09	St. Paul, Minn.
KGFW	2.470	121.40	Salt Lake City
KGZE	2.506	119.64	San Antonio, Texas
KGZD	2.430	123.45	San Diego, Calif.
KGPD	1.558	192.43	San Francisco, Calif.
KGPD	2.470	121.40	San Francisco, Calif.
KGPM	2.470	121.40	San Jose, Calif.
KGPA	2.414	124.20	Seattle, Wash.
KGPI	1.574	190.48	Shreveport, La.
KGPK	2.470	121.40	Sioux City, Iowa
WPEH	1.712	175.13	Somerville, Mass.
WPEA	2.458	121.97	Syracuse, N. Y.
WRDQ	2.470	121.40	Toledo, Ohio
KGZC	2.422	123.79	Topeka, Kans.
WPDJ	2.414	124.20	Tulsa, Okla.
KGPO	2.450	122.40	Tulsa, Okla.
KGPG	2.422	123.79	Vallejo, Calif.
WPDW	2.422	123.79	Washington, D. C.
KGPI	2.450	122.40	Wichita, Kans.
KGZI	1.712	175.13	Wichita Falls, Texas
WPEM	2.470	121.40	Woonsocket, R. I.

Call	Megs.	Mtr	City
WPDH	2.430	123.45	Dayton, Ohio
WPDH	2.458	121.97	Auburn, N. Y.
WPDH	2.458	121.97	Akron, Ohio
WPDH	2.470	121.40	Philadelphia, Pa.
WPDH	2.458	121.97	Rochester, N. Y.
WPDH	2.416	124.09	St. Paul, Minn.
WPDH	2.470	121.40	Kokomo, Ind.
WPDH	1.712	175.13	Pittsburgh, Pa.
WPDH	2.458	121.97	Charlotte, N. C.
WPDH	2.422	123.79	Washington, D. C.
WPDH	2.414	124.20	Detroit, Mich.
WPDH	2.414	124.20	Atlanta, Ga.
WPDH	2.470	121.40	Fort Wayne, Ind.
WPEA	2.458	121.97	Syracuse, N. Y.
WPEB	2.442	122.77	Grand Rapids, Mich.
WPEC	2.470	121.40	Memphis, Tenn.
WPEE	1.712	175.13	Arlington, Mass.
WPEE	2.450	122.40	Brooklyn, N. Y.
WPEF	2.450	122.40	Bronx, N. Y.

By Frequencies

BY FREQUENCIES

Call	Megs.	Mtr	City
1.558	megs.	192.43	motors
KGPD	San Francisco, Calif.		
WEY	Boston, Mass.		
1.570	megs.	191.08	motors
WPEL	Middleboro, Mass.		
WPEQ	Baton Rouge, La.		
WPEW	Northampton, Mass.		
1.574	megs.	190.48	motors
KGPI	Shreveport, La.		
WMP	Framingham, Mass.		
WRDS	E. Lansing, Mich.		
1.596	megs.	187.85	motors
WCF	New York, N. Y.		
WKDT	Detroit, Mich.		
WRDU	Brooklyn, N. Y.		
1.712	megs.	175.13	motors
KGJX	Pasadena, Calif.		
KGPC	St. Louis, Mo.		
KGPI	Beaumont, Texas		
KGPL	Los Angeles, Calif.		
KGPR	Fort Worth, Texas		
KGZB	Houston, Texas		
KGZI	Wichita Falls, Texas		
KVP	Dallas, Texas		
WKDU	Cincinnati, Ohio		
WPDB	Chicago, Ill.		
WPDC	Chicago, Ill.		
WPDD	Chicago, Ill.		
WPDJ	Pittsburgh, Pa.		
WPEE	Arlington, Mass.		
WPEH	Somerville, Mass.		
WPEI	Providence, R. I.		
WPEJ	Brookline, Mass.		
WPET	Lexington, Ky.		
EPFA	Newton, Mass.		

