

THE MARCH 1933

RADIO 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

NO. 67

MARCH 1, 1933

RADIO INDEX

Reg. U. S. Patent Office

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NINTH YEAR

CONTENTS

NUMBER 67

Frontispiece—Jeannie Lang
Her Story is on page 2

The March DX Calendar of Special Programs.....	1
In Front of the Microphone, by "Betty".....	2
A DX Critic Investigates the Two-Tube Record.....	5
The World on the Short Waves, by Page Taylor.....	8
Building Radio into the Home of the Future.....	11
Taking the Trouble out of Radio, by B. Francis Dashiell.....	12
Was that Cricket Game from Paris?.....	17
Writing Letters to Spanish-speaking Stations.....	19
"This is What I Think . . ." Letters from our Readers.....	20
Monthly Meeting of the DX Club.....	28
This Month's Changes in Station Data.....	34
"What's on the Air Tonight?" The Month's Chain Programs.....	35
Classified Index to the Network Features.....	44
Index by Frequencies and Dial Numbers.....	46
Index by Locations with Key to the Map.....	60
Index by Call Letters with Saturday Time on the Air.....	67
The Police Broadcasting Stations, by Cities, Calls and Channels.....	74
Time on the Air of European Broadcasters.....	75
With the Short Waves on Sunday.....	76
One Hundred Best Short Wave Stations by Frequencies.....	77
Last Minute DX Notes.....	79

Published Monthly Excepting July and August

See Subscription Blank on Page 24

\$1.75 per Year

25c per Copy

THE RADEX PRESS, INC.

Publication Office, 404 No. Wesley Ave., Mount Morris, Illinois.

Editorial and Executive Office, 5005 Euclid Ave., Cleveland, Ohio.

Entered as second-class matter November 7, 1932, at the post office at Mount Morris, Ill.
under the Act of March 3, 1879. Printed in U. S. A.

ADDRESS ALL CORRESPONDENCE TO CLEVELAND OFFICE

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, 1109, 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	WBBQ, 1400, Brooklyn, N. Y.
March 5th, 12th, 19th, 23th		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	WEAO, 570, Columbus, Ohio	1:00-2:00	CFCN, 985, Calgary, Alta.
5:00-6:00	WAJZ, 1350, Zarephath, N. J.	1:00-2:00	WENC, 1420, Americus, Ga.
March 6th, 13th, 20th, 27th		1:00-3:00	CKCL, 580, Toronto, Ont.
12:00-2:30	WMIL, 1500, Brooklyn, N. Y.	1:30-3:30	KGEK, 1200, Yuma, Colo.
1:00-4:00	WSUL, 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	WCLO, 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, Vermilion, S. Dak.
WEDNESDAY NIGHT		March 18th	
March 1st		2:00-3:00	WTOC, 1260, Savannah, Ga.
2:00-3:00	CHWK, 665, Chilliwack, B. C.	March 25th	
2:30-4:30	KXO, 1700, 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, S. 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, 16th		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, 9th, 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	WPCH, 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	KGER, 1360, Long Beach, Calif.
5:00-6:00	WJBU, 1210, Lewisburg, Pa.	3:00-6:00	KGCX, 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.

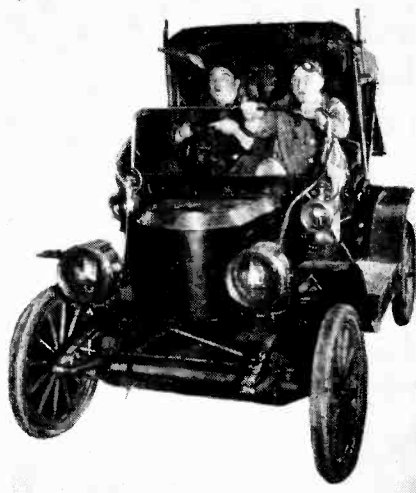
A Youthful Maestro

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 Wheatenville 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 DDFI, 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 WLEX, 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 WEAJ 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. YV11BMO 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 reverse 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

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



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.

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 Gomber 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 WEAJ-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 Heavyside 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.

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

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

Atfmo. atto. y. s. s.

(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?

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

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-watt 5000 miles; a 50-watt 2500 miles and a ten-watt 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. Sciser, 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 Kilkenny 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 kcys. 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 keys. 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 aerials 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 aerials 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 sly 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

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

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Write Name Plainly.....

Street and Number.....

City and State

67

No extra charge outside the U. S. A.

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 diariamente 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, Chatham, 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 keys., 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 keys.

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 kc., 500 watts; JOBG, Maebashi, 970 kc., 500 watts; JOCG, Asahigawa, 655 kc., 300 watts; JODG, Hamamatsu, 635 kc., 300 watts; JOFG, Fukui, 990 kc., 500 watts; JOXK, Tokushima, 980 kc., 500 watts; JFKB, Tainan, Formosa, 720 kc., 1000 watts; JQAK, Dairen, 760 kc., 500 watts; JFBK, Tainan, Formosa, 720 kc., 1000 watts; and ZILY, Hoten, Mukden, Manchuria, 900 kc., 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; WPCH, 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, Beziers, 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 kcs. 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 kcs.?" asks Douglas Wauchope, 501 S. Candler St., Decatur, Ga. "The report that we are operating on 635 kcs. is in error," replies CNRO. "We are still operating on a frequency of 600 kcs. 500 meters."

Station CKPR, Fort William, Ontario, tells us that the reports that they are broadcasting on 650 kcs. 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 kcs. 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 kcs. but expect to move to 1375 very soon.

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

KGER, Long Beach, Calif., broadcasts DX tips on 1360 kcs., 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 keys. and Frankfurt-am-Main on 1157 keys., 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 keys., 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 kcys. every evening 6:30 to 8:00 P.M. (5:00 to 6:30 EST). VOGY are still on 910 kcys. 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. Woodward 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 keys," 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 keys. 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 any-thing 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.

Nuremburg, 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 Gomber Ave., Cambridge, Ohio. "It is impossible, however, to tell yet whether they will be on or not."

Japs Do Use English

"I have a Spartan 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 keys. to VE9RM at 2004 keys., 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 kcs. On 914 kcs. 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, Barberton, 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 keys., 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 WAIU	Columbus, Ohio, to Associated Radio-casting Corp.
1010 WPAP-WQAO-WRNY	New York City to Marcus Loew Book-ing Agency
1120 CFJC	Kumloops, 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 WJEQ-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 WUNC

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Elizabeth Barthell
 CFRB CKOK KFAB KFH KLZ
 KMBC KSCJ KSL KTRH KVOR
 WAAB WADC WDCM WBIG
 WBRC WBT WDAE WDBJ WDOD
 WDRS WDSU WFLA WFBL WFLA
 WGR WGST WHEC WIP WISN
 WJAX WKBH WKBW WLWB WLWB
 WNAK WNOX WODX WOKO WORC
 WQAM WREC WSBT WSFA WSJS
 WSPD WTAQ WTOG
R — Waldorf-Astoria Orchestra
 CKGW KFJR KGO KOA KPRC
 KSD KTBS WBN WCAE WCKY
 WCSH WDAF WEAF WENR WFBR
 WFI WHO WIBA WIOD WJAR
 WKY WMC WMAI WOC WRC WSB
 WSMB WTAG WUNC

E-8:15 p.m., C-5:15, M-4:15, P-3:15
C — Reis and Dunn
 CFRB CKOK KFAB KFH KLZ
 KMBC KSCJ KSL KTRH KVOR
 WAAB WADC WDCM WBIG
 WBRC WBT WCAO WDAE WDBO
 WDOD WDSU WEAN WFLA WGR
 WHEC WIP WISN WJAX WJVS
 WKBH WLWB WLWB WNAK WOKO
 WORC WQAM WSBT WSFA WSJS
 WSPD WTAQ WTAR 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 WDCM WBIG WBRC WBT
 WDBO WDOD WDSU WEAN WFLA
 WGR WJVS WKBW WLWB WLBZ
 WOKO WORC WQAM WSFA WSJS
 WSPD WTAQ WTOG
R — Al Bernard, Minstrel Man
 KFSD KGO KOA WBN WDAF
 WEAF WFBR 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 WJVS WKBW
R — Rhythm String Quartet
 WBN WCAE WCSH WEAF WFBR
 WFI WJAR WRC WSAI WTAG
 WTAM WTIC WJZ

B — Lowell Thomas
 CKGW KDKA WBAL WBZ WBZA
 WGAR WHAM WJR WJZ WLW
B — Little Orphan Annie
 KFJR KOIL KPRC KSO KSTP
 KTBS KWCR KWK WBAI WDAY
 WEEC WENR WKY WOI WREN

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge
 CKOK KRLL WABC WADC WCAO
 WCAU WDRS WEAN WFBL WGR
 WHK WJAX WJVS WJVS WJVS
 WJVS WJVS WJVS WJVS
 WOKO WSBT WSPD WJVS
B — Amos 'n' Andy
 CKGW KDKA WBAL WBZ WBZA
 WCKY WFLA WGAR WHAM WIOD
 WJAX WJR WJZ WLW WPTT WRC
 WRVA WUNC

R — Gruen and Hall, Piano Duo
 KDYL KFI KFSD KFJR KGO KOA
 KSTP KTBS KVOD KYW WCSH
 WDAF WEAF WEEC WFBR WGY
 WHO WIBA WKY WOC WOW WSAI
 WSM WTAM

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 WGR WHAS WHK
R — Wheatonville Ray Knight
 WDAF WEAF WEEI WGY WHO
 WJAR WLIT WMAQ WOC WOW
 WRC WTAM WJZ
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 WMAI WMC
 WPTT WRVA WSAZ WSMB WUNC
R — Van and Don, Comedy Team
 WCSH WDAF WEAF WENR WFBR
 WGY WJAR WOW WSAI WTAG
C — Dolph Martin's Orchestra
 WABC WCAO WCAU WDRS WEAN
 WFBL WFLA WGR WHEC WHP
 WJAX WJVS WLWB WNAK WOKO
 WORC

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter, News Flashes
 CKOK KMBC KMOX WABC WBBM
 WBT WCAO WCAU WCCO WGR
 WHAS WHK WJVS WNAK
R — The Goldbergs
 KFJR KPRC WBN WCAE WCSH
 WEAF WEEI WFLA WFBR WGY
 WJAR WKY WLIT WOI WRC
 WTAG WTAM WJZ

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Whispering Jack Smith
 CKOK KMBC KMOX WABC WADC
 WCAO WCAU WDRS WEAN WFBL
 WFBM WGN WGR WHAS WHK
 WJAX WJVS WJVS WJVS WJVS
 WJVS WJVS WJVS WJVS
R — Soconyland Sketches
 WBN WCSH WEAF WEEI WGY
 WJAR WTAG WTIC
B — Clicquot 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 KMBC KMOX WABC WADC
 WCAU WCCO WDRS WEAN WFBL
 WFBM WGN WGR WHK WJAX
 WJVS WJVS WJVS WJVS WJVS

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Fu Manchu Mystery
 CFRB CKOK KMBC KMOX KRLL
 WABC WADC WBT WCAO WCAU
 WDRS WEAN WFBM WGN WGR
 WHAS WHK WJAX WJVS WJVS
 WJVS WJVS WJVS WJVS
R — Voice of Firestone
 CPCE CKGW KPRC KSD KTBS
 KVOD WBN WCAE WCSH WEAF
 WEEI WFLA on 8:45 WFBR WFLA
 WGY WHO WIOD WIS WJAR WJDX
 WKY WLIT WLW WMAQ WMC
 WOI WOC WOW WRC WRVA
 WSB WSM WSMB WTAG WTAM
 WTIC WJZ WJVS
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 KPBY
 KPRC KGB KHJ KLRA KLZ KMBC
 KMJ KMOX KOH KOIN KOL ROMA
 KRLL KSL KTRH KTSA KVI KWG
 WABC WADC WBRC WBT WCAH
 WCAO WCAU WCCO WDAE WDBJ
 WDBO WDRS WDSU WEAN WFBL
 WFBM WGN WGST WHAS WHEC
 WHK WISN WJAX WJVS WKBW
 WKRC WLAC WLWB WMBG WMT
 WNAM WOKO WOHG WOWO WPG
 WQAM WREC WSPD WTAR WTOG

MONDAY—(Continued)

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

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

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Mysteries in Paris
CROK KMBC KMOX WABC WADC
WBT WCAO WCAU WEAN WFBW
WGN WHK WJAS WJSV WKBW
WKRC WNAC WOKO WOVO WSPD
R — Paul Whiteman and Orchestra
KDYL KFI KFSD KFYR KGHL
KGRH KGO KGW KHQ KOA KOMO
KPFC KSD KSTP KTAR KTHS
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WEEL WFAA WFBW
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 WBAL WENR WGAR WHAM
WJR WJZ WLW

E-10:00 p.m., C-9:00, M-8:00, P-7:00
R — Contented Program
CFRC CKGW KFYR KPFC 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 CKOK KLRA KLZ KMBC
KSCJ KSL KTRH KTSB KYOR
WAAB WABC WADC WBBM WBCM
WBIG WBRC WBT WCAH WCAO
WCAU WCCO WDAE WDBJ WDDO
WDRG WDSU WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WJAS WJSV WKBI WKBN 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 KGRH
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 CKOK KLRA KLZ KMBC
KMOX KSCJ KTRH KTSB KYOR
WAAB WABC WADC WBCM WBIG
WBRC WBT WCAH WCAO WCCO
WDAE WDBJ WDDO WDRG WDSU

WFAN WFBL WFBM WFEA WGST
WHAS WHEC WHIP WIP WISN
WJAS WJSV WKBH WKBN WKBW
WLBW WLBZ WMBD WNAX WNOX
WODX WOKO WORC WQAM WREC
WSJS WSPD WTOC

B — Alice Joy and Old Stager
CFRC KOIL KSO KWCR KWK
WBAL WCKY WGAR WHAM WJR
WJZ WREN WSYR

R — National Radio Forum
KECA KGA KPO KSD KTAR KTHS
WBEN WCSH WDAF WEAF WEEL
WENR WFBW WFLA WIBA WIOD
WIS WJAR WJDX WKY WOAI
WRR WRVA WSAI WTAG WTAM
WJZ WWNC

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C — Myrt and Marge
KDB KERN KFBK KFPY KFRC
KGB KHJ KLZ KMBC KNJ KMOX
KOLN 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 CKOK KFAB KFH KLZ
KMBC KSCJ KSL KTRH KYOR
WAAB WABC WADC WBCM WBRC
WBT WCAO WDDO WDRG WDSU
WEAN WFAN WFBM WHK WIBW
WICC WIP WISN WJAS WJSD
WKBN WKBW WLBW WLBZ WMBD
WNAX WODX WOKO WORC WQAM
WSBT WSJS WSPD WTAR WTOC

R — Ted Weems and Orchestra
KFYR KGO KOA KSD WFBN WCAE
WCKY WDAF WEAF WEBC WFBW
WGY WHO WIBA WJAR WOC WRC
WTAG WTAM WWJ
B — Amos 'n' Andy
KDYL KFI KFSD KGO KGW KHQ
KOA KOIL KOMO KPFC KSTP
KTHS KWK WPAB WDAF WENR
WJDX WKY WMAQ WMC WOAI
WREN WSB WSM WTMJ

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Guy Lombardo and Orchestra
CFRB CKOK KFAB KFH KLZ
KMBC KMOX KSCJ KSL KTRH
KYOR WAAB WABC WADC WBCM
WBIG WBT WCAO WCAU WCCO
WDDO WDRG WDSU WEAN WFBM
WHK WIBW WICC WISN WJSV
WKBN WKBW WLBW WLBZ WMBD
WNAC WODX WOKO WORC WPG
WQAM WSBT WSJS WSPD WTAR
WTOC

R — Jack Denny and Orchestra
WEAF WFBW WJAR WRC WTAG
WVIC

R — Voice of Firestone
KDYL KFI KFSD KFYR KGHL
KGRH KGO 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
CROK KFAB KLZ KMBC KMOX
KRLD KSCJ KSL KTRH KYOR
WABC WBRG WBT WCAU WCCO
WDDO 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 KEN 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. Kaltenborn
CROK KPH KSCJ KSL KTRH KYOR
WAAB WABC WADC WBBM WBCM
WBIG WBRG WBT WCAO WDAE
WDBO WDDO WDRG WDSU WEAN
WFEA WHEC WICC WISN WJAS
WJSV WKBH WKBN 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 King
KFYR KGO KOA KOA KOMO KTBS
KTHS KVOO WENR WDAF WEAF
WFBW WFI WIS WMAQ WMC
WOAI WPTB 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 WFBW WFI WIS WJAR
WPTF WRG 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 WENR WCSH WDAF
WDAY WEAF WEBC WFBW 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
KFYR KGA KGRH KJR KOA KOIL
KPO KTBS KVOO KWCR WBZ
WBZA WENR WFLA WIBA WIS
WJDX WJZ WMC WOAI WPTF
WREN WSB WSM WSMB WWNC

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

E-7:45 p.m., C-6:45, M-5:45, P-4:45
B — Octavus 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
CROK KMBC KMOX WABC WADC
WCAO WCAU WCCO WEAN WFBW
WFBM WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WSPD

R — Blackstone, Sandersen-Crumit
KSD KSTP KYW WBEN WCAE
WCSH WDAF WFAF WEBC WEEL
WFI WGY WHO WJAR WOC WOW

TUESDAY—(Continued)

WRC WSAI WTAG WTAM WWJ
B — Enco 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
 CKOK KMBC KMOX WABC WADC
 WCAO WCAU WDRC WEAN WFBL
 WFPM WGN WGR WHAS WHK
 WJAS WJVS WKRC WNAC WOKO
 WSPD

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

C — Kate Smith
 CKOK KMBC KMOX WABC WADC
 WBCM WCAH WCAO WCAU WCCO
 WFBL WFPM WGN WGR WHAS
 WHEC WHK WISN WJAS WJVS
 WKBH WKRC WOKO WOW WSPD

R — Wayne King and Orchestra
 KSD KSTP WBEW WCAE WCKY
 WCSH WEAF WECB WEEL WFBR
 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
 CKOK KMBC KMOX WABC WADC
 WCAO WCAU WDRC WEAN WFBL
 WFPM WGN WGR WHAS WHK
 WJAS WJVS WKRC WNAC WOKO
 WOW 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
 KFYP KOA KPRC KSTP WBAF
 WBEW WCAE WCKY WCSH WDAF
 WDAY WEAF WEEL WFBR 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
 CKOK KDB KERN KFBK KFII
 KFYP KERC KGB KHL KLRA KLZ
 KMBC KMJ KMOX KOIN KOMA
 KRDL KSL KTRH KTSA KVL KWG
 WABC WADC WBRB WBT WCAO
 WCAU WCCO WDAE WDBO WDDO
 WDRC WDSU WEAN WFBL WFPM
 WGN WGST WHAS WHEC WHK
 WJAS WJVS WKBW WKRC WLAC
 WNAC WOKO WOW 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 KFYP
 KGHJ KGJR KGO KGW KHQ KOA
 KOMO KPRC KSD KSTP KTAJ
 KTBS KTHS KVOD WBAF WBEW
 WCAE WCSH WDAF WDAY WEAF
 WECB WEEL WFBR WFI WFLA
 WGY WHO WIBA WIOD WIS WJAR
 WJAX WJDX WKY WLW WMAQ
 WMAC WOAI WOC WOW WRC
 WRVA WSB WSM WSMB WTAG
 WTAM WTMJ WWJ WWNC

C — California Melodies

CFRB CKOK KFH KLZ KMBC
 KMOX KSCJ KSL KTRH KTSA
 WABC WBCM WBG WBRC WBT
 WCAO WCAU WCCO WDAE WDDO
 WDRC WEAN WFBM WFFA WHEC
 WHK WJVS WJAS WKBH WKBN
 WLWB WLWZ WMBD WNAC WNAX
 WODX WOKO WQAM WWSJ 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 WBG WBT WCAO
 WCAU WDBJ WDDO WDRC WDSU
 WEAN WFBL WPEA WHIP WICC
 WJAS WJVS WKBW WLAC WMBD
 WNAC WNAX WOBW WOKO WORC
 WREC WJSJ WTAR

R — Lucky Strike Hour

KDYL KFI KFSD KFYP KGO KGU
 KGW KHQ KOA KOMO KPRC KSD
 KSTP KTAJ KTBS KTHS WAPI
 WBAF WBEW WCAE WCSH WDAF
 WDAY WEAF WECB WEEL WENR
 WFBR 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 — Sigmond 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 — Ilomyr Bailey, Soprano
 KSO KVCY 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 Carlile, Tenor
 CFRB CKOK KFAB WAAB WABC
 WADC WBCM WDRC WFAN WFBL
 WFEA WHEC WHK WIP WJAS
 WJVS WKBW WLBZ WOKO
 WORC WPG WSBT WSPD

B — Professor Jack McLallen

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 KFYP KGJR KPRC
 KSTP KTBS KWK WBAL WCKY
 WENR WFLA WGAR WHAM WIBA
 WIS WJR WJZ WMC WRC WREN
 WSM WSYR WWNC

B — Octavus Roy Cohen Mystery

KDYL KECA KEX KFYP KGA KJR
 KOA KPO KPRC KSTP KTBS WDAY
 WERC WFAA WIBA WJDX WKY
 WMC WOAI WSB WSMB WTMJ

E-11:00 p.m., C-10:30, M-9:30, P-8:30

C — Isham Jones and Orchestra
 CFRB CKOK KFAB KFH KLZ
 KMBC KSCJ KSL KTRH WAAB
 WABC WADC WBCM WBRB WBT
 WCAO WCAU WCCO WDAE WDBO
 WDDO WDRC WDSU WEAN WFPM
 WHEC WHK WJVS WICC WISN
 WJVS WKBN WKBW WLBW WLBZ
 WMBD WNAX WODX WOKO WORC
 WPG WQAM WWSJ 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 WBBZ WBZA
 WFLA WGAR WIOD WJR WJZ WKY
 WMC WREN WSB WSM WSMB
 WWNC

C — Joe Haymes and Orchestra

CKOK KFAB KLZ KMBC KSCJ KSL
 KTRH KVOR WABC WBRB WBT
 WCAH WCAU WDAE WDDO WDSU
 WFBL WGST WHAS WHK WHP
 WISN WJAS WJVS WKBW WLBW
 WMBD WMT WNAX WNAX 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 WFBR WFI
 WFLA WIOD WJAR WMAQ WMC
 WRC WSB WSM WSMB WTAM
 WWNC

R — Ben Bernie and Orchestra

KFI KFSD KGO KHQ KOMO KSD
 KTAJ

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 CKOK KFH KMOX KSCJ
 KSL KTRH KVOR WAAB WABC
 WADC WBBM WBCM WBG WBT
 WCAO WDAE WDBO WDDO WDRC
 WDSU WFAA WFFA WHEC WHP
 WISN WJAS WJVS WKBH WKBN
 WKBW WLBW WLBZ WNAX WODX
 WOKO WORC WQAM WSBT WSA
 WJVS WSPD WTAG 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 CKOK KFAB KFH KLZ KSCJ
 KSL KTRH KVOR WAAB WADC
 WBCM WBG WBRB WBT WCAO
 WDAE WDBJ WDDO WDRC WDSU
 WGR WGST WHAS WHEC WHP
 WIP WISN WJAS WJVS WKBH
 WLBW WLBZ WMT WNAX WNAX
 WODX WOKO WOHX WQAM WREC
 WSBT WSA WJSJ WSPD WTAG
 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 WBEW WCKY
 WDAF WEAF WFBR WIBA WIS
 WMAQ WMC WOAI WWSJ 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 WBEW WCAE WCSH WFAF
 WFBR WFI WHO WIS WJAR WMAQ

WEDNESDAY--(Con'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-6:00, M-5:00, P-4:00

- C — Myrt and Marge, See Monday
- B — Amos 'n' Andy, See Monday
- R — Mischa Weisbord, Violist
- KDYL KFYR KGO KHQ KOA KOMO KSTP KTBS KYW WDAF WDAY WEAF WECB WFBW WGY WHO WJAB WJAR WMC WOC WOW WRC WSAI WSB WSM WTAG WTAM

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, Barbasol
- KDKA KOIL KWK WBAL WBZ WBA WENR WJZ

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

- B — Five Star Theatre, See Monday
- C — Dolph 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 — Whispering Jack Smith, See Mon.
- R — Royal Vagabonds, Ken Murray
- KSD WBN WCAE WCSH 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
- WBN WCSH 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 KFSB KFYR KGO KHQ KOA KOMO KSD KTAR KTBS KVOO WBN WCAE WCSH 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
- CFCE CHGW KDKA KOIL KWCR KWK WBAL WBZ WBA WGAR WHAM WJR WJZ WLS WLW WREN

E-9:15 p.m., C-8:15, M-7:15, P-6:15

- C — Romantic Bachelor
- CKOK KDB KERN KFBK KFH KFPY KPRC KGB KHJ KLA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSCJ KSL KTRH

KTSA KVI KWG WABC WACO WADC WBIG WBRC WBT WCAO WCAU WCCO WDBJ WDDO WDRC WDSU WEAN WFBL WFBM WGN WGST WHAS WHK WHW WISN WJAS WJWV WKBH WKWB WKRC WLAC WLHZ WMBG WMT WNAX WNOX WODX WOKO WOWO WRC WSPD WTAR

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

- C — Guy Lombardo-Burns and Allen
- CKOK KMBK KMOX KOMA KRLD KTRH KTSA WABC WADC WCAO WCAU WCCO WDRC WEAN WFBL WFBM WGN WHK WJAS WJWV WKWB 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 WBA WENR WFAA WGAR WHAM WJDX WJR WJZ WKY WLW WQAT WREN WSB WSM WTAM

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

- C — Old Gold—Fred Waring
- CKOK KDB KERN KFBK KFPY KPRC KGB KHJ KLA KLZ KMBC KMJ KMOX KOIN KOL KOMO KSL KTAT KTRH KTSA KVI KWG WAAB WABC WADC WBCO WBT WACH WCAO WCAU WCCO WDAE WDBO WDDO WDRC WDSU WFBL WFBM WGN WGST WHAS WHC WHK WHW WJAS WJWV WKWB WKRC WODX WOKO WOWO WQAM WREC WRIR WSPD
- R — Corn Cob Pipe Club
- KDYL KFI KGHL KGIR KGO KGW KHQ KOA KOMO KSD WBN WCAE WCSH 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 WBA WFAA WGAR WJR WJZ WKY WMAQ WMC WREN WSB WSM

