THE MARCH 1931

RADEX

The Magazine that Doubles the Pleasure of Radio



(25°)

Elements of Radio in A-B-C
Neutralizing the Neutrodyne
Stopping Leaks in Aerial and Ground
Complete List of Cuban and Mexican Stations

HOW TO TUNE A SET CORRECTLY

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

590 kilocycles 508.2 meters

600 kilocycles 499.7 meters

610 kilocycles 491.5 meters

620 kilocycles 483.6 meters

630 kilocycles 475.9 meters

640 kilocycles 468.5 meters 5090 Los Angeles, Calif.

650 kilocycles 461.3 meters

660 kilocycles 454.3 meters

670 kilocycles 447.5 meters 5000 Chicago, Ill.

680 kilocycles 440.9 meters

5000 San Francisco, Cat.

WAAW 500 Omaha, Nebr. WEAF 50000 New York City

5000 Nashville, Tenn.

Iroquois Falls, Ont. Laramte, Wyo. San Diego, Calif. Batrimore, Md. Beloit, Wis. Lawrenceburg, Tead. Memphis, Tean. Hartford, Conn.

A LL stations in America are listed in RADEX in three tables:

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

The Index by Frequencies is the one to be used,

the other two are merely supplementary.

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

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

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

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

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

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

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

Now we tune in some other station, proceeding as before until after an

School of Music

73 | 7/

72 170 1

Victoria Broadcasting Ass'n. Winnipeg Grain Eschange Canadian National Railways Canadian National Railwa; Castulo Llamas Stephens College Evantville on the Air, Inc. M. A. Leese Co. State Marketing Bureau

70 168 1

69 167 1

681661

67 65

Omaha Grain Exchange National Broadcasting Co., Inc.

evening or two, we have blanks filled on every INDEX BY FREQUENCIES AND DIAL NUMBERS page. We are now able to set our dials for any frequency we desire and consequently any station we 75 73 may want whether we have ever received it before or not.

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

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

The second column in the Index by Frequencies, as we have seen, gives the power of the station as measured in watts. This power also aids us in identifying stations as we will not ordinarily hear those stations with 500 watts or less unless they are close to our home city.

The Index by Call Letters also has spaces providing for logging dial numbers, but these are provided merely for the convenience of those who want to be able to turn instantly to some favorite station. They may or may not be used as you desire. Remember that it is the Index by Frequencies that we must use to get the most value and pleasure out of our radios.

The Index by Frequencies is now printed with marginal tabs. If you will fill in under the word "dial" your reading for this particular frequency, you can then turn instantly to any frequency desired. Take a pair of shears and cut along the dotted line, as shown.

THE MARCH 1931

FRED CLAYTON BUTLER



SEVENTH YEAR

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Editor and Publisher

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THEORY of Radio in a NUT SHELL

E sometimes forget that this magazine is constantly attracting new readers who are unfamiliar with the many articles on radio that have gone before. People are buying radio sets who have never had one before and consequently are almost as unfamiliar with the rudiments of radio as we ourselves were back in the early "twenties." All this is indicated in the following letter from Fred Rouse, 320 Delaware Ave., Albany, N. Y.

"Will you please answer these questions in the next issue of RADEX:

"What are frequencies or kilocycles and wave lengths? What relation have they to each other? Why the lower the kilocycle the higher the wave length and vice versa? Why do all meters have a fraction? Why use the French unit of measure instead of the English?

"What is meant by a DX station, DX program, or DX listeners?

"Why are electric radios not equipped to use ear phones?

"What can I do to cut out interference, especially above 1200?

"Why are some radio dials set for kilocycles and other for numerical readings?"

Now that's a rather large order but we realize that Mr. Rouse is representative in his desire for rudimentary information of thousands of other novices. We shall therefore try to explain in very simple terms enough of the elements of radio to give him and the others a fair insight into its workings. Those who are already familiar with the technic of radio may as well stop right here.

To begin with every note or noise that is picked up by the human ear is caused by vibrations. The frequency of these vibrations determines its pitch and a combination of these pitches produces musical notes or the sounds of the human voice. The telephone of course does not actually carry sound. The voice strikes the diaphragm and vibrates it in accordance with the frequency of the different sounds. An electrical disturbance is set up in the line which likewise

Written in A-B-C Terms

vibrates the other diaphragm with which it happens to be connected. This in turn sends out air waves which strike the ear.

Exactly the same thing happens in radio. The pianist in the studio strikes a certain key. This string vibrates at a certain frequency per second. The air waves set in motion travel to the microphone which vibrates in turn at exactly the same frequency. This sets up the electrical disturbance already referred to which travels to the transmitter and thence out into the air. First, however, the mechanism of the broadcasting station converts these frequencies into high-frequency. Let us digress a moment to explain this.

The human ear, marvelous as it is, has a very limited range. There are thousands of frequencies too low for it to "hear" and other thousands too high. The vibrations on a telephone wire are all within the audio frequencies, that is within the range of the human ear, so that if we were to tap the telephone line at any point and attach a receiver, we could "hear," that is understand the sounds. This is not true with the broadcast waves. Why not transmit audio waves? Because they do not carry far enough. The higher the frequency the greater the distance it will travel; the short waves (high frequencies) can be heard much farther than can those in the broadcast band.

The broadcasting station therefore converts the audio frequencies of say 600 vibrations per second into radio frequencies of say one million vibrations. These vibrations travel through the air or ether, just how no one can say definitely, until they reach a receiving set. They strike the antenna of this set and pass through it into the ground. The set is equipped with a mechanism somewhat the reverse of the broadcasting station. That is it can receive the radio frequencies and convert them back

(Continued on Page 18)

INTRIGUING PUZZLES in RADIO CALLS

NE hundred and seventy-one correct solutions of the January puzzle—and we thought they would be hard! We are beginning to think that our readers know their calls, locations, frequencies and owners by heart so that when KLPM is called for, for instance, they can recite glibly, "On 1420 kilocycles, with 100 watts power, located in Minot, North Dakota, and owned by John B. Cooley." Just like that.

Well, it's our wit against yours and if we can't concoct something you can't solve, we'll just have to pay the piper. After many sleepless nights, we are bringing forth a new one this month.

As for February, well, the printer made Puzzle No. 1 harder than we had planned by leaving off a square at the end of each line and we were sound asleep at the switch and never caught it. Even this didn't stop our puzzlers for no end of them are right now firing in their answers and most of them have put in these squares where we inadvertently left them out. Just no stumping them.

Here are the answers for February:

No. 1: KTRH - KELW - WMCA - KGW - WABZ - WISN - WEAN - KTW - WHN - NAA - WMT - WDBO - KOB - KUT - WBT - WLOE - WSB - KTRH - KEX - KPO - KLO - KECA - WSUN - WEBR - WBOW - WDFW - WRVA - VAS - WIOD - WOC.

No. 2: KCYS - KTBS - MTRS.

No. 3: WISH - WEDH - WEEI - DEED.

No. 4: SLOW - WLOE - WLSI - WASH - FAST.

No. 5: PATH - WASH - WABI - WOAI - ROAD.

No. 6: LONG - KONO - WOKO -WOAN - WSAI - WSGH - HIGH.

Of course, in Nos. 2 to 6, many other combinations were equally correct.

No. 7:

WXYZ KYW OBTW
OEX R O KID
KGFF ELW KFXR
O KWWG OKGK C
FJGKGGF
CLWKROPWOKLRA
O F MBQHK I H
WFIWWJRATWWOW
SOWKTSM
W KMPC WAAW H
AKFK HHK KMCS
WOV C B CMC
ZASW KDB SAIW

For March, as we have said, we have a new type of puzzle which we feel sure will be worthy the efforts of the most sophisticated solver. We think it is a sticker but then we've been fooled before.

Here it is:

	Down	Up
1	WUNCE	BLEWC 20
2	KRIBB	WASCO 19
3	DRASK	WOBOK 18
4	WALOW	CMAKM 17
5	WROOC	KECAA 16
6	JACKS	DIFTW 15
7	WACID	PICAW 14
8	SMOCK	AWAYA 13
9	WHARF	WROJK 12
10	WRCKD	WBCTL 11

Key

The first station. On 1490. 50,000 watts. In Utah. On 1060. In Pittsburgh. In Mississippi. On 1320. In K-11 on the map. 5000 watts in Illinois. NBC station in Texas In B. C. In Alabama. A CBS station in Missouri. A Canadian National Railway station. On 950. On 920. In San Antonio. In Columbus. In Boston. In Boston. In Oregon. In Newark. In Little Rock. On 690. In West Virginia. On 580.

In compiling this list of station calls in the order named we take one letter from one line, one from the next, and so on. In the first column we go downwards and in the second column upwards in the order the lines are numbered. No letter in any one line can be used twice. Now where to start—ah, that's the puzzle. It looks hard, doesn't it? But it's like unsnarling a string, when you find the end of it, the rest is easy.

We are running very low on those new radio maps so we will have to confine the premiums for March either to a copy of the April RADEX or an additional number on unexpired subscriptions. For the February puzzle, premiums were mailed on the 20th or subscriptions extended where this was requested.

In the build-your-own contest, more than eighty puzzles have been submitted so far and the Editor is still working nights trying to decide which one is best. If all were used, they would last for more than seven years. Many of them were very good and we only regret that we cannot give a subscription to all. They are being classified according to neatness and legibility, originality, nonuse of deleted and foreign stations, and other factors. We will try to announce the awards in April.

The one printed this month was submitted by Ivan D. Ide, Box 312, Geneo, Ill. Here is the key:

Horizontal

1- 4	"Now don't go 'way."
5- 7	"The Nation's Station."
8- 11	Last two letters stand for city.
12- 14	In a state capital.
15- 16	First and last of two Ohio stations.
17- 19	Reverse. 20 k.w.
20- 23	On 1370.
24- 26	In Virginia.
27- 30	500-watt daylight.
31- 40	Second and last letter of station on 1310.
32- 35	In Santiago.
36- 39	50-k.w. NBC.
41- 44	Reverse. On 1310.
44- 47	Shares time with Peoria.
48- 51	Shares time with two other Iowa stations.
51- 54	Reverse. All four letters are owner's
	initials.
54- 57	First in one list.
57- 60	Littlest Canadian.
61- 62	Last letters of two Minneapolis stations.
	Crosley station.
64- 67	Reverse. On 1420.
68- 69	Middle letters of stations on 1440.
70- 73	In Kentucky.
73- 76	10-k.w. Columbia.
75- 77	A synchronized station.
76- 79	Reverse. In Ontario.
79- 82	On 730.
83- 86	Reverse. In Enid.
86- 89	On 1310.
90- 99	Middle letters of station on 880.
91- 94	Charles W. Greenley.
95- 98	In Colon.
100-103	CBS outlet in far south.
104-106	Reverse. Three stations and three
	nations.
107-110	50-watts on 1310.
111-113	Ditto.
114-115	Last letters of two Florida stations.
116-118	500-watt NBC.
119-122	Metal Shingle and Siding.

1	2	3	4		5	6	7		8	9	10	"
/2	/3	14			15		16			17	18	19
20	2/	22	23		24	26	26		27	28	29	30
3/		32	33	34	35		36	37	38	39		40
			41	42	43	44	45	46	47			
48	44	50	5/	52	53	54	55	56	57	58	59	60
61		62		63	64	65	66	67		68		69
70	7/	72	73	74	75	76	77	78	79	80	81	82
			83	84	85	86	87	88	89			
90		91	92	93	94		95	96	97	98		99
100	101	102	/63		104	/65	106		107	108	109	110
///	1/2	//3			114		115			116	117	//8
119	/20	/2/	122		/23	124	125		126	/27	128	129

123-125 5000-watt Mexican. 126-129 Reverse. Shares time with two Chicago stations.

	stations.
	Vertical
1- 31	U.S. farthest south.
2- 21	In New Jersey.
3- 32	Shares time with CBS station.
4-122	Middle letters of four Canadian stations
5- 35	In Asheville.
6- 25	Middle letters of Louisville station.
7- 36	Shares time with Lancaster.
8-126	Last letters of Manitoba station.
9- 39	Shares time with two other Indiana sta
	tions.
10- 29	12,500-watts.
11-40	In Vancouver.
23- 51	In Los Angeles.
27- 57	Columbia in Ohio.
34- 63	Reverse. C. R. Cummins.
35- 64	In Nova Scotia.
36- 66	On 1450.
37- 67	Reverse. In Chicago.
44- 76	On 600.
48- 70	In Illinois.
49- 71	First and last letters of key station.
50- 72	In January RADEX but not in Februar
54- 86	Reverse. State agricultural college.
58- 80	Four nations on this wave.
59- 81	First and last of station on 590.
60- 82	Shares time with 17-19 horizontal.
63- 93	100-watt CBS.
67- 96	Shares time with South Bend.
73-103	Five stations in same city on this wave
75-104	In Connecticut.
77-106	On 630.
79-107	In Toronto.
90-119 91-121	On 1370. Two 10 k.w. stations on this wave.
98-127	Reverse, On 1210.
99-127	Reverse. In Wisconsin.
101-120	Reverse. Six stations in this state.
104-123	In Toluca (Reverse).
105-124	Last letters of Two Boston stations.
106 125	Poverse In Waterloo

No. 3

Reverse. In Waterloo.

Reverse. On 910.



This is the smallest, and we think the hardest, puzzle we have ever published in cross-call form. So far as we have been able to find there are only eight calls in this issue of RADEX which can be used in these squares so as to fill them perfectly both horizontally and vertically. None of these calls is to be reversed and no call can be used twice. Can you find these eight calls or any eight that will fill these blanks correctly?

All calls are in North America.

Send in your answers to these three puzzles and be sure to have them reach us by March 20th, as the April issue will be mailed to subscribers on that date.

Attaching Head Phones to a Majestic Set

A. R. Van Compernolle, 618 North Baker St., Santa Ana, Calif., has discovered a most effective method of attaching head-phones to his "Majestic" set. He stresses the warning, however, that this is not to be undertaken by anyone who has not had experience in soldering a radio set. His description of his method follows:

It is a simple matter to attach head phones to your Majestic and silence its speaker without causing any harm to the set or decreasing its efficiency if you are "nifty" with a soldering iron and if you know how. Here's how.

To attach the phones, solder a lead to each of the G-45 tubes using the plate prong and run these two leads to your phone plug-in jack. Use a small rubber insulated wire and solder it up against the base of the tube prong. If you attempt to wrap the wire around the prong it will make a bulky job and you will be unable to put the tube back in far enough. To ascertain which is the plate prong, stand behind your set and then the plate prong of the G-45 tubes is in the "upper right-hand corner." Be sure that the insulation on the wire is not peeled off beyond the base of the tube or it will short against the metal shield.

To silence the speaker, place a small snap switch in one of the voice coil leads. This will deprive the speaker of the voice output from the set but it will still be using its proper share of power from the rectifier. There is a terminal plate at the base of the speaker and the two little white wires running from the top of this terminal plate are the voice coil leads. Melt one of them loose with a soldering iron, solder on another lead and run it to one side of your switch then run a lead from the other side of the switch and solder it on to the lead which you unsoldered from the terminal plate and the job is complete. Then you can plug in your phones, switch off the speaker and DX all night without bothering anybody.

LETTERS FROM OUR READERS

REVISED list of the Canadian stations just received from the Dominion Government enables us to bring our northern neighbors up to date. Readers report hearing stations on other frequencies than those assigned by the Canadian Government. In most instances these stations are testing or experimenting with different frequencies. In regard to this the Director of Radio Service at Ottawa says: "It is not our practice to show these temporary assignments in official lists of Canadian broadcasting stations. In most cases the test periods last only a month or two and consequently by the time it got into print the information would be obsolete."

Through the kindness of Difusora Portena Station XES, Tampico Mexico. we are enabled to correct our Mexican list in this issue, with the frequencies licensed by the Mexican government ef-

fective until April 3rd. We have received a large number of inquiries from readers in regard to certain Cuban and Mexican stations, but as our lists for both of these countries are completely revised in this issue, we are not attempting to answer these inquiries. With the up-to-date information on the stations in these two countries our readers can undoubtedly answer their own in-

quiries by referring to the proper index. Foreign Reception

Hugo L. Markaland, Box 232, Steamboat Springs, Colo., receives the Japanese stations regularly. He believes that a number of them must broadcast a chain program as, in a number of instances, the program seems to be identical on 750, 769, 789, 810, 831, and 849 kilocycles. With his set, a Sentinel 7-tube, he finds that the aerial seems to make but little difference. He can reverse the aerial and ground and even connect them together and still get WEAF at 9 p.m. He reports CKMO. Vancouver, on the air every weekday night until 4 a.m. EST.

Medford, Oregon, is evidently a good location for receiving the Japanese stations. Louis L. Richardson, 522 So. Oakdale Ave., says: "From 3-4 a.m. every morning a little patience will Radio Chat and Comment

reward a listener with any good receiver with five or six of the Oriental stations. In addition there are three Australian and one Chinese, which may be logged when the weather is favorable." Mr. Richardson reports a strong carrierwave signal on 660 kcys., on which he never hears any music.

"Radio Enthusiast," San Francisco, whose wife calls him a "radio nut," heard a station on 869 kcvs, to which he listened patiently for an hour, all of which time was taken up with Oriental speech, music and wails. He feels sure it was JOAK, but he asks: "Do these fans who receive Japanese stations understand that language, or do they just use their imagination, or do the stations really announce once in a while in

English?"

Don Turner reports two new Japanese stations, but does not indicate that he has received them - JOKK, Okayama, 429 meters, 500 watts, and JOLK, Fukuoha, 441 meters, 500 watts — and reports three new ones coming later — JOOK, Kvoto, JOPK, Shezuoka, and JONK, Nagano. Mr. Turner tunes in Japanese stations frequently. He also heard 2YA, Wellington, New Zealand, signing off at 3 a.m. PST. He has now received 371 stations on his General Electric Model 31-H. He can use either of two 300-foot aerials, both 120 feet high at the far end, but finds the east-west one best for distance any direction. For a ground he uses an old fire extinguisher full of copper wire well soldered, buried six feet deep, with the lead insulated to the set. He keeps this moist through a 2-inch pipe leading to it.

DX Targets

"I believe that readers who have never picked up Hawaii would like to know what time they are on the air." writes Frederick Heinzel, 5th and Sherman Ave., So. Milwaukee, Wis. "KGMB, in Honolulu, is on the air every day except Sunday. From Monday to Friday their hours are 10 a.m. to 9:30 p.m. their time. and on Saturday from 10 a.m. to 12 midnight." Mr. Heinzel says that KGMB picks up the NBC programs at 5 a.m., Hawaiian time. He also reports that HHK, Haiti, is on the air every day except Sundays and holidays, 12:15 to 12:45 EST., with a musical program and each Friday from 8 to 9 p.m., EST. Each Saturday from 6:45 to 7:15 a.m. EST., and each Wednesday from 8 to 9 p.m.

Stuart Walmsley, 1641 W. 60th St., Los Angeles, lists the following western stations which are on the air after midnight Saturdays PST.: KGIR, WDAG, KGRS, KRLD, KOY, KVI, KGA, KMCS, KGFJ. XEJ, Juarez, has a new 500-watt transmitter and broadcasts until 10 p.m., PST., every night. Mr. Walmsley says he has received some very good information on Australian and New Zealand stations due to the kindness of two New Zealand DXers, which he will be glad to pass on to anyone writing him.