2.414 megs. 124.20 meters

Call	Megs.	Mtr	City
KGPA	Seattle, Wash.		
KGPS	Bakersfield, Calif.		
KGZA	Fresno, Calif.		
WCK	Detroit, Mich.		
WMO	Highland Park, Mich.		
WPDJ	Passaic, N. J.		
WPOX	Detroit, Mich.		
WPDY	Atlanta, Ga.		
WRDR	Grosse Pointe, Mich.		
2.416	megs.	124.09	motors
KGFB	Minneapolis, Minn.		
WPDH	St. Paul, Minn.		
2.422	megs.	123.79	motors
KGPE	Kansas City, Mo.		
KGPG	Vallejo, Calif.		
KGZC	Topeka, Kans.		
KSW	Berkeley, Calif.		
WMJ	Buffalo, N. Y.		
WPDW	Washington, D. C.		
2.430	megs.	123.45	motors
KGZO	San Diego, Calif.		
WPDJ	Columbus, Ohio		
WPDH	Dayton, Ohio		
WPEK	New Orleans, La.		
2.442	megs.	122.77	motors
KGPP	Portland, Ore.		
KGFX	Denver, Colo.		
KGZH	Klamath Falls, Ore.		
WMDZ	Indianapolis, Ind.		
WPEE	Louisville, Ky.		
WPDF	Flint, Mich.		
WPDH	Richmond, Ind.		
WPDH	Lansing, Mich.		
WPEB	Grand Rapids, Mich.		
WPEF	Saginaw, Mich.		

2.450 megs. 122.40 meters

Call	Megs.	Mtr	City
KGPH	Oklahoma City, Okla.		
KGPO	Tulsa, Okla.		
KGPO	Honolulu, Hawaii		
KGZG	Wichita, Kans.		
KGZF	Chanute, Kans.		
WPKD	Milwaukee, Wis.		
WPEE	Brooklyn, N. Y.		
WPEF	Bronx, N. Y.		
WPEG	New York, N. Y.		
2.458	megs.	121.97	motors
WPDH	Auburn, N. Y.		
WPDH	Akron, Ohio		
WPDH	Rochester, N. Y.		
WPDV	Charlotte, N. C.		
WPEA	Syracuse, N. Y.		
WRDH	Cleveland, Ohio		
2.470	megs.	121.40	motors
KGZG	Cedar Rapids, Iowa		
KGPD	San Francisco, Calif.		
KGPI	Omaha, Neb.		
KGPK	Sioux City, Iowa		
KGPM	San Jose, Calif.		
KGPN	Davenport, Iowa		
KGFW	Salt Lake City, Utah		
KGZG	Des Moines, Iowa		
WPDH	Philadelphia, Pa.		
WPDJ	Kokomo, Ind.		
WPDZ	Fort Wayne, Ind.		
WPEC	Memphis, Tenn.		
WPEM	Woonsocket, R. I.		
WPEY	Chattanooga, Tenn.		
WRDQ	Toledo, Ohio		
2.506	megs.	119.64	motors
KGZE	San Antonio, Texas		

Time on the Air of European Broadcasters

IN THE January issue we gave a quite complete list of the European broadcasting stations arranged by frequencies. In this number we are presenting, through the courtesy of E. H. Bullard, Drummondville, Quebec, and Earl R. Roberts of Cambridge, Ohio, members of the Atlantic Radio Club, an abridged list of the principal broadcasters of Europe with their time on the air. This time has been converted into Eastern Standard.

The stations on this list will consti-

tute excellent targets for the coming month but it must be remembered that European stations are the "thousand-to-one-shots" on radio. The reception must necessarily be daylight as London time is five hours in advance of Eastern and most of the channels are pretty well loaded with stations in North America. We hope, however, that notwithstanding these inherent difficulties of European reception, some of our readers may be able to increase their logs with the following list.