E-10:15 p.m., C-9:15, M-8:15, P-7:15

- B — Alice Joy, Contralto
- KFYR KSO KTBS KWCR WBAL WBZ WBA WCKY WDAY WECB WFLA WGAR WIBA WIS WJZ WKY WREN WSB WSM 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
- CFRB CKOK WAAB WABC WADC WBCM WCAU WDRC WFBL WFEA WHC WHK WJAS WJWV WKWB WLWB WLWZ WOKO WORC WOWO WSBT 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 — Isthm Jones, See Tuesday
- B — Cesare Soderro and Orchestra
- KSO KWCR KWK WBAL WBZ WBA 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
- CKOK KFAB KLZ KMBC KSCJ KTRH KYOR WABC WBRW WBT WCAH WCAU WCCO WDAE WDDO WDSU WEAN WFBL WGST WHAS WHK WHIP WICC WISN WJAS WJWV WKWB WLWV WMBD WMT WNAC WNAX WNOX WOKO WORC WPG WREC WSBT WSPD WTOC
- R — The Goldbergs, See Monday
- B — Ben Bernie and Orchestra
- KDKA KFYR KOIL KSO KWCR KWK WBZ WBA WECB WENR WFLA WGAR WIBA WIOD WJZ WLEN WWNC

E-12:15 p.m., C-11:15, M-10:15, P-9:15

- B — Sherlock Holmes
- KDYL KFI KFSB 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
- CFRB CKOK KFAB KFH KLZ KMBC KSCJ KSL KTRH KYOR WAAB WADC WBIG WBRW WBT WCAU WDAE WDDO WDRS WDSU WGR WHC WISN WJAS WJWV WKBH WLWB WLWZ WNAX WOKO WORC WQAM WSBT WSJS WSPD WTAQ WTAR WTOC

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

- R — Donald Novis, Tenor
- KECA KEX KFSB KFYR KGA KJR KOA KPO KSD KTBS KTHS WAPI WBN WDAF WDAY WEAF WIBA WIS WJAR WMAQ WMC WOAI WRC WSAI WSB WSM 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
 CFCF CKGW KDYL KF1 KFYR
 KGO KGW KHQ KOA KOMO KPRC
 KSD KSTP KTAR WAPI WBAF
 WBNW WCAE WCKY WCSH WDAF
 WDAY WFAE WFBC WEEL WFBR
 WFL WFLA WGY WHO WIOD WJAZ
 WJAX WJDX WKY WMAQ WMC
 WQAI WOC WOV WRC WRVA
 WSAI WSB WSM WSMB 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
 CKOK KMBC 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, 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 WBNW WCAE
 WCKY WCSH WDAF WFAE WEEL
 WFBR WFL WFLA WGY WHO
 WIOD WIS WJAR WJAX WJDX
 WKY WMAQ WMC WQAI WOC
 WOV WRC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WTMJ WWJ
 WNNC
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. Stoppagle and Budd
 CKOK KDB KFRN KFBK KPH
 KFPY KRCF 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 WFBL WFBM WGN WGST
 WHAS WHEC WHK WJAS WJSV
 WKBW WKRC WLAC WNAC WOKO
 WOWO WQAM WREC WRR WSPD
 WTAR

B — Len Joy's Dancing Strings
 KDKA KFSD KOIL KSO KWCR
 KWK WBL 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
 CFCF 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
 CFRB CKOK KLRA KLZ KMBC
 KSCJ KTRH KTSa KVOR WAAB
 WABC WADC WBBM WBCM WBIG
 WBRC WBT WCAH WCAO WCAU
 WCCO WDAE WDBJ WDOD WDRC
 WDSU WEAN WFBL WFBM WFEA
 WGST WHAS WHFC WHK WHP
 WICC WISN WJAS WJSV WKRB
 WKBW WKBW WLBW WLBZ WMBD
 WMT WNAX WNOX WODX WOKO
 WORC WOWO WPG WQAM WREC
 WJSJ 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 McLallen, See Tuesday
C — Morton Downey
 CKOK WAAB WABC WADC WBCM
 WCAU WHDC WEAN WFBL WFEA
 WHEC WHK WICC WJAS WJSV
 WKBW WLBW WLBZ 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 WFBR
 WRS 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 Sodero and Orchestra
 CFCF CKGW KDYL KEX KFSD
 KFYR KGA KJR KOA KOIL KPO
 KSO KWCR KWK WBAL WBZ
 WBA WBCB WFLA WGAR WHAM
 WJAS WJDX WJR WJZ WMC
 WRC WREN WSB WSMB WNNC
C — Isham Jones, See Tuesday
R — Jack Dennis, 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 WCSH
 WDAF WDAY WFAE WFCB WEEL
 WFBM WGY WJAX 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
 CKOK KLZ KMBC KMOX KSL
 WABC WADC WCAO WCAU WCCO
 WDRC WEAN WFBL WFBM WGN
 WGR WHAS WHK WJSV WKRC
 WNAC WOKO WSPD

R — Cities Service Concert
 CKGW KDYL KOA KPRC KSD
 KSTP KTBS KYW WBNW WCAE
 WCSH WDAF WFAE WFCB WEEL
 WFAA WFBR WGY WHO WJAR
 WKY WLT WQAI WOC WOV WRC
 WSAI WTAG WTAM WTIC WTMJ
 WWJ

B — Nestle's Program
 KDKA KOIL KWK WBAL WRZ
 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
 CKOK KDB KERN KFBK KFPY
 KPRC KGB KHJ KLZ KMBC KMJ
 KMOX KOIN KOL KSL KVI KWG
 WABC WADC WCAO WCAU WCCO
 WDRC WEAN WFBL WFBM WGN
 WGR WHAS WHK WJAS WJSV
 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
B — First Nighter, Drama

KDKA KDYL KFI KFSD KGO KGW
 KHQ KOA KOIL KOMO KPRC
 KSTP KTAR KTBS KWK WAPI
 WBAL WBZ WBZA WCKY WEBC
 WGAR WHAM WJR WJZ WKY WLS
 WQAI WREN WSB WSM WSMB
 WTMJ
R — Three California Nuts
 WCSH WFAE WEEL WJR WTAG
 WTC

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C — Mary Eastman, Soprano
 CFRB CKOK KFH KLRA KLZ
 KMBC KMOX KSCJ KSL KTRH
 KTSa KVOR WAAB WABC WACO
 WADC WBCM WBIG WBT WCAH
 WCAO WCCO WDAE WDBJ WDOD
 WDRC WDSU WEAN WFBL WFBM
 WFEA WGST WHAS WHEC WHP
 WIBW WICC WISN WJAS WJSV
 WKBH WKBW WLBW WLBZ WNAX
 WNOX WODX WOKO WORC WQAM
 WREC WSBT WJSJ WSPD WTOG

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R — Pond's Program
 KSD WBNW WCAE WCSH WDAF
 WFAE WENR WFBM WGY WHO
 WJAR WLT WOC WOV 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 WEAU WFBI WFBM
WGN WHAD WHAS WHIK WHP
WIBW WJAS WJSV WKBH WKWB
WKRC WLWB WLWZ WMBD WNAC
WOKO WORC WOWO WREC WSPD
B — Armour Program
KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KPRC KSO KSTP
KWK WAPI WBAL WBZ WBZA
WBCB WFAP WGAR WHAM WIOD
WJAX WJZR 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 KFSB KPYR KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTAR KTBS
KTHS KV00 WBEW WCAE WCSH
WDAF WDAY WEAF WECB WEEI
WENR WFAP WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WKY WLIT WLW WMC
WOAI WOC WOW WRC WRVA WSB
WSM WSMB WTAG WTAM WTIC
WTMJ WWJ WWNC
B — Alice Jay
CFCE CKGW KOIL KSO KWCR
KWK WBAL WKY 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 WBEN WCKY WCSH
WDAF WEAF WELI WFBR WGY
WJAR WOW WSAI WTAG WTAM
WTIC WWJ
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 WFBR
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 KFAB KFH KLZ
KMBC KSCJ KSL KTRH KVOR
WAAB WABC WADC WBCM WBIC
WBT WCAO WCAU WCCO WDAE
WDBO WDOD WDRC WDSU WEAN
WFBI WHEC WHK WICC WISN
WJSV WLWB WLWZ WMBD WNAX
WOKO WORC WQAM WSBT WSJS
WSPD WTAR WTOC

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C — Ben Pollack and Orchestra
CKOK KFAB KLZ KMBC KRLD
KSCJ KSL KTRH KVOR WABC
WBRC WBT WCAU WCCO WDAE
WDOD WDSU WICC WISN WJSV
WLWB WMBD WNAC WNAX WOKO
MP WSBT WSPD WTOC

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-6:00 p.m., C-5:00, M-4:00, P-3:00
C — America's Grub Street
CFRB CKOK KFAB KFH KSCJ KSL
KTRH KVOR WAAB WABC WADC
WBBM WBCM WBIG WBRC WBT
WCAO WCAU WCCO WDAE WDBO
WDOD WDRC WDSU WEAN WFEA
WHEC WICC WISN WJSV WKBH
WLWB WLWZ WNAX WOKO WORC
WQAM WSBT WSFA WSJS WSPD
WTAG WTAR WTOC WYVA
R — Waldorf-Astoria, See Monday
B — 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 KFSB KFYR KGA KGIR
KJR KOA KOIL KPO KPRC KSO
KSTP KTAR KTBS KTHS KWCR
KWK WBAL WBZ WBZA WCKY
WECB WFLA WIBA WIOD WIS
WJAX WJR WJZ WKY WMAQ
WMC WOAI WREN WRVA WSB
WSMB 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 Wilc
KMBC KRLD KTRH WABC WADC
WBBM WBCM WBIG WBRC WBT
WCAO WCAU WDAE WDBO WDOD
WDRC WDSU WEAN WFBM WFEA
WGR WHCC WHK WICC WJAS
WJSV WLWB WLWZ WNAC WOKO
WQAM WSFA WSPD WTAR WYVA
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 WBRC WCAO WCAU
WDAE WDOD WDRC WDSU WEAN
WFBM WFEA WGR WICC WJAS
WJSV WLWB WLWZ WNAC WOKO
WORC WQAM WSFA WSJS WSPD
WTAR WYVA
R — Ozzie Nelson and Orchestra
CKGW KGO KOA WBEN WACE
WCKY WDAF WEAF WFBR WFI
WHO WJAR WOC WTAG WWJ
B — Merle Thorpe Talk
KDYL KECA KEX KFSB KFYR
KGA KJR KOA KOIL KPO KPRC
KSTP KTBS KWCR KWK WBAL
WBZ WBZA WECB 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 KVOR WABC
WADC WBCM WBIG WBRC WBT
WCAO WCAU WCCO WDAE WDBO

WDOD WDRC WDSU WEAN WFBM
WFEA WGR WHCC WISN WJAS
WJSV WKBH WLWB WLWZ WNAC
WOKO WQAM WSFA WSPD WTAG
WTAR WTOC
B — Murder Mystery, See Tuesday

E-8:00 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 WBEW WDAF WEAF
WECB WEEI WELI WMO WIBA WIS
WJAR WMAQ WMC WOAI WOC
WSB WSMB WTAG WTAM WWJ
WWNC

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

E-8:15 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-8:30 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 KVOR
WABC WADC WBCM WBIG WBRC
WBT WCAO WCAU WCCO WDAE
WDBO WDOD WDRC WDSU WEAN
WFBM WFEA WGR WHCC WICC
WISN WJSV WKBI WLWB WLWZ
WNAX WOKO WORC WPG WQAM
WSBT WSFA WSPD WTAG WTAR
WTOC
R — Economic World Today
KDYL KFSB KFYR KGA KFHL
KGR KJR KOA KPO KPRC KSD
KSTP WAPI WBAP WBEW WCSH
WDAF WDAY WEAF WECB WEEI
WFBR WFI WFLA WGY WHO WIBA
WIOD WIS WJAR WJDX WKY
WMAQ WMC WOAI WOC WOW
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 KFSB KFYR KGO KGW
KOA KOMO KPRC KSD KSTP
KTBS WAPI WBAP WBEW WCAE
WCSH WDAF WEAF WBIC WFBR
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 KVOR WAAB WABC
WACO WADC WBCM WBCM WBIG
WBRC WBT WCAI WCAU WCCO
WDAE WDBI WDBO WDOD WDSU
WEAN WFBI WFBM WFEA WFSI
WHAS WHEC WIBW WICC WIP
WISN WJAS WJSV WKBH WKWB
WLWB WLWZ WMT WNAX WNOX
WODX WOKO WORC WOWO WQAM
WREC WSPD WTAR WTOC

SATURDAY—(Continued)

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

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Morton Downey
CFRB CKOK KFH KLRA KLZ
KMBC KSCJ KSL KTRH KTS
KVOR WAAB WABC WADC WBBM
WBCM WBIG WBT WCAO WCAU
WCCO WDAE WDBO WDFC
WDSU WEAN WFBM WFLA WHEC
WICG WJAS WJSV WKWB WLWB
WLBZ WMBD WNAK WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAR WTOC WVA

E-10:15 p.m., C-9:15, M-8:15, P-7:15
C — Public Affairs Institute
KFH KLZ KSCJ KTRH KTS
KVOR WAAB WABC WADC WBBM
WBCM WBIG WBT WCAO WCAU
WCCO WDAE WDBO WDFC
WDSU WEAN WFBM WFLA WHEC
WICG WJAS WJSV WKWB WLWB
WLBZ WMBD WNAK WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAR WTOC WVA

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Guy Lombardo and Orchestra
CFRB CKOK KFAB KLZ KSCJ KSL
KTRH KVOR WAAB WABC WADC
WBCM WBRB WBT WCAO WCAU
WCCO WDAE WDBO WDFC
WDSU WEAN WFBM WFLA WHEC
WICG WJAS WJSV WKWB WLWB
WLBZ WMBD WNAK WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAR WTOC WVA

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

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

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Harold Stern and Orchestra
CFRB CKOK KFAB KLZ KSCJ KSL
KTRH KVOR WAAB WABC WADC
WBCM WBRB WBT WCAO WCAU
WCCO WDAE WDBO WDFC
WDSU WEAN WFBM WFLA WHEC
WICG WJAS WJSV WKWB WLWB
WLBZ WMBD WNAK WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAR WTOC WVA

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R — Ted Weems and Orchestra
KDYL KFSO KFYR KGA KGHL
KJR KOA KPO KPRC KSD KSTP
KTAR KTBS WCAE WCKY WDAF
WDAY WEAF WFAA WFRB WFI
WGY WHO WIBA WJOD WJAR
WJAX WMAQ WMC WOAI WOC
WRC WSB WSMB WTAG WTAM
WVNC

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-12:00 p.m., C-11:00, M-10:00, P-9:00
R — Vincent Lopez and Orchestra
KDYL KEX KFYR KGA KJR KPO
KPRC KSD KSTP KTBS KVOO
WBN WCAE WCKY WDAF WEAF
WEBC WFRB WFI WFLA WHO
WIBA WJOD WJAR WJAX WBY
WMC WOAI WOC WSB WSBM
WTAG WTAM WVNC

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R — Vincent Lopez and Orchestra
KDYL KEX KFYR KGA KJR KPO
KPRC KSD KSTP KTBS KVOO
WBN WCAE WCKY WDAF WEAF
WEBC WFRB WFI WFLA WHO
WIBA WJOD WJAR WJAX WBY
WMC WOAI WOC WSB WSBM
WTAG WTAM WVNC

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R — Vincent Lopez and Orchestra
KDYL KEX KFYR KGA KJR KPO
KPRC KSD KSTP KTBS KVOO
WBN WCAE WCKY WDAF WEAF
WEBC WFRB WFI WFLA WHO
WIBA WJOD WJAR WJAX WBY
WMC WOAI WOC WSB WSBM
WTAG WTAM WVNC

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R — Vincent Lopez and Orchestra
KDYL KEX KFYR KGA KJR KPO
KPRC KSD KSTP KTBS KVOO
WBN WCAE WCKY WDAF WEAF
WEBC WFRB WFI WFLA WHO
WIBA WJOD WJAR WJAX WBY
WMC WOAI WOC WSB WSBM
WTAG WTAM WVNC

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R — Vincent Lopez and Orchestra
KDYL KEX KFYR KGA KJR KPO
KPRC KSD KSTP KTBS KVOO
WBN WCAE WCKY WDAF WEAF
WEBC WFRB WFI WFLA WHO
WIBA WJOD WJAR WJAX WBY
WMC WOAI WOC WSB WSBM
WTAG WTAM WVNC

SUNDAY

E-11:15 a.m., C-10:15, M-9:15, P-8:15
R — Major Bowes' Family
KDYL KEX KFSO KFYR KGA KJR
KOA KPO KPRC KVOD WBP
WDAF WDAY WEAF WFRB WFLA
WGY WHO WJOD WJAR WJAX
WKY WMC WOC WRC WSM WSMB
WTAG WTAM WTMJ WWJ WVNC

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C — Salt Lake Tabernacle Choir
CFRB CKOK KFAB KLZ KSCJ KSL
KTRH KTS KVOR WAAB WABC
WADC WBCM WBIG WBT WCAO
WCAU WCCO WDAE WDBO WDFC
WDSU WEAN WFBM WFLA WHEC
WICG WJAS WJSV WKWB WLWB
WLBZ WMBD WNAK WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAR WTOC WVA

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

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 WFRB 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 KFAB KLZ KMBC
KSCJ KSL KTRH KTS KVOR
WABC WADC WBCM WBIG WBT
WCAO WCCO WDAE WDBO WDFC
WDSU WGR WHEC WIK WKY
WISN WJAS WJSV WKWB WBN
WLWB WLBZ WMBD WNAK WODX
WOKO WPG WQAM WSJS WSPD
WTAQ WTAR WTOC WVA

E-1:00 p.m., C-12:00, M-11:00, P-10:00
C — Freddie Rich's Orchestra
CFRB CKOK KFAB KLZ KMBC
KSCJ KTRH KTS KVOR WAAB
WABC WADC WBCM WBD WDC
WCAU WCCO WDAE WDBJ WDFC
WDRS WDSU WFBL WFSM WGR
WGST WHEC WIK WISN WJAS
WKHB WLBN WLWB WMT WNOX
WODX WOKO WPG WQAM WREC
WSPA WSJS WSPD WTAQ WVA

E-1:00 p.m., C-12:00, M-11:00, P-10:00
C — Freddie Rich's Orchestra
CFRB CKOK KFAB KLZ KMBC
KSCJ KTRH KTS KVOR WAAB
WABC WADC WBCM WBD WDC
WCAU WCCO WDAE WDBJ WDFC
WDRS WDSU WFBL WFSM WGR
WGST WHEC WIK WISN WJAS
WKHB WLBN WLWB WMT WNOX
WODX WOKO WPG WQAM WREC
WSPA WSJS WSPD WTAQ WVA

E-1:15 p.m., C-12:15, M-11:15, P-10:15
C — Little Jack Little
CFRB CKOK KLZ KMBC KSCJ
KTRH KTS KVOR WAAB WABC
WADC WBCM WDC WDAE WDBJ
WDFC WDRS WDSU WFBL WFBM
WGR WGST WHEC WJAS WKHB
WLWB WLBZ WMT WNOX WODX
WOKO WPG WQAM WREC WSJS
WSPD WTAQ WVA

E-1:15 p.m., C-12:15, M-11:15, P-10:15
C — Little Jack Little
CFRB CKOK KLZ KMBC KSCJ
KTRH KTS KVOR WAAB WABC
WADC WBCM WDC WDAE WDBJ
WDFC WDRS WDSU WFBL WFBM
WGR WGST WHEC WJAS WKHB
WLWB WLBZ WMT WNOX WODX
WOKO WPG WQAM WREC WSJS
WSPD WTAQ WVA

E-1:15 p.m., C-12:15, M-11:15, P-10:15
C — Little Jack Little
CFRB CKOK KLZ KMBC KSCJ
KTRH KTS KVOR WAAB WABC
WADC WBCM WDC WDAE WDBJ
WDFC WDRS WDSU WFBL WFBM
WGR WGST WHEC WJAS WKHB
WLWB WLBZ WMT WNOX WODX
WOKO WPG WQAM WREC WSJS
WSPD WTAQ WVA

SUNDAY

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
KTS KVOR WAAB WABC WADC
WBCM WBIG WCAO WCCO WDAE
WDBO WDFC WDRS WDSU WGR
WHEC WIK WISN WJAS WKHB
WLBN WLWB WNAK WODX WOKO
WPG WQAM WSBT WSJS WSPD
WTAQ WTAR WTOC WVA

E-2:00 p.m., C-1:00, M-12:00, P-11:00
C — Smiling Ed McConnell
CFRB CKOK KFAB KLZ KSCJ KSL
KTRH KVOR WAAB WABC WADC
WBCM WBIG WCAO WCCO WDAE
WDBO WDFC WDRS WDSU WGR
WHEC WIK WISN WJAS WKHB
WLBN WLWB WNAK WODX WOKO
WPG WQAM WSBT WSJS WSPD
WTAQ WTAR WTOC WVA

E-2:00 p.m., C-1:00, M-12:00, P-11:00
C — Smiling Ed McConnell
CFRB CKOK KFAB KLZ KSCJ KSL
KTRH KVOR WAAB WABC WADC
WBCM WBIG WCAO WCCO WDAE
WDBO WDFC WDRS WDSU WGR
WHEC WIK WISN WJAS WKHB
WLBN WLWB WNAK WODX WOKO
WPG WQAM WSBT WSJS WSPD
WTAQ WTAR WTOC WVA

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

SUNDAY—(Continued)

WBIG WBT WCAH WCAO WCAU WDAE WDBJ WDOJ WDHC WDSU WFBM WGR WGST WHEC WHIK WHP WISN WJAS WKBH WKBN WLWB WLWB WMBD WMT WNOX WODX WOKO WORC WQAM WREX WSBT WSPA WSJS WSPD WTAQ WTOG WWVA

R — Clyde Deorr's Saxophone Octet
CFPC CKGW KFI KFSB KGO KGW KHQ KOA KOMO KPRC KSD KTBS KYW WAPI WBEN WCAE WCKY WCSH WDAF WFAA WFBM WFLA WGY WIOD WIS WJAR WJAX WJDX WKY WMC WOAI WOW WRC WRVA WSM WSBM WSTB WTAG WTAM WWJ WWNC

E-2:30 p.m., C-1:30, M-12:30, P-11:30
R — Moonshine and Honeysuckle
CFPC CKGW WCAE WCKY WCSH WDAF WFAA WFBM WFLA WGY WHO WJAR WMAQ WOC WOV WRC WTAG WTAM WWJ

B — Yeast Foamers
KDKA KDYL KFI KFSB KFYR KGHK KGRK KGO KGW KHQ KOA KOIL KOMO KPRC KSO KSTP KTAR KTHS KVOO KWCR KWK KYW WAPI WBAL WBZ WBAZ WDAY WDBC WFAA WFLA WGAR WHAM WBA WOD WIS WJAX WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSMB WTMJ WWNC

C — Victor Arden-Harry Rose
CKOK KMBC KMOX WABC WBBM WCAO WCAU WGR WHEC WHIK WJAS WJSV WKRC WNAC WOKO WOV

E-3:00 p.m., C-2:00, M-1:00, P-12:00
C — N. Y. Philharmonic Orchestra
CFRB CKOK KTAB KFH KLZ KMBC KRLD KSCJ KSL KTRH KVOA WAAB WABC WADC WBCM WBIG WBRW WBT WCAO WCO WDAE WDBO WDOB WDRS WDSU WFAN WFBM WFEA WHEC WHK WIBW WIGG WIP WISN WJAS WJSV WKBH WKBN WKWB WLWB WLWB WMBD WODX WOKO WORC WQAM WSBT WSPA WSJS WSPD WTAQ WTAR WTOG WWVA

R — Wayne King and Orchestra
KDYL KFI KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTBS KTHS KVOO KYW WBEN WCAE WCKY WCSH WDAF WFAA WFBM WFLA WGY WHO WJAR WKY WJAX WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ

B — Our American Music
KOIL KWCR KWK WBAL WFLA WGAR WIOD WJAX WJZ WMAQ WREN WRVA WSB WSM WSBM WWNC

E-3:30 p.m., C-2:30, M-1:30, P-12:30
R — Dr. S. Parkes Cadman
KDYL KFSB KFYR KGHK KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTHS KVOO WBEN WCAE WCSH WDAF WDAY WFAA WFBM WFLA WGY WHO WJAR WKY WJAX WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ

B — Manhattan Merry-Go-Round
KDKA KOIL KWCR KWK KYW WBAL WBZ WBZA WHAM WJZ WREN

E-4:00 p.m., C-3:00, M-2:00, P-1:00
— Father Coughlin
KMOX KSTP KYW WCAO WCAU WDRC WEAN WFBL WFEA WGR WGR WHB WICC WJAS WJR WLWB WLW WMT WNAC WNBH WOC WOL WOKO WOR WORC
B — Temple of Song
CFPC KDKA KFI KFSB KFYR KGHK KGO KGW KOA KOIL KSO KSTP KTHS KWCR KWK WBAL WBZ WBZA WCKY WECB WGR WHAM WIBA WIOD WIS WJAX WJR WJZ WKY WMAQ WMC WREN WLVA WSB WSM WSBM WWNC

E-4:15 p.m., C-3:15, M-2:15, P-1:15
R — Wildroot—Vee Lahnurst
KDYL KFI KGO KGW KHQ KOA KOMO WBEN WCAE WCSH WDAF WFAA WFBM WFLA WGY WJAR WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ

E-4:30 p.m., C-3:30, M-2:30, P-1:30
R — Squibb's Program
WBEN WCAE WCSH WDAF WFAA WFBM WFLA WGY WHO WJAR WMAQ WOC WOV WRC WTAG WTAM WWJ

B — National Youth Conference
KDYL KFSB KFYR KGHK KGO KGW KHQ KOA KOIL KOMO KPRC KSO KSTP KTAR KVOO KWCR KWK WAPI WBAL WBZ WBZA WDAY WDBC WFAA WFLA WGAR WHAM WBA WOD WIS WJAX WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ

E-5:00 p.m., C-4:00, M-3:00, P-2:00
C — Roses and Drums
CKOK KMBC KMOX KRLD WAAB WABC WADC WCAO WCO WDSU WGN WGR WHAS WHK WJAS WJSV WKRC

R — Lowell Thomas
WBEN WCAE WFAA WFBM WFLA WGY WJAR WRC WSAI WTAG WTAM WWJ

B — National Vespers
KFSB KFYR KGHK KGO KGW KHQ KOA KOIL KOMO KPRC KSO KTAR KTBS KWCR KWK WAPI WBAL WBAP WBZ WBZA WECB WFLA WGAR WIOD WIS WJAX WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSBM WWNC