L. E. Wallace, 110 N. Duval St., Tallahassee. Fla., picked up CMGF, Matanzas, Cuba, on 977 kcys., in the early morning of January 24th. He writes that in verifying reception the manager of the station promised to make a special broadcast for him whenever he named the date and time. Mr. Wallace would like to cooperate with DX clubs and DXers in deciding upon a date for this broadcast and will welcome and answer all letters. He also would like to know of any DX clubs in the south.

In answer to John W. Christy who heard a program in the background of WEAF. Ivan D. Ide, Box 312, Genoa, Ill., thinks that this was cross-modulation and that Mr. Christy was hearing his local Montreal station on 730 kcys. Mr. Ide proffers the information that KOI on 1390 puts on a program after midnight Saturday which enables many DXers to add Arizona to their list.

Those DXers who have not been able to add New Hampshire to their list will be interested in the information given by Jackson W. Thompson, 535 Hess St., Bethlehem, Pa., that WKAD at Laconia will broadcast a test program commencing at 3 a.m., EST., Sunday, March 15th.

The time schedule for the new Rut-

land. Vt., station WSYB is given by R. W. Raustron, 15 Edgewood St., Claremont, N. H., as follows: "Daily, 10-11 a.m., 12-1 p.m., and 6-9 p.m., EST."

W. G. Downey, 419-A St. Clarens Ave., Toronto, advises us that CFCA broadcasts its Weasel Night Club frolic from the Silver Slipper Wednesday nights until 1:30 EST.

Station Notes and Queries

From a verification by CNRX Mrs. L. R. Ledbetter, 1004 Belmont St., Vicksburg, Miss., quotes, "CNRX is what we call a phantom for CFRB, that is, it is one and the same station operating under different call letters at different times. The reason you have not received our call letters before is because we use the station only twice a week from 4 to 5 Sunday afternoons and 9 to 10 Thursday evenings, CST." Mrs. Ledbetter sug-(Continued on Page 20)

One of these Boys Will Fail~IF

Both possess equal health and intelligence, both have qualities for success—but one stammers. Where the one will succeed the stammerer will fail.

He will dread to meet people, he will lack the self-confidence so necessary in business. The humiliation of his disability will impair his nervous system—a condition often the beginning of ill health.

This handcap can be removed. As hundreds of other stammerers have been cured permanently at Hogue Institute, so he can be eured. The Institute was founded in 1991 by Benjamin N. Bogue, who cured himself after stammering twenty years.

Instruction is based on the principle of co-ordination between the mind and speech organs. No drugs or medicines. Endorsed by physicians. The history of the Bogue Institute and description of its methods embodied in Mr. Bogue's book, "Stammering—its Cause and Its Cure," Turnished on request, Address

Boque Institute for

14054 Bogue Bldg. 1147 North Illinois St. Indianapolis, Ind.

SET Operation and ADJUSTMENT

Please advise me what attachment I can add to my Sonora Melodon A-40, which will enable it to produce more volume. The phonograph side of the machine is very weak in comparison with other sets of its type. It has been checked over at the factory and found mechanically perfect. In other words, I want something that will step up the volume.

If your receiver has been checked and found to be in good condition at the factory. I would first check the aerial and ground. A long aerial and ground will give you more volume than a short one. An outside aerial is preferable. Also, the ground should be run to a coldwater pipe. Be sure to get a good electrical joint. Then have the tubes tested. One poor tube may be the cause of your entire trouble. If the volume is weak on outside stations, an extra stage of r.f. amplification might be added. If local stations do not come in with sufficient volume, an extra a.f. stage or perhaps a power amplifier will do the trick. There is one more thing that you can do, which might improve the volume on outside stations, and that is balancing of the tuning condensers as described in the May, 1930, No. 39, issue of RADEX. The work of adding an extra stage of r.f. amplification can best be done by a radio expert. Although we can give you instructions on wiring such as extra stage, the method of installation varies in each case and you would run into difficulties that could not be foreseen. Therefore, it is advisable to have the work done by a competent radio service

It Grumbles

I have a Brandes 8-tube a.c. receiver. When I turn the dial from 60 to 90 there is an awful grumbling sound, especially at 620 kilocycles. This makes it difficult to get any station. Would it help to adjust the regeneration control with which this set is equipped? There are also a pair of phonograph pick-up jacks, and I found that reception can be received at these points by plugging in a pair of headphones. Will this injure the set?

Answers by the Technical Editor

Your set either regenerates, which should be corrected by properly adjusting the regeneration control, or there is a a point on your condensers where the stators and rotors are short-circuited. The symptoms point to the latter. Perhaps there is a hairlike burr on one of the condenser plates that projects or the rotor plates may be out of alignment.

Dial Readings Vary

I use a Webster B-eliminator and I can probably attribute the variations in dial readings to it. It has almost outlived its usefulness. Can you furnish me the type of eliminator to get that is not subject to line fluctuations? I have a 14-tube super, employing seven 199s and a 222 for the r.f., a 201-A in the first detector stage, a 200-A in the second, a 201-A as oscillator and two 201-A's and one 171-A as audios. I have a Kolster K-5 combination speaker and amplifier connected to the output of the second audio in the set, which gives me enormous volume and the quality of tone cannot be beaten. Is it possible to rewire the oscillator so that the platevoltage fluctuation will not disturb the dial readings? I live in a metal-lath enclosed apartment. Does this cut down by distant reception?

You need two devices to make your set operate satisfactorily. One is a voltage regulator to keep the input voltage stable, and the other is a B-eliminator which is large enough to provide the necessary plate current without being overloaded. According to your data on the tubes, your receiver draws about 200 milliamperes. The B-eliminator should be able to provide a maximum of 300 milliamperes, which will prevent it from being overloaded. There are a number of good eliminators that will be satisfactory, and it should be possible for you to obtain one in your locality. If your radio dealer has none on hand he will be glad to order one for you. You should be able to obtain better reception on a loopoperated receiver in a place not enclosed

in metal lath. This material acts as a shield that grounds the incoming waves before they reach the receiver.

Super Oscillates

I have a Victoreen Superheterodyne 1930 model. It has eight 227, one 250, two 874, two 281 and one 201-A tubes. This set oscillates when the volume is turned on. All new tubes have been supplied. I would like to know how to adjust the variable condensers at the four tuned circuits in the tuning section in order to stop the oscillation. Also let me know how to make a suitable earphone adapter for the electric set so that I will be able to hear distant stations without annoyance to others in the house. I would like to have an adapter that can be plugged into the nomer-tube socket without causing any harm to the set.

Your r.f. stages are undoubtedly out of adjustment. The proper method of balancing them was thoroughly explained in the May, 1930, issue of RADEX, No. 39. Socket adaptors for earphone reception are on the market and can be obtained from many radio dealers. They are manufactured by the Insuline Co. of America, 78 Cortland St., New York City.

Changing Power Tubes

I have a Western Electric tube model 205D and would like to know its characteristics and properties of receiving and transmission. Also, where it can best be used and how. I would like to replace three 201-A tubes in my Atwater Kent model 20 with three 101-F of the Western Electric make. I have tried them and they seem to give a better tone quality to the set. Is it advisable to do this or not?

The Western Electric 205D is classed as a power tube for receiving sets. The characteristics are as follows: Fil. voltage, 4.4; fil. current, 1.6 amps.; amplifier plate voltage, 350; C-biasing voltage, 30; amplifier plate current, 30 milliamperes; plate impedance 4,000; amplification constant, 7. No injury will result to your receiver by substituting other tubes for those previously used. However, the efficiency of your set might suffer if the new tubes have different characteristics.

Combining Adaptor

In following the article on "Building a Short-Wave Adapter" in your January issue, I would like to build the r.f., detector and a.f. stage in one set as a single unit. Is any additional information needed besides that given in the article?

The two diagrams on the short-wave adapter published in the January issue of RADEX, form, when hooked up to gether, really a three-tube short-wave set complete in itself. The first diagram



Lawrence Tibbett, recently guest artist on Atwater Kent Hour, who achieved the heights in both opera and talking pictures.

shows the r.f. stage and detector while the second shows the a.f. stage. There is no reason why all three tubes and associated instruments cannot be housed in a single cabinet. If desired, an additional a.f. stage can also be added to the first a.f. stage, following the same wiring diagram.

Frequency of Transformer

In the December issue of RADEX, in an article covering tone control, high and low frequency transformers were mentioned. I have been unable to obtain such transformers. Kindly state the difference between the construction of these two types. Is it the ratio of windings, size of (Continued on Page 22)

NEW RADIO AIDS and DEVICES

Some Recent Developments

NUMBER of new devices are being A appeal to the experimenter in radio. manufactured which have a distinct A "filtered aerial wire" is described as giving revolutionary results. It is composed of a solid straight insulated wire around which is spirally wound enameled wire over the entire length. The straight inside wire is connected to a ground at each end while one end of the spiral wire is connected to the aerial post of the radio set. This arrangement is said to pick up very weak signals and, due to the transformer principle, the signal is amplified thus giving an excellent aerial for clear, distant reception. The price per coil (length not stated) is \$1.50.

A Tone Control comes ready to screw to the cabinet with two wires at the end of which are adaptors to be placed under the power tubes. A single knob furnishes complete control of the tonal quality of the receiver. When the pointer is turned toward "Bass," the full, resonant lower frequencies are brought out. When turned toward "Treble," the high, brilliant frequencies are accentuated and the lower frequencies held down. This device is said by the makers to enable one actually to choose any instrument in an orchestra and bring it out where it is ordinarily hidden in the background of volume. It is claimed that crackling noises and other interference due to electrical apparatus in the vicinity may be minimized. No tools are required to install and no change in the wiring of the set is necessary. This device lists at \$3.75, while a similar one for mounting on panel lists at \$2.75.

What is called an "Accuratuner" lists at \$2.50. Regarding this instrument, the manufacturers say: "With only ten kilocycle separation between stations, even many of the finest radio sets require an interference eliminator for close separation of stations. By simple adjustments, the Accuratuner will shut out

any unwanted station interfering and in most cases will enable the user to get through the locals and bring in the distant station he wants."

A new Electro-static Arrester uses the silicate of carbide principle in place of the gap. This is said to offer very high resistance to powerful lightning discharges. The shield over the ground terminal is so constructed that it shields the set connection from the usual electrostatic field set up between the aerial and ground connections. This acts as a static noise reducer. In addition a choke coil and condenser are mounted in the arrester and connected between aerial and set terminals to aid in filtering static noises which are being inducted into the set through the aerial. The choke coil is wound with wire that will act as a fuse and break circuit before any harm can be done to the set in case the aerial should come in contact with light or power lines. This Arrester lists at \$1.00.

A Multi-Speaker Relay listing at \$2.75 permits a number of loud speakers to be used at will. A turn of the knob switches from one speaker to the other. The capacity is four speakers or two may be played at one time.

An Ear Phone Adapter provides a simple way to attach head-phones to modern sets without making any change in wiring. An adaptor is provided with a connector attached. The adaptor is placed in the socket of the power tube and the tips of the phones are inserted in the connector and then the family may sleep in peace while the DXer circumnavigates the air. Where there are two power tubes in push-pull, both tubes are removed and the adaptor is placed in either socket. With this device the signal is taken from the set at headphone volume before it has been amplified by the power tube. The adaptor lists at \$1.50.

RADEX has had no opportunity to test the above devices and merely publishes the information regarding them as a service to its readers in keeping them informed of the progress of the industry.

A RADIO PANDORA'S CHEST

THERE has recently been put upon the market a whole radio laboratory in one little unit. It consists of an aluminum case about the size of a shoe box which contains coils, condensers, resistances and sockets connected to eight binding posts in such a way that merely taking off leads from these posts in various combinations changes the unit into as many devices as a magician can take from a hat. No tools are necessary and no change in the wiring of any set. In fact a knowledge of radio is not essential as the directions for forming various devices are full and plain.

Some of the devices which can be made up from the ingenious "Magic Box" are the following:

A short-wave receiver for use with batteries and a 199 or 201 tube and head phones. Four coils are provided giving a full range of the short waves.

A regular portable broadcast receiver for camp or auto use. One of the four coils tunes from 200 to 550 meters thus covering the broadcast band.

A short-wave adapter for either a battery or all-electric set. For this purpose the detector tube is removed from the set and placed in the socket of the unit. A plug with cord from the adapter is then put in the socket of the set and there you are.

A crystal receiver for use without batteries or tubes.

A wave trap of the most modern design.

A wave meter for checking the dial markings on a regular broadcast receiver. An oscillator for neutralizing a neutro-

dyne.

A booster unit for putting ahead of a regular receiver thus adding an additional stage of radio frequency.

A code sender for the home to be used in learning the letters by sound.

That's quite an order to get out of one little box, isn't it? If it is what its makers claim, this should be a most desirable device for any radio owner as no changes need be made in the regular set in any

of the experimenting. The unit lists at \$16.00, with an extra charge of two to three dollars for the plug-in with cord, depending upon the particular tube used in the regular set.

If our readers desire to try any of the devices described above, they may order through this magazine. As stated above, we have not tested any of them and cannot vouch for them but they are all made by reputable manufacturers.



Uncle Abe and David, two popular characters of the dials. Phillips Lord (R) and Arthur Allen (L)

Middle or Center?

Several readers take exception to our definition of WOC as being "in the middle of the dial" in last month's puzzle. They would have been quite correct in their criticisms if we had said the "center of the dial." The Standard Dictionary says: "We speak of the center of a circle but the middle of a room or the middle of a street. The center is equi-distant from the opposite boundaries; the middle is more general and less definite."

WOC on 1000 kilocycles is 50 channels from one end of the broadcast band and 46 from the other and it should come in on the middle of the dial but, of course, not in the center. Class dismissed.

TURNING Our FRIENDS' DIALS

What Our Readers Are Hearing

EUGENE MARTIN, 5446 Mc-Comas Lane, Dallas, Texas, sends a newspaper clipping regarding to new station XEP on 1430 kcys, with 2500 watts, which is to have its studio in Laredo, Texas, and its transmitting tower across the river in Laredo, Mexico, thus coming under the jurisdiction of the Mexican rather than the American authorities. The new station which will be known as "La Vos Latino" is one of a chain organization which will place four other stations in Mexico immediately. Several American stations which are concerned in a dispute with the Federal Radio Commission threaten to move to the Rio Grande, choosing their own frequency and subjecting themselves to the authority of the Mexican government rather than their own. Mr. Martin wonders if this is the beginning of a series of stations clear across Texas from El Paso to Brownsville. Mr. Martin states that the people of Texas are extremely proud of station WFAA and he would appreciate hearing from Northern listeners as to the reception of that station.

Richard Bogert, 1416 Linden St., Allentown, Pa., is sure he heard a German station broadcasting about 833 keys. on the morning of January 13th and 15th, about 12:30 a.m., EST. Their announcements were clearly in German and they played many short sacred selections. He heard the time given in German as 36 minutes past six. Mr. Bogert is anxious to know if any others heard this station. as it is his first foreign catch. Mr. Bogert has discovered that the most successful DXers seem to live near a large body of water, either the Atlantic, the Pacific, or the Great Lakes, and that there are very few foreign reception records coming from inland states announced in RA-DEX. Is this just a coincidence or is there something in it?

The mystery of the Balboa station seems to be solved. Edward Heyworth, 55 No. 11th St., San Jose, Calif., and

several others write us that station KGER, Long Beach, Calif., broadcast frequently by remote control from Balboa, Calif., which is near Los Angeles, and is no relation of the Canal Zone Balboa. Evidently the information from the Navy authorities that there are no broadcasting stations in the Canal Zone is correct and we are deleting NBA.

Howard F. Gerge, 2684 Clermont St., Denver, Colo., has received Costa Rica, Newfoundland, and Hawaii. On January 13th he heard a station on several different channels with a speaker talking in what Mr. Gerge believes was Japanese. Mr. Gerge is certain the language was not Spanish, French or German, and is very curious to know what station he was hearing.

Harry R. Elkins, Jr., 27 Allison St., Pontiac, Mich., logged 165 stations in the first six days with his new Philco 11-tube Super-heterodyne. He reports the power and selectivity of this set as amazing and states that although he is located only a mile and a half from the 5000-watt WJR, he can bring in WJZ and WSB every night on adjoining frequencies. He is using Dr. Brokaw's grounded aerial.

Since October 1, 1930, Charles Bonneville, 1905 Minnesota Ave., S. E., Washington, D. C., has logged 260 stations, his best record being KGB, San Diego, and KTFI, Twin Falls, Idaho. Mr. Bonneville would like to hear from any readers who have invested in one of WFIW's much advertised Varituners.

K. Wishart, 231 Montrose Ave., Winnipeg, happened to get a copy of RADEX by mistake and considers it a very lucky mistake. In the less than three months he has had his General Electric 9-tube super, he has logged 152 stations. Naturally he must get his stations all from the south. He has received stations on every frequency.

Fred Banzhof, 521 No. 1st St., Marshalltown, Iowa, is very much pleased with his Midget set which cost him only \$49.50. In tests with his \$150.00 console model he has brought in clearly 23 sta-

tions in an afternoon, with the Midget, as against nine on the Console.

B. L. Presnell, Scranton, Iowa, has four Australian stations to his credit, two from New Zealand, and six of the big seven in Japan. He has not yet brought in Hawaii or Alaska. He wonders if any other Iowans have heard any of these countries.

Thomas Kelley, 21 Monumental Road, Dundalk, Md., has 331 stations bagged on his Philco, Model 92. He has heard nine Mexican, 11 Cuban, and 18 west coast stations. He considers his best catch the 25-watt 10-BP at Wingham, Ont.

Some Experiments

Carroll C. Foltz writes that he was bothered with WLW coming in at several places on his dial. He discovered that his rectifier tube was supplying only half as much current as needed. When he replaced the defective tube it immediately ended the spread on WLW in harmonics.

Herbert Van Duyne, P.O. Box 88, Towaco, N. J., always had trouble bringing in stations between 540 and 760 kcys. He put up a 250-foot aerial "L" shaped, and now they come in beautifully and he says the selectivity is still good. He uses an Atwater Kent No. 60.

G. B. Bingham, 134 Ferrie St., East, Hamilton, Ont., has arranged an aerial in his attic composed of a number of wires which spread out like a fan toward the south. He gets much better results with this than with his 50-foot outside aerial.

Chas. J. West, 4100 Jacob St., Wheeling, W. Va., complains that many stations "stutter" on his set until very late at night. This is undoubtedly due to interference, which is not relieved until many stations sign off late in the evening.

C. E. Roach, Loudonville, Ohio, states that he picks up short-wave stations as high as 1604 kcys. on his Silver Marshall Super-heterodyne and wants to know if that is usual. Most receiving sets tune to 1500, although many of them will tune almost to 1700 kcys., thus bringing in many of the short-wave stations.

A. Hayter, 28 Millbrook Crescent, Toronto, Ont., has become interested in short-wave reception and would like to hear from short-wave fans.



"Daddy and Rollo," a new series of La Palina programs by J. P. McEvoy. Columbia, Tuesday, Wednesday and Thursday, 7:45 to 8:00, E.S.T.