Keys.	City	Country	POWER	Sunday		Week Days	
				A.M.	P.M.	A.M.	P.M.
563	Munich	Germany	60,000	4:00	4:45	12:45	6:00
581	Vienna	Austria	15,000	1:35	6:00	3:20	5:00
590	Brussels	Belgium	15,000	7:00	6:00	As Sunday	
599	Florence	Italy	20,000	3:45	5:30	As Sunday	
614	Prague	Czechoslovakia	120,000	12:15	5:30	As Sunday	
625	Manchester	England	50,000	7:30	5:00	5:15	6:30
635	Langenberg	Germany	60,000	1:00	6:00	As Sunday	
644	Lyons	France	1,500	3:00	5:30	As Sunday	
653	Beromunster	Switzerland	60,000	4:00	6:00	6:30	5:00
680	Rome	Italy	50,000	4:15	5:00	2:15	5:00
689	Stockholm	Sweden	55,000	4:00	5:00	1:20	5:00
697	Belgrade	Yugoslavia	2,800	5:00	5:00	As Sunday	
707	Madrid	Spain	2,000	5 P.m.-7 p.m., daily ex. Monday			
715	Berlin	Germany	1,500	12:15	6:30	As Sunday	
725	Dublin	Ireland	1,200	3:30	6:00	8:30	5:30
734	Katowice	Poland	16,000	4:00	5:30	As Sunday	
743	Sottens	Switzerland	25,000	3:30	4:15	6:30	4:15
752	Midland Regional	England	25,000	7:30	5:30	5:15	6:30
761	Bucharest	Rumania	12,000	4:15	4:00	6:00	4:00
770	Leipzig	Germany	150,000	12:15	6:00	As Sunday	
779	Toulouse	France	8,000	7:15	7:00	As Sunday	
797	Scottish Regional	Scotland	50,000	7:30	5:30	5:15	6:30
806	Hamburg	Germany	1,500	12:30	5:30	12:01	5:30
815	Helsinki	Finland	10,000	1:40	3:00	5:00	3:00
825	Algiers	North Africa	13,000	6:30	6:00	7:00	6:00
832	Stuttgart	Germany	60,000	12:01	6:00	As Sunday	
843	London	England	50,000	7:30	6:00	5:15	7:00
852	Gres	Austria	7,000	1:35	6:00	3:20	5:00
860	Barcelona	Spain	8,000	2:15	5:00	2:15	6:30
869	Strasbourg	France	11,500	5:45	7:00	5:15	7:00
878	Brno	Czechoslovakia	35,000	1:30	5:30	As Sunday	
887	Brussels	Belgium	15,000	7:00	6:00	As Sunday	
905	Milan	Italy	60,000	3:40	5:00	2:15	5:00
914	Paris	France	60,000	5:00	6:00	7:00	6:00
923	Breslau	Germany	60,000	12:30	6:00	12:15	5:00
932	Goteborg	Sweden	10,000	4:00	5:00	1:30	5:00
941	Naples	Italy	1,500	4:15	5:00	2:15	5:00
959	Genoa	Italy	10,000	3:40	5:00	2:15	5:00
986	Bordeaux	France	13,000	7:00	4:00	As Sunday	
995	Manchester	England	50,000	5:30	5:30	5:15	7:00
1013	Hilversum	Holland	20,000	3:15	6:45	2:45	6:45
1031	Viipuri	Finland	13,200	1:40	3:00	5:00	3:00
1040	Scottish National	Scotland	50,000	5:30	5:30	5:15	7:00
1076	Bratislava	Czechoslovakia	14,000	1:30	5:30	4:00	5:30
1085	Helsinki	Germany	80,000	12:30	6:00	12:01	5:00
1096	Turin	Italy	7,000	3:40	5:00	2:15	5:00
1112	Bari	Italy	20,000	4:25	5:00	7:00	3:00
1137	Moravská-Ostrava	Czechoslovakia	11,000	12:01	5:30	12:15	5:30
1147	London	England	50,000	5:30	5:30	5:15	7:00
1157	Frankfurt-am-main	Germany	17,000	12:35	6:00	12:01	6:00
1166	Horby	Sweden	10,000	4:00	5:00	1:30	5:00
1184	Gelwits	Germany	5,000	12:30	6:00	As Sunday	
1211	Trieste	Italy	10,000	3:40	5:00	2:15	5:00
1256	Nurnberg	Germany	2,000	4:00	4:45	12:45	6:00
1337	Cork	Ireland	1,000	3:35	6:00	8:00	5:30
1345	Fe Camp	France	10,000	7:00	10:00	As Sunday	

With the SHORT WAVES on SUNDAY

Arranged by FRANK E. SWITALSKI
(Time in Eastern Standard)

AM		7.00-8.00		8.00-9.00		9.00-10.00		10.00-11.00		10.30-11.00	
12.01-2.00	PK3AN	Surabaya, Java	54.00	7.00-8.00	ZPG	Kuala Lumpur, Malay	50.00				
1.00-3.00	VK2ME	Sydney, Australia	31.28		PK3AN	Surabaya, Java	54.00				
3.00-5.00		Johannesburg, S. A.	43.50	7.30-8.00	VK2ME	Sydney, Australia	31.28				
4.40-5.00	PK3AN	Surabaya, Java	54.00	8.00-9.00	CNR	Rabat, Morocco	23.38				
5.00-5.30	HVJ	Vatican City, Italy	50.28		VK2ME	Sydney, Australia	31.28				
5.00-6.00	PK3AN	Surabaya, Java	54.00			Pontoise, France	19.68				
	JB	Johannesburg, S. A.	49.20		DIH	Nauen, Germany	15.03				
	VK2ME	Sydney, Australia	31.28		ZPG	Kuala Lumpur, Malay	50.00				
	RV59	Moscow, U. S. S. R.	50.00	9.00-10.00	CNR	Rabat, Morocco	23.38				
6.00-7.00	PK3AN	Surabaya, Java	54.00	10.00-11.00		Pontoise, France	19.68				
	JB	Johannesburg, S. A.	49.20			Johannesburg, S. A.	43.50				
	VK2ME	Sydney, Australia	31.28	10.30-11.00	CT3AQ	Funchal, Madeira Is.	26.83				