E-5:15 p.m., C-4:15, M-3:15, P-2:15
R — Big Ben's Dream Dramas
WBEN WCAE WCSH WFAA WFBM WFLA WGY WHO WJAR WMAQ WRC WSAI WTAG WTAM WWJ

E-5:30 p.m., C-4:30, M-3:30, P-2:30
C — Blue Coal Musical Revue
WAAB WABC WCAO WCAU WDRC WEAH WFBL WGR WHEC WHP WOKO

B — Pages of Romance, Drama
KDKA KOIL KSO KWCR KWK KYW WBAL WBZ WBZA WJAR WJR WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ

B — Josef Koestner's Orchestra
KDYL KFI KFYR KGHK KGRK KGO KGW KHQ KOA KOMO KPRC KSO KSTP KTAR KTBS KVOO WAPI WBAP WDAF WDAY WECB WIBA WJAX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ

R — Swift Garden Program
CHGW KSD WBEN WCAE WCSH WDAF WFAA WFBM WFLA WGY WHO WJAR WMAQ WRC WSAI WTAG WTAM WWJ

WGY WHO WJAR WMAQ WOC WOV WRC WSAI WTAG WTAM WWJ

E-6:00 p.m., C-5:00, M-4:00, P-3:00
R — Catholic Hour
KDYL KEX KFYR KGHK KGRK KJR KOA KPRC KSD KTAR KTBS KVOO WAPI WBAP WBEN WCAE WCKY WCSH WDAF WDAY WFAA WFBM WFLA WGY WHO WJAR WIOD WIS WJAX WJDX WJZ WJZY WJZW WMC WOAI WOV WRC WRVA WSAI WSB WSM WSBM WTAG WTAM WWJ WWNC
B — Josef Koestner's Orchestra
KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WCKY WENR WGR WHAM WJR WJZ WREN

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C — Cathedral Hour
CFRB CKOK KFH KLZ KMBC KRLD KSCJ KSL KVOA WAAB WABC WADC WBCM WCBM WBIG WBRW WBT WCAO WCAU WCO WDAE WDOB WDOB WDRS WDSU WFBM WFEA WHEC WIBW WICC WISN WJAS WJSV WKBH WKBN WKWB WLWB WLWB WMAX WOKO WORC WQAM WSBT WSPA WSJS WSPD WTAR WTOG WWVA

R — Our American Schools
KDYL KECA KEX KFSB KFYR KGA KOA KPO KPRC KSD KSTP KTBS KVOO WBAP WBEN WCAE WCSH WDAY WFAA WFBM WFLA WGY WHO WJAR WKY WJAX WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ WWNC

B — Paul Whiteeman's Rhythmic Concert
CFPC CKGW KOIL KSO KWCR KWK WBAL WBZ WBZA WCKY WGR WHAM WJR WJZ WREN

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — World's Business Dr. Klein
KFH KLZ KMBC KRLD KSCJ KSL KTRH KVOA WABC WACO WADC WBCM WBIG WBLD WBT WCAO WCO WDAE WDOB WDOB WDRS WDSU WEAN WFAM WFBM WFEA WGR WHEC WIBW WICC WIP WISN WJAS WJSV WKBH WKBN WLWB WLWB WJAX WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ

R — Borrah Minevitch, Harmonica
KDYL KFI KFSB KFYR KGO KGW KOA KPRC KTBS KVOO WBEN WCAE WCKY WDAF WDAY WFAA WFBM WFLA WGY WJAR WIOD WIS WJAX WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ WWNC

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Walter Smith and Concert Band
CKOK KFH KLZ KMBC KRLD KSCJ KSL KTRH KVOA WABC WADC WBCM WBIG WBRW WBT WCAO WCO WDAE WDOB WDOB WDRS WDSU WEAN WFAM WFBM WFEA WGR WHEC WIBW WICC WIP WJSV WKBN WKWB WLWB WLWB WJAX WJDX WJZ WJZY WJZW WMC WOAI WPTF WREN WRVA WSB WSM WSTB WTAG WTAM WWJ

R — Wheatenaville, See Monday

SUNDAY—(Continued)

E-7:30 p.m., C-6:30, M-5:30, P-4:30
R—James Melton, Tenor
 CFCE KSD WBN WCAE WKGY
 WDAF WEAF WFRB WGY WHO
 WJAR WMAQ WOC WSAI WTAG
 WWJ

K—Great Moments in History
 BKKA KDYL KFI KFSJ KFYR
 KGO KGW KHQ KOA KOIL KOMO
 KPRC KSTP KTAR KVOO KWCR
 KWK WBAL WBZ WBZA WDAY
 WEEB WFPA WFAX WGBR WHAM
 WIBA WIOD WJAZ WJDX WJW
 WJZ WKY WLS WLW WMC WOAI
 WPTF WREN WRVA WSB WSM
 WSMB WTMJ WWNC

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C—Angelo Patri, Your Child
 CKOK KMBC KMOX WABC WCAO
 WCAU WCCO WFBL WGN WGR
 WHAS WHK WJAS WJSV WKRC
 WNAC

R—Trade and Mark
 KSD WFBN WCAE WDAF WEAF
 WFBR WGY WJAR WMAQ WRC
 WSAI WTAG WTAM WWJ

E-8:00 p.m., C-7:00, M-6:00, P-5:00
R—Chase and Sanborn—Eddie Cantor
 CFCE CKGW KDYL KFI KFSJ
 KFYR KGO KGW KHQ KOA KOMO
 KPRC KSD KSTP KATR KVOO
 WBNB WCAE WCSI WDAF WDAY
 WDAF WEBC WFAX WFRB WFLA
 WGY WHO WIOD WIS WJAR WJDX
 WKY WLIT WLW WMAQ WMC
 WOAI WOC WOW WRC WSB WSM
 WSMB WTAG WTAM WTTT WTMJ
 WWJ WWNC

C—John Henry-River Giant
 CKOK KLRA KLZ KMBC KRLL
 KSCJ KSL KTRH KTSa KVOR
 WABC WACO WADC WBBM WBCM
 WBRC WBT WCAH WCAO WCCO
 WDAE WDBJ WDOD WDRC WDSU
 WFBL WFBM WFEA WGR WGST
 WHEC WHK WHP WISN WJAS
 WKBB WLWB WLWZ WNAX WNOX
 WOKO WORC WREC WSFA WSJS
 WSPD WWVA

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C—Andre Kostelanetz Presents
 CKOK KLZ KMBC KMOX KRLL
 KSCJ KSL KTRH KTSa KVOR
 WABC WADC WBBM WBCM WBRC
 WBT WCAO WCAU WCCO WDAE
 WDBO WDOD WDRC WDSU WEAN
 WFBM WFEA WGR WHEC WHK
 WHP WISN WJAS WJWB
 WLWB WLWZ WNAC WNAX WOKO
 WORC WSBT WSFA WSJS WSPD
 WTAR WTOC WWVA

E-8:30 p.m., C-7:30, M-6:30, P-5:30
B—Symphonic Marimba Orchestra
 KDKA KOIL KSO KWCR WBAL
 WCKY WGAR WJZ WLS WREN
 WSYR

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C—John Henry—River Giant
 CKOK KLRA KLZ KMBC KRLL
 KSCJ KSL KTRH KTSa KVOR
 WABC WADC WBBM WBCM WDAE
 WDBJ WDOD WDRC WDSU WFBL
 WFBM WFEA WGR WGST WHEC
 WHK WHP WISN WJAS WKBB
 WLWB WLWZ WNAX WNOX
 WOKO WORC WREC WSFA WSJS
 WSPD

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C—Fred Allen's Bath Club
 CKOK KIBN KERN KFBK KFPY
 KPRC KGB KHJ KLRA KLZ KMBC
 KMJ KMOX KOIN KOL KOMA KSCJ
 KSL KVI KWG WABC WADC WBT
 WCAH WCAO WCAU WCCO WDAE
 WDBO WDOD WDRC WDSU WEAN
 WFBL WFBM WGN WGR WGST
 WHAS WHEC WHK WISN WJAS
 WJSV WKRC WLAC WMT WNAC
 WOKO WORC WOWO WQAM WREC
 WSPD WTAR

R—General Electric Concert
 KDYL KFI KFSJ KFYR KGO KGW
 KHQ KOA KOMO KPRC KSD KSTP
 KTAR KTBS KTHS WAPI WBNB
 WCAE WCSI WDAF WDAY WEAF
 WEBC WENR WFPA WFBR WFI
 WFLA WGY WHO WIBA WIS WJAR
 WJAX WJDX WKY WOAI WOC
 WOW WTC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WTMJ WWJ
 WWNC

B—Warden Lawes—Sing Sing
 KDKA KOIL KSO KWCR KWK
 KYW WBAL WBZ WBZA WGAR
 WHAM WJR WJZ WLW WREN

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C—Pennzoil Parade
 CKOK KLRA KMBC KMOX KOMA
 KTSa WABC WADC WBRC WBT
 WCAO WCAU WCCO WDRC WEAN
 WFBL WGN WGR WGST WHAS
 WHEC WJAS WJSV WKRC WLAC
 WLWZ WNAC WOKO WSPD

R—Album of Familiar Music
 KDYL KFI KGO KGW KHQ KOA
 KOMO KPRC KSD KSTP KTHS
 WAPI WBNB WCAE WCKY WCSI
 WEAF WENR WFPA WFBR WFI
 WFLA WGY WHO WIOD WJAR
 WJAX WJDX WKY WMC WOAI
 WOC WOW WRC WRVA WSAI WSB
 WSM WSMB WTAG WTAM WTMJ
 WWJ

B—Walter Winchell
 KDKA KOIL KSO KWCR KWK
 KYW WBAL WBZ WBZA WGAR
 WHAM WJR WJZ WLW WREN

E-10:00 p.m., C-9:00, M-8:00, P-7:00
B—D. W. Griffith, See Wednesday
C—Ernest Hutcheson, Pianist
 CFBE CKOK KPH KLRA KLZ
 KMBC KSCJ KTRH KTSa KVOR
 WAAB WABC WADC WBBM WBCM
 WBIG WBT WCAH WCAO WCAU
 WCCO WDAE WDBJ WDOD WDRC
 WDSU WFBL WFBM WFEA WGR
 WGST WHC WHK WHP WISN
 WJAS WKBN WLBW WLWZ WODX
 WMBD WMT WNAX WNOX WODX
 WOKO WORC WPG WQAM WREC
 WSBT WSJS WSPD WTOC

R—David Lawrence
 KDYL KFI KFSJ KFYR KGO KGW
 KHQ KOA KOMO KPRC KSTP
 KTBS WBNB WCAE WCKY WCSI
 WDAF WDAY WEAF WEBC WEET
 WFBR WFI WFLA WGY WHO WIBA
 WIOD WIS WJAR WJAX WKY WMC
 WOAI WOC WRC WSAI WSM WSMB
 WTAG WTAM WTTT WWJ WWNC

E-10:15 p.m., C-9:15, M-8:15, P-7:15
B—Vincent Lopez; Pratt-Sherman
 KDKA KDYL KFI KGO KGW KHQ
 KOA KOIL KOMO KPRC KSTP
 KTHS KWK WBAL WBPB WBZ
 WBZA WGAR WIBA WJDX WJR
 WJZ WKY WLW WMAQ WOAI
 WREN WSB WSAI WSMB WTMJ

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C—Foreign Legion
 CFBR CKOK KPH KLRA KLZ
 KMBC KSCJ KTRH KTSa KVOR
 WAAB WABC WADC WBBM WBCM
 WBIG WBRC WBT WCAH WCAO
 WCAU WCCO WDAE WDBJ WDOD
 WDRC WDSU WFBL WFBM WFEA
 WGR WGST WHEC WHK WHP
 WISN WJAS WKBN WLBW WLWZ
 WMBD WMT WNAX WNOX WODX
 WOKO WORC WPG WQAM WREC
 WSBT WSJS WSPD WTOC

E-10:45 p.m., C-9:45, M-8:45, P-7:45
R—Sunday at Seth Parker's
 CFCE CKGW KDYL KFSJ KFYR
 KGHL KGHR KGO KGW KHQ KOA
 KPRC KSTP KTAR KTBS KTHS
 KYW WAPI WBPB WBNB WCAE
 WCKY WCSI WDAF WDAY WEAF
 WEBC WEEI WFBR WFI WFLA
 WGY WHO WIBA WIOD WIS WJAR
 WJAX WJDX WMC WOAI WOC
 WOW WRC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WTMJ WWJ
 WWNC

B—Orange Lantern, Mystery Drama
 KDKA KSO KWCR KWK WBAL
 WGAR WHAM WJZ WREN

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C—The Gauchos
 CKOK KFAB KPH KLZ KSCJ KTRH
 KVOR WAAB WABC WADC WBCM
 WBRC WBT WCAO WDAE WDBO
 WDOD WHC WDSU WEAN WFAN
 WFBM WGR WHEC WHB WVIC
 WIP WISN WJAS WJWB
 WLWB WLWZ WMBD WNAX WODX
 WOKO WPG WQAM WSJS WSPD
 WTAR WTOC

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C—Isham Jones and Orchestra
 CFBR KTRH WABC WADC WBCM
 WBRC WBT WCAO WCAU WCCO
 WDAE WDBO WDOD WHC WDSU
 WEAN WGR WICC WISN WJSV
 WKBN WLWB WNAC WOKO WPG
 WQAM WSBT WSJS WSPD WTAR
 WTOC

R—Melodic Serenade
 KDYL KFSJ KFYR KGHL KGO
 KHQ KPRC KSTP KTAR KTBS
 WAPI WBPB WCAE WCSI WDAF
 WEAF WEBC WENR WFBR WFLA
 WGY WHO WIBA WIS WJAR WMC
 WOC WOW WRC WSB WSMB WTAG
 WTAM WTTT WWNC

B—Jesse Crawford, Organist
 KDKA KOIL KSO KWCR KYW
 WBAL WBZ WBZA WCKY WHAM
 WJZ WREN

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C—Ben Pollack and Orchestra
 CKOK KFAB KLZ KMBC KSCJ
 KTRH KVOR WABC WBRC WBT
 WCAU WCCO WDAE WDOD WEAN
 WGR WIBW WICC WISN WJSV
 WLWB WMBD WNAC WNAX
 WOKO WPG WSBT WSPD

B—William Steers and Orchestra
 KFYR KGHL KGO KGW KHQ KOA
 KOIL KOMO KPRC KSTP KTBS
 KWCR KWK WBZ WBZA WDAY
 WEBC WENR WFLA WGR WHAM
 WBA WIOD WIS WJR WJZ WKY
 WLW WMC WREN WSB WSM
 WSMB WWNC

R—Joe Furst and Orchestra
 WCAE WEAF WFBR WGY WJAR
 WOW WTAM WTTT

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.
Cosare Sodero, 11:30 p.m., Wed. and Thurs., B.
Symphony Concert, 9:00 p.m., Wednesday, R.
Symphonic 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 Benny, 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.
Isham Jones, 11:30 p.m., Sun., Tues., Wed. and Thurs., C.
Len Joy, 9:30 p.m., Thursday, B.
Anson King, 8:00 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 Robinson, 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 McAllen, 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.
Octavius 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.
Run 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.
Soenlyand Sketches, 8:00 p.m., Monday, R.
Sprybl's, 4:30 p.m., Sunday, R.
Wheatonville, 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.
Olman 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.
Cliequot 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, 5:30 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, R.
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.
Penzoil Parade, 9:30 p.m., Sunday, C.
Poet's Gold, 2:15 p.m., Sunday, C.
Pont's Program, 9:30 p.m., Friday, R.
Roxey's Gang, 12:15 p.m., Sunday, B.
Royal Vagabonds, 8:00 p.m., Wednesday, R.
Andy Snella, 6:45 p.m., Wednesday, R.
Sinclair Minstrels, 9:00 p.m., Monday, B.
Supper Club, 12 mid., Saturday, B.
Swifts' 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.
 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

Iomay 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 Carlile, 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 DeLeuth, 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.
 Jeannie 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 Robinson, 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.
 Singin' 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.
 Tastyeast 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.
 Sigmond Spaeth, 10:00 p.m., Tuesday, B.
 Lowell Thomas, 6:15 p.m., daily, ex. Sat. and Sun., B; 5:00 p.m., Sunday, R.
 Merle Thorpe, 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	B National "Blue" network.	P Has construction permit only.
a Verifies reception for return postage.	C Columbia network.	Q Great Lakes network.
b Verifies only occasionally.	D Daytime only.	R National "Red" network.
c Does not verify.	Dn Daytime with occasional evening hours.	S Sunday only.
d Verification 10c; letter 25c.	E Trans-Canada network.	T Don Lee System.
e Sends Ekko stamp for 10c.	F Canadian National Railways network.	U Dixie network.
f Sends Ekko stamp for 5c.	G All Canadian networks.	V Maritime Broadcasting network.
g Sends Ekko stamp for postage.	H Yankee network.	W Curtis-Indiana network.
h Sends own station stamp for 10c.	I Orange and gold network.	X Has permit to increase power.
i Sends own station stamp for 5c.	J Mexican networks.	Y Has permit to change location.
j Sends own station stamp for postage.	L Canadian Pacific Ry. network (Dominion).	Z Has permit to change frequency.
k Has no stamps.	M Canadian Radio Corp. network.	a-b-c. Small letters show stations using same transmitter.
z No information available.	N National "Red" and "Blue" networks.	1-2-3. Figures denote stations sharing time.
Fourth Column Symbols		..... No information.
A These stations are synchronized.		

INDEX BY FREQUENCIES AND DIAL NUMBERS

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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.
XEY	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.
WIBO	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.
WEAO	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.
WNAJ	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 Brodcastg 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

CJGC	ae	5000	595GZ	London, Ont.	Free Press Printing Co., Ltd.
KHQ	ak	1000	N(2)	Spokane, Wash.	Louis Wasmer, Inc.
WEAJ	ae	500	1	Lincoln, Neb.	Nebraska Wesleyan University
WCAI	ak	1000	R	Boston, Mass.	Edison Electric Illuminating Co.
WKZO	ae	1000	D	Kalamazoo, Mich.	WKZO, Inc., Burdick Hotel
WOW	ae	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.
KFSD	ah	1000	N	San Diego, Calif.
WCAC	ah	250	Z	Storrs, Conn.
WCAO	ae	250	C	Baltimore, Md.
WICC	ae	250	C	Bridgeport, Conn.
WMT	ak	500	2H(.5)C	Waterloo, Iowa
WREC	z	500	C(1)	Memphis, Tenn.

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

KCY.S.
680
MTRS.
440.9
DIAL

610 kilocycles 491.5 meters

KFRC	ae	1000	C	San Francisco, Calif.
WDAF	ae	1000	R	Kansas City, Mo.
WIP	ak	500	C	Philadelphia, Pa.
WJAY	ae	500	D	Cleveland, Ohio
XETR	z	1000	.....	Mexico City, Mexico

Don Lee Broadcasting System
Kansas City Star Co.
Pennsylvania Bdctg. Co. (WFAN)
Cleveland Radio Broadcasting Corp.
Cia. Difusora Mexicana S. A.

620 kilocycles 483.6 meters

KGW	ae	1000	N	Portland, Ore.
KTAR	ae	500	NJ(1)	Phoenix, Ariz.
WFLA	ae	1000	Na(2.5)	Clearwater, Fla.
WLBS	ak	500	C	Bangor, Maine
WSUN	ae	1000	Na(2.5)	St. Petersburg, Fla.
WTMJ	ae	1000	N(2.5)	Milwaukee, Wis.

Oregonian Publishing Co.
KTAR Broadcasting Co.
Florida West Coast Bdctg. Co., Inc.
Maine Broadcasting Co., Inc.
Florida West Coast Bdctg. Co., Inc.
Journal Company

630 kilocycles 475.9 meters

CFCT	ae	500	G	Victoria, B. C.
CJGX	ae	500	FL	Yorkton, Sask.
CKOK	ae	1000	635aG	Hamilton, Ont.
CKTB	ae	1000	635aL	St. Catharines, Ont.
CMCU	z	150	.....	Havana, Cuba
CMQ	z	250	.....	Havana, Cuba
CNRA	ae	700	F	Moncton, N. B.
HIX	ah	1000	.....	Santo Domingo, D. R.
KFRU	ak	500	D	Columbia, Mo.
KGFX	z	200	1	Pierre, S. D.
WGFB	ae	500	W-1	Evansville, Ind.
WMAL	ae	250	(.5)-B	Washington, D. C.
WOS	ak	500	1D	Jefferson City, Mo.
XETF	ak	500	K	Veracruz, Ver., Mexico
XFG	z	2000	638.3	Mexico City, Mexico

Victoria Broadcasting Assn.
Winnipeg Grain Exchange
Wentworth Radio Bdctg. Co., Ltd.
Wentworth Radio Bdctg. Co., Ltd.
Jorge Garcia Serra
Jose Fernandez
Canadian National Railways
The Dominican Government
KFRU, Inc.
Dana McNeil
Evansville On the Air, Inc.
M. A. Leese Radio Corp., Inc.
Missouri State Marketing Bureau
Manuel Angel Fernandez
Sria. de Guerra y Marina

640 kilocycles 468.5 meters

CHRC	ak	100	645aG	Quebec, Que.
CKCI	ck	100	645a	Quebec, Que.
CKCR	ak	100	645G	Waterloo, Ont.
KFI	ah	50000	N1	Los Angeles, Calif.
WAIU	ae	500	1	Columbus, Ohio
WOI	ae	5000	D	Ames, Iowa

CHRC, Ltd., Victoria Hotel
Le Soleil, Ltd.
Mitchell & Liddle
Earl C. Anthony, Inc.
Associated Radiocasting Corp.
State College of Agriculture

650 kilocycles 461.3 meters

KPCB	ae	100	.....	Seattle, Wash.
WSM	aej	50000	N	Nashville, Tenn.

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

660 kilocycles 454.3 meters

CHWK	ak	100	665	Chilliwack, B. C.
CJRM	z	500	665	Moose Jaw, Sask.
CJRW	z	1000	665	Fleming, Sask.
RUS	z	500	664	Salvador
WAAW	agh	500	D	Omaha, Neb.
WEAF	ak	50000	R	New York City

Chilliwack Broadcasting Co., Ltd.
Jas. Richardson & Sons, Ltd.
Jas. Richardson & Sons, Ltd.
Republic of El Salvador
Omaha Grain Exchange
National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

WMAQ	ae	5000	N	Chicago, Ill.
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WMAQ, Inc. (NBC Lessees)

680 kilocycles 440.9 meters

CMAF	ak	1000	Havana, Cuba
KFEQ	ae	2500	D	St. Joseph, Mo.
KPO	ak	5000	N	San Francisco, Calif.
WPTF	ae	1000	N Dn	Raleigh, N. C.

International Broadcasting Co.
Scroggin & Co., Bank
National Broadcasting Co., Inc.
Durham Life Insurance Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

690 kilocycles 434.5 meters

CFAC	ak	500	1G	Calgary, Alta.
CFRB	ae	10000	CM	Toronto, Ont.
CFCJ	ak	500	1LE	Calgary, Alta.
NAA	z	1000	Arlington, Va.
VAS	z	2000	685(4)	Glace Bay, N. S.
XET	ck	500	Monterrey, Mexico

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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

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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	Sa	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	aeH	3150	Havana, Cuba
XEF-XER	z	75000	735-665	Villa Acuna, Mexico

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W. G. Hassell (Province Bldg.)
 Northern Electric Co., Ltd.
 La Presse Publishing Co., Ltd.
 Vancouver Daily Province
 United Church of Canada
 Sprout-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	aeH	5000	N	Atlanta, Ga.
WHBB	ak	250	D	Portsmouth, N. H.

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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	aeH	5000	Juarez, Chih., Mexico

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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

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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.

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

780 kilocycles 384.4 meters

CKY	z	5000	.....	Winnipeg, Man.
CMBS	z	150	.....	Havana, Cuba
CMCQ	z	1000	.....	Havana, Cuba
KELW	aeH	500	2	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.
WPOR	aeH	500	b	Portsmouth, Va.
WTAR	aeH	500	b	Norfolk, Va.
XEP	z	1000	Mexico City

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Manitoba Telephone System
 Enrique Artalejo
 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	.....	Tuinucu, Cuba
CMJK	aeH	300	Camaguey, Cuba
KGO	ak	7500	N	San Francisco, Calif.
WGY	ak	50000	R	Schenectady, N. Y.

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

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 ak 50000 C Minneapolis, Minn.
 WPCB ak 500 D New York City
 XFC z 350 Aguascalientes, Mex.
 XFI z 1000 818 Mexico City, Mexico

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

KCY5.

890

MTRS.

336.9

DIAL

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.
 WHDH 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.
 CKLC ak 1000 G Red Deer, Alta.
 CMC z 500 Havana, Cuba
 CPHY 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
 WBQK 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.
 KXLX ae 500 Oakland, Calif.
 KPOF ae 500 2 Denver, Colo.
 WCOF 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 ak 250 Little Rock, Ark.
 KFNF 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

INDEX BY FREQUENCIES AND DIAL NUMBERS

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

970 kilocycles 309.1 meters

KJR	ae	5000	N	Seattle, Wash.
WCFL	ak	1500	RX	Chicago, Ill.

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Northwest Broadcasting System, Inc.
Chicago Federation of Labor

980 kilocycles 303.9 meters

CFCN	ak	10000	985FL	Calgary, Alberta
CMGF	z	100	987	Matanzas, Cuba
KDKA	ak	50000	B	Pittsburgh, Pa.