Radio Gossip

"I have heard of a device being perfected for transmitting scrambled broadcasts with another device to be attached to the radio receiver which will unscramble the program. The rumor is that this device is owned by the National Broadcasting Company and is being held in reserve for the time when it can be used to make the public pay for their broadcasts, probably on a rental basis. I would like to know if there is any truth to this story," writes H. D. Spangler, Shirley, Ind. We do not know as to the facts in the case, but we do not believe it would be at all difficult to make such a device, in fact, the American Telephone Company now has a device which will turn an ordinary conversation into a gibberish which cannot be understood, but when this gibberish is run back through the same device it comes out good English at the other end. Also it would perhaps be feasible to broadcast a program in two parts, something on the order of a push-pull. One of these programs could then go on to the air on one frequency and the other on another frequency. A sort of duplex (Continued on Page 24)

NEUTRALIZING Oscillation of R.F.Tubes

Balancing the Neutrodyne

HE purpose of the small neutralizing condensers or "neutrodons" of a neutrodyne receiver is to eliminate oscillation caused by the internal capacity of the r.f. tubes. These small condensers are connected between the plate and grid circuits of successive tubes, the grid connection being made to a tap in the secondary winding of the coil, which is also connected to the grid terminal of the following tube.

To properly neutralize a neutrodyne receiver one must be able to tune in strong signals, either from a local broadcasting station, or produced by a vibrator that can be tuned to a definite wavelength. The latter can be made from a .0005-mfd. variable condenser, a coil consisting of 60 turns of No. 26 insulated wire wound on a 3-inch tube, a doorbell or buzzer, a switch and two dry cells. The two terminals of the condenser are connected to the ends of the coil. One of the coil ends connects to the switch and the other side of the switch goes to one terminal of the buzzer. The second coil end is connected to one side of the dry cells, wired in series, while the other side of the dry cells goes to the second terminal of the buzzer. By turning on the switch and rotating the condenser, signals of various wavelengths can be obtained.

In use, the oscillator is located about 20 feet from the receiver, no connection being made between the two as enough energy will be picked up by the receiver to permit neutralizing it. The buzzer is adjusted so that it produces a highpitched sound and the condenser is then set about 10 degrees, which will cause the buzzer to oscillate at a wavelength of approximately 225 meters or 1330 kilocycles. The dials of the receiver are then set at the point where the signals come the loudest. When no buzzer is used the same procedure is followed to tune in a strong station at about the same wavelength.

After the signals have been tuned in as loud as possible remove the first r.f. tube from its socket. The signal will then become fainter but the tuning dials are carefully readjusted to the point of maximum volume with the tube removed. The first r.f. tube is the one closest to the tuning coil to which the aerial connects. Slip a piece of paper over one of the filament tips of the removed tube and reinsert it into the socket. It will not light up. The tuning dials should not be touched, but the small neutralizing condenser between the first and second stage is adjusted to a point where the signal is nearly or entirely inaudible, and it is left at this point. Do not attempt to make this adjustment by hand or with a metal tool. as body capacity, and capacity of the tool will interfere. After the adjustment is made, remove the paper insulation from the tube and reinsert it into its socket. The first stage is now completely neutralized. Then remove the next r.f. tube, insulate one of the filament tips. and proceed in exactly the same way. After both stages have been neutralized, care must be taken not to alter the adjustment of the small condensers. Sometimes they can be screwed down securely so that there will be little or no danger of their being changed. When it is necessary to replace the r.f. tubes. be sure to substitute tubes of the same type, which have the same characteristics. If the tubes are changed about or new ones inserted, the neutralizing process will have to be repeated.

Gets Hot Signals

"I have read the many suggestions about aerials," writes R. N. M., Corning, N. Y., "and hope you will let the other readers in on this one. Solder a wire to a hot water tank and run it to the antenna post of the radio set. This has given me more volume on my set than any other indoor or outdoor aerial I have ever had." This one would be easy to try anyway.

THIS MONTH'S CHANGES

	Ci	17 1	NOLO
New Sta	tions		
550	CMCJ	250	Havana Cuba.
856	CMCJ CMJE CMGF	5	Camaguey, Cuba.
977 1000	CMGF XEE	50 10	Matanzas, Cuba. Linares, Mex. Laredo, Mex.
1000	XEFE	101	Laredo, Mex.
1010	CMCV	250	Havana, Cuba.
1070	CMBG CMAA CMGI CMHI CMHA	150	Havana, Cuba. Havana, Cuba.
1090	CMAA	30 30	Guanajay, Cuba. Matanzas, Cuba.
1094 1110	CMHI	15	Santa Clara, Cuba.
1154	CMHA	200	Santa Clara, Cuba. Cienfuegos, Cuba. Santiago de Cuba.
1176	CMKG	30	Santiago de Cuba.
$\frac{1185}{1200}$	CMGB	15	Santiago de Cuba. Santiago de Cuba. Santiago de Cuba. Havana, Cuba. Matanzas, Cuba. Mexico City. Ciego de Avila, Cuba. Havana, Cuba.
1225	CMKB CMCN CMAB	250	Havana, Cuba.
1249	CMAB	20	Pinar del Rio, Cuba.
1050	CMGH XEFA	$\begin{array}{c} 60 \\ 250 \end{array}$	Matanzas, Cuba.
$\frac{1250}{1276}$	CMJB	20	Ciego de Avila, Cuba.
1285	CMRI	15	Havana, Cuba.
	CMBM		Havana, Cuba.
	CMCG CMCR	30 20	Havana, Cuba. Havana, Cuba. Havana, Cuba. Havana, Cuba.
1310	WBEO	100	Havana, Cuba. Marquette, Mich.
	XETN	30	Toluca, Mex.
1315	CMGC	30	Matanzas, Cuba. Santiago de Cuba.
1327 1332	CMKH CMJA	250 10	
1345	CMBA	50	Camaguey, Cuba. Havana, Cuba.
	CMBF	7.8	Havana, Cuba.
	CMCD	15	Havana, Cuba.
	CMBF CMCD CMCU CMCY	15	Havana, Cuba. 5 Havana, Cuba. Havana, Cuba. Havana, Cuba. Havana, Cuba. Havana, Cuba.
1363	CME	30	Holguin, Cuba.
1375	CMGE	30	Cardenas, Cuba.
1405	CMBI	30 15	Havana, Cuba.
	CMBK CMBN CMBQ CMBX	30	Hayana, Cuba. Holguin, Cuba. Cardenas, Cuba. Hayana, Cuba. Hayana, Cuba. Hayana, Cuba. Hayana, Cuba.
	CMBQ	50	Havana, Cuba.
1400	CMBX CMHE	30 20	Havana, Cuba. Santa Clara, Cuba.
1429 1430	XEP	2500	Laredo, Mex.
1450	CMKA	20	Santiago de Cuba.
1500	CMBH	30	Havana, Cuba. Havana, Cuba.
	CMBL CMBP	15 15	Havana, Cuba. Havana, Cuba.
	CMBR	15	Havana (iliha
	CMBR CMCM	15	Havana, Cuba. Havana, Cuba.
	CMCT	5	Havana, Cuba.
	CMHB	10	Sagua la Grande, Cuba.
Power 590	CMW	Hava	na, Cuba. 1000 to 700 na, Cuba. 5000 to 3000 to 100 hin, N. B. 50 to 500 on, Ont. 1000 to 500 ottet'n, P.E.I. 30 to 100 oops, B. C. 5 to 100 wack, B. C. 5 to 100 op. Ont. 500
730	CMK	Hava	na, Cuba. 5000 to 3000
830	CMGA	Colon	, Cuba. 300 to 100
890 910	CFBU	St. Jo	ohn, N. B. 50 to 500 on, Ont. 1000 to 500
960	CJGC	Charl	ottet'n, P.E.I. 30 to 100
1120	CFJC CFNB	Kaml	oops, B. C. 15 to 100
1210	CFNB	Chilli	wack, B. C. 5 to 100
1220	CKPC CMCA	Have	on, Ont. 50 to 25 na, Cuba. 100 to 150
1310	WRBI	Tiffor	n Ge 90 to 100
1400	CMBY	Hava	na, Cuba. 200 to 100
1450	WHOM	Jerse	City, N. J. 250 to 500
Deleted	****	*****	
632	XFE NBA	Villah	nermosa, Mex.
846 859	XFZ	Mexic	ea, C. Z.
1240	CMKX	Hoigi	iin. Cuba.
1400	WSDA	Brook	nyn, N. Y. ourgh, Pa.
1500	WMBJ	Pitts	ourgn, Pa.
Calls	TAME	T a-1	and Gal to TOMOS
1120 1320	KMIC KGIQ	Ingle	wood, Cal., to KMCS. Falls, Idaho, to KTFI. York City, to WBNX.
1350	WKBQ	New	York City, to WBNX.
		2	3.00, 10 1.2.1.2.

rrequem	ICB			_
				From
630	XET	500	Monterrey, Mex.	890
645	\mathbf{CMHJ}	40	Cienfuegos, Cuba.	1154
650	\mathbf{xer}	101	Mexico City.	984
719	XEN	1000	Mexico City	732
730	\mathbf{XEM}	500	Tampico, Mex.	841
840	\mathbf{XEG}	2000	Mexico City.	829
845	CMC	500	Havana, Cuba.	840
870	CMHH	10	Cifuentes, Cuba.	1285
890	$\mathbf{C}\mathbf{M}\mathbf{X}$	500	Havana, Cuba.	910
940	XEO	5000	Mexico City.	674
955	CMBC	150	Havana, Cuba.	1130
	CMBD	150	Havana, Cuba.	995
977	XED	10000	Reynosa, Mex.	961
1000	XEA	101	Guadalajara, Mex.	1200
	XEC	50	Toluca, Mex.	1133
	XEF	105	Oaxaca, Mex.	1132
	\mathbf{xeh}	101	Monterrey, Mex.	1132
	\mathbf{xej}	101	Juarez, Mex.	857
	xel	10	Saltillo, Mex.	1091
	XEU	101	Veracruz, Mex.	800
	XEV	101	Puebla, Mex.	1035
	XEY	105	Merida, Mex.	547
1034	CMKC	150	Santiago de Cuba.	1045
1140	CMGD	5	Matanzas, Cuba.	920
	XETA	500	Mexico City.	1100
1150	CMCQ	600	Havana, Cuba.	955
	CMQ	250	Havana, Cuba.	1130
1210	XEX	500	Mexico City.	1190
1321	CMJC	15	Camaguey, Cuba.	1350

A DXer's Dxology

Dear WILL:

Frequencles

WAAT 'till I see you. I'm going to get real WRUF and make a WREC of you. Why? WRAK that WOOD head of yours? WHN are you ever going to K-T-H-S? It's not far as the KROW flies and right now I have a WLTH of good LKR. It's no JOAK, you old CNRR. Hop on your K-D-K-A, you big KID, or better call a CAB. But don't bring JOCK. WHAT do you say?

Have you seen INA again? WOW, she's some KIDO. Remember when you KSD her and she put up a KICK? Boy, how she KRLD up her fist and gave you a WHAM on the nose. Your beak was WRAW and KUT for a good while after. And, gee, how you KUSD.

WELL, W-E-N-R you coming? W-S-P-A to a little WREN who W-F-L-A to me.

Your friend,

KIT.

The above midwinter nightmare was submitted by John Francis Doherty, 693 East 42nd Street, Brooklyn, N. Y., as a puzzle but is so good we didn't want our friends to wait another month for the key to it.

LEAKS Must be Plugged in AERIAL

Set Gives Only What it Gets

▲ S it is rather inconvenient in many cases to inspect the aerial thoroughly, the owner, who has trouble, can make a few simple tests, which will tell whether or not the trouble lies in the aerial and ground circuits. One method of doing this is to disconnect the aerial and ground wires from the receiver while it is in operation and if the trouble ceases it is presumably in the aerial or ground. If the trouble continues, it is most likely in the receiver or the accessories. However, there may also be some defect in the aerial system, in addition to trouble in the receiver.

A good method of testing the aerial and ground is to use a headset and a small battery. An old B-battery will do for this purpose and it is connected in series with the headset. Disconnect the aerial and ground wires from the binding posts on the receiver and place them in a position so that the bared ends of the wires will not touch each other, or touch any conductor such as metal, which is connected to the ground.

To test for a grounded condition of the aerial caused when it touches anything connected with the ground, hold one tip of the tester to the aerial and then touch the other to the ground wire or any metal, such as a radiator or faucet, the lead-in being disconnected from the set. If you hear a click, there is no doubt that the aerial is grounded. A highvoltage battery of 45 or 90 volts should be used for making this test. If a lightning arrestor is used the trouble may be found here. It must be remembered however, that a test of this kind does not always show a slightly grounded condition, which is nevertheless apt to interfere with reception.

In order to find whether there is a break or an open circuit in the aerial, it is necessary to connect the far end of the aerial to the ground and then make the same test as just explained. A click in the phones should be heard in this case, and the absence of a click indicates a break or open circuit. If this test is made on a windy day, when the aerial sways about considerably, and if crackling noises are then heard, you may be certain that there is a loose connection somewhere, probably where the lead-in connects to the aerial. The efficiency of the ground connection can be tested by touching the tips of the tester to the receiver ground and to a cold-water pipe. A distinct click heard in the headphones shows that the ground wire and connection are in good condition. Another method of testing the efficiency of a ground connection is to tune in the whistle of a broadcasting station, and then to touch the bare ground wire where it connects to the receiver, with a moistened finger. If the whistle varies in pitch when this is done the ground connection is inefficient.

Grounded Aerials

If the aerial touches any object or conductor, which is connected or partly connected with the ground, the aerial will be grounded and poor reception will result, evidenced by a loss of volume or total inaudibility. Radio currents, which pass through the medium of the air, pass over wet walls, carbon-covered insulators very readily, and still easier over metal such as conductor pipes. If an aerial is grounded or a grounded condition is suspected, make a careful examination of the whole system. The aerial should be taut and if it lies on the roof, it must be re-erected. It should be strung in such a position that it will not swav against a wall, roof gutter, chimney or any other object.

Where an aerial is stretched between two buildings or any other suitable supports, care must be taken to clear it from trees, which will ground the aerial, if they touch it. This is generally not taken into account when an aerial is erected during the winter months when trees are bare, with the result that the foliage often touches the aerial during summer. Trees may be used as supports for aerials provided the end wire from the insulator to the tree is sufficiently long to permit the aerial proper to clear the branches and thus prevent a grounded condition.

Clean off the insulators thoroughly, as soot often collects on them. Soot is a form of carbon and permits the passage of electricity over the insulator, and some of the energy picked up by the aerial will then be lost. During winter, ice-covered insulators may also permit a loss of energy, but this trouble is usually periodic, and ceases as soon as the ice melts. In localities where there is quite a bit of rainfall, loss of volume may be caused by a grounded condition, due to wet insulators: it is well known that water is a good conductor of highfrequency currents. It is often stated. that a receiver works better during a rainstorm than at any other time, but this assertion is erroneous. The source of trouble in grounded aerials can often be traced to some point in the lead-in. where it comes in contact with the building. Bare lead-in wires should of course, never be used, for their use greatly increases the possibility of grounding troubles. If a ground is found at a point where the lead-in touches a part of the building, and the insulation is frayed, provide a suitable support at this point, with an insulator on it to hold the aerial.

Faulty Lightning Arrestors

Sometimes faulty lightning arrestors will ground aerials. A lightning arrestor is really a spark gap having the two terminals set closely together. If the assembly becomes loose, the terminals may touch each other. The condition of the lightning arrestor can readily be checked with the headphones and a small C-battery. Disconnect the leads from the lightning arrestor and then proceed to test it. If it is in good condition, no click will be heard. On the other hand, a click indicates a short circuit. Besides short circuits inside of the lightning arrestor, it may have external losses through a film of soot. This condition is not really a short circuit but nevertheless decreases the efficiency of the receiver. It is an easy matter to clean off the lightning arrestor with gasoline occasionally to prevent this trouble.

Open-Circuited Aerials

Total inaudibility can sometimes be traced to an open-circuited aerial. The lead-in wire may be broken, or it may not have been soldered to the aerial. Corrosion at the joint may be responsible for the open-circuit. Look for it where the wire has been bent often, or where it has been mashed, as for instance, under a window sill. A broken wire can usually be felt, but an accurate test can be made



with the headset, a C-battery being connected in series with the headset, a small slice of insulation cut off the wire on each side of the point where a break is suspected. When the testing tips are touched to the bare wire at the places where the insulation has been sliced off, there should be a sharp click, which indicates continuity of the wire. However, handle the wire at the place where the break is suspected for the two ends may happen to touch each other while making the test, and this would of course, give the same effect as an unbroken conductor. In case the wire is broken, cut the insulation at the break and bare the ends. Scrape them clean to the copper and twist them together

Theory of Radio

(Continued from Page 2)

into audio frequencies or those within range of the human ear.

In the receiving set is a variable condenser which is turned with the tuning dial. This condenser or series of condensers has the faculty of "tuning" the set to any frequency from 550 kilocycles to 1500, some more and some less. The receiving set must be tuned to exactly the frequency of the station it is desired to receive. When it is so tuned a signal of that particular frequency will be converted into audio waves which will vibrate the diaphragm of the loudspeaker which in turn sets up air waves to strike the diaphragm of the ear and we "hear" the program.

This is a rough and necessarily inaccurate description of the elements of radio. Now as to frequencies and wave lengths. If you were to drop a handful of pebbles into a pond of still water, one at a time, a series of circular rings or waves would be set up which would travel outwardly. The rate at which you dropped the pebbles, that is the number per second, would be your frequency. The distance from the crest of one of the tiny waves to the next would be the wave-length. The faster you dropped the pebbles the shorter would be the wave-length; in other words, the higher the frequency the less the wave-length and vice-versa. A cycle is one complete vibration that is one wave and one hollow. A thousand cycles is a kilocycle. We use the metric or decimal system because the English and American systems of measurement are antiquated and cumbersome. We could scarcely say a station had a wave-length of seven yards, two feet, nine inches and 17-64ths, could we?

Radio waves travel with the speed of light or roughly 300,000 meters per second. If we divide this by the frequency per second we get the distance from one wave to the next or if we divide by wavelength we get the frequency. If you divide 100 by ten you get a bigger quotient than if you divide by 25. Thus we see that the higher the frequency the

less the wave-length. As a matter of fact the wave-length has nothing to do with it. It is a term that came into use in the early days before we had progressed and the radio user would do well to forget all about it.

The radio authorities have decided that stations will interfere with each other if they broadcast on frequencies closer together than ten kilocycles. Our channels are therefore laid out in "tens" which has the additional merit of being our decimal figure. When we divide a number by even numbers we will nearly always have a fraction thus dividing the speed of radio waves by our even frequencies will nearly always give us a fraction in our wave length. But as said before, let us forget wave-lengths entirely.

In the early days of radio wave-lengths were the unit of measurement and the first radio manufacturers numbered their dials so that the higher the wave-length the higher would be the number on the dial. Some later manufacturers have followed these pioneers as we have followed the calf that laid out the city street and still make their dials read opposite to the frequencies so that when you want a higher frequency you have to turn to a lower number on the dial. Such manufacturers are sound asleep; they are still living back in the old wave-length days. Buyers are avoiding such sets for the simple reason that if a manufacturer is so out of date with his dials, the chances are that he is also behind the times with the balance of his set.