11.00 Noon	T14NRH	Heredia, C. R.	19.90								
	VQ7LO	Nairobi, Kenya	49.48								
	VE9CI	London, Canada	109.62								
	CT3AQ	Johannesburg, S. A.	43.50								
		Funchal, Madeira Is.	26.83								
11.30 Noon		Pontoise, France	25.20								
Noon 1-00		Pontoise, France	25.20								
	VE9CS	Vancouver, B. C.	49.42								
	VQ7LO	Nairobi, Kenya	49.48								
	VE9CI	London, Canada	109.62								
1.00-2.00	REN	Moscow, U. S. S. R.	45.38								
	VE9GW	Bowmanville, Ont.	49.22								
	VE9CS	Vancouver, B. C.	49.42								
	VQ7LO	Nairobi, Kenya	49.48								
	VE9CI	London, Canada	109.62								
	FIUI	Tananarive, Madag.	52.70								
2.00-2.30		Pontoise, France	25.20								
2.00-3.00	OXY	Skamlebar, Denmark	31.51								
	REN	Moscow, U. S. S. R.	45.38								
	VE9GW	Bowmanville, Ont.	49.22								
	VE9CS	Vancouver, B. C.	49.42								
	VQ7LO	Nairobi, Kenya	49.48								
	FIUI	Tananarive, Madag.	52.70								
2.30-3.00	I2RO	Rome, Italy	25.40								
3.00-3.30	VQ7LO	Nairobi, Kenya	49.48								
3.00-4.00	OXY	Skamlebar, Denmark	31.51								
		Rabat, Morocco	32.32								
	REN	Moscow, U. S. S. R.	45.38								
	VE9GW	Bowmanville, Ont.	49.22								
	VE9CS	Vancouver, B. C.	49.42								
	I2RO	Rome, Italy	25.40								
	PCM	Hague, Holland	46.69								
4.00-5.00		Pontoise, France	25.60								
	OXY	Skamlebar, Denmark	31.51								

One Hundred Best Short Wave Stations By Frequencies and Wave Lengths

Submitted by our readers as being most regularly received. Times are given in Eastern Standard. First column gives frequency in megacycles (for kilocycles read the decimal point as a comma) and the second column, wave-lengths in meters.

For complete lists of short-wave stations see the following issues of this magazine:

September: Foreign stations arranged by countries.

October: Complete list by frequencies and waves.

November: American stations by states.

December: Canadian stations by provinces and Complete list by call letters.

Broadcast B. Phone P.