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The Voice of the Prairies, Ltd.
Bernabe R. de la Torre
Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

WBZ	ak	25000	BA	Boston, Mass.
WBZA	ak	1000	BA	Springfield, Mass.
XEK	z	101	Mexico City, Mexico

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Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
Arturo Martinez

1000 kilocycles 299.8 meters

KFVD	ak	250	Dn	Los Angeles, Calif.
WHO	z	5000	RAX	Des Moines, Iowa
WOC	ak	5000	RAX	Davenport, Iowa
WORK	aj	1000	D	York, Pa.
XEA	ak	100	.....	Guadalajara, Mexico
XEC	z	50	.....	Toluca, Mexico
XEFE	z	100	.....	N. Laredo, Tams., Mex.
XEFI	z	100	.....	Chihuahua, Mexico
XEFJ	z	100	.....	Monterrey, Mexico
XEFS	z	40	.....	Queretaro, Mexico
XEJ	ak	100	K	Juarez, Mexico
XEL	ak	10	Saltillo, Mexico
XETC	z	100	Jalapa, Ver., Mexico

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Los Angeles Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
York Broadcasting Co.
Radiofografica de Guadalajara, S.A.
Jesus R. Benavides
Rafael T. Carranza
Feliciano Lopez Islas
Rodolfo Junco de la Vega
Salvador Sanchez
Juan G. Buttner & Leo Allande
Antonio Garza Castro y J. T. Perez
Juventino Sanchez

KCYS.
1050
MTRS.
285.5
DIAL

1010 kilocycles 296.9 meters

CFCO	ak	250	.....	Chatham, Ont.
CKIC	ak	50	.....	Wolfville, N. S.
CMBZ	ak	150	.....	Havana, Cuba
CMCX	z	150	.....	Havana, Cuba
KGGF	ak	500	2(1)	Coffeyville, Kans.
KQW	ae	500	T	San Jose, Calif.
WHN	ae	250	1	New York City
WIS	ae	500	N(1)	Columbia, S. C.
WNAD	ae	500	2	Norman, Okla.
WPAP	ae	250	1a	New York City
WQAO	ae	250	1a	New York City
WRNY	z	250	1	New York City
XEU	ak	100	Veracruz, Mexico

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John Beardall (Wm. Pitt Hotel)
Acadia University
Manuel & Guillermo Salas
Diario "El Mundo"
Powell & Platz
Pacific Agricultural Foundation, Ltd.
Marcus Loew Booking Agency
WIS, Inc.
University of Oklahoma
Marcus Loew Booking Agency
Marcus Loew Booking Agency
Marcus Loew Booking Agency
Baltasat Pazos Sosa

1020 kilocycles 293.9 meters

KYW	ae	10000	N	Chicago, Ill.
WRAX	ae	250	D	Philadelphia, Pa.
XEFD	z	300	Tiajuana, Mex.

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Westinghouse Elec. & Mfg. Co. (KFKX)
WRAX Broadcasting Co.
Carlos de la Sierra

1030 kilocycles 291.1 meters

CFCF	ae	500	NG	Montreal, Que.
CMHI	ck	30	a	Santa Clara, Cuba
CMKC	z	150	1034a	Santiago de Cuba
CNRV	ak	500	Vancouver, B. C.
XEB	ak	1000	Mexico City, Mexico

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Canadian Marconi Co.
Laviz & Paz
Pinol Batlle y Co.
Canadian National Railways
El Buen Tono, S. A.

1040 kilocycles 288.3 meters

CMGH	z	15	.....	Matanzas, Cuba
KRLD	ae	10000	1C	Dallas, Tex.
KTHS	ak	10000	1N	Hot Springs, Ark.
WESG	ae	1000	D	Elmira, N. Y.
WKAR	ae	1000	D	East Lansing, Mich.

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O. y J. Alvarez
KRLD Radio Corp. (Adolphus Hotel)
Chamber of Commerce
WESG, Inc.
Michigan State College

1050 kilocycles 285.5 meters

CMJG	z	50	.....	Camaguey, Cuba
KFBI	ae	5000	Dn	Abilene, Kans.
KNX	ae	25000	X	Hollywood, Calif.
XEFC	z	10	Merida, Yuc.
XES	dk	250	1055K	Tampico, Mexico

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Jose Antonio Lefran
Farmers & Bankers Life Ins. Co.
Western Broadcast Co.
Hugo Molina Font
Difusora Portena

INDEX BY FREQUENCIES AND DIAL NUMBERS

1060 kilocycles 282.8 meters

KWJJ	z	500	Dn	Portland, Ore.
WBAL	ae	1000	1B	Baltimore, Md.
WJAG	ak	1000	Dn	Norfolk, Neb.
WTIC	ak	5000	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	275	.....	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	5000	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	2500	CU	Charlotte, N. C.
W CBD	ae	5000	1Dn	Zion, Ill.
WBMI	ck	5000	1Dn	Chicago, Ill.

Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX	ak	5000	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. Pepper
Missionary Society of St. Paul
Municipality of Atlantic City

1110 kilocycles 270.1 meters

CMJO	z	15	.....	Ciego de Avila, Cuba
KS00	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.
CMHJ	ae	40	1125	Cienfuegos, Cuba
KFIO	ae	100	D	Spokane, Wash.
KFSG	ak	500	a	Los Angeles, Calif.
KRRD	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	5000	C	Salt Lake City, Utah
WJJD	ze	2000	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 Bertematy 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.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WOWO ae 1000 1C Fort Wayne, Ind.
 WVVA ae 5000 1C Wheeling, W. Va.

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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.

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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.

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Rafael Rodriguez
 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 aeh 50000 N San Antonio, Texas
 VONF z 500 1195 St. John's, N. F.

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Southern Equipment Co.
 Dominion Brdctg. 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.
 KF XD ae 100 Nampa, Idaho
 KF XJ 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.
 WBBZ 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.
 WCOD 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.
 WIBX 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.
 WKJC ae 100 3 Lancaster, Pa.
 WLAP ae 100 (.25) Louisville, Ky.
 WNB0 aeh 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 aeh 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.

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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 Brdctg. 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.
 Limer's Broadcasting Station, Inc.
 KVOS, 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 Bcioit)
 Keystone Broadcasting Corp.
 South Bend Tribune (WSBT)
 News-Piedmont Co.
 Radio Station WFBE, Inc.
 Edward P. Graham
 WHBY, Inc.
 WIBX, 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.

KCY.S.
 1210
 MTRS.
 247.8
 DIAL

1210 kilocycles 247.8 meters

GFNB ae 100 E Fredericton, N. B.

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James S. Neill & Sons, Ltd.

INDEX BY FREQUENCIES AND DIAL NUMBERS

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	.....	Lincoln, Neb.	Howard A. Shuman
KFPV	ak	100	.....	Fort Smith, Ark.	Southwestern Hotel Co.
KFVS	ae	100	6	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.	Hello World Broadcasting Corp.
WALR	ae	100	.....	Zanesville, Ohio	WALR Broadcasting Corp.
WBAX	ae	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
WEBQ	ae	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	ae	100	3	Freeport, N. Y.	Harry H. Carman
WGCM	ae	100	.....	Gulfport, Miss.	Great Southern Land Co.
WGNV	z	50	P	Chester Twp., N. Y.	Peter Goelet (Orange County)
WHBF	ae	100	.....	Rock Island, Ill.	Rock Island Broadcasting Co.
WHBU	aj	100	.....	Anderson, Ind.	Anderson Broadcasting Corp.
WHET	ak	100	D	Troy, Ala.	Troy Broadcasting Co.
WIBU	ae	100	.....	Poynette, Wis.	Wm. 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	.....	Greenville, Miss.	J. Pat Scully
WMBG	aj	100	7C	Richmond, Va.	Havens & Martin, Inc.
WOCL	ak	50	.....	Jamestown, N. Y.	A. E. Newton
WOMT	ae	100	.....	Manitowoc, Wis.	Francis Mangin Kadow
WPAW	ak	100	aY	Providence, R. I.	Cherry & Webb Broadcasting Co.
WPRO	ak	100	aY	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 Bdctg. Corp. (Seneca Hotel)
WSIX	ae	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	ae	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.	Tampa 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
KFOD	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

INDEX BY FREQUENCIES AND DIAL NUMBERS

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	1009	.....	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
KFOX	ae	1000	CT	Long Beach, Calif.	Nichols & Warinner, Inc
WAAM	ae	1000	1(2.5)	Newark, N. J.	WAAM, Inc.
WCAL	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. Riculfi
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.
KWOR	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.
WFBP	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.	Buttrely 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.
WDOD	ae	1000	C(2.5)	Chattanooga, Tenn.	WDOD Bdctg. 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)
WBCB	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	C 1	Wichita, Kans.	Wichita Eagle-Hotel Lassen
KFJR	ag	500	3	Portland, Ore.	Ashley C. Dixon-KFJR, Inc.
WBRR	ae	1000	1	Brooklyn, N. Y.	Peoples Pulpit Assn.
WEVD	ae	500	1	New York City	Debs Memorial Radio Fund, Inc.
WFAB	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.
WOQ	ae	1000	1	Kansas City, Mo.	Unity School of Christiani'y

KYCS.
1300
MTRS.
230.6
DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

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	ae	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
KGFW	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.
WBOV	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.
WDAH	z	100	a	El Paso, Texas	Tri-State Broadcasting Co., Inc.
WBR	ae	100	Q(.25)	Buffalo, N. Y.	Howell Broadcasting Station
WEXL	ak	50	.....	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	ae	100	3	Altoona, Pa.	The Gable Broadcasting Co.
WDFD	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 Co.
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	ae	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.	Funkrold 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
KGFB	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	1C(2.5)	Sioux City, Iowa	Perkins Bros. Co.
WDRC	ae	500	CH	Hartford, Conn.	WDRC, Inc.
WSAI	ae	500	R(1)	Cincinnati, Ohio	The Crosley Radio Corp.
WTAQ	ae	1000	1C	Eau Claire, Wis.	The Gilette 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)

INDEX BY FREQUENCIES AND DIAL NUMBERS

1350 kilocycles 222.1 meters

KIDO	ak	1000	.....	Boise, Idaho
KGWK	ae	1000	B	St. Louis, Mo.
WAWZ	ae	250	1	Zarephath, N. J.
WBNX	ae	250	1a	New York City
WCDA	ae	250	1a	New York City
WEHC	ae	500	DY	Emory, Va.
WMSG	ae	250	1a	New York City

C. G. Phillips & Frank Hill
 Thomas Patrick, Inc. (Hotel Chase)
 Pillar of Fire
 New York Met. Broadcasting Corp.
 Italian Educ. Bdctg. Co., Inc.
 Emory & Henry College
 New York Met. Broadcasting Corp.

1360 kilocycles 220.4 meters

KGER	ah	1000	.....	Long Beach, Calif.
KGIR	ak	500	NJ	Butte, Mont.
WCSC	ae	500	.....	Charleston, S. C.
WFBL	ak	1000	C(.25)	Syracuse, N. Y.
WGES	ae	500	1(1)	Chicago, Ill.
WJKS	agj	1000	1Z	Gary, Ind.
WQBC	ak	500	.....	Vicksburg, Miss.
XEFH	z	250	P	Mexico City, Mexico

Consolidated Bdctg. Co. (R/C Los An.)
 KGIR, Inc.
 So. Carolina Broadcasting Co., Inc.
 Onondaga Radio Broadcasting Corp.
 Oak Leaves Broadcasting Station, Inc.
 Johnson-Kennedy Radio Corp.
 Delta Bdctg. Co. (Post-Herald Station)
 Francisco Hornedo

1370 kilocycles 218.8 meters

CMCR	z	150	1375	Havana, Cuba
CMGE	z	30	1375	Cardenas, Cuba
KCRC	ak	100	2(.25)	Enid, Okla.
KFBL	aj	50	3	Everett, Wash.
KFJM	zk	100	.....	Grand Forks, N. Dak.
KFJZ	ae	100	.....	Fort Worth, Texas
KFLX	z	100	.....	Galveston, Texas
KGAR	ae	100	(.25)	Tucson, Arizona
KGDA	ak	100	.....	Mitchell, S. Dak.
KGFG	bk	100	2	Oklahoma City, Okla.
KGFL	zk	100	4	Santa Fe, N. Mex.
KGKL	ak	100	.....	San Angelo, Texas
KICA	z	100	4	Clovis, N. Mex.
KMAC	ak	100	5	San Antonio, Texas
KONO	ak	100	5	San Antonio, Texas
KOOS	ae	100	.....	Marshfield, Ore.
KRE	ak	100	.....	Berkeley, Calif.
KSO	z	100	B(.25)	Des Moines, Iowa
KUJ	ak	100	D	Walla Walla, Wash.
KVL	z	100	3	Seattle, Wash.
KWKC	z	100	.....	Kansas City, Mo.
WBTM	ak	100	7	Danville, Va.
WCBM	ae	100	Z(.25)	Baltimore, Md.
WDAS	ae	100	(.25)	Philadelphia, Pa.
WGLC	z	50	(.1)	Hudson Falls, N. Y.
WGL	ae	100	C	Fort Wayne, Ind.
WHBD	bk	100	.....	Mount Orab, Ohio
WHBQ	ak	100	.....	Memphis, Tenn.
WHDF	ak	100	(.25)	Calumet, Mich.
WIBM	ae	100	1	Jackson, Mich.
WJBK	ae	100	1Q	Detroit, Mich.
WJEQ	z	100	6P	Williamsport, Pa.
WJTL	ae	100	.....	Atlanta, Ga.
WLEY	ae	100	(.25)	Lexington, Mass.
WLVA	ck	100	7	Lynchburg, Va.
WMBR	ak	100	.....	Tampa, Fla.
WPFB	ak	100	.....	Hattiesburg, Miss.
WQDM	ae	100	D	St. Albans, Vt.
WRAK	ak	100	6	Williamsport, Pa.
WRAM	ae	100	.....	Wilmington, N. C.
WRDO	ae	100	.....	Augusta, Maine
WRJN	ae	100	.....	Racine, Wis.
WSVS	ak	50	.....	Buffalo, N. Y.
XEFV	z	50	.....	Juarez, Mexico

Aurelio Hernandez
 Genaro Sebater
 Enid Radiophone Co. (Oxford Hotel)
 Leese Bros.
 University of North Dakota
 Fort Worth Broadcasters, Inc.
 George Roy Clough
 Tucson Motor Service Co.
 Mitchell Broadcasting Corp.
 Oklahoma Broadcasting Co., Inc.
 KGFL, Inc.
 KGKL, Inc. (St. Angelus Hotel)
 Southwest Broadcasting Co.
 Walmac Co., Inc. (Blue Bonnet Stud.)
 Mission Broadcasting Co.
 H. H. Hanseth, Inc. (Hall Bldg.)
 First Cong. Church of Berkeley
 Iowa Broadcasting Co.
 KUJ, Inc. (Marcus Whitman Hotel)
 KVL, Inc.
 Wilson Duncan Broadcasting Co.
 Piedmont Broadcasting Corp.
 Baltimore Broadcasting Corp.
 WDAS Bdctg. Sta., Inc. (Elks Hot el)
 O. T. Griffin & G. F. Bissell
 F. C. Zieg
 F. P. Moler
 Station WHBQ, Inc. (Hotel Claridge)
 Upper Michigan Broadcasting Co.
 WIBM, Inc. (Otega Hotel)
 James F. Hopkins, Inc. (Curtiss Bldg.)
 WRAK, Inc.
 Oglethorpe University
 Lexington Air Station
 Lynchburg Broadcasting Corp.
 F. J. Reynolds
 Hattiesburg Broadcasting Co.
 A. J. St. Antoine & E. J. Regan
 WRAK, Inc.
 Wilmington Radio Assn., Inc.
 WRDO, Inc. (Augusta House)
 Racine Bdctg. Corp. (Hotel Racine)
 Seneca Vocational School
 Jose Onofre Meza

KCYS.
1380
 MTRS.
217.3
 DIAL

1380 kilocycles 217.3 meters

CMJC	z	150	1382	Carnaguey, Cuba
KOH	ak	500	C	Reno, Nevada
KQV	ak	500	2	Pittsburgh, Pa.
WKBH	aj	1000	1C	LaCrosse, Wis.
WBMK	ak	200	2	Dayton, Ohio
XETB	z	125	.....	Torreon, Coah., Mex.

Feliciano Isaac
 McClatchy Newspapers
 KQV Bdctg. Co. (Investment Bldg.)
 WKBH, Inc. (Radio Bldg.)
 Stanley M. Krohn, Jr.
 Jose A. Berumen

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

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)

1400 kilocycles 214.2 meters

KLO	ae	500	.....	Ogden, Utah
KOCW	z	250	(.5)	Chickasha, Okla.
WBAA	ak	500	1	Lafayette, Ind.
WBBC	ae	500	2	Brooklyn, N. Y.
WCGU	ak	500	2	Brooklyn, N. Y.
WFOX	ak	500	2	Brooklyn, N. Y.
WKBF	ak	500	1W	Indianapolis, Ind.
WLTH	ae	500	2	Brooklyn, N. Y.

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.

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.

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

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	Y	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	D	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	ak	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.

Alamo Bctg. Co., Inc. (Texas Theatre)
Student Body Benson Polytech. School
Texarkana Gazette & Daily News
Reporter Printing Co.
KGFF Bdcgt. 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 & Curtie G. Phillips
Dr. Albert H. Schermann
Cedar Rapids Broadcast Co.
KXL Broadcasters (Hotel Multnomah)
Aroostook Broadcasting Corp.
Raymond C. Hammett (Alabama Hot.
Hazleton Brdcstg. 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 Brdcstg. Co., Inc.
WJMS, Inc. (St. James Hotel)
WKBI, Inc.
WLBF Bdcgt. Co. (Aladdin Hotel)
WMAS, Inc.
Michigan Broadcasting Co
W. M. Robertson
Paducah Bdcgt. Co. (Ritz Hotel)
The Voice of South Carolina
Associated Brdcstg. Corp.

1430 kilocycles 209.7 meters

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

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

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

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

1440 kilocycles 208.2 meters

CMBL ak 20 1444 Havana, Cuba
 CMBN 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.
 WSN 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 aeh 250 Fall River, Mass.
 WTFI ak 500 Athens, Ga.

Tri-State Bdcgt. 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.

L. B. Wilson, Inc. (Mabley & Carew)

1500 kilocycles 199.9 meters

CMBR z 40 Havana, Cuba
 KDB ak 100 CT Santa Barbara, Calif.
 KGFJ aj 100 (25) Corpus Christi, Texas
 KGFK 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 ak 100 El Centro, Calif.
 WFDV ak 100 Rome, Ga.
 WHEF ak 100 (25) Kosciusko, Miss.
 WKBV z 100 Connorsville, Ind.
 WKBZ ak 100 Ludington, Mich.
 WKBU z 100 P LaGrange, Ga.
 WLOE ak 100 (25) Boston, Mass.
 WMBQ ae 100 1 Brooklyn, N. Y.
 WMIL ak 100 1 Brooklyn, N. Y.
 WMPC ak 100 Lapeer, Mich.
 WNBK ae 100 Binghamton, N. Y.
 WOPJ ae 100 Bristol, Tenn.
 WPEN ce 100 (25) Philadelphia, Pa.
 WRDW ae 100 Augusta, Ga.
 WSYB aeh 100 Rutland, Vt.
 WWRL ak 100 1 Woodside, N. Y.
 WWSW ae 100 X(25) Pittsburgh, Pa.
 XEFZ ae 100 Coyoacan, Mexico

Tomas Basail
 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 Bdcgt. Co. (Driskill Hotel)
 Scott & Sturm
 Westcoat 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 Faska
 First Methodist Protestant Church
 Howitt-Wood Radio Co., Inc.
 Radiophor Bdcgt. Station WOPI
 Wm. Penn Broadcasting Co.
 Musicove, Inc. (Relays WLW)
 Philip Weiss Music Co.
 Long Island Broadcasting Corp.
 Walker & Downing Radio Corp.
 Manuel Zetina

KCYs.
 1500
 MTRS.
 199.9
 DIAL

INDEX BY LOCATIONS WITH MAP KEY

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

ALABAMA

	Watts		Keys.
Anniston O-21 tr	100	WAMC	1420
Birmingham O-21	5000	WAPI N	1140
	500	WBRG C	930
	100	WKBC	1310
Gadsden O-21	100	WJBY	1210
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	10000	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	KELW	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
Oakland J-1	500	KTM	780
	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	600
	1000	KBG C	1330
San Francisco J-1	1000	KFRC C	610
	500	KFWI	930
	100	KGGC	1420
	7500	KGO N	790
	100	KJBS	1070
	5000	KPO N	680
	1000	KTAB	560
	1000	KYA N	1230

	Watts		Keys.
San Jose J-1	500	KOW	1010
Santa Ana M-3	100	KREG	1500
Santa Barbara W-2	100	KDB C	1500
Stockton J-2	250	KGDM	1100
	100	KWG C	1200

COLORADO

Colorado Springs K-11	1000	KVOR C	1270
Denver K-11	500	KFEL	920
	500	KFXF	920
	1000	KLZ C	560
	12500	KOA N	830
	500	KPOF	880
Fort Morgan J-11	100	KGEW	1200
Grand Junction K-9 lc	100	KFXJ	1200
Greeley J-11	500	KFKA	880
Lamar L-12 lc	100	KIDW	1420
Pueblo L-11	250	KGHF	1320
Trinidad L-11	100	KGIW	1420
Yuma J-12	100	KGEK	1200

CONNECTICUT

Bridgeport H-27	250	WICC C	600
Hartford H-27	500	WDRC C	1330
	50000	WTIC R	1060
Storrs H-28	250	WCAC	600

DELAWARE

Wilmington J-26	250	WDEL	1120
	100	WILM	1420

DISTRICT OF COLUMBIA

Washington J-26	10000	WJSV B	1460
	250	WMAL B	630
	500	WRC N	950
	100	WOL	1310

FLORIDA

Clearwater R-24	1000	WFLA N	620
Gainesville Q-24	5000	WRUF C	830
Jacksonville Q-24	1000	WJAX N	900
Miami T-25	1000	WIOD N	1300
	1000	WQAM C	560
Orlando R-24	250	WDBO C	580
Pensacola Q-21	500	WCOA N	1340
St. Petersburg S-24	1000	WSON N	620
Tampa R-24	1000	WDAE C	1220
	100	WMBR	1370

GEORGIA

Americus P-22 c	100	WENC	1420
Athens N-23 bc	500	WTFI	1450
Atlanta O-22	250	WGST C	890
	100	WJTL	1370
	5000	WSB N	740
Augusta O-23	100	WRDW	1500
Columbus O-22	100	WRBL	1200
LaGrange O-22 1	100	WKEU	1500
Macon O-23	500	WMAZ	180
Rome N-22	100	WFDV	1500
Savannah O-24	500	WTOC C	1260
Thomasville Q-22	100	WQDX	1210

HAWAII

Honolulu	250	KGMB C	1320
	1000	KGU N	750

IDAHO

Boise G-5	1000	KIDO	1350
Idaho Falls G-7	250	KID	1320
Nampa G-5	100	KFXD	1200
Pocatello H-7	250	KSEI	890
Lewiston E-5 rc	100	KGKX	1420
Twin Falls H-6	500	KTFI	1240

INDEX BY LOCATIONS WITH MAP KEY

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

ILLINOIS	Watts	Keys.
Carthage J-18	50	WCAZ 1070
Chicago I-20	10000	KFKX 1020
	10000	KYW N 1020
	500	WAAP 920
	25000	WBBM C 770
	1500	WCFL R 970
	100	WCRW 1210
	100	WEDC 1210
	50000	WENR N 870
	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
Cicero I-20	100	WHFC 1420
	100	WKBI 1420
Decatur K-19	100	WJBL 1200
Harrisburg L-19	100	WEBQ 1210
Joliet I-19	100	WCLS 1310
	100	WKBB 1310
La Salle J-19	100	WJBC 1200
Peoria J-19	500	WMBD C 1440
Quincy K-18	500	WTAD 1440
Rockford I-19	500	KFLV 1410
Rock Island I-18	100	WHBF 1210
Springfield K-19	100	WCBS 1210
	100	WTAX 1210
Tuscola K-20	100	WDZ 1070
Urbana J-20	250	WILL 890
Zion I-20	5000	WCBD 1080

INDIANA	Watts	Keys.
Anderson J-21	100	WHBU 1210
Connorsville K-21	100	WKBV 1500
Elkhart I-21 bc	50	WTRC 1310
Evansville L-20	500	WGBF 630
Fort Wayne J-21	100	WGL C 1370
	10000	WOWO C 1160
Gary I-20	1000	WJKS 1360
Hammond I-20 bc	100	WWAE 1200
Indianapolis J-21	1000	WFBM C 1230
	500	WKBF 1400
Lafayette J-20	500	WBAA 1400
Muncie J-21	50	WLBC 1310
South Bend I-20	100	WFAM C 1200
	500	WSBT C 1230
Terre Haute K-20	100	WBOW 1310

IOWA	Watts	Keys.
Ames I-17	5000	WOI 640
Boone I-17	100	KFGQ 1310
Cedar Rapids I-18	100	KWCR B 1420
Council Bluffs J-16	1000	KOIL B 1260
Davenport I-18	5000	WOC R 1000
Decorah H-18	100	KGCA 1270
	100	KWLC 1270
Des Moines I-17	100	KSO B 1370
	5000	WHO R 1000
Iowa City I-18	500	WSUI 880
Marshalltown I-17	100	KFJB 1200
Ottumwa J-17	100	WIAS 1310
Red Oak J-16	100	KICK 1420
Shenandoah J-16	500	KFNF 890
	500	KMA 930
Sioux City I-15	1000	KSCJ C 1330
Waterloo I-17	500	WMT C 600

KANSAS	Watts	Keys.
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	WLBF 1420
Lawrence K-16	500	KFKU 1220
	1000	WREN B 1220
Manhattan K-15	500	KSAC 580
Topeka K-16	1000	WIBW C 580
Wichita L-15	1000	KFH C 1300

KENTUCKY	Watts	Keys.
Covington K-22	5000	WKY N 1490
Hopkinsville M-20	1000	WFIW C 940
Louisville L-21	25000	WHAS C 820
	100	WLAP 1200
Paducah M-19	100	WPAD 1420

LOUISIANA	Watts	Keys.
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
Shreveport P-17	1000	KTBS N 1450
	100	KWEA 1210
	10000	KWKH 850

MAINE	Watts	Keys.
Augusta F-28	100	WRDO 1370
Bangor F-29	100	WABI 1200
	500	WLBZ C 620
Portland F-28	1000	WCSH R 940
Presque Isle D-29 lc	100	WAGM 1420

MARYLAND	Watts	Keys.
Baltimore J-26	10000	WBAL B 1060
	250	WCAO C 600
	100	WCBM 1370
	500	WFBR R 1270
Cumberland J-25	100	WTBO 1420
Hagerstown J-25 rc	100	WJEJ 1210

MASSACHUSETTS	Watts	Keys.
Babson Park G-28	500	WBSO 920
Boston G-28	500	WAAB C 1410
	25000	WBZ B 990
	1000	WEEL R 590
	100	WHDH 830
	100	WLDE 1500
	1000	WNAC C 1230
	250	WSAR 1450
Fall River H-28	100	WLEY 1370
Lexington G-28	100	WNBH 1310
New Bedford H-28	100	WNBH 1310
Springfield H-27	1000	WBZA B 990
	100	WMAS 1420
Worcester G-28	100	WORC C 1200
	250	WTAG R 580

MICHIGAN	Watts	Keys.
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	WMBC 1420
	1000	WWJ R 920
	1000	WXYZ 1240
East Lansing H-21	1000	WKAR 1040