Some manufacturers mark their dials with kilocycles which is a most convenient form if it is accurate, but unfortunately, it is not possible to make sets in quantities and have frequencies come in at exactly the same point on a standard dial. It is out of the question to mark an individual dial for each set made and the result is that on many dials calibrated in kilocycles, the stations do not come in just where they should. A station at the lower end of the dial which has a frequency of say 650 keys. may come in at 670, while at the other end, a station of 1470 may come in at 1450. The result is most confusing.

The interference above 1200 of which Mr. Rouse speaks is caused by two factors. First we have altogether too many stations on the air for the ability of our condensers to separate them. Second. due to the construction of our condensers, the higher the frequency the smaller is the distance on the dial between them. Let us say that in the middle of the dial (from 900 to 1000 kcys.) the outside of the dial must be turned 1-16th of an inch between frequencies. Then in the upper frequencies of 1200 to 1500 the dial must be turned much less than 1-16th; this causes a congestion at this end with consequent interference from overlapping. Unfortunately nothing can be done about this until the number of stations is reduced, the separation of ten keys. made greater or some genius brings out a condenser much more efficient than those we have today.

As to head-phones, the modern electric set is so powerful that they are not needed in order to receive even distant stations. The one who desires to listen by himself after the family has retired and the DXer can however attach phones to any set. The method was fully described in our April, 1930, issue (No. 38, a few copies of which are still available). In this issue you are reading you will find described a device for attaching phones by removing the power tube or tubes of a set and inserting instead a plug which leads to a telephone connector.

DX is the code abbreviation for distance, hence a DXer is a listener who likes to tune to distant stations. A DX program is a special program arranged for these DXers particularly by low-power stations which are ordinarily hard to receive. Collecting verifications from DX stations is a fascinating hobby as one can easily perceive by perusing some of the letters printed in RADEX.

DX stations of low-power are naturally the most difficult to receive. It is usually necessary to try for these late at night after a number of stations have signed off, thus lessening the interference on each wave. Some of these stations occasionally broadcast special after-midnight programs for DXers.

The Editor Listens In

To Phil Cook, the Quaker Man . . . A little of this goes a long ways, a very long ways.

Turn the Dial

To the Davey Hour . . . I think that I shall never see . . . a more enjoyable Sunday afternoon program. A little of everything, including, so they say, a fifteen minute speech to "Friends Everywhere."

Turn the Dial

To the Enna Jettick Melodies . . . Usually very good; the "Songbird" is an exceptionally sweet-voiced soprano.

Turn the Dial

To Major Bowes' Family . . . Let me leave this thought with you . . . a very nice way to spend half an hour Sunday evening. Thank you, Louise.

Turn the Dial

To the Tastyeast Jesters . . . Cut out the comedy and we will tune you in again.

. Turn the Dial

To the Rise of the Goldbergs . . . A Fanny Hurst-ian symphony of Jewish family life. The clash between the



A Cuckoo Professor. Here is Professor Ambrose J. Weems, Director of NBC station "KUKU" nee Raymond Knight.

idealistic and the materialistic of the mother and father. Most enjoyable.

Turn the Dial

To Lowell Thomas . . . The news of the day presented in an easy-to-take form. An interesting evening summary of the world's doings.

Turn the Dial

To Detective Story Magazine . . . Crooks bumping each other and innocent bystanders off. Plenty of this in the daily papers. Enough is too much.

Turn the Dial

To the Pickard Family . . . Mountain songs and music. A glimpse of a phase of real American life that is fast disappearing.

Turn the Dial

To Dixies Circus . . . Calliope and everything. Daily life and incidents back of a circus tent. Fair.

Turn the Dial

To Cecil and Sally . . . Terrible. If they could talk so one could understand them it would probably be worse.

Turn the Dial

To Carborundum Hour . . . Give us just a little more of the band and a little less of the uses of carborundum.

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Turn the Dial

To Louie's Hungry Five . . . The music is easy enough to listen to but the wit is awful. And the station pays money for it.

Turn the Dial

To Radiotron Varieties . . . Don't think I ever could care for a man who called himself "Bugs." Never was humor forced so hard. It actually labors.

Turn Off the Set

Available Back Issues

No. 35 — Electrifying Battery Sets.

No. 37 — Exploring the Short Waves.

No. 38 — Using Head Phones on Modern Sets.

No. 39 — Installing Radio in a Car.

No. 40 — Elimination of Radio Noises.

No. 41 — Noises Found in Your Home.

No. 42 — Interference by High-Frequen-

No. 43 — Multiple Speakers and Remote Control.

No. 44 — Wave Trap Increases Selectivity.

No. 45 — How to Build Short Wave Adapter.

No. 46 — Reducing Effect of Static.

Letters From Our Readers

(Continued from Page 6)

gests for a Saturday evening target CFCA, Toronto, on 840 kcys. She gets them every Saturday evening from 8:30 to 9 o'clock before Shreveport comes on.

Illustrating the uncertainty of the frequencies of Cuban stations, one reader sent us a notice from CMX that they were changing from 900 to 910. We corrected our list accordingly, but now in one mail readers send us verifications from CMX, one of which gives the frequency as 900, and the other as 890. The new Cuban Government list shows CMX on 900, but as several readers have heard them announce on 890, we are putting them, for a time at least, on the latter frequency.

Albert E. Cotes, Jr., 1007 So. Limestone St., Springfield, Ohio, reports a station giving the call letters WIBS which gave the correct time every hour and then signed off without announcing the city. Has any other reader heard this station? Mr. Cotes gets a peculiar reception on 880 kcys. of a steady tone which lasts for twenty seconds and then is repeated by five short sounds of the same tone. He states this is constant and is on all day every day. This is rather mysterious as we can think of no interference that would be so regular.

A new station, KMRS, giving its location as Gretna, Neb., was heard by Felix L. Schmitz, 4720 No. 31st Ave., Omaha, Neb. The announcement stated they were operating on a frequency of 1490 kcys. with 25 watts power. They are owned and operated by the Sun Theatre at Gretna and broadcasting five times each weekday and four times on Sunday. No notice regarding such a station has come from the Radio Commission, and it strikes us as odd that they would put a Nebraska station on 1490 which already has two powerful Chicago stations.

G. M. Rice, Belvidere, N. J., wants to identify WLY, College Station, which he picked up on January 16th at 3:45 p.m., below 550 kcys. They were broadcasting to an airplane at sea. Mr. Rice uses for a ground a 1½-inch galvanized iron pipe plugged at the bottom and driven into

the ground about eight feet. He keeps this filled with water and gets Mexican, Cuban and British Columbia stations without an antenna.

A reader sends us a newspaper clipping to the effect that WIP and WFAN are to be consolidated, and that programs will be continuous in operation without interruption. The new WIP-WFAN station broadcast for the first time on Sunday, February 1st. It will be on the air from 9 o'clock in the morning till midnight every day.

A station giving the call letters WNPA was picked up on 1170 kcys. by Harold C. Rockey, 50 Trinity St., Stratford, Ont., Sunday, January 18th, at 1:45 p.m., with a program from the International Bible Students' Association. He is anxious to identify this station.

George Tonnyson, 408 Seventh St., Oakland, Calif., gets station KFBD without an aerial. He reports the station as being in Los Angeles on 1240 kcys. with 100 watts power. No such station is listed by the Radio Commission and we would be glad to learn more about it.

W. Dyson, 72 Cambridge Ave., Hamilton, Ont., sends us a newspaper clipping indicating that CKOC is moving from 880 to 1120 kcys., and that it will increase its power to 5000 watts. The Dominion Government still lists this station at 50 watts on 880.

Miss Carrie Alice Brinkerhoff, 317 Clinton Ave., Oak Park, Ill., is anxious to identify a station which she heard January 3rd at 3:45 a.m. CST. She did not catch the call letters and does not give us their frequency, but she heard them say. "Way out in Washington."

In January we changed KMIC to KMCS, but as many readers report still hearing them give their call as KMIC we changed back in February. Now several readers send us verification cards stating that this station changed its call to KMCS on January 16th.

We receive so many complaints regarding WRHM spoiling reception everywhere all night long on 1250 kcys. that it seems to us the Radio Commission ought to check up on this station's power. It hardly seems possible that a

station could do so much damage with only 1000 watts.

A. Murphy, 42 D'Aiguillon St., Quebec, heard a station between 730 and 750 kcys. whose initial letter was "K" that he could not identify. There was an announcement regarding blankets, Mackinac coats and Rogers silverware. He is anxious to hear from anyone who may have heard the same station.

A number of our readers have logged stations on all frequencies except 540, on which CKX, Brandon, Man., has a monopoly. They would greatly appreciate information as to the time on the air on this station in order that they may fill all their channel blanks.

Nelson Abercrombie, 3910 Tenth Ave. So., Birmingham, Ala., reports hearing WPTF sign off on 1100 kcys. and wonders how they came to be off their assigned frequency of 680. It is hardly possible that this could have been an harmonic.

A letter from the Jarvis St. Baptist Church, Toronto, Canada, states that while they still hold a license for CJBC no station has as yet been erected, and they use station CKGW for their Sunday evening services, 7 to 9 p.m., EST.

Station KTU, Fresno, Calif., is received frequently by Reginald Ogan, Carpinteria, Calif. As this station is not listed he would like to know if any others have received it.

Several readers report KUJ, which recently moved from Long View, Wash., to Walla Walla, on 1370 kcys., but we have no official notice of their change from 1500.

Don Turner, Box 655, Taft, Calif., states that he has received CJRW, Fleming, Sask., on 665 kcys. for three successive nights. Its official frequency is still 600.

A number of readers have reported CJGC, London, Ont., announcing the use of 5000 watts, but the Dominion Government still rates them at 500.

We are advised by the Nestle's Milk Products of Toronto that their station CKOW is still silent.

"KZM, Hayward, Calif., is still on the air," reports M. D. Wood, Pleasanton, Calif.

A Radio Mystery

"THIS is a letter describing a radio phenomenon," writes Norman C. Stines, Jr., from the Montezuma Mountain School, Los Gatos, Calif., "or at least I've never heard of such a thing before.

"I was listening to a radio in one of the rooms of the school. A record was being played. At the conclusion the same record was played over again and then a third time. I thought this very strange. I went down the hall and, passing another student's room heard that same record. He was playing it on a Carryola Porte Pick-Up which was connected to one of the first all-electric sets made, a Bosch. Down the hall I could still hear the radio I had just left. It was reproducing the record. I lifted the pick-up and the music down the hall ceased. Putting it back on, it started on the radio down the hall again. We then tried four other radios and it was found that all of them in this building would pick up the record. It came in at the same frequency on all of them.

"This is a still stranger part. Two hours later I tried the experiment again but with no result. In fact, all attempts to reproduce the phenomenon have been failures. Is there any possible explanation for such a strange occurrence?"

The explanation is that the Bosch was acting as a miniature broadcasting station and was rebroadcasting the record in just the same way that we used to get the whistles and squeals of our neighbors' regenerative sets. The failure to reproduce the results was undoubtedly because the Bosch set was not in just the proper stage of oscillation in the subsequent experiments. It would rebroadcast only when at a particular point of oscillation.

Operation and Adjustment

(Continued from Page 9)

wire or laminations which accounts for the difference?

The difference in high and low-frequency transformers is in their winding and core. Transformers on the market are not listed in this way. However, write to the Thordarson Electric Mfg. Co., 500 W. Huron St., Chicago, Ill. This concern will be glad to quote prices on transformers of both classes.

More Data on S.W. Set

In respect to the recent article on shortwave receivers I would like to know if I can use a set of "Aero" coils which I have on hand. I would also like to know the function of the tapped 20-ohm resistor used in the filament circuit of the 222 tube. I presume it is simply tapped as shown to complete the return grid circuit.

The function of the 20-ohm resistor in the short-wave adaptor described in the January issued of RADEX, is to obtain the proper C-bias for the r.f. 222 tube, and at the same time to furnish the correct filament resistance in the line. I am quite sure that you can use the coils you have on hand, but do not vary the wiring from the diagram or the efficiency of the adapter may be impaired.

Lack of C Voltage

Will you please give me the following information? I have a Freshman 7-250 Polydyne receiver. On checking it over I noticed that it does not show any C-voltage on the 250 and 227 tubes. Should these register a C-voltage? I notice that all the resistors are of the wire-wound type but I don't know what their value is.

The resistor for the C-bias on the 250 tube usually ranges from 1000 to 1250 ohms, depending on the plate voltage of a particular set. This resistor is connected in series with the center point of the 7.5-volt winding of the power-unit, and the B-neg. and ground line of the set. Test for an open circuit on both the detector and power-tube biasing resistors. In case of an open circuit, replace the defective resistor by going to a radio dealer handling Freshman parts.

"Frying" Noises

I have a new Kennedy, model 32, chassis using three screen grid 224 tubes, two type 227 tubes, two 245 power tubes in push pull, and one 280 tube. The receiver does not get anything except a few high-powered stations without a frying noise in the speaker, which is of the dynamic type. When the tone control, which is also a power switch, is turned

entirely to the right, or bass, the frying noises almost disappear. They come in loudest near a station. What should this receiver be able of getting? It is not overly selective. We are using a 60 to 75-foot antenna, 20 feet above the ground. There is a power line about 100 feet away and at right angles to the aerial. The set is equipped with Cunningham tubes. Disconnecting the aerial does no good as it makes the signals weak and the noise in proportion.

One might be apt to blame the power transformer for the frying noises in your receiver, but it seems that the trouble is caused in the set itself as it continues in proportion to the signal even with the aerial disconnected. However, interference from the transformer might be the cause. It is best to decide this definitely by taking the receiver to another location if possible. If the trouble does not continue, the source is probably the transformer. If the trouble persists, there is a poor tube in the set, which should be replaced, most likely one of the 227 tubes. Under favorable conditions you should be able to receive quite a distance with this receiver, say, from 500 to 1000 miles.

Volume Falls

I have a Stromberg Carlson model No. 846. Last January when the set was four months old it began giving the following trouble: While performing normal it would suddenly click and the volume would drop down about one-half. After a few seconds it would click and come back. The set was checked for loose connections, poor tube seating and other possible causes, without results. The chassis and power pack for the speaker were sent to the factory, being returned with the information that everything was in good condition. After that I sent the entire set back again including the tubes. A new chassis was substituted for the old one but the trouble still persisted. I have used this set in three different cities on nine aerials and it is no better. I might add that it cuts off during the day and up until about 8 p.m. almost continually but after that there is not so much bother although it will cut off at any time. Other radio sets in the same apartment building in which I live perform perfectly.

As you have had the same trouble of diminishing volume on two distinct chassis, in many different locations, and as the absence of this trouble in other sets in the same apartment building precludes the idea of external interference, there is only one thing left to blame the trouble to, and that is the tubes. According to the information in your letter, the same set of tubes was used on both chassis and in the various locations. One or more of them is likely defective, which cannot always be detected by testing as they seem to work all right to a certain point. Purchase one r.f. tube and substitute it for the tubes in the r.f. stages. If this does not locate the source of the trouble get a detector and try the same method of substitution, going to the audio stage with the proper tubes, last.

Faulty By-Pass

I have an Airline A C eight. Recently I began to notice a decrease in the volume of this set. It uses five 226, one 227, and two 171 A tubes. A complete set of new Radiotrons did not remedy the trouble. I built the simpler of the two wave traps described in the December RADEX and this brought the volume at the higher frequencies almost back to normal, but did not help much elsewhere. At the extremely high frequencies the set howls quite loudly if the wave trap is not tuned sharply, but howls only when the wave trap is connected. The last few days a poping noise has been heard in the speaker and the volume drops down to almost nothing. If the switch is turned off for perhaps 15 to 30 seconds, the program will come back again as before and may stay on for several hours without any trouble, or only for a few seconds. If a station at the extremely high frequencies is tuned in while the volume is low, and the set is allowed to howl, the volume immediately comes up and other stations can be brought in. This howl is severe enough to shake the entire cabinet and can be heard over the whole building. Producing the howl has never caused the volume to diminish. I failed to state that the phonograph pickup has showed no decrease in volume whatever and has never popped.

As your trouble is not evident when using the audio end with the phonograph

pickup, it is caused in one of the r.f. stages. The sudden stopping of the set is presumably due to a leaky by-pass condenser which discharges the moment the voltage becomes excessive. When the set is turned off the condenser loses its charge entirely so that it is practically empty when the set is turned on again. At first the condenser functions properly but as soon as the voltage builds up there will be another discharge through the dielectric of the condenser. A leaky condenser will not show a short circuit, but will be unable to hold a charge. When testing, this must be taken into consideration. Also, be sure to remove each condenser from the circuit when testing it. The howling in your set is of microphonic origin, and is most likely caused by the lack of constant plate voltage, due to the leaky condenser. If, after the faulty condenser has been replaced, the microphonic still continues, reduce the plate voltage on the detector or first audio tube, or both.

Our Friends' Dials

(Continued from Page 13)

receiving set could then pick up the two frequencies if the combination were known and bring them out of the loud speaker combined in their original form. Perhaps our readers can think of other ways in which such a stunt could be performed.

A number of readers report sending dimes for stamps to several stations listed in RADEX as verifying by stamp, only to have their communication either ignored or acknowledged merely by postal card. Among stations complained of are WKBF, Indianapolis, KVOO Tulsa, and WNBO, Washington, Pa. KVOO replies as follows: "We still issue Ekko stamps upon receipt of proof of reception and ten cents in cash or postage. If in any case the stamp was omitted where money was sent it was an oversight." WNBO state that they have run out of Ekko stamps and as soon as the new supply is received they will be sent to those who have paid for them. WKBF has so far failed to reply to our letter regarding this matter and we are

changing their symbol to "Do not verify."

W. N. Rowe, 208 Chatham St., Brantford. Ont., was never able to get stations farther than Texas with his 100-foot high aerial. He tried Dr. Brokaw's experiment with a grounded aerial by driving five pipes in the ground and connecting to his aerial post, with his regular ground to a water pipe. This boosted his volume 25 per cent. He added one more pipe to the south and one to the north, all seven being connected to one lead. He now receives such stations as WTAM, KMOX, and KDKA, with his volume control turned completely down. He has a Majestic, No. 70.

A number of readers still write to ask for instructions as to using headphones on their all-electric sets. This was fully covered by an article in the April, 1930, RADEX, No. 38. A few copies are still available at 25c each. The advantage of the method described in this issue is that a switch can be installed to cut the phones in and out. In this issue of RADEX (March, 1931) is described an adapter for the same purpose. The advantage of this adapter is that no wiring is necessary; the disadvantage is that the power tubes have to be removed and the adapter placed in their socket.

Edward C. Weber, 193 Margaret St., Plattsburg, N. Y., wants to know how to address artists appearing on the programs so that they will be sure to receive his letter. He has written a number of them, but never received an answer. These artists can be addressed in care of the program on which they appear, either at the station from which it was received or, in case of chain programs, to the broadcasting system. We doubt, however, if many of these artists will reply to fan mail.

A number of RADEX readers have formed the Inter State Radio Club. The organizers are Joseph J. Becker, Joseph Stokes, Cyril Engelmeier and Bryan Hamilton. They get a lot of enjoyment out of writing to each other regarding their DX experiences. Mr. Becker reports from Hamilton, Ohio, bringing in CJCJ, Calgary, and CKWX, Vancouver,

the same morning, and the next day, hearing CKMO, a 50-watter from Vancouver, very clearly.