3.998	75.00	HCJB Quito, Ecuador, 7:30-9:45 a.m.	B	6.060	49.48	W8XAL Cincinnati, O. Relays WLW 6-10; 30 a.m.; 1:30-3:30 p.m.; 7 p.m.-1:30 a.m. B	
4.174	71.82	British Ships	P	6.070	49.39	VE9CS Vancouver, B. C., Fri. 12:30-1:45 a.m.; noon to mid.	B
4.273	70.65	RV15 Khabarovsk, USSR 3 a.m.-9 a.m.	B	6.076	49.34	W9XAA Chicago, Ill., Sun. 11 a.m.-9 p.m. B	
4.283	70.00	Italian Ships	P	6.090	49.23	VE9BJ St. John, N. B., 5 p.m. and 11 p.m. B	
4.792	62.56	VE9BY London, Ontario, Sat. midn.-1 a.m.	B				
4.975	80.27	GBC Rugby, England. Phoneships irregularly	P	6.095	49.18	W9XF Chicago, Ill., 4:30-8 p.m.; 9:30 p.m.-2 a.m. B	
5.045	59.42	VRT-ZFA Hamilton, Bermuda. Phones WNB-GMBJ nights	B	6.096	49.17	W3XAL Boundbrook, N. J., Sat. 4:30 p.m.-1 a.m. B	
5.144	58.33	DIQ Nauen, Germany	P	6.119	49.00	YV1BC Caracas, Venez. Relays 960 kos. 10:30 a.m.-1 p.m.; 5:15-10 p.m. B	
5.766	52.00	XAM Merida, Yucatan. Tests XDA 10 a.m. 8 p.m. irreg.	P	6.125	48.95	YV1BMO Maracaibo, Venez., 8-11 p.m. B	
5.879	51.00	XDA Mexico City. Tests XAM 10 a.m. 8 p.m. irreg.	P	6.140	48.83	W8XK Pittsburgh, Pa. Relays KDKA 4-11 p.m. B	
5.925	50.60	HKO Medellin, Colombia, Tues.-Thur.-Sat. 8-10 p.m.-Sun. 6-8 p.m.	B	6.335	47.35	VE9AP Drummondville, Que. B	
5.968	50.26	HVJ Vatican City, 2-2:15 p.m.; Sun. 5-5:30 a.m.	B	6.386	46.96	W3XL Boundbrook, N. J. Experimental B	
5.996	50.00	HKD Barranquilla, Col., 8-10 p.m.	B	6.426	46.65	VE9BY London, Ontario, Wed. 8:30-9:30 p.m.; Fri. 7-8 p.m.; Sat. 8-11 p.m. B	
6.005	49.93	VE9DR Drummondville, Que., 7 p.m.-mid.	B	6.611	45.35	TGW Guatemala City, Tues.-Thur.-Fri. 10:30 p.m.-mid. B	
6.036	49.67	W4XB Miami, Fla. Reported 5-11 p.m.	B	6.618	45.31	PRADO Riobamba, Ecuador, Thur. 9-11 p.m. B	
6.050	49.56	GSA Davenport, England. To Canada 8-10 p.m.	B	6.648	45.10	IAC Coltano, Italy. Testing Irregularly P	
6.057	49.50	CMCI Havana, Cuba, 9-11 p.m.	B	6.675	44.91	DGK Nauen, Germany. Heard 9 p.m. with WEJ P	
6.060	49.48	VQ7LO Nairobi, Kenya, 11 a.m.-3:30 p.m.; Tues. 3-4 a.m.; Thur. 8-9 a.m.	B	6.888	43.54	KEQ Kahuku, Hawaii. Phones California nights P	