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Kcys.		Watts		Kcys.
Flint H-22	100	WFDF	1310	NEVADA			
Grand Rapids H-21	500	WASH	1270	Las Vegas L-5	100	KGIX	1420
	500	WOOD	1270	Reno I-3	500	KOH	C 1380
Ironwood F-18 rc	100	WJMS	1420	NEW HAMPSHIRE			
Jackson I-21	100	WIBM	1370	Laconia G-28 1c	100	WKAV	1310
Kalamazoo I-21 tl	1000	WKZO	590	Manchester G-28	500	WFEA	C 1430
Lapeer H-22	100	WMPC	1500	Portsmouth G-28 tc	250	WHEB	740
Ludington H-20	100	WKBZ	1500	NEW JERSEY			
Marquette F-19	100	WBEO	1310	Asbury Park I-27	500	WCAP	C 1280
Royal Oak H-22	50	WEXL	1310	Atlantic City J-27	5000	WPG	C 1100
MINNESOTA				Camden I-26	500	WCAM	1280
Fergus Falls F-15	100	KGDE	1200	Jersey City I-27	300	WAAT	940
Minneapolis G-17	50000	WCCO	C 810	Newark I-27	250	WHOM	1450
	1000	WDGY	1180	Paterson I-27	500	WAAM	1250
	1000	WLB	1250	Red Bank I-27	250	WGCP	1250
Moorhead F-15	100	WRHM	1250	Trenton I-26	250	WNJ	1450
Northfield G-17	1000	KGFK	1500	Zarephath I-27	5000	WOR	710
	1000	KFMX	1250		1000	WODA	1250
St. Paul G-17	10000	WCAL	1250		100	WJBI	1210
		KSTP	N 1460		500	WOAX	1280
					250	WAWZ	1350
MISSISSIPPI				NEW MEXICO			
Greenville O-18	100	WKFI	1210	Albuquerque N-7	250	KGGM	1230
Gulfport Q-19	100	WGCM	1210	Clovis O-11 tr	20000	KOB	1180
Hattiesburg Q-19	100	WPFB	1370	Santa Fe M-10	100	KICA	1370
Jackson P-19	1000	WJDX	N 1270		100	KGFL	1370
Kosciusko O-19 bc	100	WHEF	1500	NEW YORK			
Laurel P-19 br	100	WAML	1310	Albany G-27 bl	500	WOKO	C 1430
Meridian P-20	500	WCOC	880	Auburn H-25	100	WMBO	1310
Vicksburg P-18	500	WQBC	1360	Binghamton H-26	500	WNBF	1500
				Brooklyn I-27	100	WBBC	1400
					1000	WBRR	1300
MISSOURI					500	WCGU	1400
Cp. Girardeau L-19	100	KFVS	1210		500	WFOU	1400
Columbia K-17	500	KFRU	630		500	WLTH	1400
Grant City J-16	100	KGIZ	1500		100	WMBQ	1500
Jefferson City L-17	500	WOS	630	Buffalo H-24	1000	WBEN	R 900
Jeoplin M-16	100	WMBH	1420		100	WEBR	1310
Kansas City K-16	1000	KMBC	C 950		1000	WGR	C 550
	100	KWKC	1370		5000	WKBW	C 1480
	1000	WDAF	R 610		50	WSVS	1370
	500	WHB	860		500	WCAD	1220
	1000	WQO	1300		50	WGNV	1210
St. Joseph K-16	2500	KFEQ	680		1000	WESG	1040
St. Louis L-18	500	KFUO	550		100	WGBB	1210
	100	KFWF	1200		50	WGLC	1370
	50000	KMOX	C 1090		50	WOCL	1210
	500	KSD	R 550		50000	WABC	C 860
	1000	KWK	B 1350		250	WBNX	1350
	1000	WEW	760		50000	WBOQ	860
	100	WIL	1200		250	WCDA	1350
Springfield M-17	100	KGBX	1310		50000	WEAF	R 660
					500	WEVD	1300
MONTANA					1000	WFAB	1300
Billings F-9	1000	KGHL	N 950		500	WINS	1180
Butte F-7	500	KGIR	N 1360		250	WHN	1010
Great Falls E-8	1000	KFBB	1280		50000	WJZ	B 760
Kalispell D-7	100	KGEZ	1310		5000	WLWL	1100
Missoula E-7	100	KGVO	1200		500	WMCA	570
Wolf Point E-11	100	KGCX	1310		250	WMSG	1350
NEBRASKA					500	WNYC	570
Clay Center J-14	1000	KMMJ	740		1000	WOV	1130
Kearney J-14 bc	100	KGFW	1310		250	WPAP	1010
Lincoln J-15	5000	KFAB	C 770		500	WPCH	810
	100	KFOR	1210		250	WQAO	1010
	500	WCAJ	590		250	WRNY	1010
Norfolk I-15	1000	WJAG	1060		5000	WHAM	B 1150
North Platte J-13	500	KGNF	1430		500	WHEC	C 1430
Omaha J-15	500	WAAW	660				
	1000	WOW	R 590				
Scottsbluff I-11	100	KGKY	1500				
York J-15	500	KGBZ	930				

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Kcys.
Saranac Lake F-26	50	WMBZ	1290
Schenectady G-27	50000	WGY R	790
Syracuse G-25	1000	WFBL C	1360
	250	WMAC	570
	250	WSYR B	570
Troy G-27	500	WHAZ	1300
Tupper Lake F-26	100	WHDL	1420
Utica G-26	100	WIBX	1200
Woodside I-27	100	WWRL	1500
White Plains H-27 bl	100	WFAS	1210

NORTH CAROLINA

Asheville M-23	1000	WWNC N	570
Charlotte M-24	25000	WBT C	1080
Gastonia M-24	100	WSOC	1210
Greensboro M-24	500	WBIG C	1440
Raleigh M-25	1000	WPTF N	680
Wilmington N-26	100	WRAM	1370
Winston-Salem M-24	100	WSJS C	1310

NORTH DAKOTA

Bismarck F-13	1000	KFYR N	550
Devils Lake E-14	100	KDLR	1210
Fargo F-15	1000	WDAY N	940
Grand Forks E-15	100	KFJM	1370
Mandan F-13	250	KGCU	1240
Minot E-13	250	KLPM	1240

OHIO

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

OKLAHOMA

Chickasha N-14	250	KOCW	1400
Elk City N-13	100	KASA	1210
Enid M-14	100	KCRC	1370
Norman N-15	500	WNAD	1010
Oklahoma N-15	100	KFXR	1310
	100	KGFG	1370
	5000	KOMA C	1480
	1000	WKY N	900
Ponca City M-15	100	WBBZ	1200
Shawnee N-15	100	KGFF	1420
Tulsa M-15	5000	KVOO N	1140

OREGON

Corvallis E-2	1000	KOAC	550
Eugene F-2	100	KORE	1420
Klamath Falls G-3 c	100	KFJI	1210
Marshfield F-1	100	KOOS	1370
Medford G-2	100	KMED	1310

	Watts		Kcys.
Portland E-3	500	KALE C	1300
	5000	KEX N	1180
	100	KBPS	1420
	500	KFJR	1300
	1000	KGW N	620
	1000	KOIN C	940
	500	KWJJ	1060
	100	KXL	1420

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Erie H-24	100	WERE	1420
	500	WLWB C	1260
	25	WIBG	930
Glenside I-26 rc	100	WSAJ	1310
Grove City I-24	500	WBAK	1430
Harrisburg I-25	100	WCOD	1200
	500	WHP C	1430
	100	WAZL	1420
Hazleton I-26 lc	100	WJAC	1310
Johnstown J-24	100	WGAL	1310
Lancaster I-26	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	50000	WCAU C	1170
Philadelphia I-26	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	WCAE 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	WRAK	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
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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

INDEX BY LOCATIONS WITH MAP KEY

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

SOUTH DAKOTA				VIRGINIA			
	Watts		Keys.		Watts		Keys.
Brookings H-15	1000	KFDY	550	Arlington J-25	1000	NAA	690
Huron H-14	100	KG DY	1200	Danville L-25	100	WB TM	1370
Mitchell H-14	100	KG DA	1370	Emory L-23	500	WE HC	1350
Pierre G-13	200	KG FX	630	Lynchburg L-25	100	WL VA	1370
Rapid City H-12	100	WC AT	1200	Newport News L-26	100	WG H	1310
Sioux Falls H-15	1000	KS OO	1110	Norfolk L-26	500	WT AR	C 780
Vermillion I-15	500	KU SD	890	Petersburg L-26	100	WP HR	1200
Watertown G-15	100	KG CR	1210	Portsmouth L-26 tc	500	WP OR	780
Yankton I-15	1000	WN AX	C 570	Richmond K-26	100	WB BL	1210
					100	WMB G	C 1210
					5000	WR VA	N 1110
				Roanoke L-24	250	WDB J	C 930
					250	WR BX	1410
TENNESSEE				WASHINGTON			
Bristol L-23	100	WO PI	1500	Aberdeen D-2	100	KX RO	1310
Chattanooga N-21	1000	WD OD	C 1280	Bellingham C-3	100	KV OS	1200
Jackson M-19 br	100	WT JS	1310	Everett C-3	50	KF BL	1370
Knoxville M-22	1000	WN OX	C 560	Olympia D-3 tl	100	KG Y	1210
	100	WR OL	1310	Pullman E-5	1000	KW SC	1220
Memphis N-19	100	WH BQ	1370	Seattle C-3	5000	KJR	N 970
	500	WMC	N 780		1000	KOL	C 1270
	500	WN BR	1430		1000	KOMO	N 920
	500	WREC	C 600		100	KPC B	650
Nashville M-21	5000	WL AC	C 1470		100	KR SC	1120
	50000	WS M	N 650		1000	KTW	1220
Springfield M-20	100	WS IX	1210		100	KVL	1370
					250	KXA	760
TEXAS					100	KF IO	1120
Amarillo N-12	1000	KG RS	1410	Spokane D-5	1000	KFP Y	C 1340
	1000	WD AG	1410		5000	KG A	B 1470
Austin Q-14	100	KN OW	1500		1000	KHQ	N 590
Beaumont R-17	500	KF DM	560	Tacoma D-3	250	KMO	1330
Brownsville U-15	500	KW WG	1260		500	KVI	C 570
College Sta. Q-15	500	WT AW	1120	Walla Walla E-5	100	KU J	1370
Corpus Christi S-14	100	KG FI	1500	Wenatchee D-4	100	KP Q	1500
Dallas P-15	10000	KRL D	C 1040	Yakima D-4	100	KIT	1310
	50000	WFA A	N 800				
	100	WRR	C 1280	WEST VIRGINIA			
Dublin P-14	500	KF PL	1310	Bluefield L-24	250	WH IS	1410
El Paso P-9	100	KT SM	1310	Charleston K-23	250	WO BU	580
	100	WDA H	1310	Fairmont J-24	250	WMM N	890
Fort Worth P-15	100	KF JZ	1370	Huntington K-23	250	WS AZ	580
	1000	KT AT	1240	Wheeling J-24	5000	WW VA	C 1160
	50000	WB AP	N 800	WISCONSIN			
Galveston R-16	100	KFL X	1370	Eau Claire G-18	1000	WT AQ	C 1330
	500	KFL U	1290	Fond du Lac H-19	100	KF IZ	1420
	15	KFP M	1310	Green Bay G-19	100	WH BY	1200
Greenville O-15	500	KRG V	1260	Janesville I-19	100	WC LO	1200
Harlingen T-14	1000	KPR C	N 920	La Crosse H-18	1000	WK BH	C 1380
Houston R-16	500	KTR H	C 1120	Madison H-19	1000	WH A	940
	500	KXY Z	1440		500	WIB A	N 1280
Lubbock O-12 tr	100	KFY O	1310	Manitowoc H-20	100	WOM T	1210
San Angelo Q-13	100	KG KL	1370	Milwaukee H-19	250	WH AD	C 1120
San Antonio R-14	100	KABC	1420		250	WIS N	C 1120
	100	KMAC	1370	Poynette H-19	1000	WT MJ	N 620
	100	KONO	1370	Racine I-20	100	WIB U	1210
	1000	KT SA	C 1290	Sheboygan H-20	100	WR JN	1370
	50000	WO AI	N 1190	Stevens Point G-19	500	WH BL	1410
Tyler P-16 rc	100	KG KB	1500	Superior F-17	2000	WL BL	900
Waco Q-15	1000	WACO	C 1240		1000	WE BC	N 1290
Wichita Falls O-14	250	KG KO	570	WYOMING			
				Casper H-10	500	KDF N	1440
UTAH				CANADA			
Ogden I-7	500	KLO	1400	ALBERTA			
Salt Lake City I-7	1800	KDYL	N 1290	Calgary B-7	500	CF AC	690
	50000	KSL	C 1130		10000	CFC N	985
					500	CJC J	690
VERMONT							
Burlington F-27	100	WC AX	1200				
Rutland G-27	100	WS YB	1500				
St. Albans F-27	100	WQ DM	1370				
Springfield G-27	250	WN BX	1260				
Waterbury F-27 c	500	WDEV	550				

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Kcys.		Watts		Kcys.
Edmonton A-8	250	CHMA	580	Quebec D-27	100	CHRC	645
	500	CJCA	745		100	CKCI	645
Lethbridge C-8	100	CKUA	580		100	CKCV	880
Red Deer A-8	1000	CJOC	1120	SASKATCHEWAN			
		CKLC	840	Canora B-13 tl	15	10-BU	1200
BRITISH COLUMBIA				Fleming C-13	1000	CJRW	665
Chilliwack B-3	100	CHWK	665	Moose Jaw C-11	500	CJRM	665
Kamloops B-5	100	CJFC	1120		25	10-AB	1200
Kelowna C-6 tl	100	CKOV	1200	Prince Albert A-11 rc	25	10-BI	1200
Trail C-6 c	25	10-AT	1155	Regina C-12	500	CHWC	960
Vancouver B-3	100	CHLS	730	Saskatoon B-11	500	CKCK	960
	500	CJOR	1210	Yorkton B-13	500	CFQC	910
	100	CKCD	730			CJGX	630
	50	CKFC	730	NEWFOUNDLAND			
	100	CKMO	730	St. Johns A-35	200	VOAS	810
	100	CKWQ	730		500	VOGY	860
	500	CNRV	1030		100	VONA	950
	500	CFCT	630		500	VONF	1195
Victoria C-3	500				750	VOWR	750
MANITOBA				Wabana A-35	400	VOGT	893
Brandon D-14	500	CKX	930	CENTRAL AMERICA			
Winnipeg D-15	5000	CKY	780	COSTA RICA			
NEW BRUNSWICK				San Jose FF-23	50	TICR	911
Fredericton D-29	100	CFNB	1210	SALVADOR			
Moncton D-30	700	CNRA	630	Salvador CC-19 br	500	RUS	664
St. John D-30	500	CFBO	890	MEXICO			
NOVA SCOTIA				AGUASCALIENTES			
Glace Bay C-32	2000	VAS	685	Aguascalientes W-11 bc	350	XFC	805
Halifax E-31	500	CHNS	815	BAJA CALIFORNIA			
	500	CNRH	815	Tijuana N-3 bc	300	XEFD	1020
Sydney C-32	100	CJCB	880	CHIHUAHUA			
Wolfville D-31	50	CKIC	1010	Chihuahua R-9	100	XEFI	1000
ONTARIO					250	XFF	915
Brantford H-23 tr	15	10-BQ	1200	Juarez P-9	5000	XEAN	750
Chatham H-22	250	CFCO	1010		50	XEFV	1370
Cobalt E-23	100	CKMC	1210		100	XEJ	1000
Ft. William E-19 bl	100	CKPR	890	COAHUILA			
Hamilton H-24	50	CHML	880	Piedras Negras S-12 tr	100000	XEPN	585
	1000	CKOC	635	Saltillo, Coah. U-12	10	XEL	1000
Kingston G-25	50	CFRC	930	Torreon U-11 tl	125	XETB	1380
London H-23	5000	CJGC	595	Villa Acuna R-12 c	75000	XER-XEF	735
North Bay F-23 c	100	CFCH	930	D. F.			
Ottawa F-25	100	CKCO	890	Coyoacan Y-13	100	XEFZ	1500
	500	CNRO	600	Mexico City Y-13	1000	XEB	1030
	100	CFLC	915		500	XEFA	1250
Preston H-23	100	CKPC	880		250	XEFH	1360
St. Catharines H-24 tl	1000	CKTB	635		250	XEG	1075
Stratford H-23 tc	15	10-AK	1200		100	XEK	990
Toronto G-24	500	CFCA	1120		1000	XEN	711
	10000	CFRB	690		5000	XEFO	940
	5000	CHNC	840		1000	XEP	780
	500	CKCL	580		250	XETA	1140
	5000	CKGW	840		1000	XETR	610
	500	CKNC	960		500	XETW	830
	5000	CPRY	840		5000	XEW	910
Waterloo G-23	100	CKCR	645		500	XEX	1210
Windsor I-22 tc	5000	CKOK	540		2000	XFG	638
Wingham G-23	25	10-BP	1199		1000	XFI	818
PRINCE EDWARD ISLAND					5000	XFO	940
Charlottetown C-31	500	CFCY	580		500	AFX	860
	100	CHCK	960		50	XEC	1000
Summerside C-31	100	CHGS	1120				
QUEBEC							
Montreal E-26	500	CFCH	N 1030				
	100	CHCH	1200				
	100	CHLP	1200				
	5000	CHYC	730				
	5000	CKAC	C 730				

INDEX BY LOCATIONS WITH MAP KEY

	Watts		Keys.		Watts		Keys.
HIDALGO							
Pachuca Y-13 rc	100	XETU	890	Guantanamo X-28 tc	20	CMKJ	1300
JALISCO				Havana W-23	1000	CMAF	680
Guadalajara, Ja. X-10	100	XEA	1000		150	CMAY	965
	500	XED	1155		150	CMBC	1270
MICHOACAN					150	CMBD	965
Morelia, Mich. Y-12	125	XEI	1310		150	CMBF	1325
NEUVO LEON					225	CMBG	1070
Monterrey, N. L. U-13	100	XEFB	1315		150	CMBJ	1140
	100	XEFJ	1000		15	CMBK	1485
	250	XEH	1132		20	CMBL	1444
	500	XET	690		30	CMBR	1444
PUEBLA					40	CMBR	1500
Puebla Z-13	100	XETH	840		150	CMBS	780
QUERETARO					150	CMBW	925
Queretaro X-12 br	40	XEFS	1000		350	CMBY	1235
TAMAULIPAS					150	CMBZ	1010
Matamoros U-14 tr	150000	XETM	845		500	CMC	840
N. Laredo S-13	100	XEFE	1000		150	CMCA	1235
	150000	XENT	1115		150	CMCB	1070
Reynosa, Tams. T-14	10000	XEAW	965		250	CMCD	1140
Tampico, Tams. W-14	70	XEFW	1240		250	CMCF	890
	250	XES	1055		50	CMCH	1395
VERA CRUZ					250	CMCI	1185
Jalapa Y-14	100	XETC	1000		15	CMCN	1395
	500	XFB	840		250	CMCN	925
Vera Cruz, Ver. Z-14	500	XETF	630		1000	CMCQ	780
	100	XEU	1010		150	CMCR	1375
YUCATAN					150	CMCU	630
Merida, Yuc. X-19	10	XEFC	1050		150	CMCW	965
	105	XEY	546.8		150	CMCX	1010
WEST INDIES					1000	CMCY	1325
CUBA					40	CMDB	1395
Caibarien W-25	250	CMHD	950		150	CMDD	588
Camaguey W-26	150	CMJE	1382		250	CMDE	925
	50	CMJC	1175		3150	CMK	730
	200	CMJF	930		250	CMQ	630
	50	CMJG	1050		1400	CMW	585
	300	CMJK	790		500	CMX	890
	50	CMJL	960	Matanzas W-24	30	CMGB	1205
	50	CMJN	1270		30	CMGC	820
Cardenas W-24	30	CMGE	1375		100	CMGF	987
Ciego de Avila W-26	50	CMJH	1150		15	CMGH	1040
	5	CMJI	1260	Moron	7.5	CMJP	1310
	15	CMJO	1110	Pinar del Rio W-22	20	CMAB	1249
Cienfuegos W-25	40	CMHJ	1125	Santa Clara W-25	30	CMHI	1030
	20	CMHL	1290	Santiago X-28	150	CMKC	1034
Colon W-24	100	CMGA	834	Tuinucu W-25 rc	250	CMHC	790
Cruces	15	CMHK	1225	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	YVIBC	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, tc top center, tr top right, bl bottom left, bc bottom center, br bottom right, l left, c 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 690 Calgary, Alta., <i>MST</i> . 7:30-9 a.m.; 11:30 a.m.-1:30 p.m.; 4:30-6 p.m.	CJRW 665 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 730 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	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 645 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.	CMCQ 630 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	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.	CKFC 730 Vancouver, B. C. Silent.	CMCX 1010 Havana, Cuba.
CFLE 915 Prescott, Ont., <i>EST</i> . 8-10 a.m.; noon-2 p.m.; 5-7:30 p.m.	CKGW 840 Toronto, Ont., <i>EST</i> . 6:45 a.m.-mid.	CMCY 1325 Havana, Cuba, <i>EST</i> . 8:30-10:30 p.m.
CFNB 1210 Fredericton, N. B., <i>AST</i> . 8:30-9:30 a.m.; 12:30-2 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.	CMDB 1395 Havana, Cuba
CFQC 910 Saskatoon, Sask.	CKIL 840 Red Deer, Alta., <i>MST</i> . 8 a.m.-8 p.m.	CMDD 588 Havana, Cuba.
CFRB 690 Toronto, Ont., <i>EST</i> . 8 a.m.-mid.	CKIM 1210 Cobalt, Ont., <i>EST</i> . Silent.	CMDE 925 Havana, Cuba.
CFRC 930 Kingston, Ont.	CKMO 730 Vancouver, B. C.	CMGA 834 Colon, Cuba.
CHCC 1200 Montreal, Que.	CKNC 960 Toronto, Ont., <i>EST</i> . 8 a.m.-12:30 p.m. 5-11:15 p.m.	CMGB 1205 Matanzas, Cuba.
CHCK 960 Charlottetown, P. E. I. Noon-2 p.m.; 5-7:30 p.m., <i>AST</i> .	CKOC 635 Hamilton, Ont., <i>EST</i> . 8 a.m.-10:30 p.m.	CMGC 820 Matanzas, Cuba.
CHGS 1120 Summerside, P. E. I. 6:30-2 p.m.; 4-8 p.m., <i>AST</i> .	CKOK 540 Windsor, Ont., <i>EST</i> . 7:30 a.m.-mid.	CMGE 1375 Cardenas, Cuba, <i>EST</i> . Noon-2; 8-10 p.m.
CHLP 1200 Montreal, Que.	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.	CMGF 987 Matanzas, Cuba.
CHLS 730 Vancouver, B. C., <i>PST</i> . 7:30-8:30 p.m.; 8:50-11:30 p.m.	CKPC 880 Preston, Ont., <i>EST</i> . 4 p.m.-11 p.m.	CMGH 1040 Matanzas, Cuba
CHMA 580 Edmonton, Alta., <i>MST</i> . Silent.	CKPR 890 Ft. William, Ont., <i>EST</i> . 10 a.m.-2 p.m.; 6-8 p.m.	CMHD 790 Timucuu, Cuba
CHML 880 Hamilton, Ont., <i>EST</i> . 9 a.m.-2 p.m.	CKTB 635 St. Catharines, Ont., 1:30-5 p.m.; 6-10 p.m., <i>EST</i> .	CMHE 950 Caibarien, Cuba
CHNC 840 Toronto, Ont.	CKUA 580 Edmonton, Alta., <i>MST</i> . Silent.	CMHI 1030 Santa Clara, Cuba, <i>EST</i> . 11 a.m.-1 p.m.; 8-10 p.m.
CHNS 815 Halifax, N. S., <i>AST</i> . 6 p.m.-mid.	CKWX 730 Vancouver, B. C., <i>PST</i> . 8:30 a.m.; 10:30 a.m.-noon; 4:30-7:30; 11:30-mid.	CMHJ 1125 Cienfuegos, Cuba, <i>EST</i> . 11 a.m.-1 p.m.; 7-9 p.m.
CHRC 645 Quebec, Que., <i>EST</i> . 9 a.m.-2 p.m.; 5 p.m.-mid.	CKX 930 Brandon, Man., <i>CST</i> . 8:30-9:30 a.m.	CMHK 1225 Cruces, Cuba
CHWC 960 Regina, Sask., <i>MST</i> . 7-9 a.m.; 10-11 a.m.; noon-1 p.m.; 3:30-mid.	CKY 780 Winnipeg, Man., <i>CST</i> . 8:30 a.m.-4 p.m.; 7-10:45 p.m.	CMHL 1200 Cienfuegos, Cuba.
CHWK 665 Chilliwack, B. C., <i>PST</i> . Noon-8 p.m.	CMAB 1249 Pinar del Rio, Cuba.	CMJM 1382 Camaguey, Cuba.
CHYC 730 Montreal, Que.	CMAF 680 Havana, Cuba, <i>EST</i> . 5-11:30 p.m.	CMJE 1175 Camaguey, Cuba.
CJCA 745 Edmonton, Alta., <i>MST</i> . 7:45-9:15 a.m.; noon-1; 5-7:30; mid.-1 a.m.	CMAY 965 Havana, Cuba.	CMJG 930 Camaguey, Cuba.
CJCB 880 Sydney, N. S., <i>AST</i> . 10 a.m.-2 p.m.; 6-9 p.m.	CMBC 1270 Havana, Cuba, <i>EST</i> . 11 a.m.-5 p.m.	CMJH 1050 Camaguey, Cuba.
CJCC 690 Calgary, Alta., <i>MST</i> . 9-11:30 a.m.; 1:45-3 p.m.; 6-7 p.m.	CMBD 965 Havana, Cuba	CMJI 1150 Ciego de Avila, Cuba.
CJGC 595 London, Ont., <i>EST</i> . Silent.	CMBF 1325 Havana, Cuba	CMJK 790 Camaguey, Cuba
CJGX 630 Yorkton, Sask., <i>CST</i> . 8:30-9:15 a.m.; 10:30-10:45 a.m.; 11:25-noon; 7:15-8 p.m.	CMBG 1070 Havana, Cuba.	CMJL 960 Camaguey, Cuba.
CJOC 1120 Lethbridge, Alta., <i>MST</i> . 8:45-10 a.m.; noon-1:15 p.m.; 3-4 p.m.; 6-8 p.m.	CMBJ 1140 Havana, Cuba.	CMJN 1270 Camaguey, Cuba.
CJOR 1210 Vancouver, B. C., <i>PST</i> . 7:30 a.m.-1 p.m.; 4-7:30; 10:30- 1 a.m.	CMBK 1485 Havana, Cuba.	CMJO 1110 Ciego de Avila, Cuba.
CJRM 665 Moose Jaw, Sask., <i>MST</i> . 8-10:30 a.m.; noon-2:30 p.m.; 10-mid.	CMBL 1444 Havana, Cuba, <i>EST</i> . 3-5 p.m.	CMJP 1310 Moron, Cuba.
	CMBN 1444 Havana, Cuba, <i>EST</i> . 2-3 p.m.; 9:15-11 p.m.	CMK 730 Havana, Cuba, <i>EST</i> . 10 a.m.-noon; 6 p.m.-mid.
	CMBR 1500 Havana, Cuba.	CMKC 1034 Santiago, Cuba.
	CMBS 780 Havana, Cuba.	CMKJ 1300 Guantanamo, Cuba.
	CMBSW 925 Havana, Cuba.	CMKQ 630 Havana, Cuba.
	CMBY 1235 Havana, Cuba.	CMW 585 Havana, Cuba, <i>EST</i> . 7:30 a.m.-11:30 p.m.
	CMBZ 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.	CMX 890 Havana, Cuba, <i>EST</i> . 11 a.m.-2 p.m.; 8-mid.
	CMC 840 Havana, Cuba.	CNRA 630 Moncton, N. B., <i>AST</i> . 12:30-2 p.m.
	CMCA 1235 Havana, Cuba.	CNRH 815 Halifax, N. S., <i>AST</i> . Silent.
	CMCB 1070 Havana, Cuba, <i>EST</i> . 11:30 a.m.-1 p.m.; 5-6 p.m.; 7:30-10 p.m.	CNRO 600 Ottawa, Ont., <i>EST</i> . Noon-1 p.m.; 6-8:30 p.m.
		CNRV 1030 Vancouver, B. C., <i>PST</i> . 2-3:30 p.m.; 5:30-8:30 p.m.
		CPRY 840 Toronto, Ont., <i>EST</i> . 1-1:30 p.m.
		HHK 920 Port-au-Prince, Haiti.
		HIX 630 Santo Domingo, <i>EST</i> . Silent.
		KABC 1420 San Antonio, Tex., <i>CST</i> . 6:45 a.m.-1:30 p.m.; 4-mid.
		KALE 1300 Portland, Ore., <i>PST</i> . 7-10:30 a.m.; 2:30-5; 6-7 p.m.; 8-mid.
		KARK 890 Little Rock, Ark., <i>CST</i> . 7:30 a.m.-9 p.m.
		KASA 1210 Elk City, Okla., <i>CST</i> . 7 a.m.-9 p.m.