Gerald McGrath, 2211 So. Clinton St., Sioux City, Iowa, has also found that a Ford radiator makes an excellent ground, for with one he has picked up stations in Japan, Australia and New Zealand. He has received 112 100-watt stations and 11 50's. He reports CKMO comes in with an awful kick for a 50-watt station.

C. R. Swickard, 20 E. Broad St., Columbus, Ohio, wishes that set manufacturers would put a small drawer in their cabinets to hold the radio accessories and avoid encumbering the top of the set.

Leaks in Aerial

(Continued from Page 17)

to form a splice, taking care not to twist the separate turns of wire too close together. The splice thus made must be soldered and wrapped with tape. A film of corrosion between the lead-in wire and the aerial must be removed, which is done by untwisting the lead-in wire and scraping both wires clean. Always solder such connections. A poor connection between the lead-in wire and the aerial causes crackling noises in the loudspeaker, especially on windy days, when the connection is agitated.

Broken Aerials

A broken aerial can readily be seen and it is repaired by splicing the two ends together. When doing this it will be found convenient to untwist the aerial from one of the insulators. After the splice is made the aerial is re-erected. When aerials are attached to trees, allowance must be made for a certain amount of play, for, as the wind blows, the tree bends, and an aerial stretched tightly from a tree may be pulled taut and broken by the strain. The remedy is to provide a coil spring. such as an ordinary screen-door spring. between the insulator and the tree, which will keep the aerial taut and at the same time allow the necessary play. Another method is to suspend a pulley and provide a weight. If an aerial swavs considerably, the end wires that hold it may

become brittle and break at the point where they are attached to the supports. To prevent an aerial from swaying, support it at one or more points. Weight on the aerial, as is caused by ice during sleet storms, may also cause it to break, but this trouble is rare, except in cases of ribbon aerials.

Aerials and Power Lines

A.C. hum may be caused by the aerial being parallel to a power line. Alternating-current surge in power lines set up a magnetic field at right angle to the conductor through which this current is flowing. This magnetic field consists of a great number of lines of force, radiating around the power line for a considerable distance. When they intercept other conductors parallel to the power line. they induce a slight current to flow in these conductors, the fluctuations of this current being in synchronism with the fluctuations of current in the power line. If such conductors happen to be radio aerials, it is evident that undesired currents are picked up by the aerials. and sent through the tuning inductance of the receivers connected to them. Such currents may be slight but they are strong compared to radio-frequency currents, and when amplified by the tubes of the receiver, they are very noticeable as a constant hum.

Similar interference may also be experienced when an aerial is parallel to a telephone line, and a loud buzzing sound may sometimes be heard, caused by the bell-ringing apparatus used in telephone lines. When aerials are parallel to streetcar lines, crackling noises will be heard when the street cars go past. It is also advisable to avoid erecting an aerial parallel to other aerials, for if any of such parallel aerials are used with regenerative receivers, considerable trouble may be experienced from reradiation. Interference from parallel power lines, telephone lines, street-car lines, etc., is less noticeable when the aerial is quite a distance away from them, but in some locations proximity to these lines is unavoidable. The best remedy for this trouble is to erect an aerial at right angles to the line causing the trouble. or to use an underground antenna.

BROADCASTING RELAY STATIONS

A List of the Short Wave Transmitters

Location of Transmitter	Call Signal	Frequency in Kilocycles (Meters in Parenthesis)	Power (Watts in Antenna)	Licensee and Address
California Sacramento	W6XAF	2,938 (112.1), 5,870 (51.11)	500	State Dept. of Agri- culture (Calif.)
Colorado Denver	W9XA	830 (361)	12,500	General Electric Co.
Illinois Addison Chicago	W9XAQ W9XAA	6,040 (49.67) 6,080 (49.34), 11,840 (25.34), 17,780 (16.873)	1,000 500	Chicago Daily News Chicago Fed. of Labor
Downers Grove	W9XF	6,020 (49.83), 11,800 (25.42), 21,500 (13.953)	5,000	Gt. Lakes Radio Bdct. Co., 72 W.Adams St.,
Iowa Council Bluffs	W9XU	6,060 (49.5)	500	Chicago, Ill. Mona Motor Oil Co.
Massachusetts East Springfield	W1XAZ	9,570 (31.35), 2,398 (125.1)	10,000	West'g'e Elec&Mfg.Co.
New Jersey Bound Brook Coytesville	W3XAL W2XAL	6,100 (49.18) 6,040 (49.67), 11,800 (25.42), 15,250 (19.672), 21,460 (13.979)	20,000 500	Nat'l Broadcasting Co Aviation Radio Sta.
Kearny	W2XCX	6,080 (49.34)	500	L. Bamberger & Co.
New York (Portable) South Schenectady South Schenectady South Schenectady	W2XBR W2XDA W2XAD W2XAF	1,544 (194.50) 15,840 (19.557) 9,530 (31.48)	20,000 1,000 50 25,000 40,000 200,000	Nat'l Broadcasting Co. Atlantic Bdct. Corp. Baruchrome Corp. Atlantic Bdct. Co. Gen. Electric Co. Gen. Electric Co. Gen. Electric Co.
Ohio Mason	W8XAL	6,060 (49.5)	250	Crosley Radio Corp., 1325 Arlington St.,
Pennsylvania East Pittsburgh	w8XK	6,140 (48.86), 9,570 (31.35), 11,880 (25.25), 15,210 (19.724), 17,780	40,000	Cincinnati, Ohio Westinghouse Elec. & Mig. Co.
Philadelphia	W3XAU	(16.873), 21,540 (13.928) 6,060 (49.5), 9,590 (31.28)	500	Universal Brdc. Co., 1940 Market St.
Canada Middlechurch, Man	CJRX	11,720 (25.6)	2000	James Richardson & Sons, Ltd.

INSURE YOUR RADIO ENJOYMENT SEND THIS BLANK TODAY

The Radex Pr	ess.	
1367 East Six	th Street,	
Cleveland, Oh	iio. find \$ for which send me postpaid my choice of your off	ers as
checked belov	and \$ for which send me postpard my entered at	
Checked Delov	Map of North America	25c
One Radio	of the next RADEX	25c
☐ One copy	cription, next five issues of RADEX	\$1.00
☐ Trial subse	subscription to RADEX, 10 issues, and Radio Map free	1.75
☐ Two subsc	riptions to RADEX with one leatherette cover and Radio Map, both freee Cover	3.50 .50
☐ Copy	"Radio Trouble Shooting," by E. R. Haan	3.00
	Write Name Plainly	
	Street and Number	
	City and State	
47	No extra charge outside the United States	

KEY	TO	CHAIN	STA	TI	ON	IS
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N — National	KEY	TO CHAIN	STATIONS	C — Columb
CFCF 1030 N	KPRC 920 N	WCAU 1170 C	WHAS 820 N	WNAC 1230 C
CFRB 960 C	KRLD 1040 C	WCCO 810 C	WHEC 1440 C	WNAX 570 C
CKAC 730 C	KSCJ 1330 C	WCFL 970 N	WHK 1390 C	WOAI 1190 N
CKGW 690 N	KSD 550 N	WCKY 1490 N	WHO 1000 N-	WOC 1000 N
XDKA 980 N	KSL 1130 N	WCSH 940 N	WHP 1430 C	WORC 1200 C
DYL 1290 C	KSTP 1460 N	WDAE 1220 C	WIBO	WOW 590 N
ECA 1430 N	KTAR 620 N	WDAF 610 N	WIBW 580 C	wowo
FAB 770 N	KTHS 1040 N	WDAY 940 C	WIOD 1300 N———	WPG 1100 C
770 N	KTRH 1120 C	WDBJ 930 C	WISN 1120 C	WPTF 680 N
FH 1300 C———	KTSA 1290 C	WDBO 1120 C	WJAR 890 N	WQAM 560 C
640 N	KVI 760 C	WDOD 1280 C	WJAS 1290 C	WRC 950 N
FJF 1480 C	KVOO 1140 N	WDRC 1330 C	WJAX 900 N	WREC 600 C
XFKX 1020 N	KWK 1350 N	WDSU 1250 C	WJDX 1270 N	WREN 1220 N
1340 C	KYW 1020 N-	WEAF 660 N	WJJD 1130 C	WRR 1280 C
KFRC 610 C	WABC 860 C	WEAN 780 C	WJR 750 N	WRVA 1110 N
KFSD 600 N	WACO 1240 C	WEBC 1290 N-	WJZ 760 N	WSAI 1330 N
GO 790 N———	WADC 1320 C	WEEI 590 N	WKBN 570 C	WSB 740 N
GW 620 N	WAIU 640 C	WENR 870 N	WKBW 1480 C	WSM 650 N—
HJ 900 C	WAPI 1140 N	WFAA 800 N	WKRC 550 C	WSMB 1320 N
THQ 590 N	WBAL 1060 N	WFAN 610 C	WKY 900 N	WSPD 1340 C
LRA 1390 C	WBAP 800 N	WFBL 1360 C	WLAC 1470 C	WSUN 620 N
LZ 560 C	WBBM 770 C	WFBM 1230 C	WLBW 1260 C	WTAG 580 N-
MBC 950 C	WBCM 1410 C	WFI 560 N	WLBZ 620 C	WTAM 1070 N
MOX 1090 C	WBEN 900 N	WFLA 620 N-	WLIT 560 N	WTAQ 1330 C
OA 830 N	WBRC 930 C	WGAR 1450 N—	WLS 870 N	WTAR 780 C
OIL 1260 C	WBT 1080 C	WGN 720 N-	WLW 700 N-	WTIC 1060 N
OIN 940 C	WBZ-A 990 N	WGR 550 C	WMAL 630 C	620 N————————————————————————————————————
OL 1270 C	WCAE 1220 N	WGST 890 C	WMAQ 670 C	1260 C——— WWJ
OMO 920 N	WCAH 1430 C	WGY 790 N-	WMC 780 N	920 N-WWNC
920 N——— CPO 680 N———	WCAO 600 C	WHAM 1150 N	WMT 600 C	570 C
40014		113014	000 0	1240 0

WHAT'S ON THE AIR TONIGHT?

A WEEKLY CALENDAR

Leading Features of the Network Program

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

Programs of the National Broadcasting Company begin with WEAF and WJZ; those of the Columbia Broadcasting System with WABC.

reafter

These	progr	ams a	re cor	rect to	date bu	t are subje	ct to c	hange	daily	therea	fter
Daily (and S	unday)	WKRC WLAC	WAIU WBRC	wwnc	WXYZ	WBCM	WDOD
6:45-8:00 To	wer Heal	th Exerci	ses			2:30-3:00 Am	erican S	chool of t	he Air		
		WFI	WGY	WCAE	WRC	WARC	WFRI.	WKRW	WEAN	WNAC	WCATI
WBEN				" 0112	11 200	WJAS	WIDW	WMAL	WCAO	WTAD	WDBI
8:00-8:15 Ge		lann 4	Onabas I	Faula Diad	_	WADC	WHE	MKDC	WCAO WWNC	WCGT	WXYZ
WEAR	WIAD	WEEL	WTAC	MICON	wei	WADO	WILL	WEEC	WLAC	MODI	WAIL
WEAR	WJAR	WOAD	WIAG	WCSH WWJ	WOAT						WDSU
WRC	WGY	WCAE	WIAM	WWJ	WSAI	wowo				KMOX	
	WRVA	WPIF	WJAA	WIOD	WFLA	KOIL	KFJF	KRLD		KLZ	$\mathbf{K}\mathbf{D}\mathbf{Y}\mathbf{L}$
WSUN						KVI	KOL		KOIN	KHJ	KFRC
8:15-8:30 M	orning De	votiona				3:00-3:30 Co	lumbia S	alon Orci	nestra		
WEAF	WRC	WCAE	WGY	WHAS		WABC	WHEC	WLBZ	WEAN	WNAC	WORC
WFI	WCSH	WJAR	WWJ	WPTF	WIOD	WPG	WHP	WLBW	WEAN WMAL	WCAO	WTAR
WAPI	WFLA	WSUN	WTAG	WGN	WJAX	WDBJ	WHK	WKRC	WAIII	WWNC	WXYZ
	WRVA		WSMB	WFI		WBCM	WSPD	WDOD	WREC	WLAC	
8:30-9:00 Cl						KSCJ	WMT	KMBC	WDAY	KOIL	WIBW
WEAF	WEEL	WCKY	WRC	WCSH	WW.J	KFJF	KRID	KTRH	KI.Z	CFRB	
WHO	WOC	WDAF	WAPI	KPRC	WFI	5:00-5:30 Th				OFILE	No.
WSB		WJAX	WPTF	WTAG	WOAI	WEAF		KSD	WTAG	TITCLE	WHAS
WDEN	WRVA	CKCW	WIOD	WHAS	WFLA				WIAG	MOM	WIAS
WOLN	WILVA	CKGW	MIOD	WIAD	WCV	WKY	KPRC				
	WTAM		WIDY	WJAR	WGI	6:05-6:30 Bla	ck and (iold Koor	n Orchea		
wow	WCAE							WCSH		WJAR	WBEN
9:00-9:15 So	mething	or Every	one			6:45-7:00 Un	cle Abe i	and David	d		
WABC	WHEC	WPG	WCAU	WHP	WJAS	WEAF WTMJ	WEEI	WJAR	WCSH	WFI	WRC
WDBJ	WWNC	$\mathbf{W}\mathbf{X}\mathbf{Y}\mathbf{Z}$	WBCM	WDOD	WREC	WTMJ	WSM		WCAE	WGY	WTAG
WLAC	WBRC	KSCJ	\mathbf{WMT}	KMOX	KMBC	WTAM	wwi	WSAI	KSD	WOC	WHO
KOIL	KFH	KFJF	KTRH			WOW	WDAF		WAPI	WSMB	
9:15-9:45 Ca				01112				W DD	MALL	14 DIVID	WIDA
	WJAR		WTAG	WCSH	WRC	WENR					
WDAR	WBEN	WCAE	WHO	WTAM	WICAT	6:45-7:00 Lit	erary Di	geat 1 opi	C8	TTDAT	777377.4
	MDEM	WOME	WHO	MINI	WILC	WJZ	WBZ_	WBZA	WHAM	WBAL	KDKA
KSD	wow	WOC	WWJ	CKGW	(WLS on		WPTF	WJAX	WIOD	WLW	WFLA
9:30)						WSUN					
9:45-10:00 A WEAF	1. & P. Pr	ogram				7:00-7:15 An	108 'n' A	ndy			
WEAF	WJAR	WTAG	WCSH	WRC	WGY	WJZ	WHAM	KDKA	wbz	WBZA	WRC
	WTAM	WWJ	WOC	KSD	WНО	CKGW	WRVA	WPTF	WJAX	WIOD	WCKY
WDAF	WTMJ	WEBC		WPTF		WFLA	WSUN	WLW	WJR	WGAR	
WFLA	WSUN	WHAS	WSM	WMC	WSB	7:30-7:45 Ph					
WAPI	WSMB	WIDX		WBAP		WJZ	WBZ	WBZA	WHAM	KDKY	WDEX
WOAI	WKY	WBEN	WOW	WFI	KSTP		WDL	WEBC	WHAM		
WIBO	11 17 1	" DEL	" 0 "	****	11011	KWK	WIMJ			KSL	KGO_
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11:15-11:30	VEGIO LIO	asenoid :	TURUMULE	TOTAL TOTAL	WDA			WSMB		WPTF	WJAX
	WJAR	WIAG			WRC	WIOD	WFLA	WHAS	WSM	WMC	WJDX
WHAS	WSM	WSB	WCAE	WWJ	WSAI	KTHS	KPRC	WOAI			
KFKX	WTAM	KSD	WTMJ	KSTP	WEBC	8:00-8:15 Lit			cs.		
WAPI		WOAI		KVOO	KPRC	WFRI.	WGR	WJAS	WADC	WHK	WGST
WKY	WEEI	WGY	WMC	WBEN		WYV7	WSPD	WREC	WBRC		WFBM
12:00-12:30			d His Or	chestra		WGL	WMAG	WCCC	WMOX	KMBC	KOIL
WARC	WHEC	WLBZ	WORC	WPG	WCAU		WDD	KTSA	11 111 021	IIIIDO	HOLL
WHP	WJAS	WLBW	WMAL	WCAO		KFJF 11:00-11:15	WRR	T IOA			
WDBJ			WAIU			11:00-11:19	Amos n	Andy	WDAR	T7/T1 (T	TOTTAG
MDEC	WLAC			WMT	KMBC	WMAQ	WREN	KWK	WDAF	WTMJ	
WILL	KOIL	WIBW	KEIF	KLZ	KMDO	WSM_	WSB	WKY	WENR	KSTP	WSMB
WDAI	, 404		Krjr	KLZ		WJDX	KTHS	KPRC	WEBC	WOAL	WMC
12:30-1:00 C	olumbu	Kevue	WDG	777.014.77	WIID	KOA	KFAB	WBAP			
WABC	WLBZ	WORC	WPG	WCAU	WHP				_		
WJAS	WLBW	WMAL	WCAO	WTAR	WXYZ			Suno	łov		
WBCM	WDOD	WREC	WLAC	WBRC	KSCJ						
WMT	KMBC	WDAY	WIBW	WCAU WTAR WBRC KFJF	KLZ	1:00-2:00 Na	tional O	ratorio So	ciety		
12:30-1:30 N	lational F	arm and	Home H	our		WEAF	WJAR		WRC	WGY	WCAE
W 17.	WHAM	WJR	KSTP	WRVA	WHAS	WTAM	WWJ	KSD	wow	WOC	WHO
WREN	WFAA	WEBC	WIOD	WAPI	WOW	WDAF	CKGW	WTMJ	KSTP	WEBC	
WMC	WSB	WCAP	KVOO		WOAI	KPO	KOA	KGW	KFSD	комо	
	WHO	MUNIT	WIDY	WBAL		WBEN	KGO	CFCF	111 010	7701110	ALUA
WRC			WBZA		KTHS	1:30-2:00 Co					
KWK	KOA	WBZ	WDAA	WOO		1:30-2:00 C0	WILL O	TAME TAME	WHD	WMAT	WOAG
	WSUN	WJAA	KFAB	KPRC	KDKA	WABC WTAR	WILL	WPG	WHP WWNC	MMAL	WDON
WLW	KFKX					WTAR	M DR1	WALU	WWNC	WAYZ	WBCM
1:30-2:00 Ar	nbassado:	Hotel C	rchostra			WDOD	WKEC	WLAC	WBRC KMBC	MRRW	WCCO
WABC	WHEC	WLBZ	WEAN	WPG	WFAN	KSCJ	WMT	KMOX	KMBC	WDAY	KOIL
WIAS	WIRW	WMAT.	WCAO	WTAR	WDRJ	WIRW	KEJE	KTSA	KLZ.		