7.139	42.00	HJ4ABB Manizales, Colombia, Sat. 10 p.m.-mid.	11.865	25.27	GSE Daventry, England, To India 9:30-11:30 a.m.
7.312	41.03	CM5RY Matanzas, Cuba, Sat. 10:45-11:30 p.m.	11.872	25.25	W8XX Pittsburgh, Pa. Relays XDKA 4-10 p.m.
7.518	39.89	KDK-KKH Kahuku, Hawaii, 9 p.m. and 2 a.m.	11.898	25.20	Pontoise, France, 11:30 a.m.-2:30 p.m.
7.610	39.40	HJ3ABF Bogota, Colombia, 7 p.m.-11 p.m.	12.000	24.98	FZS Saigon, Indo-China, 9-10 a.m.
7.790	38.49	HBP Geneva, Switzerland, Sun. 5-5:45 p.m.	12.592	23.81	DAN Norden, Germany, Talks to ships
8.180	36.65	PSK Rio de Janeiro, Brazil. Reported working WOK	12.780	23.46	GBC Rugby, England. Phones ships irregularly
8.328	36.00	DAN Norden, Germany	12.820	23.38	CNR Rabat, Morocco, Sun. 7:30 a.m.-9 a.m.
8.328	36.00	German Ships	13.035	23.00	German Ships
8.566	35.00	Italian ships	13.074	22.93	J1AA Kemikawa-Cho, Japan. Phones, experimental
8.645	34.58	VE9BY London, Ontario Mon. 3-4 p.m.	13.219	22.68	British Ships
8.831	33.95	British ships	13.278	22.58	YVQ Maracay, Venezuela
8.950	33.50	KLGX Guatemala City, Sat. 10 p.m.-mid.	13.296	22.55	CGA Drummondville, Que. 9 a.m.-2 p.m.
9.012	33.27	KLG Bolinas, Calif. Tests irregularly	13.500	22.09	GBB Rugby, England. Talks Canada day-times
9.276	32.52	CNR Rabat, Morocco, Sun. 3 p.m.-6 p.m.	13.816	21.70	SUZ Cairo, Egypt, 7 a.m. and 3:30 p.m.
9.480	31.63	P-LW Bandoeng, Java. Phones Australia 2-4 a.m. irreg.	14.450	20.75	GBW Rugby, England, 6 a.m. and 6 p.m.
9.492	31.58	PRBA Rio de Janeiro, Brazil, 6-6:15 p.m.	14.485	20.60	RXC Panama City, Afternoons
9.503	31.55	VK3ME Melbourne, Australia, Wed. 5-6:30 a.m. Sat. 5-7 a.m.	14.550	20.60	HBJ Geneva, Switzerland
9.510	31.53	GSB Daventry, England, To Canada 8-10 p.m.	14.682	20.42	PSS Rio de Janeiro, Brazil, 5-6 p.m.
9.520	31.49	OXY Skamleack, Denmark, 2-6:30 p.m.	14.760	20.32	HJB Bogota, Colombia 11 a.m.-5 p.m.
9.530	31.46	W2XAF Schenectady, N. Y., 5-15-11 p.m.; Sat.-Sun., 4-11 p.m.	14.796	20.27	WMB Miami, Fla., 1-5 p.m.
9.552	31.38	DJA Zeelen, Germany, 2 p.m.-6:30 p.m.	15.066	19.00	T14NRH Heredia, Costa Rica, Sat.-Sun. 11-noon
9.560	31.36	W1XAZ Springfield, Mass., 4 p.m.-12:30 a.m.	15.120	18.83	HVJ Vatican City, 5-5:15 a.m.
9.570	31.33	SR1 Poznan, Poland, Tues. 6 a.m.-8 a.m.	15.140	19.81	GSF Daventry, England
9.580	31.30	HBL Geneva, Switzerland, Sun. 5-5:45 p.m.	15.190	19.73	DJB Zeelen, Germany, 8 a.m.-noon
9.585	31.28	GSC Daventry, England	15.204	19.72	W8XX Pittsburgh, Pa. Relays KDKA 9 a.m.-4 p.m.
9.585	31.28	VK2ME Sydney, Australia, Sun. 1-2 a.m.; 5-9 a.m.; 9:30-11 a.m.	15.234	19.68	Pontoise, France, 8 a.m.-11 a.m.
9.592	31.25	CT1AA Lisbon, Portugal, Tues.-Fri., 5-7 p.m.	15.320	19.57	W2XAD Schenectady N. Y. Daily 1-3 p.m.; Sat.-Sun. to 4
9.670	31.00	T14NRH Heredia, Costa Rica, week days 10-11 p.m.	15.410	19.46	KWO Dixon, Calif. Phones Hawaii 2-7 p.m.
9.862	30.40	EAQ Madrid, Spain, 5:30-7 p.m.	15.760	19.02	J1AA Kemikawa-Cho, Japan. Phones experimental
9.862	30.40	J1AA Kemikawa-Cho, Japan, 5-7:45 a.m. B	16.150	18.56	GBX Rugby, England, 4 p.m. and 11 p.m.
9.895	30.30	LSN Buenos Aires, Argentina, 6 p.m. and 8 a.m.	16.601	18.06	DAN Norden, Germany
9.928	30.20	HJY Bogota, Colombia. Phones OCI evenings irregularly	17.080	17.55	GBC Rugby, England. Talks with ships irregularly
10.060	29.80	VRT-2FB Hamilton, Bermuda, Phones WNB days	17.770	16.90	GSG Daventry, England, To India 9:30-11:30 a.m.
10.090	29.70	OPM Leopoldville, Congo. Phones ORK 9-11 a.m.; 3-6 p.m.	17.772	16.87	W3XAL Boundbrook, N.J., 8 a.m.-4 p.m.
10.163	29.50	German Ships	17.830	16.82	PCV Kootwijk, Holland, 6-9 a.m.
10.212	29.35	PSH Rio de Janeiro, Brazil. Tests W2XBJ evenings	18.170	16.50	PMC Bandoeng, Java, 3:30-9 a.m.
10.246	29.26	DIQ Nauen, Germany	18.296	16.39	YVQ Maracay, Venezuela. Heard about 10 a.m.
10.285	29.15	DIQ Koenigswusterhausen	18.400	16.29	PKC Kootwijk, Holland. Phones Java about 7 a.m.
10.340	28.99	ORK Brussels, Belgium. Phones OPM 2-4, 9-11 a.m.; 3-6 p.m.	18.444	16.25	HJY Bogota, Colombia, 11 a.m. and 4 p.m.
10.830	27.68	KWV Dixon, Calif. Phones Hawaii irregularly	18.670	16.06	OCI Lima, Peru, 2 p.m.
11.174	26.83	CT3AQ Funchal, Madeira, Tues.-Thurs., 5-6:30 p.m.; Sun. 10:30-noon	18.820	15.93	PLE Bandoeng, Java, Tues.-Fri. 5:40-10:40 a.m.
11.530	26.00	XAM Merida, Yucatan	18.958	15.82	LSR Buenos Aires, Arg., 11 a.m. and 4 p.m.
11.644	25.75	PPQ Rio de Janeiro, Brazil. Heard testing 6 p.m.	19.270	15.57	PPU Rio de Janeiro, Brazil, 10:30 a.m. and 3:30 p.m.
11.680	25.67	YVQ Maracay, Venezuela. Tests Germany 5-7 p.m.	19.282	15.55	FTM St. Assise, France, 10 a.m.-2 p.m.
11.710	25.60	DGT Koenigswusterhausen	19.678	15.24	CEC, Santiago, Chile, 11 a.m. and 4 p.m.
11.710	25.60	VE8JR Winnipeg, Manitoba, Tues. 6:30-8:30 p.m.; Fri. to 9	19.684	15.23	EAQ Madrid, Spain. Phones
11.710	25.60	Pontoise, France, 4-7 p.m.	19.895	15.07	LSG Buenos Aires, Argentina, 10:30 a.m.-3:30 p.m.
11.760	25.50	XDA Mexico City. Tests XAM 1 p.m. and 6 p.m.	20.028	14.97	DHO Nauen, Germany. Phones LSG 7 a.m.-11 a.m. irregularly
11.800	25.40	I2RO Rome, Italy, 11 a.m.-12:30 p.m.; 2:30-5:30 p.m.	20.820	14.40	LSY Buenos Aires, Argentina. Heard 10 a.m. to 2 p.m.
			21.020	14.27	LSN, Buenos Aires, Argentina, 8 a.m. and 4 p.m.
			21.054	14.24	WKA Lawrenceville, N.J., 8 a.m.-4 p.m.
			21.069	14.23	PSA Rio de Janeiro, Brazil, 8 a.m.
			21.400	14.01	WKK Lawrenceville, N.J., 8 a.m.-4 p.m.
			21.470	13.96	GSH Daventry, England