KBPS 1420 Portland, Ore., *PST.*
Silent.

KBTM 1200 Paragould, Ark., *CST.*
7:30 a.m.-3 p.m.

KCMC 1420 Texarkana, Ark., *CST.*
6:45 a.m.-9 p.m.

KCRC 1370 Enid, Okla., *CST.*
10 a.m.-2 p.m.; 3:45-7:45 p.m.

KCRJ 1310 Jerome, Ariz., *MST.*
7:30-9:30 a.m.; noon-1 p.m.;
3:45-6 p.m.

KDB 1500 Santa Barbara, Calif.
8 a.m.-mid., *PST.*

KDFN 1440 Casper, Wyo., *MST.*
9 a.m.-9 p.m.

KDKA 980 Pittsburgh, Pa., *EST.*
7 a.m.-12:30 a.m. next day.

KDLR 1210 Devils Lake, N. D., *CST.*
7 a.m.-3 p.m.; 5:30-9:30 p.m.

KDYL 1290 Salt Lake City, Utah.
6:30 a.m.-1 a.m., *MST.*

KECA 1430 Los Angeles, Calif., *PST.*
9 a.m.-11 p.m.

KELW 780 Burbank, Calif., *PST.*
10 a.m.-1 p.m.; 5-8 p.m.

KERN 1200 Bakersfield, Calif., *PST.*
7:30 a.m.-mid.

KEX 1180 Portland, Ore., *PST.*
7 a.m.-noon; 1 p.m.-mid.

KFAB 770 Lincoln, Neb., *CST.*
6 a.m.-10:30 p.m.

KFAC 1300 Los Angeles, Calif., *PST.*
7 a.m.-mid.

KFBB 1280 Great Falls, Mont., *MST.*
8 a.m.-3 p.m.; 5-10 p.m.

KFBI 1050 Abilene, Kans., *CST.*
5 a.m.-9 p.m.

KFBK 1310 Sacramento, Calif., *PST.*
7 a.m.-11 p.m.

KFBL 1370 Everett, Wash., *PST.*
8:30 a.m.-noon; 3-6 p.m.; 3-6 a.m.

KFDM 560 Beaumont, Tex., *CST.*
7 a.m.-2 p.m.; 4:30-10:30 p.m.

KFDY 550 Brookings, S. D., *CST.*
12:30-2 p.m.

KFEL 920 Denver, Colo., *MST.*
7-8:30 a.m.; 10 a.m.-12:30 p.m.;
2-4:30 p.m.; 6-7:30 p.m.

KFEQ 680 St. Joseph, Mo., *CST.*
6 a.m.-7:45 p.m.

KFGQ 1310 Boone, Iowa, *CST.*
6-7:30 a.m.; 1:30-2:30 p.m.

KFH 1300 Wichita, Kans., *CST.*
7-8:30 a.m.; 9-11 a.m.; 11:30
a.m.-2 p.m.; 3-10; 11-11:30 p.m.

KFI 640 Los Angeles, Calif., *PST.*
6:30 a.m.-mid.

KFIO 1120 Spokane, Wash., *PST.*
6 a.m.-sunset.

KFIZ 1420 Fond du Lac, Wis., *CST.*
10 a.m.-1 p.m.; 4-10 p.m.

KFJB 1200 Marshalltown, Iowa.
6-9 a.m.; noon-3 p.m.; 6-9 p.m.

KFJI 1210 Klamath Falls, Ore.
7:30 a.m.-9 p.m., *PST.*

KFJM 1370 Grand Forks, N. D.
7 a.m.-9 p.m., *CST.*

KFJR 1300 Portland, Ore., *PST.*
10:30 a.m.-2:30 p.m.; 5-6 p.m.;
7-8 p.m.

KFJZ 1370 Fort Worth, Texas, *CST.*
7 a.m.-11 p.m.

KFKA 880 Greeley, Colo., *MST.*
6-7:30 a.m.; 9 a.m.-2:30 p.m.;
8-11 p.m.

KFKU 1220 Lawrence, Kans., *CST.*
2:30-3 p.m.; 6-6:15 p.m.

KFKX 1020 Chicago, Ill.

KFLV 1410 Rockford, Ill., *CST.*
10 a.m.-12:30 p.m.; 3-6 p.m.;
8-10 p.m.

KFLX 1370 Galveston, Texas.

KFMX 1250 Northfield, Minn., *CST.*
10:15-10:35 a.m.

KFNF 890 Shenandoah, Iowa, *CST.*
5-8 a.m.; 9-10 a.m.; 12:15-5
p.m.; 6-10 p.m.

KFOR 1210 Lincoln, Nebr., *CST.*
7 a.m.-10 p.m.

KFOX 1250 Long Beach, Calif., *PST.*
6 a.m.-mid.

KFPL 1310 Dublin, Texas, *CST.*
9 a.m.-10:30 p.m.

KFPM 1310 Greenville, Texas, *CST.*
7:45-9 a.m.; 1-2:45 p.m.; 6-9.

KFPW 1210 Fort Smith, Ark., *CST.*
6:30 a.m.-2 p.m.; 5-10:30 p.m.

KFPY 1340 Spokane, Wash., *PST.*
7 1.m.-12:30 a.m. next day.

KFQD 1230 Anchorage, Alaska.
6 p.m.-mid. (Zone 6)

KFRG 610 San Francisco, Calif.
7 a.m.-1 a.m., *PST*

KFRU 630 Columbia, Mo., *CST.*
6:30-9 a.m.; 2-9 p.m.

KFSO 600 San Diego, Calif., *PST.*
7:30 a.m.-mid.

KFSG 1120 Los Angeles, Calif., *PST.*
1:30-3 p.m.; 7:30-mid.

KFUL 1290 Galveston, Texas, *CST.*
8-9:30 a.m.; 11 a.m.-1 p.m.; 2:30-
4 p.m.; 5:30-8 p.m.; 10:15-mid.

KFUO 550 St. Louis, Mo., *CST.*
6:30-7 a.m.; 12:15-12:40 p.m.

KFVD 1000 Los Angeles, Calif., *PST.*
6 a.m.-6:45 p.m.; 10 p.m.-mid.

KFVS 1210 Cape Girardeau, Mo.
9 a.m.-noon; 4-7:30; 9-mid.,
CST.

KFWB 950 Los Angeles, Calif., *PST.*
7:30 a.m.-mid.

KFWF 1200 St. Louis, Mo., *CST.*
Silent.

KFWI 930 San Francisco, Calif.
7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30
p.m.; 11-1 a.m., *PST.*

KFXD 1200 Nampa, Idaho, *MST.*
7 a.m.-9 p.m.

KFXF 920 Denver, Colo., *MST.*
8:30-10 a.m.; 12:30-3; 4:30-6;
7:30-mid.

KFXJ 1200 Grand Jet., Colo., *MST.*
8 a.m.-2 p.m.; 6-9 p.m.

KFXM 1210 San Bernardino, Calif.
7 a.m.-mid., *PST.*

KFXR 1310 Oklahoma City, Okla.
7:30 a.m.-2 p.m.; 4-10, *CST.*

KFYO 1310 Lubbock, Texas, *CST.*
6 a.m.-2 p.m.; 4-10 p.m.

KFYR 550 Bismarck, N. D., *CST.*
6:30 a.m.-12:30 p.m.; 2-11 p.m.

KGA 1470 Spokane, Wash., *PST.*
6 a.m.-mid.

KGAR 1370 Tucson, Ariz., *MST.*
7 a.m.-1:30 p.m.; 4-11.

KGB 1330 San Diego, Calif., *PST.*
7 a.m.-mid.

KGBU 900 Ketchikan, Alaska.
(Zone 8), 10 a.m.-3 p.m.; 5-7;
10 p.m.-3 a.m.

KGBX 1310 Springfield, Mo., *CST.*
6:30-9:30 a.m.; 11 a.m.-2 p.m.;
4-10 p.m.

KGBZ 930 York, Neb., *CST.*
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.

KGCA 1270 Decorah, Iowa, *CST.*
8:30-9:45 a.m.; 10:45-11:30 a.
m.; 12:30-2:30 p.m.

KGCR 1210 Watertown, S. D., *CST.*
6:30 a.m.-3 p.m.; 5-9.

KGCU 1240 Mandan, N. D., *MST.*
Noon-5 p.m.; 6:45-9 p.m.

KGCC 1310 Wolf Point, Mont., *MST.*
6:30-9 a.m.; 11:30-3; 6-9 p.m.

KGDA 1370 Mitchell, S. D., *CST.*
8 a.m.-4:30 p.m.; 5-9:30.

KGDE 1200 Fergus Falls, Minn.
7 a.m.-9 p.m., *CST.*

KGDM 1100 Stockton, Calif., *PST.*
6 a.m.-sunset.

KGDY 1200 Huron, S. D., *CST.*
7 a.m.-2 p.m.; 4-9 p.m.

KGEG 1200 Yuma, Colo., *MST.*
11:30 a.m.-mid.

KGER 1360 Long Beach, Calif., *PST.*
6 a.m.-1:15 a.m.

KGEW 1200 Ft. Morgan, Colo., *MST.*
Silent.

KGEZ 1310 Kalispell, Mont., *MST.*
8 a.m.-9 p.m.

KGFF 1420 Shawnee, Okla., *CST.*
7:30 a.m.-9 p.m.

KGFG 1370 Oklahoma City, Okla.
7:15-10 p.m.; 3-3:45 p.m.; 7:45-
9:15 p.m., *CST.*

KGFI 1500 Corpus Christi, Texas.
7 a.m.-3 p.m.; 6-10 p.m., *CST.*

KGFI 1200 Los Angeles, Calif.
24 hours daily.

KGFK 1500 Moorhead, Minn., *CST.*
8 a.m.-9 p.m.

KGFL 1300 Santa Fe, N. M., *MST.*
9-10 a.m.; 11 a.m.-3 p.m.; 4-5:30
p.m.; 7:30-9.

KGFW 1310 Kearney, Neb., *CST.*
7:30 a.m.-1:30 p.m.; 5-10:30 p.m.

KGFS 630 Pierre, S. D.

KGGC 1420 San Francisco, Calif.
9 a.m.-9 p.m., *PST.*

KGGF 1010 Coffeyville, Kans., *CST.*
7:30 a.m.-2 p.m.; 5-10:30.

KGGM 1230 Albuquerque, N. M.
8 a.m.-2 p.m.; 4-10 p.m., *MST.*

KGHF 1320 Pueblo, Colo., *MST.*
7 a.m.-1 p.m.; 4-10 p.m.

KGHI 1200 Little Rock, Ark., *CST.*
8:30 a.m.-1:30 p.m.; 5-9. mid-
3 a.m.

KGHL 950 Billings, Mont., *MST.*
7:30 a.m.-4 p.m.; 5:30-11.

KGIR 1360 Butte, Mont., *MST.*
7 a.m.-mid.

KGII 1420 Trinidad, Colo., *MST.*
6-8 a.m.; 10-2 p.m.; 5-8 p.m.

KGIX 1420 Las Vegas, Nev., *PST.*
6-9 a.m.; noon-3 p.m.; 6-9 p.m.

KGIZ 1500 Grant City, Mo., *CST.*
7-11 a.m.; noon-3 p.m.; 6-9 p.m.

KGKB 1500 Tyler, Texas, *CST.*
7 a.m.-2 p.m.; 4-10 p.m.

KGKL 1370 San Angelo, Texas, *CST.*
8 a.m.-11:30 p.m.

KGKO 570 Wichita Falls, Texas.

KGKY 1420 Lewiston, Idaho.

KGKY 1500 Scottsbluff, Neb., *MST.*
6:30 a.m.-2 p.m.; 4:30-9.

KGMB 1320 Honolulu, Hawaii.
7-9 a.m.; 10:40 a.m.-11 p.m.
(Zone 5)

KGNF 1430 North Platte, Neb.
7 a.m.-sunset, *MST.*

KGNO 1210 Dodge City, Kans.
7:30 a.m.-3:30 p.m.; 5-9, *MST.*

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. KSOO 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 830 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 1180 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. KOH 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 590 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 1480 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.	KOMO 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.	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 Marshfield, 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.	KUJ 1370 Walla Walla, Wash. 6 a.m.-sunset, <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 859 Glendale, Calif., <i>PST</i> . 6 a.m.-sunset.	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.
KIFH 1310 Juneau, Alaska.	KPJM 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 1270 Seattle, Wash.
KJR 970 Seattle, Wash., <i>PST</i> . 7 a.m.-mid.	KPPC 1210 Pasadena, Calif., <i>PST</i> . Silent.	KVOA 1360 Tucson, Ariz., <i>CST</i> . 6-9 a.m.; noon-3 p.m.; 6-9 p.m.
KLCN 1290 Rlytheville, Ark.	KPQ 1500 Wenatchee, Wash., <i>PST</i> . 7 a.m.-10 p.m.	KVOO 1140 Tulsa, Okla., <i>MST</i> . 7 a.m.-1:30 p.m.; 3-7:45; 9-mid.
KLO 1400 Ogden, Utah. 8:30 a.m.-10:30 p.m., <i>MST</i> .	KQV 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> .
KLPM 1240 Minot, N. D., <i>CST</i> . 7 a.m.-1 p.m.; 6-7:45 p.m.; 10- 11:30 p.m.	KQW 1380 Pittsburgh, Pa., <i>EST</i> . 8:30 a.m.-7:10 p.m.; 2-11 p.m.	KVOS 1200 Bellingham, Wash.
KLRA 1390 Little Rock, Ark., <i>CST</i> . 8-11 a.m.; 1-5 p.m.; 6:30-11 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.
KLS 1440 Oakland, Calif., <i>PST</i> . 8:30 a.m.-7:30 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.
KLX 880 Oakland, Calif., <i>PST</i> . 7 a.m.-11 p.m.	KREG 1500 Santa Ana, Calif., <i>PST</i> . 9 a.m.-11 p.m.	KWG 1200 Stockton, Calif., <i>PST</i> . 7 a.m.-mid.
KLZ 560 Denver, Colo., <i>MST</i> . 6:30 a.m.-11:30 p.m.	KRGV 1260 Harlingen, Texas, <i>CST</i> . 7-9:30 a.m.; 12:30-3:30 p.m.	KWJJ 1060 Portland, Ore.
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.	KRKD 1120 Los Angeles, Calif., <i>PST</i> . 6 a.m.-1:30 p.m.; 3-7:30 p.m.	KWK 1350 St. Louis, Mo., <i>CST</i> . 6:55 a.m.-12:15 a.m. next day.
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.	KRLD 1040 Dallas, Texas, <i>CST</i> . 6-7:15 a.m.; 7:45-9 a.m.; 10-11 a.m.; 12:30-4:30; 5:30-7; 9:30- mid.	KWKH 1370 Kansas City, Mo.
KMBC 950 Kansas City, Mo., <i>CST</i> . 6:15 a.m.-mid.	KRMD 1310 Shreveport, Ia., <i>CST</i> . 7 a.m.-1 p.m.; 2-5 p.m.	KWKH 850 Shreveport, La., <i>CST</i> . 8:30 p.m.-mid.
KMED 1310 Medford, Ore., <i>PST</i> . 8 a.m.-9:30 p.m.	KROW 930 Oakland, Calif., <i>PST</i> . 8-9 a.m.; 1-6 p.m.; 7:30-11 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.
KMJ 580 Fresno, Calif., <i>PST</i> . 7 a.m.-mid.	KRSC 1120 Seattle, Wash., <i>PST</i> . Sunrise to local sunset.	KWSC 1220 Pullman, Wash., <i>PST</i> . 6:45-8 a.m.; 10:30 a.m.-9:30 p.m.
KMLB 1200 Monroe, La., <i>CST</i> . 7 a.m.-10 p.m.	KSAC 580 Manhattan, Kans., <i>CST</i> . 8-9 a.m.; 10-10:30 a.m.; 12:30- 1:30 p.m.	KWWG 1260 Brownsville, Texas.
KMMJ 740 Clay Center, Neb., <i>CST</i> . 5:45 a.m.-sunset.	KSCJ 1330 Sioux City, Iowa, <i>CST</i> . 6:30 a.m.-11 p.m.	KXA 760 Seattle, Wash., <i>PST</i> . 7 a.m.-sundown; 9 p.m.-mid.
KMO 1330 Tacoma, Wash., <i>PST</i> . 6:30 a.m.-11 p.m.	KSD 550 St. Louis, Mo., <i>CST</i> . 7 a.m.-12:15 p.m.; 12:40-1; 4:30- 11 p.m.	KXL 1420 Portland, Ore., <i>PST</i> . 7 a.m.-mid.
KMOX 1090 St. Louis, Mo., <i>CST</i> . 6:45 a.m.-1 a.m.	KSEI 890 Pocatello, Idaho, <i>MST</i> . 8 a.m.-11 p.m.	KXO 1500 El Centro, Calif.
KMPC 710 Beverly Hills, Calif. 6:30 a.m.-5:15 p.m.; 8-1 a.m. <i>PST</i> .	KSL 1130 Salt Lake City, Utah. 7 a.m.-mid., <i>MST</i> .	KXRO 1310 Aberdeen, Wash., <i>PST</i> . 7:30 a.m.-mid.
KMTR 570 Hollywood, Calif., <i>PST</i> . 6:30 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.
KNOW 1500 Austin, Texas, <i>CST</i> . 7:30 a.m.-1 p.m.; 5-11 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 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.	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.
RUS 664 Salvador.	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.
TICR 911 San Jose, C. R.	WBEN 900 Buffalo, N. Y., <i>EST.</i> 6:45 a.m.-1 a.m.	WCOC 880 Meridian, Miss., <i>CST.</i> 7:30 a.m.-2 p.m.; 5-11 p.m.
VAS 685 Glace Bay, N. S., <i>AST.</i> 1-1:15 p.m.; mid.-12:15 a.m.	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.
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)	WBHS 1200 Huntsville, Ala., <i>CST.</i> 8 a.m.-2 p.m.; 5-9:30 p.m.	WCRW 1210 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.
VOGT 893 Wabana, N. F. Silent.	WBIG 1440 Greensboro, N. C., <i>EST.</i> 8 a.m.-11 p.m.	WCSC 1360 Charleston, S. C., <i>EST.</i> 8 a.m.-3 p.m.; 6-11 p.m.
VOGY 860 St. Johns, N. F.	WBXJ 1350 New York City, <i>EST.</i> 9 a.m.-noon; 3-6 p.m.	WCSE 940 Portland, Maine, <i>EST.</i> 7:45 a.m.-1 p.m.; 2:30-11:15 p.m.
VONA 950 St. Johns, N. F. 12:30-2 p.m.; 6:30-8 p.m. (Zone 19)	WBOQ 860 New York City.	WDAE 1220 Tampa, Fla., <i>EST.</i> 8 a.m.-mid.
VONF 1195 St. Johns, N. F. Noon-2 p.m.; 6-8 p.m. (Zone 19)	WBOW 1310 Terre Haute, Ind., <i>CST.</i> 7 a.m.-2 p.m.; 4-mid.	WDAF 610 Kansas City, Mo., <i>CST.</i> 6:26 a.m.-mid.
VOWR 750 St. Johns, N. F. Silent.	WBRC 930 Birmingham, Ala., <i>CST.</i> 7 a.m.-11 p.m.	WDAG 1410 Amarillo, Texas, <i>CST.</i> 8-10 a.m.; 12:30-3; 4:30-6; 7:30-9; 10-mid.
WAAB 1410 Boston, Mass., <i>EST.</i> 7:45 a.m.-mid.	WBRE 1310 Wilkes Barre, Pa.	WDAL 1310 El Paso, Texas.
WAAF 920 Chicago, Ill., <i>CST.</i> 6 a.m.-local sunset.	WBRO 920 Babson Park, Mass., 7 a.m.-5 p.m. <i>EST.</i>	WDAS 1370 Philadelphia, Pa., <i>EST.</i> 9 a.m.-10:30 p.m.
WAAM 1250 Newark, N. J., <i>EST.</i> 7-9 a.m.; 10 a.m.-noon; 2-4:30; 6-9 p.m.	WBT 1080 Charlotte, N. C., <i>EST.</i> 7 a.m.-mid.	WDAY 940 Fargo, N. D., <i>CST.</i> 6 a.m.-11 p.m.
WAAT 940 Jersey City, N. J., <i>EST.</i> 6 a.m.-6 p.m.	WBTM 1370 Danville, Va., <i>EST.</i> 11 a.m.-1 p.m.; 6-6:30; 7-10:30 p.m.	WDBJ 930 Roanoke, Va., <i>EST.</i> 8 a.m.-mid.
WAAW 660 Omaha, Neb., <i>CST.</i> 6 a.m.-6 p.m.	WBZ 990 Boston, Mass., <i>EST.</i> 7 a.m.-mid.	WDBO 580 Orlando, Fla., <i>EST.</i> 7 a.m.-mid.
WABC 860 New York City, <i>EST.</i> 7:30 a.m.-2 a.m. next day.	WBZA 990 Springfield, Mass., <i>EST.</i> 7 a.m.-mid.	WDEL 1120 Wilmington, Del., <i>EST.</i> 9 a.m.-10 p.m.
WABI 1200 Bangor, Maine, <i>EST.</i> 9 a.m.-2 p.m.; 6-10 p.m.	WCAC 600 Storrs, Conn., <i>EST.</i> Silent.	WDEW 550 Waterbury, Vt., <i>EST.</i> 9:30-11 a.m.; noon-2 p.m.
WABZ 1200 New Orleans, La., <i>CST.</i> Noon-4 p.m.; 8 p.m.-mid.	WCAD 1220 Canton, N. Y., <i>EST.</i> 12:30-1:20 p.m.	WDGY 1180 Minneapolis, Minn. 6:30 a.m.-8:15 p.m. <i>CST.</i>
WACO 1240 Waco, Texas, <i>CST.</i> 6-7 a.m.; 9-noon; 1:30-4 p.m.; 7-9 p.m.	WCAE 1220 Pittsburgh, Pa., <i>EST.</i> 6:45 a.m.-mid.	WDOB 1280 Chattanooga, Tenn. 7:30 a.m.-11 p.m. <i>CST.</i>
WADC 1320 Akron, Ohio, <i>EST.</i> 8:30 a.m.-mid.	WCAH 1430 Columbus, Ohio, <i>EST.</i> 7:45 a.m.-mid.	WDRC 1330 Hartford, Conn., <i>EST.</i> 8 a.m.-mid.
WAGM 1420 Presque Isle, Me., <i>EST.</i> 10 a.m.-1 p.m.; 4:30-9:30 p.m.	WCAJ 590 Lincoln, Neb., <i>CST.</i> 10-10:45 a.m.; noon-12:30 p.m.	WDSU 1250 New Orleans, La., <i>CST.</i> 7 a.m.-11:45 p.m.
WAIU 640 Columbus, Ohio, <i>EST.</i> 7 a.m.-sunset.	WCAL 1250 Northfield, Minn., <i>CST.</i> 9-4:15 a.m.	WDZ 1070 Tuscola, Ill., <i>CST.</i> 7 a.m.-4:30 p.m.
WALR 1210 Zanesville, Ohio, <i>EST.</i> 9 a.m.-10 p.m.	WCAM 1280 Camden, N. J., <i>EST.</i> Silent.	WEAF 660 New York City, <i>EST.</i> 6:45 a.m.-1 a.m. next day.
WAMC 1420 Anniston, Ala., <i>CST.</i> 7-10:30 a.m.; noon-9 p.m.	WCAO 600 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	WEAN 780 Providence, R. I., <i>EST.</i> 7:30 a.m.-1 a.m. next day.
WAML 1310 Laurel, Miss.	WCAP 1280 Asbury Park, N. J., <i>EST.</i> 9 a.m.-noon; 2-7:30 p.m.	WEAO 570 Columbus, Ohio, <i>EST.</i> 1 p.m.-mid.
WAPI 1140 Birmingham, Ala., <i>CST.</i> 6 a.m.-9 p.m.	WCAT 1200 Rapid City, S. D., <i>CST.</i> 1:30-2:30 p.m.	WEBC 1290 Superior, Wis., <i>CST.</i> 7 a.m.-11 p.m.
WASH 1270 Gd. Rapids, Mich., <i>EST.</i> 7 a.m.-mid.	WCAU 1170 Philadelphia, Pa., <i>EST.</i> 8 a.m.-1 a.m. next day.	WEBQ 1210 Harrisburg, Ill., <i>CST.</i> 6-9 a.m.; noon-1 p.m.; 7:30-9 p.m.
WAWZ 1350 Zarephath, N. J., <i>EST.</i> 7:45-8:45 a.m.	WCAX 1200 Burlington, Vt., <i>EST.</i> Noon-1 p.m.	WEBR 1310 Buffalo, N. Y., <i>EST.</i> 7 a.m.-2 a.m. next day.
WAZL 1420 Hazelton, Pa., <i>EST.</i>	WCAZ 1070 Carthage, Ill., <i>CST.</i> 1:30 p.m.-2 p.m.	WEDC 590 Boston, Mass., <i>EST.</i> 6:45 a.m.-mid.
WBAA 1400 Lafayette, Ind., <i>CST.</i> Silent.	WCBA 1440 Allentown, Pa., <i>EST.</i> 7:30 a.m.-1 p.m.	WEEI 590 Boston, Mass., <i>EST.</i> 6:45 a.m.-mid.
WBKA 1430 Harrisburg, Pa., <i>EST.</i> 10:30-11:30 a.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.
WBAL 1060 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	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.
WBAP 800 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.	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.
WBAX 1210 Wilkes Barre, Pa., <i>EST.</i> 7:30-noon; 6-11 p.m.	WCCO 810 Minneapolis, Minn. 6:45 a.m.-12:30 a.m. <i>CST.</i>	WELL 1420 Battle Creek, Mich.
WBBC 1400 Brooklyn, N. Y., <i>EST.</i> 7 a.m.-11; 7:30 p.m.-9 p.m.	WCDA 1350 New York City, <i>EST.</i> 6 p.m.-mid.	WENC 1420 Americus, Ga., <i>EST.</i> 7 a.m.-2 p.m.; 4 p.m.-sunset.
WBBL 1210 Richmond, Va., <i>EST.</i> Silent.	WCFL 970 Chicago, Ill., <i>CST.</i> 6 a.m.-mid.	WENR 870 Chicago, Ill., <i>CST.</i> 10:15-11:45 a.m.; 3:30-7 p.m.; mid.-1:30 a.m.
WBMM 770 Chicago, Ill., <i>CST.</i> 6:45 a.m.-10 p.m.; 11:30 p.m.- 2 a.m.	WCGU 1400 Brooklyn, N. Y., <i>EST.</i> 3-4:5 p.m.-6; 10:30 p.m.-2 a.m.	WERE 1420 Erie, Pa., <i>EST.</i>
	WCKY 1490 Covington, Ky., <i>CST.</i> Mid-mid.	