9.00 9.30 1:1		· 1	M			7.20	e.na w	:Iliama O	lo-matica.			
2:00-2:30 Lil WJZ WSB	WJR WJDX	ongress I KWK WGN	KSTP WREN	WRVA	WIOD	,	WJZ WREN	illiams O WBZ KDKA	WBZA WGN	WHAM WJR	KWK	WLW
2:00-3:00 Ca	thedral H	our				8:00-	8:15 Er	nna Jettic	k Melodi	es		
WABC	WHEC WCAU	WLBZ	WEAN	WNAC	WORC		WJZ	WBZ	WBZA	WHAM	KWK	KYW
WPG	WCAU	WHP	WMAL	WCAO	WTAR	,	WKY WHAS	WJR	WREN	WFAA	KPRC	WOAI
WDBJ	WKKC	WWNC	WAYZ	WBCM	M DOD	-	W II AO	MEND	WIM	KTHS	KDKA WSMB	WMC
WREC KSCJ	WLAC WMT	KMRC	WDAV	KOII.	WBBM WIBW	- 1	KOA KFI	WENR KGW	KSL	KHO	WLW	WCKY
KFH	KFJF	KRLD	KTRH	KTSA	KLZ	1	WSB	WPTF	WRVA	KHQ WFLA	WSUN	KFAB
CFRB							KFSD	KTAR	winv	1ZDO	KVOO	KHQ
2:30-3:00 NI WEAF	BC Artists	Program	1			8:00-	8:15 "I	Devils, Dr WFBL WCAU	rugs and	Doctors"	TOTAL A N.T.	WDDA
WEAF	wow	WWJ	KSD	WDAF	KOA	,	WNAC	WCVII	WIAS	WMAL	WEAN	WADC
WGY		.1.0.0				1	WHK	WKRC WBRC WCCO WRR	WGST	WXYZ		WREC
3:00-4:00 Na	tional to	uth Conto	erence	WREN	KFAR	1	WLAC	WBRC	WDSU	WISN	wowo	WFBM
WRVA	WBAL WJAX	WIOD	KVOO	WFAA	WOAI	,	WMAQ	wcco	KSCJ	KMOX	KMBC	KOIL
WFLA	WSUN WEBC KOMO	KGW	WPTF	KGO	KOA WKY WGAR		KUI MIRM	WKK	KIDA	KLZ KHJ	KDYL KFRC	KVI
KSTP	WEBC	WMC		KPRC	WKY	8:00.	8:30 M	aior Row	es' Famil	TIL	KrkC	
KPO WTMJ	KOMO	KHQ	WSB	WAPI	WGAR		WEAF	KFPY ajor Bow WSMB	KSTP	WCSH	WDAF	WIOD
3:00-5:00 Ne		L:IL.um.	nia Auak							wĸv	WJAR	WCAE
WARC	WHEC	WLBZ	WEAN	WNAC	WORC		WRC	WGY WFLA	WWJ WSUN	WSAI WTAG	KSD	WFJC
WCAU	WHP	WJAS	WLBW	WMAL	WCAO		WOW	WHO	WTAM	WIAG	MLD	WEBC
WTAR	WHP WDBJ	WKRC	WAIU	WWNC	WXYZ			olliera Ra	dio Hour			
WBCM	WSPD	WDOD	WREC	WLAC	WBRC	,	W.IZ	WBZ KYW	WBZA	WHAM	KDKA	WJR
WEBM	WMAQ	MCCO	WIRW	KEH	KMOX KFJF		WLW	KYW	KWK	WREN	KOA	KSL
KRLD	WSPD WMAQ WDAY KTRH	KLZ	KFRC	111 11	MIUI	0.20	KHQ	KOMO	KFI CL	KGW	KPO	
4:00-5:00 D	S Park	es Cedmi	n			9:30	WEAR	W.JAR	WTAG	WCSH	WRC	WGY
4:00-5:00 Dr WEAF	WEEI	WJAR	WCSH	WTAG	KOA		WCAE	WJAR WWJ	WSAI	WCSH KSD	WOW	WIOD
wow	WKY	WOAI	WSAI	WJAX	WHAS		WIBO -	KSTP	WHO	woc	WHAS	WLIT
WJDX	KVOO	KPRC	WEBC	WDAF	WWJ		WEBC	WMC	WSB	WSMB	WKY	KTHS
WFLA	WSUN	KHQ WFJC	WHO	WOC	KGO WDTF		KPRC	WOAI WSUN	WTMJ	WTAM	KV00	WIOD WBEN
KOMO WMC	WCAE WGY	WSM	KTHS	WRAP	WPTF WSB	8 - 45.	M T OO∙P.	he Gauch	14 DVL	WIIC	MVOO	WDEN
WSMB	WAPI	WBEN	WRVA	WIOD	1122		WABC	WEAN	WDRC	WNAC	WORC	WHP
4:15-4:45 Ca	nadian P	acific Mu	sical Cru	saders			WJAS	WEAN WLBW WKBN	WMAL	WCAO	WTAR	WDBJ
WJZ	WBAL	WHAM	KDKA KFAB	WJR	WLW		WADC	WKBN	WBT	WXYZ	WBCM	WSPD
KYW	WGAR	WREN	KFAB	WBZ	WBZA		WKEC	KOIL	WFBM KFJF	KTRH	KMOX	KLKA
5:00-5:30 Re	W GAR	d Grav R	house				KOL	KFPY				KDD
WABC	WFBL	WGR	WEAN	WDRC	WNAC WXYZ WRR	9:00	9:15 "	Our Gove	rnment,"	David L	wrence	
WCAU	WJAS	WMAL	WADC	WKRC	WXYZ		WEAF	WTAG	WCSH	WEBC	WGY	WHAS
WSPD	wowo	WMAQ	KOIL	KRLD	WRR		KSD WSM	WEAA	WOW	WFJC WOAI	WSMR	WMC WJDX
5:00-6:00 Da	rvev Hou	r			WYD G		WIOD	WFLA	WSUN	WOC	WHO	WRC
WEAF	WJAR WCAE	WTAG	WCSH	WSAI	WRC		WWJ	KVOO	WLIT	WBEN	WJAR	
WGY WOC	WILL	WOW	WINDAR	CKGW	WBEN	9:00	-9:30 A	rabesque	— Deser	t Play	WX 1.0	TTO DO
WEEI 5:00-6:00 No WJZ KSTP	ŴŴĴ		11 2	OZZG.	WENR WBEN		WABU	WGR	WEAN WJAS	WDRC	WMAL	WORC
5:00-6:00 Na	tional Ve	spera					WADC	WKBN	WBT	WDAE	WXYZ	WBCM
WJZ	WBAL	WHAM	KWK	WREN	WCKY		WSPD	WKBN WREC KMBC	WISN	wowo	WCCO	KSCJ
KSTP	KVOO	MIOD	WFLA	WSUN	WJDX		WSPD WMT	KMBC	KLRA	WDAY	WCCO WNAX	KOIL
WPTF KTAR	KG0	KGW	KHQ	WSM	KOA WKY		MIRM	KFJF	KRLD	KTRH	KTSA	KLZ
WSB	WOAI	WAPI	WSMB	WBZ	WBZA	9.15	NOL -10:15	Arrry	ant Hou			
WGAR	(KFAB	on 5:15)	(WIBO	on 5:30)		3.15	WEAF	KFPY Atwater K WEEI	WRC	WFI	WGY	WCAE
5:30-6:00 S	weetheart	s of the A	lir	WDDA			WTAM	L W W J	WSAL	KSD	WOW	WSM
WABC	WERT	WKBW	WEAN	WADC	WNAC WKRC		WFAA	KOA	WOAI	WSMB	KFI WKY	KGW
WXYZ	WSPD	WOWO	WBBM	KMBC	KOIL		KOMO WGN	WSB	KHQ WOC	KPRC WHO	WMC	WHAS WDAF
6:00-7:00 Ca							KSI.	CKGW	WAPI	WREN	KSTP	
WEAF	WEEI	WJAR	WTAG	WCSH WKY	WRC	9:30	-10:00	Graham-I WFBL WJAS	aige Hou	ır		
WGY	WWJ	WEBC	WIOD	WKY KSD	WRC WJDX KGW		WABC	WFBL	WKBW	WEAN	WDRC	WNAC
KGO	KSTP	WSMB KTAR	KOMO WFJC	WOC	WHO		WUAU	WJAS WBT	WMAL	WCAO WTOC	WADC	WDBO
WDAE	KECA WJAX	WFLA	WSUN	WHAS			WDAE	WXYZ	WSPD	WREC	WDSU	WOWO
WSB	WBAP	KPRC	WOAI	WRVA			WBBM	WXYZ WCCO KTRH	KMOX	KMBC	KOIL	KFJF
KVOO	WSAI	WSM	WFI	WIBO.	WLIT		KRLD	KTRH	KTSA	KLZ	KDYL	KOL
7:00-7:30 lo	dent Big	Brother (Club	WOOT	WDC		KFPY	KOIN	KHJ	KFRC		
WEAF	WEEL	WJAR WSAI	WIAG	WCSH KSD	WCC	10:0	₩.10:30 Ω.10:30	Royal's !	roet of th	WEAN	WNAC	WCAU
WCAE WHO	$\mathbf{w} \cap \mathbf{w}$	WERC	WTMJ	WREN	WLIT		WJAS	WIRW	WMAI	WCAO	WADC	WHK
7.20_0.00 D	CA Vistor	Program	11 7 7170	,,,	.,		WKRC	WFBL WLBW WGST	WXYZ	WSPD	WLAC	wowo
7:30-8:00 R WEAF	WIAR	WTAG	WCSH	wwj	KPRC		MRRW	i kmox	KMBC	KOIL	KLZ	KDYL
WBEN	** 100	11 (1)	TT CILL		WSAI		KOL	KFPY	KOIN	\mathbf{KHJ}	KFRC	
KYW	WRVA	WIOD	WFLA	WSUN	WHAS	10:1	5-10:30 WJZ	Pennzoil	Pete	KDE.	W ID	WLW
KSD	WDAF	WTMJ KTHS	WEBC KVOO	WMC WOAI	WSB WKY		WJZ KWK	WBZ WREN	WBZA WRVA	KDKA WJAX	WIOD	WAPI
WSMB KOA	WJDX KSL	KGO	KFI	KTAR	KFSD		WSB	WMC	WHAS	WFLA	WSUN	WSMB
KGW	KOMO	KHQ					WJDX	WOAI	WKY	WHAM		
		_			го							

WIBW KFJF KTSA KLZ

WJAS WLBW WMAL WCAO WTAR WDBJ

WEAF WEEL	ncorporate	WTAG	WCSH	wet	KVOO WEBC	KECA WSMB	KHQ	WFLA KTAR	WSUN	WHAS KSL
WEAF WELL	WREN	WCAE	WTAM	WTIC	WMC	HOMD	II.G II	KIMI	KIND	1102
WOW KOA				11 110	8:15-8:30 Fi	fteen Mir	utes in N	lation's C	apital	
10:30-11:00 Kaffee	Hag Slumb	er Music	:		WEAF	WJAR	WTAG	WRC	KSD	WCAE
10:30-11:00 Kaffee WJZ WBZ WLW KWK	WBZA	WHAM	KDKA	WJR	8:15-8:30 Fi WEAF KFSD WOW KGO WSUN	KOMO	WWJ	WSAI	WOC	WHO
WLW KWK	WREN				wow	KYW	WDAF	WREN	MIDX	WSMB
10:30-11:00 Around	the Samov	ar	WODG	WDC	KGO	KVUU	WEV	WHAC	KHO	WILK
WJZ WBZ WLW KWK 10:30-11:00 Around WABC WKB WFAN WJAS WDBJ WKB 10:45-11:15 Sunday WEAF WEE! WDAF CKGV WFJC WWJ WJAX WIOL	W WEAN	WNAC	WORC	WTAD	8.15_8.30 P.	rhand D	W IL I	и пио	MIN	HULL
WIAN WJAS	M CTM	A MILYT	WOAU	WIAN	WARC	WFRI	WKRW	WEAN	WDRC	WNAC
10-45-11-15 Sunday	at Seth P	rker's			WCAU	WJAS	WMAL	WCAO	WADC	WHK
WEAF WEEL	WCSH	WRC	WGY	WOW	WKRC	WXYZ	WSPD	WISN	WFBM	wcco
WDAF CKGV	v wTMJ	KSTP	WCAE	WTAM	KMOX	KMBC	KOIL			
WFJC WWJ	KYW	wow	WHO	WEBC	8:30-9:00 A.	& P. Gy	sies			
WJAX WIOL	WHAS	WSM	WJDX	KPRC	WEAF	WEEI	WTAG	WJAR	WTIC	WCSH
WKY KOA	KGO	KGW	WSB	KIAR	WLII	WILC	WGI	WORE	** *** **	WOAL
WDBJ WKB WEAF WEEJ WDAF CKGV WFJC WWJ WJAX WIOL WKY KOA KFSD WRV.	WBEN	WLIT			WGN	KSD	WOC	WDAF	WIAM	WOW
1:00-12:00 Back H	ome Hour	WDC	WHD	WM AT.	WCAU WKRC KMOX 8:30-9:00 A. WEAF WLIT WGN WHO 8:30-9:00 Lu	MDEN	valty Orc	heetra		
WTAD WILL	WYVZ	WECM	WSPD	WDOD	W.IZ	WRZ	WRZA	WJR	KDKA	WLW
WREC WLAC	WFRM	wcco	WMT	WDAY	ĸyw	KWK	WREN	KFAB	CKGW	
WNAX WIBV	KFH	KFJF	KRLD	KTRH	8:30-9:00 Sa	vino Ton	e Picture	8		
KFSD WRV. (1:00-12:00 Back H WABC WHEE WTAR WDB. WREC WLAC WNAX KTSA (1:30-12:00 Russian WEAF WRC WOW WSB				_	WABC	WGR	WEAN	WDRC	WNAC	WORC
WEAF WRC WOW WSB	Cathedra	Choir		****	WPG	WFAN	WJAS	WLBW	WMAL	WUAO
WEAF WRC	WFJC	WWJ	WBAP	KOA	WTAR	WDBJ	WADC	WHK	WALU	MDDC
wow wsb	WGY	WTAM	KSTP	WEBC	WDAE	WAYZ	WBCM	WMT	KMBC	KLRA
WIOD WHA	WREN				WLIM	WINAY	KOIL	WIRW	KEIF	KRLD
	3.7	1			KLDH	KTSA	KFPV	11 ID 11	ILLOI	
	Mon	day			WPG WTAR WDAE WFBM WDAY KTRH 9:00-9:30 M	autad Ore	hestra			
3:30-4:00 Sixteen S	ingers				9:00-9:30 M WJZ	wBZ WBZ KYW KOA KOMO	WBZA	WHAM	KDKA	WJR
3:30-4:00 Sixteen S WEAF WRC	WOC		KSD	KSTP	KWK	KYW	KSTP	WEBC	KTHS	WKY
WEAM WAY	WOC				WOAL	KOA	KSL	KGO	KECA:	KGW
3:30-4:00 Chicago S	erenade				\mathbf{KHQ}	KOMO	KVOO	WLW	WFAA	KPRC
3:30-4:00 Chicago S WJZ WHA WFLA WSU	M WJR	WLW	WLS	KDKA	WGAR					
WFLA WSUI	WMC	WAPI	WJAX	WGAR	9:00-9:30 Th	e Three	Bakers	WEDW	WI DO	WEAR
L-NN-4-3N Hance ()r	cneatra	KTAD	KOA	KGO	WABC	WFBL	WHEC	MKRM	WLBZ	WEAN
KWK KFSD	MHYM	WSM	WSB	WSMR	WDRC	WILDW	WMAT	WCAO	WTAD	WDBI
WMC WBZ	KSTP WHAM WBZA	WGAR	KYW	HUMD	MADO	WHK	WKRC	WWNC	WBT	WGST
1:15-4:30 ILS. Arm	Band	" dan	22 2 11		WTOC	WOAM	WDBO	WDAE	WXYZ	WBCM
WABC WLBZ	WEAN	WNAC	WORC	WPG	WSPD	WĎOD	WREC	WLAC	WBRC	WDSU
WCAU WLBY	V WMAL	WCAO	WTAR	WDBJ	WISN	wowo	WFBM	WMAQ	WCCO	KSCJ
WAIU WWN	C WXYZ	WBCM	WSPD	WDOD	WMT	KMOX	KMBC	KLRA	WDAY	WNAX
WREC WLAC	WBBM	WCCO	KSCJ	WMT	KOIL	WIBW	KFH	KFJF	WRR	KTRH
KMOX KMB	WDAY	KOIL	KFJF	KKLD	KTSA	KLZ	KDYL	KOL	KFPY	KOIN
WMC WBZ 1:15-4:30 U.S. Arm WABC WLB2 WCAU WLB2 WAIU WWN WREC WLAC KMOX KMB6 KTRH KLZ	KOL	MFRC	OFKB		WOAI KHQ WGAR 9:00-9:30 TH WABC WDRC WJAS WADC WTOC WSPD WISN WMT KOIL KTSA KHJ 9:30-10:00 C	KFRC				
4:30-5:00 Wardman WABC WLBZ WFAN WHP WDBJ WKR WSPD WDO KSCJ KMO KFJF KRLI	WEAN	WNAC	WORC	WPG	9:30-10:00 C	hesebrou	gh Keal l	WHAL	KDK	wiw
WEAN WHD	WIRW	WMAT.	WCAO	WTAR	WJZ	WDZ	CKCW	WID	WGAP	WIM
WDBI WKR	O WAIU	WWNC	WXYZ	WBCM	9:30-10:00 G WEAF WRC KSD WTMJ WJAX KGO	AIW	OLUW	nily Dart.	, oan	
WSPD WDO	WREC	WLAC	WBRC	WCCO	9:30-10:00 C	WEET	WIAP	WCSH	WTAG	WLIT
KSCJ KMO	K KMBC	WDAY	KOIL	WIBW	WRC	WGY	WCAE	WTAM	wwJ	WGN
KFJF KRLI	KTRH	KTSA	KLZ	KOL	KSD	WŎĈ	wow	WSAI	WDAF	KSTP
KFRC CFRB					WTMJ	WHAS	WSM	WMC	WSB	KPRC
5:00-6:30 Gordon K	ibbler's Or	chestra	WIID	WIDW	WJAX	WFAA	WOAI	WKY	KOA	KSL
WABC WEBI	WDKC	WIAN	WADO	WKBN	KGO	KGW	KFI	KOMO	KHQ	WTIC
WMAL WUAG	WECM	MBEC	WIAC	WRRC	WHO	WBEN	WCAE			
WISN WER	I WGI.	WBBM	wcco	KSCJ	9:30-10:00 B	ourjois	WIND	TITE 4 37	WALL	WCLIT
WFAN WHF WSPD WDD KSCJ KMO KSFJF KRLL 6:00-6:30 Gordon K WABC WFBI WMAL WCA WBT WXY WISN WFBI KLRA WDA KVI KVI 5:15-6:45 Mormon WJZ WBAI KGO KOM KTAR KPO WSMB 1:00-7:15 Current E WDBJ WKR WBRC KSCJ WHEC WLB WHEC WLB KTAR KOL KTRH KOL 1:15-7:30 Tastyeast WJZ WCK KOKA WRC	KEJE	KRLD	KTRH	KLZ	WABC	WFBL	WKBW	WEAN	WNAC	WUAU
KVI KOL	KFPY	KHJ	KFRC	CFRB	WJAS	MTRM	W MAL	WCAU	WADC	WEDM
:15-6:45 Mormon	Fabernacle	Choir			WARU	KMDU MDI	KOII.	word	110110	17 DDM
WJZ WBAI	WSM	KWK	KOA	KSL	10.00 10.20	Robert P.	TOIL	tala D	ram	
KGO KOM	KFAB	KGW	CKGW	KSTP	10:00-10:30	WERT.	WKRW	WEAN	WDRC	WNAC
KTAR KPO	WHAS	WAPI	KFSD	WRC	WCAII	WIAS	WMAT.	WCAO	WADC	WHK
WSMB					WKRC	WXYZ	WSPD	wŏwo	WFBM	WMÃO
:00-7:15 Current E	vents	WYV	WROM	WDOD	WCCO	KMOX	KMBC	KOIL	KFJF	KRLD
MDRI MKK	WWNU WMT	WDAV	KOII.	WARC	KTRH KFPY 10:00-10:30 : WJZ KWK WHAS KOA	KTSA	KLZ	KDYL	KVI	KOL
WHEO WIRE	WORC	WHP	WJAS	WLBW	KFPY	KOIN	KHJ	KFRC		
WMAI. WCA	WTAR	WIRW	KFH	KFJF	10:00-10:30	Stromber	g-Carlson	Program		
KTRH KOL	KFRC				WJZ	WBZ	WBZA	WHAM	KDKA	KYW
7:15-7:30 Tastyeast WJZ WCK KDKA WRC	Jesters				KWK	WREN	WEBC	WRVA	WJAX	MIOD
WJZ WCK	WHAM	WBZ	WBZA	WREN	WHAS	WSM	WMC	WSB	WSMB	WOAI
KDKA WRC	WGAR				KOA	APRU	MIDA	TILI	WOLY	WJR
7:45-8:30 Roxy's G	ng Program	m	TT(0) -	TERAD	KHQ	WSM KPRC KOMO KFSD	WADI	WKV	WGAD	MOK
WJZ WHA	M KWK	WSB	WSM	KFAB						
7:45-8:30 Roxy's Ga WJZ WHAI CKGW WIBO 3:00-8:15 "How's B	WGAR				10:00-10:30 WEAR	WIND.	WCSH See of Oue	WWI	WTAG	WEEL
5:00-8:15 "How's E	usiness!"	WDC	KSD	WCAF	WLAF	WJAR WTAM WBEN	WSAI	WRC	WGN	WOC
WEAF WJAX WWJ KOM	WJAR WSAT	WDAF	WIDX	KGO	WHO	WREN	WCAE	******	,, (11	00
WW KOM	, M DWI	II DAL	HODA	1100	,,110	" DEL	., only	•		