Index of S. W. Stations by Call Letters appeared in the February number and will again be in April issue.

Last Minute DX NOTES

The Transcontinental Radio DX Club will reward the DXer who turns in the most complete and accurate report from the greatest distance of the program of KPCB the first Monday of each month, with a year's membership in the Club. The next DX program of KPCB will be on Monday morning, March 6th, from 3 to 5 a. m. EST.

The first DX program of XES, Tampico, Tamps., brought them hundreds of letters from nearly every state in the U. S., from many Canadian provinces and from Cuba. Starting February 1st, XES is putting on a courtesy program the first and third Saturday morning of every month from 4 to 5 EST.

The first DX program of CMJK brought them 90 reports. They will have another each Saturday night during March starting at 3 a. m. (Sunday morning). That of March 4th will be dedicated to the readers of RADEX and we hope they will listen for this program especially.

All those who need Vermont for their roster of the states, take notice: WNBX, Springfield, will give us a special DX program on Saturday morning, March 18th, from 4 to 5 EST. This station says its regular early morning program starting at 7:30 is reaching into the Middle West nicely. They would like reports on these morning programs as well as on the DX special.

Here's a chance to tune in a hard-to-get station on 1500 kcs.—KPQ, Wenatchee, Wash., Sunday morning, February 26th from 3 to 4 EST. They dedicated a new transmitter on January 20th.

Karl J. Halpern of Brooklyn, U. S. representative of the New Zealand Radio Club has arranged with some of the Eastern stations for DX programs especially for listeners on the under-side of the world. Among

these are the following: In February, WMCA, WLTH, WEAF and WOR; in March, WJZ, WPCB, WFO, WABC, WLWL, WINS, WOV and WBBC.

The Transcontinental Radio DX Club is arranging a "DX Parade" for Saturday morning, March 11th. The list of stations invited to participate is too large to print here. Actual acceptances have not been received in time to include in our DX Calendar but it is probable enough of them will be on the air to make the hours from 1 to 6 a. m. EST, Saturday morning, March 11th, repay any listener for his loss of sleep. This club invites all listeners to tune in any Saturday morning from midnight to six a. m. for specials.

Our Readers' Letters

(Continued from page 27)

stat of most any capacity across the aerial and ground post has a very marked difference in cutting out interfering stations," informs Wm. H. Gray, 1533 E. Van Buren St., Phoenix, Ariz. "I have a store about two miles from KTAR, Phoenix, which comes in on my dial at 82, while KFI, Los Angeles, comes in at 80. Now by adjusting my rheostat I can play KFI with plenty of volume, with no trace of interference from KTAR."