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> 1 a.m.-1 a.m. next day.
WEW 760 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 860 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 1200 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. 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.
WFBE 1200 Cincinnati, Ohio, <i>EST.</i> 7 a.m.-11 p.m.	WHBF 1210 Rock Island, Ill., <i>CST.</i> 10 a.m.-4 p.m.; 5-mid.	WJAX 900 Jacksonville, Fla., <i>EST.</i> 7 a.m.-mid.
WFBG 1310 Altoona, Pa. 10:30 a.m.-2:30 p.m.; 6:15-9:15 p.m.	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.
WFBL 1360 Syracuse, N. Y., <i>EST.</i> 7:30 a.m.-mid.	WHBQ 1370 Memphis, Tenn., <i>CST.</i> 7:55 a.m.-10:30 p.m.	WJBC 1200 LaSalle, Ill., <i>CST.</i> 8-9 a.m.; 10 a.m.-12:30 p.m.; 3:30-6:30 p.m.
WFBM 1230 Indianapolis, Ind., <i>CST.</i> 7:30-10:15 a.m.; noon-3 p.m.; 5:30 p.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.
WFBR 1270 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	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.
WFDF 1310 Flint, Mich., <i>EST.</i> 7 a.m.-11 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.
WFDV 1500 Rome, Ga., <i>CST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 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. Noon-6 p.m.
WFEA 1430 Manchester, N. H., <i>EST.</i> 9 a.m.-11 p.m.	WHDL 1420 Tupper Lake, N. Y., <i>EST.</i> 7:45 a.m.-1 p.m.; 3-7:45 p.m.	WJBW 1200 New Orleans, La., <i>CST.</i> 8 a.m.-noon; 4-8 p.m.
WFI 560 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.	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.
WFIW 940 Hopkinsville, Ky., <i>CST.</i> 6 a.m.-3 p.m.; 5 p.m.-mid.	WHEC 1030 Rochester, N. Y., <i>EST.</i> 8 a.m.-mid.	WJDX 1270 Jackson, Miss., <i>CST.</i> 6:15-10 a.m.; 11:30 a.m.-10 p.m.
WFLA 620 Clearwater, Fla., <i>EST.</i> 7:15 a.m.-mid.	WHEF 1500 Koseusko, Miss. 6-8 a.m.; 11 a.m.-5 p.m.	WJEJ 1210 Hagerstown, Md. 7 a.m.-5 p.m.
WFOX 1400 Brooklyn, N. Y., <i>EST.</i> 1:30-3:45 p.m.; 9-10:30 p.m.	WHET 1210 Troy, Ala., <i>CST.</i> 6-8 a.m.; 11 a.m.-5 p.m.	WJEQ 1370 Williamsport, Pa. 6 a.m.-8:30 p.m.
WGAL 1310 Lancaster, Pa., <i>EST.</i> 10 a.m.-noon; 1:30-11 p.m.	WHFC 1420 Cicero, Ill., <i>CST.</i> 7 a.m.-1:30 p.m.; 6 p.m.-1 a.m.	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.	WHIS 1410 Bluefield, W. Va., <i>EST.</i> 8-9 a.m.; noon-2 p.m.; 6-8 p.m.	WJKS 1360 Gary, Ind., <i>CST.</i> 12:30-6:15 p.m.; 8-11 p.m.
WGBB 1210 Freeport, N. Y., <i>EST.</i> Silent.	WHK 1390 Cleveland, Ohio, <i>EST.</i> 7 a.m.-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.	WHN 1010 New York City, <i>EST.</i> 1:30 p.m.-4 p.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.	WHO 1000 Des Moines, Iowa. 1450 Jersey City, N. J., <i>EST.</i> 8-10 a.m.; 3-6 p.m.; 9-mid.	WJSV 6:00 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.	WHOM 1450 Jersey City, N. J., <i>EST.</i> 8-10 a.m.; 3-6 p.m.; 9-mid.	WJTL 1370 Atlanta, Ga., <i>CST.</i> 6:45 a.m.-mid.
WGCP 1250 Newark, N. J., <i>EST.</i> Silent.	WHP 1430 Harrisburg, Pa., <i>EST.</i> 8:30-10:30 a.m.; 11:30 a.m.-1 a.m.	WJW 1210 Akron, Ohio, <i>EST.</i> 8 a.m.-10 p.m.
WGES 1360 Chicago, Ill., <i>CST.</i> 8 a.m.-12:30 p.m.; 6:15-8:30; 11 p.m.-2 a.m.	WIAS 1310 Ottumwa, Iowa, <i>CST.</i> 7-30 a.m.-1:30 p.m.; 4-9 p.m.	WJZ 750 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>	WIBA 1280 Madison, Wis., <i>CST.</i> 6:30 a.m.-11:30 p.m.	WKAQ 1240 San Juan, P. R., <i>AST.</i> 7:30-4:30 p.m.; 7:30-10:30 p.m.
WGL 1370 Fort Wayne, Ind., <i>CST.</i> 6:15 a.m.-9:30 p.m.	WIBG 930 Glenside, Pa., <i>EST.</i> Daybreak to sunset.	WKAR 1040 E. Lansing, Mich., <i>EST.</i> 11-11:45 a.m.
WGLC 1370 Hudson Falls, N. Y., <i>EST.</i> 7:30 a.m.-2 a.m.	WIBM 1370 Jackson, Mich., <i>EST.</i> 7:30 a.m.-8:15 p.m.	WKAV 1310 Leconia, N. H., <i>EST.</i> 9 a.m.-1 p.m.; 3-8 p.m.
WGN 1210 Chester, N. Y., <i>EST.</i> 7:30 a.m.-mid.	WIBO 560 Chicago, Ill., <i>CST.</i> 6:30 a.m.-mid.	WKBB 1310 Joliet, Ill., <i>CST.</i> 8-11 a.m.; noon-3 p.m.; 8-10 p.m.
WGR 550 Buffalo, N. Y., <i>EST.</i> 7:30 a.m.-mid.	WIBU 1210 Poynette, Wis., <i>CST.</i> 9 a.m.-9 p.m.	WKBC 1350 Birmingham, Ala. 1400 Indianapolis, Ind., <i>CST.</i> 6:30 a.m.-1:15 p.m.; 4:15-9; 7-8-mid.
WGST 890 Atlanta, Ga., <i>CST.</i> 7 a.m.-11 p.m.	WIBW 580 Topeka, Kans., <i>CST.</i> 6 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.	WIBX 1200 Utica, N. Y. 600 Bridgeport, Conn., <i>EST.</i> 7:30 a.m.-mid.	WKBI 1420 Cicero, Ill., <i>CST.</i> 1:30-4 p.m.
	WIL 1200 St. Louis, Mo., <i>CST.</i> 7 a.m.-mid.	
	WILL 899 Urbana, Ill., <i>CST.</i> 10 a.m.-12:15 p.m.	
	WILM 1420 Wilmington, Del., <i>EST.</i> 7:30 a.m.-2 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.	WDS 630 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 1480 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.
WKCB 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 1160 Fort Wayne, Ind., <i>CST.</i> 7:30 a.m.-7:45 p.m.; 9:15 p.m.- mid.
WKEU 1500 LaGrange, Ga.	WMMN 890 Fairmont, W. Va., <i>EST.</i> 7 a.m.-9 p.m.	WPAD 1420 Paducah, Ky., <i>CST.</i> 7-9:30 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.	WMPG 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.	WPAA 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 600 Waterloo, Iowa, <i>CST.</i> 7 a.m.-11 p.m.	WPCC 560 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.-11 p.m.	WPCH 810 New York City, <i>EST.</i> 8 a.m.-sunset.
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 1200 Louisville, Ky., <i>CST.</i> 6:30 a.m.-11 p.m.	WNB 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., <i>EST.</i>	WPHR 1200 Petersburg, Va., <i>EST.</i> 7-11 a.m.; noon-5 p.m.; 6-9 p.m.
WLBC 1310 Muncie, Ind., <i>CST.</i> 7 a.m.-6 p.m.	WNBO 1200 Washington, Pa., <i>EST.</i> 9 a.m.-noon; 3-6 p.m.; 9 p.m.- mid.	WPOR 720 Norfolk, Va.
WLBF 1420 Kansas City, Kans. 7 a.m.-11 p.m., <i>CST.</i>	WNBR 1430 Memphis, Tenn., <i>CST.</i> 7:30 a.m.-12:30 p.m.; 3-10:15 p.m.	WPRO 1210 Providence, R. I., <i>EST.</i> 9 a.m.-1:45 p.m.; 3 p.m.-mid.
WLBL 900 Stevens Point, Wis. 8 a.m.-3 p.m., <i>CST.</i>	WNBW 1200 Carbondale, Pa.	WPTF 680 Raleigh, N. C., <i>EST.</i> 6:45 a.m.-9:15 p.m.
WLWB 1260 Erie, Pa., <i>EST.</i> 8 a.m.-1 a.m. next day.	WNBX 1260 Springfield, Vt., <i>EST.</i> 6 a.m.-sunset.	WQAM 560 Miami, Fla., <i>EST.</i> 7 a.m.-mid.
WLZ 620 Bangor, Maine, <i>EST.</i> 8:30 a.m.-mid.	WNBZ 1290 Saranac Lake, N. Y.	WQAN 880 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.	WNJ 1450 Newark, N. J., <i>EST.</i>	WQAO 1010 New York City, <i>EST</i> Silent.
WLIT 560 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.	WNOX 560 Knoxville, Tenn., <i>CST.</i> 6:45 a.m.-11 p.m.	WQBC 1360 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.	WNYC 570 New York City, <i>EST.</i> 11 a.m.-noon; 6-8:30 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.	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.	WQDX 1210 Thomasville, Ga.
WLTH 1400 Brooklyn, N. Y., <i>EST.</i> 11 a.m.-1:30 p.m.; 6-7:30 p.m.	WOAX 1280 Trenton, N. J., <i>EST.</i> Noon-2 p.m.; 7:30-mid.	WRAK 1370 Williamsport, Pa., <i>EST.</i> 8:30 a.m.-mid.
WLVA 1370 Lynchburg, Va., <i>EST.</i> 8 a.m.-11; 1-6 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 Wilkesboro, N. C., <i>EST.</i> 7:30 a.m.-3 p.m.; 6:30-11 p.m.
WLW 700 Cincinnati, Ohio, <i>EST.</i> 6:30 a.m.-1 a.m. next day.	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.
WLWL 1100 New York City. 6-8 p.m., <i>EST.</i>	WOCL 1210 Jamestown, N. Y., <i>EST.</i> Noon-mid.	WRAX 1020 Philadelphia, Pa., <i>EST.</i> 7 a.m.-sunset.
WMAC 570 Syracuse, N. Y.	WODA 1250 Paterson, N. J.	WRBL 1200 Columbus, Ga., <i>CST.</i> 7 a.m.-9 p.m.
WMAL 630 Washington, D. C., <i>EST.</i> 8 a.m.-mid.	WODX 1410 Mobile, Ala., <i>CST.</i> 9 a.m.-4 p.m.; 9-11 p.m.	WRB 1410 Roanoke, Va., <i>EST.</i> 9 a.m.-noon; 3-6 p.m.; 8 p.m.-1
WMAQ 670 Chicago, Ill., <i>CST.</i> 7 a.m.-1 a.m. next day.	WOI 640 Ames, Iowa, <i>CST.</i> 6:30 a.m.-2:30 p.m.	WRX 950 Washington, D. C., <i>EST.</i> 6:45 a.m.-1 a.m. next day.
WMAS 1420 Springfield, Mass., <i>EST.</i> 7:45 a.m.-mid.	WOKO 1430 Albany, N. Y., <i>EST.</i> 9 a.m.-1 a.m. next day.	WRZO 1370 Augusta, Maine, <i>EST.</i> 7-9:30 a.m.; 10:30 a.m.-1:30 p.m.; 3:30-10 p.m.
WMAZ 1180 Macon, Ga., <i>EST.</i> 7 a.m.-9:30 p.m.	WOL 1310 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.
WMBC 1420 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid.	WOMT 1210 Manitowoc, Wis., <i>CST.</i> 7 a.m.-9 p.m.	WREC 600 Memphis, Tenn.
WMBD 1440 Peoria, Ill., <i>CST.</i> 6-9:30 a.m.; 1-2:30 p.m.; 8-mid.	WODD 1270 Gd. Rapids, Mich., <i>EST.</i> 7 a.m.-mid.	WREN 1220 Lawrence, Kans., <i>CST.</i> 7 a.m.-mid.
WMBG 1210 Richmond, Va., <i>EST.</i> 7:30 a.m.-1:30 p.m.; 5-11 p.m.	WOPI 1500 Bristol, Tenn., <i>EST.</i> 7 a.m.-2 p.m.; 4-11 p.m.	WRHM 1250 Minneapolis, Minn. 6:15-9:45 a.m.; 10:35 a.m.-1 a.m. <i>CST.</i>
WMBH 1420 Joplin, Mo., <i>CST.</i> Noon-2 p.m.; 6-7 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.	WRJN 1370 Racine, Wis., <i>CST.</i> 8 a.m.-10:30 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.	WOR 710 Newark, N. J., <i>EST.</i> 6:45 a.m.-mid.	WRNY 1010 New York City.
WMBO 1310 Auburn, N. Y., <i>EST.</i> 9 a.m.-9 p.m.	WORC 1200 Worcester, Mass., <i>EST.</i> 8 a.m.-mid.	WROL 1310 Knoxville, Tenn., <i>CST.</i> 7 a.m.-10 p.m.
WMBQ 1500 Brooklyn, N. Y., <i>EST.</i> 9-11 a.m.	WORK 1000 York, Pa., <i>EST.</i> 7:55 a.m.-sunset.	WRR 1200 Dallas, Texas, <i>CST.</i> 6:30 a.m.-11 p.m.
		WRUF 830 Gainesville, Fla., <i>EST.</i> 8 a.m.-8 p.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 610 Mexico City, 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 Pachuca, Mex.
WSAJ 1310 Grove City, Pa. Silent.	WWJ 920 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid.	XETW 830 Mexico City, Mex.
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.	XEU 1010 Veraacruz, Mex., <i>CST.</i> 7-8 a.m.; 10-11 a.m.; noon-3 p.m.; 6-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.	XEW 910 Mexico City, Mex., <i>CST</i> 10 a.m.-mid.
WSAZ 580 Huntington, W. Va. <i>EST.</i> 6-9 a.m.; noon-2 p.m.; 4-8:30 p.m.	WWRL 1500 Woodside, N. Y., <i>EST.</i> 8-9 a.m.; 11 a.m.-noon; 2-3 p.m.; mid-3 a.m.	XEX 1210 Mexico City, 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.	XEY 546.8 Mexida, Mex.
WSBC 1210 Chicago, Ill., <i>CST.</i> 10-11:30 a.m.; 1:30-3:30; 5-6; 8-9; 11-mid.	WWVA 1160 Wheeling, W. Va., <i>EST.</i> 7:30 a.m.-mid.	XFB 840 Jalapa, 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.	XFC 805 Aguascalientes, Mex.
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.	XFG 638.3 Mexico City, Mex.
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.	XFI 818.1 Mexico City, Mex.
WSIX 1210 Springfield, Tenn., <i>CST.</i> 6 a.m.-3 p.m.; 6-9 p.m.	XEAW 965 Reynosa, Mex.	XFO 940 Mexico City, Mex.
WSJS 1310 Winston-Salem, N. C. 8 a.m.-mid., <i>EST.</i>	XEB 1030 Mexico City, Mex., <i>CST.</i> 8 a.m.-mid.	XFX 860 Mexico City, Mex.
WSM 650 Nashville, Tenn., <i>CST.</i> 7 a.m.-mid.	XEC 1000 Toluca, Mex.	YVIBC 960 Caracas, Venez. 11 a.m.-1:30 p.m.; 5:45-10:30 p.m.
WSMB 1320 New Orleans, La., <i>CST.</i> 7 a.m.-mid.	XED 1155 Guadalajara, Mex.	10-AB 1200 Moose Jaw, Sask., <i>MST.</i> 5:30-8:30 p.m.
WSMK 1380 Dayton, Ohio, <i>EST.</i> 7 a.m.-8 p.m.; 10 p.m.-mid.	XEF 735 Villa Acuna, Mex. 24 hours daily.	10-AK 1200 Stratford, Ont., <i>EST.</i> 6-8 p.m.
WSOC 1210 Gastonia, N. C., <i>EST.</i> 8 a.m.-10 p.m.	XEFA 250 Mexico City, Mex.	10AT 1158 Trail, B. C., <i>PST.</i> 9 a.m.-2 p.m.; 5-10 p.m.
WSPA 1420 Spartanburg, S. C., <i>EST.</i> 7:30 a.m.-11 p.m.	XEFB 1315 Monterrey, Mex., <i>CST.</i> 11 a.m.-2 p.m.; 6-10 p.m.	10-BI 1200 Prince Albert, Sask. Noon-1 p.m.; 6-8 p.m.; 10-mid. <i>MST.</i>
WSPD 1340 Toledo, Ohio, <i>EST.</i> 7:30 a.m.-mid.	XEFC 1050 Merida, Mex.	10-BP 1199 Wingham, Ont., <i>EST.</i> 9:30-11 p.m.
WSUI 880 Iowa City, Iowa, <i>CST.</i> 9-10 a.m.; 6-7 p.m.	XEFD 1020 Tijuana, Mex.	10-BQ 1200 Brantford, Ont., <i>EST.</i> 6-7 p.m.
WSUN 620 St. Petersburg, Fla., <i>EST.</i> 7:15 a.m.-mid.	XEFE 1000 Laredo, Mex.	10-BU 1200 Canora, Sask.
WSVS 1370 Buffalo, N. Y., <i>EST.</i> 8:30 a.m.-10 a.m.; 2-3 p.m.	XEFH 1360 Mexico City, Mex.	
WSYB 1500 Rutland, Vt., <i>EST.</i> 10 a.m.-1 p.m.; 5-9 p.m.	XEFI 1000 Chihuahua, Mex.	
WSYR 570 Syracuse, N. Y., <i>EST.</i> 7 a.m.-3 p.m.; 4-11 p.m.	XEFJ 1000 Monterrey, Mex.	
WTAD 1440 Quincy, Ill., <i>CST.</i> 9:30 a.m.-1 p.m.; 2:30-8 p.m.	XEFO 940 Mexico City, Mex., <i>CST.</i> 2-3 p.m.; 7-11 p.m.	
WTAG 580 Worcester, Mass., <i>EST.</i> 8 a.m.-11:15 p.m.	XEFS 1000 Queretaro, Mex., <i>CST.</i> 7-11:30 p.m.	
WTAM 1070 Cleveland, Ohio, <i>EST.</i> 6:30 a.m.-1 a.m. next day.	XEFV 1370 Juarez, Mex.	
WTAQ 1330 Eau Claire, Wis., <i>CST.</i> 7 a.m.-8 p.m.	XEFW 1240 Tampico, Mex.	
WTAR 780 Norfolk, Va., <i>EST.</i> 7 a.m.-mid.	XEFZ 1500 Cooyacan, Mex., <i>CST.</i> 8-11 p.m.	
WTAW 1120 College Station, Texas. Silent.	XEG 1075 Mexico City, Mex.	
WTAX 1210 Springfield, Ill., <i>CST.</i> 7 a.m.-11:15; 3-6:45; 8:30-mid.	XEH 1132 Monterrey, Mex., <i>CST.</i> 9 a.m.-1:30 p.m.; 6-10 p.m.	
WTBO 1420 Cumberland, Md., <i>EST.</i> 7 a.m.-1:30 p.m.; 2:30-8 p.m.	XEI 1310 Morelia, Mex., <i>CST.</i> 2-3:30 p.m.; 8:30-10:30 p.m.	
WTEL 1310 Philadelphia, Pa., <i>EST.</i> 7-9 a.m.; 11-1 p.m.; 4-9 p.m.	XEJ 1000 Juarez, Mex., <i>CST.</i> 11 a.m.-4 p.m.; 6-11 p.m.	
WTFI 1450 Athens, Ga., <i>EST.</i> 8 a.m.-4 p.m.; 6-10 p.m.	XEK 990 Mexico City, Mex.	
WTIC 1060 Hartford, Conn., <i>EST.</i> 7 a.m.-4 p.m.	XEL 1000 Saltillo, Mex., <i>CST.</i> 11 a.m.-1 p.m.; 6-9 p.m.	
WTJS 1310 Jackson, Tenn., <i>CST.</i> 7 a.m.-1 p.m.; 3-10:30 p.m.	XEN 711 Mexico City, <i>CST.</i> 10 a.m.-noon; 2-4 p.m.; 7-mid.	
WTMJ 620 Milwaukee, Wis., <i>CST.</i> 6:45 a.m.-12:30 a.m.	XENT 1115 Nuevo Laredo, Mex.	
WTOC 1260 Savannah, Ga., <i>EST.</i> 7 a.m.-mid.	XEP 780 Mexico City, Mex.	
	XEPN 585 Piedras Negras, Mex.	
	XER 735 Villa Acuna, Mex. 24 hours daily.	
	XES 1055 Tampico, Mex., <i>CST.</i> 9-10:30 a.m.; noon-2 p.m.; 5-6; 6:30-10 p.m.	
	XET 690 Monterrey, Mex., <i>CST</i> 9 a.m.-2 p.m.; 6-10 p.m.	
	XETA 1140 Mexico City, Mex.	
	XETB 1380 Torreon, Mex.	
	XETC 1000 Jalapa, Mex.	
	XETF 630 Veracruz, Mex., <i>CST.</i> 7-8 a.m.; noon-2 p.m.; 7 p.m. mid.	
	XETH 840 Puebla, Mex.	
	XETM 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	Call	Megs.	Mtr	City
WPDO	2.458	121.97	Akron, Ohio.	WPDL	2.442	122.77	Lansing, Mich.
WPED	1.712	175.13	Arlington, Mass.	WPET	1.712	175.13	Lexington, Ky.
WPDY	2.414	124.20	Atlanta, Ga.	KGPL	1.712	175.13	Los Angeles, Calif.
WPDN	2.458	121.97	Auburn, N. Y.	WPDE	2.442	122.77	Louisville, Ky.
KGPS	2.414	124.20	Bakersfield, Calif.	WPEC	2.470	121.40	Memphis, Tenn.
WPEQ	1.570	191.08	Baton Rouge, La.	WPEL	1.570	191.08	Middleboro, Mass.
KG PJ	1.712	175.13	Beaumont, Texas	WPKD	2.450	122.40	Milwaukee, Wis.
KSW	2.422	123.79	Berkeley, Calif.	KGPB	2.416	124.09	Minneapolis, Minn.
WEY	1.558	192.43	Boston, Mass.	W PFA	1.712	175.13	Newton, Mass.
WPEJ	1.712	175.13	Brookline, Mass.	WPEK	2.430	123.45	New Orleans, La.
WPEE	2.450	122.40	Brooklyn, N. Y.	WCF	1.596	187.85	New York, N. Y.
WRDU	1.596	187.85	Brooklyn, N. Y.	WPEG	2.450	122.40	New York, N. Y.
WPEF	2.450	122.40	Bronx, N. Y.	WPEW	1.570	191.08	Northampton, Mass.
WMJ	2.422	123.79	Buffalo, N. Y.	KGPH	2.450	122.40	Oklahoma City, Okla.
KGQZ	2.470	121.40	Cedar Rapids, Iowa	KGPI	2.470	121.40	Omaha, Neb.
KGZF	2.450	122.40	Chanute, Kans.	KGJX	1.712	175.13	Pasadena, Calif.
WPDV	2.458	121.97	Charlotte, N. C.	WPDJ	2.414	124.20	Passaic, N. J.
WPEY	2.470	121.40	Chattanooga, Tenn.	W PDP	2.470	121.40	Philadelphia, Pa.
WPDB	1.712	175.13	Chicago, Ill.	W PDU	1.712	175.13	Pittsburgh, Pa.
WPDC	1.712	175.13	Chicago, Ill.	KGPP	2.442	122.77	Portland, Ore.
WPDD	1.712	175.13	Chicago, Ill.	WPEI	1.712	175.13	Providence, R.I.
WKDU	1.712	175.13	Cincinnati, Ohio	WPDH	2.442	122.77	Richmond, Ind.
WRDH	2.458	121.97	Cleveland, Ohio	W PDR	2.458	121.97	Rochester, N. Y.
W PDI	2.430	123.45	Columbus, Ohio	W PDS	2.442	122.77	Saginaw, Mich.
KVP	1.712	175.13	Dallas, Texas	KGPC	1.712	175.13	St. Louis, Mo.
KGPN	2.470	121.40	Davenport, Iowa	W PDS	2.146	124.09	St. Paul, Minn.
W PDM	2.430	123.45	Dayton, Ohio	KG PW	2.470	121.40	Salt Lake City
KG PX	2.442	122.77	Denver, Colo.	KGZE	2.506	119.64	San Antonio, Texas
KGZG	2.470	121.40	Des Moines, Iowa	KGZD	2.430	123.45	San Diego, Calif.
WCK	2.414	121.20	Detroit, Mich.	KGPD	1.558	192.43	San Francisco, Calif.
WKDT	1.596	187.85	Detroit, Mich.	KGPD	2.470	121.40	San Francisco, Calif.
W PDX	2.414	124.20	Detroit, Mich.	KGPM	2.470	121.40	San Jose, Calif.
WRDS	1.574	190.48	East Lansing, Mich.	KGPA	2.414	124.20	Seattle, Wash.
W PDF	2.442	122.77	Flint, Mich.	KG PY	1.574	190.48	Shreveport, La.
W PDI	2.470	121.40	Fort Wayne, Ind.	KGPK	2.470	121.40	Sioux City, Iowa
KGPR	1.712	175.13	Fort Worth, Texas	WPEH	1.712	175.13	Somerville, Mass.
WMP	1.574	190.48	Frammingham, Mass.	WPEA	2.458	121.97	Syracuse, N. Y.
KGZA	2.414	124.20	Fresno, Calif.	WRDQ	2.470	121.40	Toledo, Ohio
WPEB	2.442	122.77	Grand Rapids, Mich.	KGZC	2.422	123.79	Topeka, Kans.
WRDR	2.414	124.20	Grosse Pt., Mich.	W PDA	2.414	124.20	Tulare, Calif.
W PDI	2.414	124.20	Highland Park, Mich.	KGPO	2.450	122.40	Tulsa, Okla.
KG PQ	2.450	122.40	Honolulu, Hawaii	KGPG	2.422	123.79	Vallejo, Calif.
KGZB	1.712	175.13	Houston, Texas	W PDI	2.422	123.79	Washington, D. C.
WMDZ	2.442	122.77	Indianapolis, Ind.	KGPI	2.450	122.40	Wichita, Kans.
KGPE	2.422	123.79	Kansas City, Mo.	KGZI	1.712	175.13	Wichita Falls, Texas
KGZH	2.442	122.77	Klamath Falls, Ore.	WPEM	2.470	121.40	Winoosket, R. I.
W PDI	2.470	121.40	Kokomo, Ind.				