10:30-11:00 WJZ	Empire B	uilders				w) w(
w_{JZ}	WBZ	WBZA	WHAM	KDKA	WJR	W
WLW	KYW	<u>KWK</u>	WREN	WTMJ	WOAI KECA	WI
KSTP KGW	WEBC	KOA	KSL KTAR	KGO KFSD	WKY	8.00-8.
WBAP	KOMO KPRC	KHQ WGÁR	MIAR	KroD	WILL	8:00-8:3 WI
10:30-11:00	Willard F	Rohison a	nd his Or	chestra		KS
WEAF	W.IAR	WTAG	WRC	WCAE	WTAM	WI
WLIT	WWJ	WDAF	WMC	wsb	WJDX	W
WBEN	WGY	WOC	$\mathbf{w}\mathbf{h}\mathbf{o}$	CFCF	\mathbf{weel}	8:15-8:
10:30-11:00	Don Ama WHP	izo		*** 1 D.O	*****	8:15-8: W/ W/
WACU	WHP	WJAS	WLBW	WADC	WHK	W.I
WKRC	WCAH KSCJ	WKBN WMT	WSPD WDAY	WNAX	WBBM KOIL	W.
WCCO KLZ	KDYL	KOL	KFPY	KOIN	KHJ	w
KFRC	KNX	KOL	IXI I	110111	16110	ws
11:00-11:30	Florence	Richards	on and O	rchestra		ws wi
WEAF	WGY	WCAE	WOC	who	wow	KN
(WSAI	off 11:15) WTMJ	(WJDX WSM o	WMC	WSB on	11:15)	KI
(KSD	WTMJ	WSM o	n 11:15)			KI
11:00-11:30 WABC WORC	Morton L	Jowney -	Leon Bo	wDRC	WNAC	KH
WORC	MADG	WGR WCAU	WLBW	WCAO	WTAR	8: 30-9: W]
WDBJ	WHK	WKBN	WBT"	WXYZ	WBCM	W
WSPD	WREC	WLAC	WBRC	WISN	WFBM	w
WCCO	KSCJ	KMOX	KLRA	WDAY KLZ	\mathbf{KOIL}	ws
WIBW	KFH	\mathbf{KFJF}	KTRH	KLZ	KOL	W
KFPY	$_{ m CFRB}$					W)
11:30-12:00	Ben Ber	ie and H	is Orches	Stra Turnan	WI DW	8:45-9: W. W.
WABC	WKBW	WDRC	WORC WDBJ	WFAN	WLBW	W.
WMAL WKBN	WCAO WBT	WTAR WXYZ WISN	WECM	WADC WSPD WCCO	WHK WREC	W
WLAC	WBRC	WISN	WBCM WFBM	wcco	KSCJ	W
WLAC KLRA	WBRC WDAY	WNAX	KOIL	WIBW	KFH	K
KEIF	KTRH	KLZ	KOL	KFPY	CFRB	KI K(
11:30-12:00 WEAF	Henry B	usse and	his Orch	estra		8:45-9:
WEAF	WWJ KSTP	KSD	WOC	WHO WTAM	wow	w.
WDAF	KSTP	WEBC	KOA	WIAM	•	9:00-9:
12:00-1:00 WEAF	WDC	www.	WSM	KYW	(KSD on	W.
12:30)	(KSTP	WGY	ff 12:30)	WDA	F off 12:15	W
12:30)	(KSTP	WGY	ff 12:30)	WDAI	F off 12:15	W
12:30)	(KSTP	WGY	off 12:30)	WDAI	F off 12:15	W' Wi
12:30)	(KSTP	Tues	off 12:30) day	WDAI	F off 12:15	W W W KI
12:30)	(KSTP	Tues	off 12:30) day	WDAI	F off 12:15	W' W' W' KI KI
12:30)	(KSTP	Tues	off 12:30) day	WDAI		W' W: W: KI KY 9:00-9:
12:30) 10:15-10:30 WJZ	(KSTP	Tues	off 12:30) day ing Glass WHAM	WLW	WREN	9:00-9:
12:30) 10:15-10:30 WJZ KFKX	Through WBZ KDKA	Tues	day ing Glass WHAM CKGW	WDAI		9:00-9: W:
12:30) 10:15-10:30 WJZ KFKX KVOO	Through WBZ KDKA WOAI	Tues the Look WBZA KWK WBAP	off 12:30) day ing Glass WHAM	WLW	WREN	9:00-9: W. W. Y. 9:00-9: W. W.
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G	Through WBZ KDKA WOAI	Tues the Look WBZA KWK WBAP	day ing Glass WHAM CKGW WGAR	WLW KFAB	WREN WKY	9:00-9: W: W: K: 9:00-9: W: W: W: W: W: W:
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF KSD	Through WBZ KDKA WOAI olden Ge WEEI WFLA	Tues the Look WBZA KWK WBAP	day ing Glass WHAM CKGW	WLW	WREN WKY	9:00-9: W' 9:00-9: W' W' W' 9:30-10
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF KSD CKGW	Through WBZ KDKA WOAI olden Ge WEEI WFLA	Tues the Look WBZA KWK WBAP WTIC WSUN	day ing Glass WHAM CKGW WGAR	WLW KFAB	WREN WKY	9:00-9: W. W. 9:00-9: W. W. W. W. 9:30-16
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF KSD CKGW	Through WBZ KDKA WOAI olden Ge WEEI WFLA	Tues the Look WBZA KWK WBAP WTIC WSUN	day ing Glass WHAM CKGW WGAR WTAG KSTP	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	9:00-9: W. W. 9:00-9: W. W. W. W. 9:30-16
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:90 G WEAF KSD CKGW 4:00-4:30 III WABC	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idy	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN	ing Glass WHAM CKGW WGAR WTAG KSTP	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	9:00-9: WW WY 9:00-9: WW WW WW 9:30-16 WW WW
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 it WABC	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idyl WLBZ	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN	ing Glass WHAM CKGW WGAR WTAG KSTP	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	9:00-9: WW.WY.WY.WW.WW.WW.WW.WW.WW.WW.WW.WW.WW.W
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 it WABC	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idyl WLBZ	Tues the Look WBZA KWK WBAP "S WTIC WSUN WEAN WMAL	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	9:00-9: 9:00-9: W W W W W 9:30-16 W W W W W W
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 it WABC	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idyl WLBZ WLBW	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WWNAL	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	9:00-9: 9:00-9: W W W W 9:30-10 W W W W W W
12:30) 10:15-10:30 WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 II WABC WCAU WKRC WREC WMT KTRH	Through WBZ KDKA WOAI WEEI WFLA alian Idyl WLBZ WAIU WLAC KMOX KTSA	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WWNC WBRC KLZ	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC	WLW KFAB WTAM WOC WORC WTAR WSPD	WREN WKY WFJC WHO WPG WDBJ WDOD KSCJ	9:00-9: WW.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W
12:30) 10:15-10:30 WJZ KFKX KYOO 3:30-4:00 G WEAF KSD CKGW 4:04-4:30 It WABC WCAU WKRC WREC WR	Through WBZ KDKA WOAI olden Ge WEEI WLBZ WLBW WABZ WLBW WAIU WLAG KMOX KTSA	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WWNC KMBC KLZ abonds	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC	WLW KFAB WTAM WOC WORC WTAR WSPO WCCO KOIL CFRB	WREN WKY WFJC WHO WPG WDBJ WDOJ KSCJ KFJF	9:00-9: WW.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF CKGW 4:00-4:30 II WKAC WKAC WKAC WKAC WKAC WKTCH 4:00-5:00 P 4:00-5:00 WJZ	Through WBZ KDKA WOAI olden GE WEEL WHLAC KMOX KTSA acific Vag WHAW	Tues the Look WBZA KWK WBAP ms WTIC WSUN WEAN WMAL WWNOC WBRC KMBC KMBC KLZ abonds I WJR	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC	WLW KFAB WTAM WOC WORC WTAR WSPD WCC KOIL CFRB	WREN WKY WFJC WHO WPG WDBJ WDOD KSCJ KFJF	W'W WW KI KI 9:00-9: W W W W W W W W W W W W W W W W W W W
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF CKGW 4:00-4:30 II WKAC WKAC WKAC WKAC WKAC WKTCH 4:00-5:00 P 4:00-5:00 WJZ	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idyl WLBZ WAIU WLAC KMOX KTSA acific Vag WHAM KFAR	Tues the Look WBZA KWK WBAP ms WTIC WSUN WEAN WMAL WWNG WBRC KLZ abonds WJR	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRC	WLW KFAB WTAM WOC WORC WTAR WSPD WCCO KOIL CFRB	WREN WKY WFJC WHO WPG WDBJ WDOJ KSCJ KFJF	WW
12:30) 10:15-10:30 WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 II WKAC WREC WCAU WKRC WREC WREC WABC W	Through WBZ KDKA WOAI olden GE WEEL WFLA alian Idyl WLBZ WLBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WAPI	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WWNC KMBC KLZ abonds i WJR WREN	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC	WLW KFAB WTAM WOC WORC WTAR WSPD WCC KOIL CFRB	WREN WKY WFJC WHO WPG WDBJ WDOD KSCJ KFJF	WW
12:30) 10:15-10:30 WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 II WKAC WREC WCAU WKRC WREC WREC WABC W	Through WBZ KDKA WOAI olden GE WEEL WFLA alian Idyl WLBZ WLBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WAPI	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WWNC KMBC KLZ abonds i WJR WREN	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRC	WLW KFAB WTAM WOC WORC WTAR WSPD KOIL CFRB WLW WJAX KOA	WREN WKY WFJC WHO WPG WDBJ WDOJ KSCJ KFJF	WW
12:30) 10:15-10:30 WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 II WKAC WREC WCAU WKRC WREC WREC WABC W	Through WBZ KDKA WOAI olden GE WEEL WFLA alian Idyl WLBZ WLBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WAPI	Tues the Look WBZA KWK WBAP ms WTIC WSUN I WEAN WMAL WWNC WBRC KLZ abonds I WJR WREN WFAA	day day ing Glass WHAM CKGWW WGAR WTAG KSTP WNAC WCAO WXYZ WXYZ WXYZ WXYZ WXYZ WAYZ WGAR WRC KSTP	WLW KFAB WTAM WOC WORC WTAR WSPD KOIL CFRB WLW WJAX KOA	WREN WKY WFJC WHO WPG WDBJ WDDJ KSCJ KFJF WLS WSM KGO	W. W. W. K. I. W.
12:30) 10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF SO CKGW 4:00-4:30 III WKRC WREC WABC WKRC WREC WAT KTRH 4:00-5:00 P KWK KWK KWK KFSD 5:00-5:15 R WABC	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian idy WLBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WAPI KTAR hythm K: WHEO	Tues the Look WBZA KWK WBAP ms WTIC WSUN I WEAN WMAL WWNC WBRC KLZ abonds I WJR WREN WFAA	day day ing Glass WHAM CKGWW WGAR WTAG KSTP WNAC WCAO WXYZ WXYZ WXYZ WXYZ WXYZ WAYZ WGAR WRC KSTP	WLW KFAB WTAM WOC WORC WTAR WSPD KOIL CFRB WLW WJAX KOA	WREN WKY WFJC WHO WPG WDBJ WDOD KFJF WLS WSM KGO	WW W W W W W W W W W W W W W W W W W W
12:30) WJZ KFKX KVOO 3:30-4:90 G WEAF KSD CKGW 4:00-4:30 II WABC WCAU WKRC WREC WTT KTRH 4:00-5:00 P KWK WMC KFSD 5:00-5:15 R WABC WCAO WDOU	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian idy WLBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WAPI KTAR hythm K: WHEO	Tues the Look WBZA KWK WBAP ms WTIC WSUN I WEAN WMAL WWNC WBRC KLZ abonds I WJR WREN WFAA	day day ing Glass WHAM CKGWW WGAR WTAG KSTP WNAC WCAO WXYZ WXYZ WXYZ WXYZ WXYZ WAYZ WGAR WRC KSTP	WLW KFAB WTAM WOC WORC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA	WREN WKY WFJC WHO WPG WDBJ WDOD KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ	W. W. KI
12:30) WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 IB WKBC WCAU WKRC WKTC WKTRH 4:00-5:00 P WJZ KWK WMC KFSD 5:00-5:15 R WABC WABC	Through WBZ KDKA WOAI WOAI WEEI WFLA WHAM WAIU WLAC KMOX KTSA acific Vag WHAM KTAB WAPI KTAR bythm K WTAR	Tues the Look WBZA KWK WBAP WTIC WSUN I WEAN WMAL WWNC WBRC KMBC KLZ abonds WJR WREN WFAA	day day ing Glass WHAM CKGWW WGAR WTAG KSTP WNAC WCAO WXYZ WXYZ WXYZ WXYZ WXYZ WAYZ WGAR WRC KSTP	WLW KFAB WTAM WOC WORC WTAR WSPD KOIL CFRB WLW WJAX KOA	WREN WKY WFJC WHO WPG WDBJ WDOD KFJF WLS WSM KGO	W. W. KI
12:30) 10:15-10:30 WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW WABC WCAU WKRC WREC WREC WATL KTRH 4:00-5:00 F WMC KFSD 5:00-5:15 R WABC WOAU WMT KTSA	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idyl WLBW WAIU WLAC KMOXX KTSA acific Vag WHAM KFAB KM KFAB KM KFAB KM KFAB KM KM KKAB KM KM KKAB KM	Tues the Look WBZA WWBZA WWBZA WWSUN WEAN WWSUN WEAN WWNAL WWNOC WBRC KMBC KMBC KMBC KMBC KMBC KMBC KMBC KMB	day ing Glass WHAM WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRO KFTP WHP WWNC KFJF	WLW KFAB WTAM WOC WORC WTAR WSPD WCO KOIL CFRB WLW WJAX KOA WLBW WXYZC WXYCO KRLD	WREN WKY WFJC WHO WPG WDBJ WDOD KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ	W. W. KI
12:30) WJZ KFKX KV000 3:30-4:00 G WEAF CKGW 4:00-4:30 II WKAP WCAU WKRC WREC WMT KTRH 4:00-5:00 P WJZ KWK WMC KFSD 5:00-5:15 R WABC WCAU WKRS 7:30-7:45 P	Through WBZ KDKA WOAI olden Ge WEEI WF Ld alian it lbZ WLBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WAPI KTAR bythm K: WHEC WTAR WHEC KMBC	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WMAL WMAL WMAL WMAL WMAL WMAL WMAL	day day ing Glass WHAM CKGWW WGAR WTAG KSTP WNAC WCAO WXYZ WXYZ WXYZ WXYZ WHP WWNC WBRC KFJP	WLW KFAB WTAM WOC WORC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WCCO KRLD	WREN WKY WFJC WHO WPG WDBJ WDOJ KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH	W. W
12:30) 10:15-10:30 WJZ KFKX KYOO 3:30-4:400 G WEAF WABC WCAU WKRC WREC WATL KTRH 4:00-5:00 P WJZ KWK WMC KFSD 5:00-5:15 R WABC WADO WMT KTSA 7:30-7:45 P	Through WBZ KDKA WOAI olden Ge WEEI WFLA WIBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WAPI KTAR bythm K: WHEC KMBC WTAR OWREC KMBC	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WMAL WMAL WMAL WMAL WMAL WMAL WMAL	day day ing Glass WHAM CKGWW WGAR WTAG KSTP WNAC WCAO WXYZ WXYZ WXYZ WXYZ WHP WWNC WBRC KFJP	WLW KFAB WTAM WOC WORC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WCCO KRLD	WREN WKY WFJC WHO WPG WDBJ WDDJ KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH	W. W. KI
12:30) WJZ KFKX KV000 3:30-4:90 G WEAF KSD CKGW 4:00-4:30 II WABC WCAU WKRC WREC WMT KTRH 4:00-5:00 F KWK WMC KFSD 5:00-5:15 R WCA0 WOAU WMT KTSA 7:30-7:45 P WKBW	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idyl WLBZ WLBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WAPI KTAR hythm KE WHEC KMBC KMBC KLZ olitical Sig WTAR WLAC	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WWNC WBRC KMBC KMBC KMBC KMBC KMBC KMBC KMBC KMB	day day ing Glass WHAM CKGWW WGAR WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRC KSTP WHP WWNC WBRC KFJF WBRC KKFJF WORC WKBN WORC WKBN	WLW WTAM WOC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WCCO KRLD	WREN WKY WFJC WHO WPG WDBJ WDDJ KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH	W. W. KI
12:30) WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 II WABC WCAU WKRC WREC WMT KTRH 4:00-5:00 P WGW KFSD 5:00-5:15 R WABC WMT KTSA 7:30-7:45 P WKBW WREC KSCD	Through WBZ KDKA WOAI olden Ge WEEI WELAC WLBW WHAC KMOX KTSA acific Vagaria KFAB WHAM KFAB WHAM KFAB WHAM KFAB WHAC WHAC WHAC WUAC WUAC WUAC WUAC WUAC WUAC WUAC WU	Tues the Look WBZA WBZA WBZA WWBZN WTIC WSUN WMAL WWNC WBRC KMBC KMBC KMBC KMBC KMBC WWNAC WREN WAIU WLAC WDBJ WBAC WDAY tuation in	day ing Glass WHAM WHAM CKGW WGAR WTAG KSTP WNAC WCAY WSAP WYAY WFRC WGAR WRC KFJF WHP WWNC KFJF WSAP WWSN WISN KOIL	WLBW WLBW WCAU WCAU WCAU WCAU WCAU	WREN WKY WFJC WHO WPG WDBJ WDDJ KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH	W. W. KI
12:30) WJZ KFKX KV000 3:30-4:00 G WEAF KSD WCAU WKAP WCAU WKRC WREC WMT KTRH 4:00-5:00 P WJZ KWK WMC KFSD 5:00-5:15 R WABC WCAU WKTRH 4:01-5:00 P WJGT KTSA 5:00-7:45 P WKBV WLBW WREC KSCJ	Through WBZ KDKA WOAI olden Ge WEEI WFLA WHAU WLAC KMOX KTSA acific Vag WHAM KTAB WHAM KTAB WHAM KTAB WHAM KTAB WHAC WTAR WHOC WTAR WHOC WTAR WHOC WTAR WHOC WTAR WHOC WTAR	Tues the Look WBZA KWK WBZA KWK WBAP ms WTIC WSUN WEAN WMAL WWNC WBRC KMBC KLZ abonds I WFAN WFAA ings WFAN WAIU WLAY WAIU WHAC WDAY ituation in WAIU WHAC WDAY ituation in WAIU WHAC WDAY	day ing Glass WHAM WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZC WBBM WDAY KFRC WGAR WRC KSTP WHP WWNC WGAR WRC KSTP	WLW WTAM WOC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WCCO KRLD	WREN WKY WFJC WHO WPG WDBJ WDDJ KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH	W. W. KI
12:30) 10:15-10:30 WJZ KFKX KYOO 3:30-4:00 G WEAF KSD CKGW WABC WABC WABC WABC WABC WAT KTRH 4:00-5:00 P KWK WMC KFSD 5:00-5:15 R WABC WOAO WDOI WMT KTSA 7:30-7:45 P WKBC KSCJ KTRH 7:30-8:00 S	Through WBZ KDKA WOAI olden Ge WELI WLBZ WLBW WAIU WLAC KMOXX KTSA acific Vag WHAM KFAB WHAM KFAB WHAC WHAR WHAC WHAC WHAC WHAC WHAC WHAC WHAC WHAC	Tues the Look WBZA WWBZA WWBZA WWSUN WWSUN WWSUN WWSUN WWMAL WWNOC WBRC KMBC KMBC KMBC KMBC KMBC KMBC KMBC WWNAI WWNAI WWNAI WWAI WWAI WHAO WDAY STAN WAIU WLAC WDAY STAN WAFYA WAFY WAS WHAN WAI WHAN WHAN WAI WHAN WHAN WAI WHAN WHAN WAI WHAN WHAN WHAN WHAN WHAN WHAN WHAN WHAN	day ing Glass WHAM WHAM CKGW WGAR WTAG KSTP WNAC WXYZ WBBM WDAY KFRC WGAR WRC KSTP WHP WWNC KFJF WAShine WKBN WISN KOIL KFRC	WLW KFAB WTAM WOC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WXCO KRLD WCAU WBT WGL KFH WJAS	WREN WKY WFJC WHO WPG WDBJ WDOD KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH WHP WXYZ WMAQ KFJF	W. W. K.
12:30) WIZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 II WKAC WREC WABC WCAU WKRC WREC WMT KTRH 4:00-5:00 P WJZ KWK WMC KFSD 5:00-5:15 R WABC WABC WABC WABC WABC WABC WABC KFSD 5:00-7:45 P WKBW WREC KSCJ KTRH 7:30-8:00 S	Through WBZ KDKA WOAI olden Ge WEEI WHEI WLBW WAIU WLAC KMOX KTSA acific Vag WHAN KFAB WAPI KTAR hythm K: WHEC KMBC KMBC KMBC KMBC KMBC KMBC KMBC KMB	Tues the Look WBZA KWK WBZA KWK WBAP ms WTIC WSUN WEAN WMAL WWNC WBRC KMBC KLZ abonds I WFAN WFAA ings WFAN WAIU WLAY WAIU WHAC WDAY ituation in WAIU WHAC WDAY ituation in WAIU WHAC WDAY	day ing Glass WHAM WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZC WBBM WDAY KFRC WGAR WRC KSTP WHP WWNC WGAR WRC KSTP	WLW KFAB WTAM WOC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WXCO KRLD WCAU WBT WGL KFH WJAS	WREN WKY WFJC WHO WPG WDBJ WDDJ KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH	W. W. K.
12:30) 10:15-10:30 WJZ KFKX KYOO 3:30-4:00 G WEAF KSD CKGW WABC WABC WABC WABC WAT KTRH 4:00-5:00 P KWK WMC KFSD 5:00-5:15 R WABC WOAO WDOI WMT KTSA 7:30-7:45 P WKBC KSCJ KTRH 7:30-8:00 S	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idyl WLBZ WLBW WAIU WLAC KMOXX KTSA acife Vag WHAM KFAB WAPI KTAR Hythm K: WHEC KMBC KLZ olitical Si WTAR WAG WTAR WEEI	Tues the Look WBZA KWK WBZA KWK WBAP WSUN WSUN WSUN WWAI WWAI WWAI WWAI WWAI WHAI WHAI WLAC WDAY State on in WHAI WH	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRC KFJF WAShim WORC WKBN KOIL KFRC	WLW KFAB WTAM WOC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WXCO KRLD WCAU WBT WGL KFH WJAS	WREN WKY WFJC WHO WPG WDBJ WDOD KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH WHP WXYZ WMAQ KFJF	W. W. KI