"Owners of Pentode sets," cautions Mrs. L. R. Ledbetter, 1109 Grammar St., Vicksburg, Miss., "should see that those tubes are giving a good reading. I improved tone greatly by changing to better 47's."

"Officer Kearney" was located for Louis Strand, 3500 Herndon St., Chicago, by so many readers of this magazine that he was unable to reply to them. Miss Lilian M. Bethel of Massillon, Ohio, for one, gave Mr. Strand the complete story with a cast of the characters on the Wheatonville program, one of them being Officer Tim Kearney.

The World of SHORT WAVES

(Continued from page 10)

perhaps for all time.

Mr. J. A. Shanks, Box 2, Rt. 2, Russellville, Tenn., tells us that he has been DXing for about two years but his real distance reception didn't begin until he obtained a Pilot Universal Super Wasp, a six-tube set tuning from 15 to 650 meters. He writes: "Am very much pleased with the results I have had with it. I have verifications from the following stations: VK2ME, VK3ME, Pontoise, 2RO, EAQ, HKA, CMCI, VE9DR, VE9GW, GBW and others."

And now, a letter from one who has heard all the continents but is not quite satisfied with short waves. J. W. Brauner says, "Your Short Wave Department is very interesting. Using a Lincoln all-wave for SW DXing I have heard all continents, but for some reason SW's do not interest me like 'BCL' does. One reason is the lack of identifiable announcements. Christmas morning I had a fellow on about 27 meters sending greetings to all the islands of the Pacific and telling how the people were enjoying the day on the beach at Sydney (presumably Australia). I may have had VK2ME. On the other hand, it may have been a telephone commercial in USA relaying Sydney, no call or other identification being heard in over an hour's listening, during every moment of which the speech was perfectly clear and loud. This is an example of why SW does not interest me. Too much 'relaying' and re-broadcasting."

Thomas Johnson, Box 1041, Seamen's P. O., 25 South St., New York City, comments particularly on the nice QSL card used by VE9GW and reports reception of KEE, Bolinas, Calif. He writes from the S. S. Rochester bound for Providence, as follows: "I have been reading RADEX for a few years and going to sea I always have it. I have a 2-tube short

and long wave home-made set using 230 tubes and Hammarlund coils tuning from 15 to 110 meters. On this set I have heard nearly all the police stations in the country."

"I have received many more stations on my Philco 90," comments William Hawkins, P. O. Box 1471, Abilene, Texas. "Decemember 15 I got an Atwater-Kent short wave converter 95, which has worked very nicely. With the combination I have heard 450 stations in nine countries. Only 100 stations are s. w. VK2ME comes in very nicely. YV1BC comes in almost perfect."

"On the short waves the best ones I have received," contributes Robert Base, 4105 Alton Road, Baltimore, Md., "are VK3ME, VK2ME, CT1AA, GSA, I2RO, Pontoise, EAQ, PRADO, PRBA, Rabat, DJB, LSX, CMCI, and others."

By the way, how many of us knew that Caracas is only a nick-name? The complete name of this beautiful Venezuelan city is Santiago de León de Caracas. The Spanish pronunciation is Cah-rah-cus with the accent on the second syllable.

Several new stations have been reported about which we have not as yet received any definite details. One of these was heard on 47.5 meters (6312 kcs.) announcing as W8XQ at Akron, Ohio. The others are all Spanish-speaking stations and are heard on 36.5, 40.5 and 48.8 meters, or 8159, 7402 and 6143 kcs. respectively. The first of these is heard on Wednesdays from 7:30 to 9:00 p. m., and is located at Bogota, Colombia; we believe the call is HJ3ABG. The 40.5 meter station was heard on a Sunday from 7 to 8 p. m. and the 48.8 meter stranger works daily, being heard as late as 11 p. m.

It is with regret that we delete VE9GW from our lists this month. We have learned that this station left the air on January 15th for an undetermined length of time. VE9GW was always one of our best liked stations.

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6:45						
7:00						
7:15						
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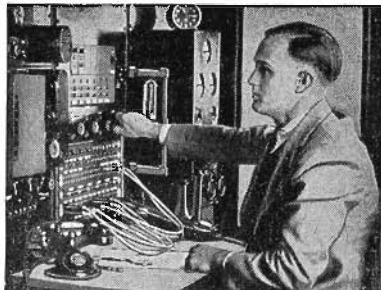
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