By Call Letters

Call	Megs.	Mtr	City	Call	Megs.	Mtr	City
KGJX	1.712	175.13	Pasadena, Calif.	KGZD	2.430	123.45	San Diego, Calif.
KGQZ	2.470	121.40	Cedar Rapids, Iowa	KGZE	2.506	119.64	San Antonio, Texas
KGPA	2.414	124.20	Seattle, Wash.	KGZF	2.450	122.40	Chanute, Kans.
KG PB	2.416	124.09	Minneapolis, Minn.	KGZG	2.470	121.40	Des Moines, Iowa
KGPC	1.712	175.13	St. Louis, Mo.	KGZH	2.442	122.77	Klamath Falls, Ore.
KGPD	1.558	192.43	San Francisco, Calif.	KGZI	1.712	175.13	Wichita Falls, Texas
KGPD	2.470	121.40	San Francisco, Calif.	KSW	2.422	123.79	Berkeley, Calif.
KGPE	2.422	123.79	Kansas City, Mo.	KVP	1.712	175.13	Dallas, Texas
KGPG	2.422	123.79	Vallejo, Calif.	WCF	1.596	187.85	New York, N. Y.
KGPH	2.450	122.40	Oklahoma City, Okla.	WCK	2.414	124.20	Detroit, Mich.
KGPI	2.470	121.40	Omaha, Neb.	WEY	1.558	192.43	Boston, Mass.
KG PJ	1.712	175.13	Beaumont, Texas	WKDT	1.596	187.85	Detroit, Mich.
KGPK	2.470	121.40	Sioux City, Iowa	WKDU	1.712	175.13	Cincinnati, Ohio
KGPL	1.712	175.13	Los Angeles, Calif.	WMDZ	2.442	122.77	Indianapolis, Ind.
KGPM	2.470	121.40	San Jose, Calif.	WMJ	2.422	123.79	Buffalo, N. Y.
KGPN	2.470	121.40	Davenport, Iowa	WMO	2.414	124.20	Highland Park, Mich.
KGPO	2.450	122.40	Tulsa, Okla.	WMP	1.574	190.48	Frammingham, Mass.
KGPP	2.442	122.77	Portland, Ore.	W PDA	2.414	124.20	Tulare, Calif.
KG PQ	2.450	122.40	Honolulu, Hawaii	W PDB	1.712	175.13	Chicago, Ill.
KGPR	1.712	175.13	Fort Worth, Texas	W PDC	1.712	175.13	Chicago, Ill.
KGPS	2.414	124.20	Bakersfield, Calif.	W PDD	1.712	175.13	Chicago, Ill.
KG PW	2.470	121.40	Salt Lake City, Utah	W PDE	2.442	122.77	Louisville, Ky.
KG PX	2.442	122.77	Denver, Colo.	W PDI	2.442	122.77	Flint, Mich.
KG PY	1.574	190.48	Shreveport, La.	W PDH	2.442	122.77	Richmond, Ind.
KG PZ	2.450	122.40	Wichita, Kans.	W PDI	2.430	123.45	Columbus, Ohio
KGZA	2.414	124.20	Fresno, Calif.	W PDI	2.414	124.20	Passaic, N. J.
KGZB	1.712	175.13	Houston, Texas	W PDK	2.450	122.40	Milwaukee, Wis.
KGZC	2.422	123.79	Topeka, Kans.	W PDL	2.442	122.77	Lansing, Mich.

Call	Megs.	Mtr	City
WPDM	2.430	123.45	Dayton, Ohio
WPDN	2.458	121.97	Auburn, N. Y.
WPDD	2.458	121.97	Akron, Ohio
WPDP	2.470	121.40	Philadelphia, Pa.
WPDR	2.458	121.97	Rochester, N. Y.
WPDS	2.416	124.09	St. Paul, Minn.
WPDT	2.470	121.40	Kokomo, Ind.
WPDU	1.712	175.13	Pittsburgh, Pa.
WPDV	2.458	121.97	Charlotte, N. C.
WPOW	2.422	123.79	Washington, D. C.
WPDX	2.414	124.20	Detroit, Mich.
WPDY	2.414	124.20	Atlanta, Ga.
WPDZ	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.
WPED	1.712	175.13	Arlington, Mass.
WPEE	2.450	122.40	Brooklyn, N. Y.
WPEF	2.450	122.40	Bronx, N. Y.

Call	Megs.	Mtr	City
WPEG	2.450	122.40	New York, N. Y.
WPEH	1.712	175.13	Somerville, Mass.
WPEI	1.712	175.13	Providence, R. I.
WPEJ	1.712	175.13	Brookline, Mass.
WPEK	2.430	123.45	New Orleans, La.
WPEL	1.570	191.08	Middleboro, Mass.
WPEM	2.470	121.40	Woonsocket, R. I.
WPEQ	1.570	191.08	Baton Rouge, La.
WPER	2.442	122.77	Saginaw, Mich.
WPET	1.712	175.13	Lexington, Ky.
WPEW	1.570	191.08	Northampton, Mass.
WPEY	2.470	121.40	Chattanooga, Tenn.
WPEZ	1.712	175.13	Newton, Mass.
WPF A	2.458	121.97	Cleveland, Ohio
WRDH	2.470	121.40	Toledo, Ohio
WRDQ	2.414	124.20	Grosse Pointe, Mich.
WRDS	1.574	190.48	E. Lansing, Mich.
WRDU	1.596	187.85	Brooklyn, N. Y.

By Frequencies

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

Call	Megs.	Mtr	City
2.414	megs.	124.20	meters
KGPA			Seattle, Wash.
KGPS			Bakersfield, Calif.
KGZA			Fresno, Calif.
WKCK			Detroit, Mich.
WMO			Highland Park, Mich.
WPOA			Tulare, Calif.
WPOJ			Passaic, N. J.
WPD X			Detroit, Mich.
WPDY			Atlanta, Ga.
WRDR			Grosse Pointe, Mich.
2.416	megs.	124.09	meters
KGPB			Minneapolis, Minn.
WPDS			St. Paul, Minn.
2.422	megs.	123.79	meters
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	meters
KGZD			San Diego, Calif.
WPD I			Columbus, Ohio
WPD M			Dayton, Ohio
WPEK			New Orleans, La.
2.442	megs.	122.77	meters
KGPP			Portland, Ore.
KG PX			Denver, Colo.
KGZH			Klamath Falls, Ore.
WMDZ			Indianapolis, Ind.
WPDE			Louisville, Ky.
WPDF			Flint, Mich.
WPDH			Richmond, Ind.
WPD L			Lansing, Mich.
WPEB			Grand Rapids, Mich.
WPES			Saginaw, Mich.

Call	Megs.	Mtr	City
2.450	megs.	122.40	meters
KGPH			Oklahoma City, Okla.
KGPO			Tulsa, Okla.
KGQO			Honolulu, Hawaii
KGZP			Wichita, Kans.
KGZF			Chanute, Kans.
WPDK			Milwaukee, Wis.
WPEE			Brooklyn, N. Y.
WPEF			Bronx, N. Y.
WPEG			New York, N. Y.
2.458	megs.	121.97	meters
WPDN			Auburn, N. Y.
WPD O			Akron, Ohio
WPD R			Rochester, N. Y.
WPD V			Charlotte, N. C.
WPEA			Syracuse, N. Y.
WRDH			Cleveland, Ohio
2.470	megs.	121.40	meters
KG DZ			Cedar Rapids, Iowa
KGPD			San Francisco, Calif.
KGPI			Omaha, Neb.
KGPK			Sioux City, Iowa
KGPM			San Jose, Calif.
KGPN			Davenport, Iowa
KGPW			Salt Lake City, Utah
KGZG			Des Moines, Iowa
WPD P			Philadelphia, Pa.
WPD T			Kokomo, Ind.
WPD Z			Fort Wayne, Ind.
WPEC			Memphis, Tenn.
WPEM			Woonsocket, R. I.
WPEY			Chattanooga, Tenn.
WRDQ			Toledo, Ohio
2.506	megs.	119.64	meters
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	Greiz	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	Heilsberg	Germany	60,000	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	Moravska-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-au-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	Gelwiz	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			
12.01-2.00	PK3AN	Surabaya, Java	54.00		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	50.26		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	Pontoise, France	19.68
						Funchal, Madeira Is.	26.83

11.00 Noon	T14NRH	Heredia, C. R.	19.90
	VQ7LO	Nairobi, Kenya	49.48
	VE9CI	London, Canada	109.62
		Johannesburg, S. A.	43.50
	CT3AQ	Funchal, Madeira Is.	26.83
11.30 Noon		Pontoise, France	25.20
PM			
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	Skamlebank, 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	Skamlebank, 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	Skamlebank, 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
	YV1BC	Caracas, Venezuela	49.00
	I2RO	Rome, Italy	25.40
4.30- 5.00	EAR58	Santa Cruz de T., Canary Is.	41.60
		Rabat, Morocco	32.32
	I2RO	Rome, Italy	25.40
	HBL	Geneva, Switzerland	31.30
	HBP	Geneva, Switzerland	38.47
		Pontoise, France	25.60
5.00- 6.00	EAR58	Santa Cruz de T., Canary Is.	41.60
	OXY	Skamlebank, Denmark	31.51
	REN	Moscow, U. S. S. R.	45.38
	VE9GW	Bowmanville, Ont.	49.22
	VE9CS	Vancouver, B. C.	49.42
	YV1BC	Caracas, Venezuela	49.00
	EAQ	Madrid, Spain	30.40
5.30- 6.00		Skamlebank, Denmark	31.51
6.00- 6.30	OXY	Pontoise, France	25.60
6.00- 7.00		Madrid, Spain	30.40
	VE9GW	Bowmanville, Ont.	49.22
	VE9CS	Vancouver, B. C.	49.42
	YV1BC	Caracas, Venezuela	49.00
	VE9HX	Halifax, Nova Scotia	49.59
	HKO	Medellin, Colombia	50.60
	YV1BC	Vancouver, B. C.	49.42
7.00- 8.00	VE9CS	Caracas, Venezuela	49.00
	HKO	Medellin, Colombia	50.60
	HKO	Barranquilla, Colombia	50.00
8.00-10.00	VE9CS	Vancouver, B. C.	49.42
	YV1BC	Caracas, Venezuela	49.00
10.00-12.00	VE9CS	Vancouver, B. C.	49.42

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
4.174	71.82	German Ships	P	6.076	49.34	W9XAA Chicago, Ill., Sun. 11 a.m.-9 p.m. B
4.283	70.65	RV15 Khabarovsk, USSR 3 a.m.-9 a.m.	B	6.090	49.23	VE9BJ St. John, N. B., 5 p.m. and 11 p.m. B
4.283	70.00	Italian Ships	P			
4.792	62.56	VE9BY London, Ontario, Sat. midn.-1 a.m.	B	6.095	49.18	W9XF Chicago, Ill., 4:30-8 p.m.; 9:30 p.m.-2 a.m. B
4.975	60.27	GBC Rugby, England. Phones ships irregularly	P	6.096	49.17	W3XAL Boundbrook, N. J., Sat. 4:30 p.m.-1 a.m. B
5.045	59.42	VRT-ZFA Hamilton, Bermuda. Phones WNB-GMBJ nights	P	6.119	49.00	YV1BC Caracas, Venez. Relays 960 kcs. 10:30 a.m.-1 p.m.; 5:15-10 p.m. B
5.144	58.33	DIQ Nauen, Germany	B	6.125	48.95	YV11BMO Maracaiibo, Venez., 8-11 p.m. B
5.766	52.00	XAM Merida, Yucatan. Tests XDA 10 a.m. 8 p.m. irreg.	P	6.140	48.83	W8XK Pittsburgh, Pa. Relays KDKA 4-11 p.m. B
5.879	51.00	XDA Mexico City. Tests XAM 10 a.m. 8 p.m. irreg.	P	6.335	47.35	VE9AP Drummondville, Que. B
5.925	50.60	HKO Medellin, Colombia, Tues.-Thur.-Sat. 8-10 p.m.-Sun. 6-8 p.m.	B	6.386	46.96	W3XL Boundbrook, N. J. Experimental B
5.968	50.26	HVJ Vatican City, 2-2:15 p.m.; Sun. 5-5:30 a.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
5.996	50.00	HKD Barranquilla, Col., 8-10 p.m.	B	6.611	45.35	TGW Guatemala City, Tues.-Thur.-Fri. 10:30 p.m.-mid. B
6.005	49.93	VE9DR Drummondville, Que., 7 p.m.-mid.	B	6.618	45.31	PRADO Riobamba, Ecuador, Thur. 9-11 p.m. B
6.036	49.67	W4XB Miami, Fla. Reported 5-11 p.m.	B	6.648	45.10	IAC, Coltano, Italy. Testing irregularly p.m. B
6.050	49.56	GSA Daventry, England. To Canada 8-10 p.m.	B	6.675	44.91	DGK Nauen, Germany. Heard 9 p.m. with WEL P
6.057	49.50	CMCI Havana, Cuba, 9-11 p.m.	B	6.888	43.54	KEQ Kahuku, Hawaii. Phones California nights 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			

7.139	42.00	HJ4AB Manizales, Colombia, Sat. 10 p.m.-mid.	B	11.865	25.27	GSE Daventry, England, To India 9:30-11:30 a.m.	B
7.312	41.03	CM5RY Matanzas, Cuba, Sat. 10:45-11:30 p.m.	B	11.872	25.25	W8YK Pittsburgh, Pa. Relays KDKA 4-10 p.m.	B
7.518	39.89	KDK-KKH Kahuku, Hawaii, 9 p.m. and 2 a.m.	P	11.898	25.20	Pontoise, France, 11:30 a.m.-2:30 p.m.	B
7.610	39.40	HJ3ABF Bogota, Colombia, 7 p.m.-11 p.m.	B	12.000	24.98	FZS Suigon, Indo-China, 9-10 a.m.	P
7.790	38.49	HBP Geneva, Switzerland, Sun. 5-5:45 p.m.	B	12.592	23.81	DAN Norden, Germany. Talks to ships	P
8.180	36.65	PSK Rio de Janeiro, Brazil. Reported working WOK	P	12.780	23.46	GBC Rugby, England. Phones ships irregularly	P
8.328	36.00	DAN Norden, Germany	P	12.820	23.38	CNRt Rabat, Morocco, Sun. 7:30 a.m.-9 a.m.	B
8.328	36.00	German Ships	P	13.035	23.00	German Ships	B
8.566	35.00	Italian Ships	P	13.074	22.93	J1AA Kemikawa-Cho, Japan. Phones, experimental	P
8.645	34.68	VE91V London, Ontario Mon. 3-4 p.m.	B	13.219	22.68	British Ships	P
8.831	33.95	British ships	P	13.278	22.58	YVQ Maracay, Venezuela	P
8.950	33.50	TCX Guatamala City, Sat. 10 p.m.-mid.	B	13.298	22.55	GGA Drummondville, Que. 9 a.m.-2 p.m.	P
9.012	33.27	KDJ, Bolinas, Calif. Tests irregularly	P	13.500	22.09	CBB Rugby, England. Talks Canada day-times.	P
9.276	32.32	CNR Itabat, Morocco, Sun. 3 p.m.-6 p.m.	B	13.814	21.76	SIUZ Cairo, Egypt, 7 a.m. and 3:30 p.m.	P
9.480	31.63	PLW Bandung, Java. Phones Australia 3-8 a.m. irreg.	P	14.450	20.75	GBW Rugby, England, 6 a.m. and 6 p.m.	P
9.492	31.58	PRBA Rio de Janeiro, Brazil, 6-6:15 p.m.	B	14.485	20.60	RXC Panama City. Afternoons	P
9.503	31.55	VK3ME Melbourne, Australia, Wed. 5-6:30 a.m.; Sat. 5-7 a.m.	B	14.550	20.60	HBJ Geneva, Switzerland	B
9.510	31.53	GSB Daventry, England, To Canada 8-10 p.m.	B	14.682	20.42	PSR Rio de Janeiro, Brazil, 5-6 p.m.	P
9.520	31.49	OXY Skamleback, Denmark, 2-6:30 p.m.	B	14.760	20.32	HJB Bogota, Colombia 11 a.m.-5 p.m.	P
9.530	31.46	W2XAF Schenectady, N. Y., 5:15-11 p.m.; Sat.-Sun., 4-11 p.m.	B	14.796	20.27	WMB Miami, Fla., 1-5 p.m.	P
9.552	31.38	DJA Zeoon, Germany, 2 p.m.-6:30 p.m.	B	15.066	19.90	T14NRH Heredia, Costa Rica, Sat.-Sun. 11-noon	B
9.560	31.36	W1XAZ Springfield, Mass., 4 p.m.-12:30 a.m.	B	15.120	19.83	HVJ Vatican City, 5-5:15 a.m.	B
9.570	31.33	SRI Poznan, Poland, Tues. 6 a.m.-8 a.m.	B	15.140	19.81	GSF Daventry, England	B
9.580	31.30	HBI Geneva, Switzerland, Sun. 5-5:45 p.m.	B	15.190	19.73	DJB Zeelen, Germany, 8 a.m.-noon	B
9.585	31.28	GSC Daventry, England	B	15.204	19.72	W8XX Pittsburgh, Pa. Relays KDKA 9 a.m.-4 p.m.	B
9.585	31.28	VK2ME Sydney, Australia, Sun. 1-2 a.m.; 5-9 a.m.; 9:30-11 a.m.	B	15.234	19.68	Pontoise, France, 8 a.m.-11 a.m.	B
9.592	31.25	CTIAA Lisbon, Portugal, Tues.-Fri., 5-7 p.m.	P	15.320	19.57	W2XAD Schenectady, N. Y. Daily 1-3 p.m.; Sat.-Sun. to 4	B
9.670	31.00	T14NRH Heredia, Costa Rica, week days 10-11 p.m.	P	15.410	19.46	KWO Dixon, Calif. Phones Hawaii 2-7 p.m.	P
9.862	30.40	EAQ Madrid, Spain, 5:30-7 p.m.	B	15.760	19.02	J1AA Kemikawa-Cho, Japan. Phones experimental	P
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.	P
9.895	30.30	LSN Buenos Aires, Argetina, 6 p.m. and 6 a.m.	P	16.601	18.06	DAN Norden, Germany	P
9.928	30.20	HJY Bogota, Colombia. Phones OCI evenings irregularly	P	17.080	17.55	GBC Rugby, England. Talks with ships irregularly	P
10.060	29.80	VRT-ZFB Hamilton, Bermuda, Phones WNB days	P	17.770	16.90	GSG Daventry, England, To India 9:30-11:30 a.m.	B
10.090	29.70	OPM Leopoldville, Congo. Phones ORK 9-11 a.m.; 3-6 p.m.	P	17.772	16.87	W3XAL Boundbrook, N. J., 8 a.m.-4 p.m.	B
10.163	29.50	German Ships	P	17.830	16.82	PCV Kootwijk, Holland, 6-9 a.m.	P
10.212	29.35	PSH Rio de Janeiro, Brazil. Tests W2XBJ evenings	P	18.170	16.50	PMB Bandung, Java, 3:30-9 a.m.	P
10.246	29.26	DIQ Nauen, Germany	B	18.296	16.39	YVQ Maracay, Venezuela. Heard about 10 a.m.	P
10.285	29.15	DIQ Koenigs wusterhausen	B	18.400	16.29	PCK Kootwijk, Holland. Phones Java about 7 a.m.	P
10.340	28.99	ORK Brussels, Belgium. Phones OPM 2-4 9-11 a.m.; 3-6 p.m.	B	18.444	16.25	HJY Bogota, Colombia. 11 a.m. and 4 p.m.	P
10.830	27.68	KWV Dixon, Calif. Phones Hawaii irregularly	P	18.670	16.08	OCI Lima, Peru, 2 p.m.	P
11.174	26.83	CT3AQ Funchal, Madeira, Tues.-Thurs., 5-6:30 p.m.; Sun. 10:30-noon	B	18.820	15.93	PLE Bandung, Java, Tues.-Fri. 5:40-10:40 a.m.	P
11.530	26.00	XAM Merida, Yucatan	P	18.958	15.82	LSR Buenos Aires, Arg., 11 a.m. and 4 p.m.	P
11.644	25.75	PPQ Rio de Janeiro, Brazil. Heard testing 6 p.m.	P	19.270	15.57	PPU Rio de Janeiro, Brazil. 10:30 a.m. and 3:30 p.m.	P
11.680	25.67	YVQ Maracay, Venezuela. Tests Germany 5-7 p.m.	B	19.282	15.55	FTM St. Assise, France, 10 a.m.-2 p.m.	P
11.710	25.60	DGT Koenigs wusterhausen	B	19.678	15.24	CEC, Santiago, Chile, 11 a.m. and 4 p.m.	P
11.710	25.60	VE9JR Winnipeg, Manitoba, Tues. 6:30-8:30 p.m.; Fri. to 9	B	19.684	15.23	EAQ Madrid, Spain. Phones	P
11.710	25.61	Pontoise, France, 4-7 p.m.	B	19.895	15.07	LSG Buenos Aires, Argentina, 10:30 a.m.-3:30 p.m.	P
11.750	25.50	GSD Daventry, England, To Oceania 4-30: 6:30 a.m., B	B	20.028	14.97	DHO Nauen, Germany. Phones LSG 7 a.m.-11 a.m. irregularly	P
11.760	25.50	XDA Mexico City. Tests XAM 1 p.m. and 6 p.m.	P	20.820	14.40	LSY Buenos Aires, Argentina. Heard 10 a.m. to 2 p.m.	P
11.800	25.40	I2RO Rome, Italy, 11 a.m.-12:30 p.m.; 2:30-5:30 p.m.	B	21.020	14.27	LSN, Buenos Aires, Argentina, 8 a.m. and 4 p.m.	P
				21.054	14.24	WKA Lawrenceville, N. J., 8 a.m.-4 p.m.	P
				21.069	14.23	PSA Rio de Janeiro, Brazil, 8 a.m.	P
				21.400	14.01	WKK Lawrenceville, N. J., 8 a.m.-4 p.m.	P
				21.470	13.98	GSH Daventry, England	B

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, WEAJ and WOR; in March, WJZ, WPCH, WFOX, 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. "Decembmer 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.

Here's Something You Have Wanted . . .

◆ ◆ A RADIO PROGRAM

“SLATE” ◆ ◆

RADIO PROGRAMS

Time	MONDAY			TUESDAY		
	Program	Call	Dial	Program	Call	Dial
6:00						
6:15						
6:30						
6:45						
7:00						
7:15						
7:30						
7:45						
8:00						
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10:30						
10:45						
11:00						
11:15						
11:30						
11:45						
12:00						

Actual size 5 x 7 inches

For those favorite programs which are so frequently overlooked.

Spaces for each 15-minute period for Sunday afternoon and every evening of the week.

Four pages; printed on fine Bristol board so entries may be erased and kept up-to-date.

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with Time Converting Dial

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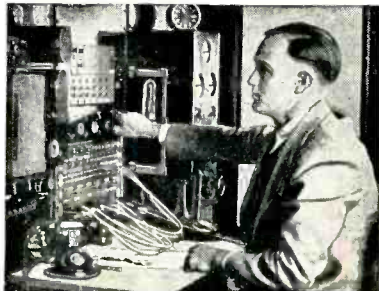
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