10:30-11:00	Empire B	uilders				WJAX	KGW	комо	KHQ WIOD WSMB WPTF	KFSD WHAS	KTAR
w_{JZ}	WRZ	WBZA	WHAM	KDKA	WJR	WJAX WGAR WMC KGO 8:60-8:30 B	WGY	KOA	WIOD	WHAS	WSM
WLW KSTP	WEBC	KWK KOA	WREN KSL	WTMJ WTMJ	WOAI	W M C	KECA	WBAL	WPTF	WOAI	KFAD
KGW	KOMO	KHQ WGĂR	KTAR	KFSD	WKY	8:00-8:30 B					
WBAP	KPRC	WGAR	11. 0			WEAF	WCAE WOC WJAR	WHAM	WWJ	WSAI WDAF	WIBO
10:30-11:00 WEAF WLIT	WILAR	WTAG	WRC	WCAE	WTAM	KSD WEEI WGY 8:15-8:30 O WABC WDRC WJAS	WJAR	WTAG	WCSH	WFI	WRC
WLIT	WWJ	WDAF	WMC	WSB	WJDX	WGY	WBEN				
WBEN 10:30-11:00	_WGY	WOC	$\mathbf{w}\mathbf{h}\mathbf{o}$	CFCF	WEEI	8:15-8:30 O	ld Gold C	haracter	Readings	WLBZ	WEAN
WACU	$\mathbf{w}\mathbf{u}\mathbf{p}$	TITTAR	WLBW	WADC	WHK	WDRC	WNAC	WORC	WPG	WCAU	WHP
WKRC	WCAH	WKBN	WSPD	WISN	WBBM KOIL KHJ	WJAS	WLBW	WCAO	WTAR WWNC	WDBJ	WADC
WCCO	KSCJ KDYL	WMT	WDAY	WNAX	KOIL	WKRC WTOC	WAIU	WKBN	WWNC	WBT	WGST WBCM
T T T T T	UNV					urgpn	WDOD	WDBO WREC	WLAC	WBRC	WDSU
11:00-11:30	Florence	Richards	on and O	rchestra	WOW 11:15)	WISN			KSCJ WNAX	WMT	KMOX
WEAF	WGY	WCAE	WMC	WHO	WOW 11-15)	KMBC KFH	KLRA KFJF	WDAY WRR	WNAX KTRH	KOIL KTSA	WIBW KLZ
KSD	WTMJ	WSM or	n 11:15)	W CD OI	11.10)	KFH KDYL KFRC 8:30-9:00 F WEAF WWJ WRVA WSM WOAI WHAS	KVI	KOL	KFPY	KOIN	KHJ
11:00-11:30	Morton I	owney —	Leon Be	lasco's O	rchestra	KFRC					
WABC	WKBW	WGR	WEAN	WORC	WNAC	8:30-9:00 F	orsheim I	Frolic	WRC	WGY	WCAE
WDBJ	WHK	WKBN	WBT	WXYZ	WBCM	WEAF WW.I	WSAI	WGN	WRC KSD WIOD WSMB KSL	WDAF	WEBC
WSPD	WREC	WLAC	WBRC	WISN	WFBM	WRVA	KVOO	WJAX	WIOD	WSUN WJDX	WFLA
WCCO	KSCJ	KMOX	KLRA	WDAY	KOIL	WSM	WMC	WSB	WSMB	WJDX KTHS	KPRC WJAR
KFPY	CFRB	Krjr	KILL	KLZ	KOL	WHAS	WCSH	WRAP	KSL WBEN	KSTP	
11:30-12:00	Ben Berr	ie and H	is Orches	stra	WIT DW	8:45-9:00 P	remier Sa	lad Dres	вегв		
WABC	WKBW	WITAD	WORC	WIAN	MHK	WABC	WFBL	WKBW	WEAN	WDRC	WNAC
WKBN	WBT	WXYZ	WBCM	WSPD	WREC	WGST	WTOC	WOAM	WDRO	WADC	WXYZ
WLAC	WBRC	WISN	WFBM	WCCO	KSCJ	WSPD	WLAC	WĎSU	wowo	wcco	KMOX
KLRA	WDAY	WNAX	KOIL	KEDA	CERR	KMBC	KOIL	KTRH	KLZ	KDYL	KVI
11:30-12:00	Henry B	usse and	his Orche	stra	OFILE	8.45.0.00 W	KFPY	KOIN	KHJ	KFRU	
WEAF	WWJ	KSD	woc	WHO	wow	WJZ	WBZ	WBZA	WBAL	WREN	KDKA
W DAF	KSTP	WERC	KUA Iir Orcha	WTAM	•	WHAS 8:45-9:00 P WABC WCAU WGST WSPD KMBC KOL 8:45-9:00 W JZ 9:00-9:30 N WEAF WRC WTMJ WSM	lcKesson	Musical	Magazine	TT COTT	WEI
WEAF	WRC	WKY	WSM	KYW	(KSD on	WEAF	WEEL	WIAK	WSAI	KSD	WOW
12:30)	(KSTP	WGY o	ff 12:30)	WDAI	off 12:15	WTMI	WERC	WDVA	WIOD	WFLA	WSUN
							M EDC	MITTI			
		_	_					KSL	KGO	KECA	KTAR
		Tues	day			WKY KFSD	KOA KGW	KSL	KGO KHQ	KECA KVOO	KTAR WOAI
		Tues	day			WKY KFSD	KOA KGW	KSL	KGO KHQ	KECA KVOO	KTAR WOAI
		Tues	day			WKY KFSD	KOA KGW	KSL	KGO KHQ	KECA KVOO	KTAR WOAI
10:15-10:30 WJZ KFKX KVOO	Through WBZ KDKA WOAI	Tues	day ing Glass WHAM CKGW WGAR	WLW KFAB	WREN WKY	WKY KFSD KYW 9:00-9:30 H WABC WCAU	KOA KGW WFBL WJAS	KSL KOMO WGR WMAL WSPD	KGO KHQ WEAN WCAO WISN	WDRC WADC WOWO	KTAR WOAI WNAC WHK WFRM
10:15-10:30 WJZ KFKX KVOO	Through WBZ KDKA WOAI	Tues	day ing Glass WHAM CKGW WGAR	WLW KFAB	WREN WKY	WKY KFSD KYW 9:00-9:30 H WABC WCAU	KOA KGW WFBL WJAS	KSL KOMO WGR WMAL WSPD	KGO KHQ WEAN WCAO WISN	WDRC WADC WOWO	KTAR WOAI WNAC WHK WFRM
10:15-10:30 WJZ KFKX KVOO	Through WBZ KDKA WOAI	Tues	day ing Glass WHAM CKGW WGAR	WLW KFAB	WREN WKY	WKY KFSD KYW 9:00-9:30 H WABC WCAU	KOA KGW WFBL WJAS	KSL KOMO WGR WMAL WSPD	KGO KHQ WEAN WCAO WISN	WDRC WADC WOWO	KTAR WOAI WNAC WHK WFRM
10:15-10:30 WJZ KFKX KVOO	Through WBZ KDKA WOAI	Tues	day ing Glass WHAM CKGW WGAR	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	WKY KFSD KYW 9:00-9:30 H WABC WCAU WKRC WBBM 9:30-10:00 WABC	KOA KGW WFBL WJAS WXYZ WCCO The Philc	KSL KOMO WGR WMAL WSPD KMOX o Sympho	WEAN WCAO WISN KMBC Ony Conce	WDRC WADC WOWO KOIL	KTAR WOAI WNAC WHK WFRM
10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF KSD CKGW	Through WBZ KDKA WOAI olden Ge WEEI WFLA	Tues the Look WBZA KWK WBAP WTIC WSUN	day ing Glass WHAM CKGW WGAR WTAG KSTP	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	WKY KFSD KYW 9:00-9:30 H WABC WCAU WKRC WBBM 9:30-10:00 WABC	KOA KGW WFBL WJAS WXYZ WCCO The Philc	KSL KOMO WGR WMAL WSPD KMOX o Sympho	WEAN WCAO WISN KMBC Ony Conce	WDRC WADC WOWO KOIL	WNAC WHK WFBM KFH WDRC WTAR WSPD
10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF KSD CKGW	Through WBZ KDKA WOAI olden Ge WEEI WFLA	Tues the Look WBZA KWK WBAP WTIC WSUN	day ing Glass WHAM CKGW WGAR WTAG KSTP	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	WKY KFSD KYW 9:00-9:30 H WABC WCAU WKRC WBBM 9:30-10:00 WABC	KOA KGW WFBL WJAS WXYZ WCCO The Philc	KSL KOMO WGR WMAL WSPD KMOX o Sympho	WEAN WCAO WISN KMBC Ony Conce	WDRC WADC WOWO KOIL	WNAC WHK WFBM KFH WDRC WTAR WSPD WISN
10:15-10:30 WJZ KFKX KVOO 3:30-4:00 G WEAF KSD CKGW	Through WBZ KDKA WOAI olden Ge WEEI WFLA	Tues the Look WBZA KWK WBAP WTIC WSUN	day ing Glass WHAM CKGW WGAR WTAG KSTP	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	WKY KFSD KYW 9:00-9:30 H WABC WCAU WKRC WBBM 9:30-10:00 WABC	KOA KGW WFBL WJAS WXYZ WCCO The Philc	KSL KOMO WGR WMAL WSPD KMOX o Sympho	WEAN WCAO WISN KMBC Ony Conce	WDRC WADC WOWO KOIL	WNAC WHK WFBM KFH WDRC WTAR WSPD
10:15-10:30 WJZ KFKX KV000 3:30-4:90 G WEAF KSD CKGW 4:00-4:30 It WABC WCAU WKRC	Through WBZ KDKA WOAI olden Ge WEEI WFLA WLBZ WLBW WLBW	Tues the Look WBZA KWK WBAP "S WTIC WSUN I WEAN WMAL WWNC	day ing Glass WHAM CKGW WGAR WTAG KSTP WNAC WCAO WXYZ WRRM	WLW KFAB WTAM WOC	WREN WKY WFJC WHO	WKY KFSD KYW 9:00-9:30 H WABC WCAU WKRC WBBM 9:30-10:00 WABC	KOA KGW WFBL WJAS WXYZ WCCO The Philc	KSL KOMO WGR WMAL WSPD KMOX o Sympho	WEAN WCAO WISN KMBC Ony Conce	WDRC WADC WOWO KOIL	WNAC WHK WFBM KFH WDRC WTAR WSPD WISN KMOX
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10:15-10:30 WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 II WABC WCAU WKRC WREC WMT KTRH 4:00-5:00 P MJZ KWK WMC KFSD 5:00-5:15 R WABC WMAD WABC	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idyl WLBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WHAM KFAB WHAM KFAB WHAC WHAC WHAR WHAC WHAC WHAC WHAC WHAC WHAC WHAC WHAC	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WWNC KMBC KMBC KMBC KMBC KMBC KMBC KMBC WWNAA WYAN WFAN WFAN WAIU WLAC WDAY WHAC WDAY WHAC WDBJ WBRC WNAX	day ing Glass WHAM CKGW WGAR WTAP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRC KSTP WWNC WBRC KSTP WWNC WBRC KFJF	WLW KFAB WTAM WOC WORC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WCCO KRLD WGAU WBT WGLU KFH	WREN WKY WFJC WHO WPG WDBJ WDOD KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH	9:30-10:00 WADC WADC WADC WADC WADC WADC WADC WADC	KOA KGW WFBL WJAS WXYZ WCAU WFBL WCAU WFBM KOIL CFR B Death MAL KOIL CFR B DOA WBAL KOIL CFR B WBAL GRAW WJAR WCAE WHO WKY WJAR WCAE WHO WKY WGW WDAF GRAW WYZ WCAU WMAL KTRH WTAR	KSL KOMO TIGE WGR WMAL WSPD KMOX Sympho WHEC WJAS WHAC WLAC WMAC WHAC WCKY WEEI WTAM WOWO WBEI WTAM WOWO WBEI WHAC WOWO WJAS	WEAN WCAO WISN WCAO WISN KMBC NY CONCE WKBW WMAL WGST WTAG WTAG WTAG WTAG WTAG WTAG WTAG WT	WDRC WADC WOWO KOIL ort WEAN WCAO WXYZ WDSU WMT KRLD WSH WSAI KSTP KGO WOC	WNAC WHK WFBM KFH WDRC WHX WSPD WISN KMOX KTRH WBZA WRC WIBO WEBO WEBO WRVA
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10:15-10:30 WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 II WKAC WREC WABC WCAU WKRC WREC WMT KTRH 4:00-5:00 P WJZ KWK WMC KFSD 5:00-5:15 R WCA0 WOAU WABC WABC WCA0 WDOU WMT KTSA 7:30-7:45 P WKBW WLBW WREC KSCJ KSCJ KSCJ KSCJ KSCJ KSCJ KSCJ KSC	Through WBZ KDKA WOAI olden Ge WEEI WFLA alian Idyl WLBW WAIU WLAC KMOX KTSA acific Vag WHAM KFAB WHAM KFAB WHAM KFAB WHAC WHAC WHAR WHAC WHAC WHAC WHAC WHAC WHAC WHAC WHAC	Tues the Look WBZA KWK WBAP WTIC WSUN WEAN WMAL WWNC KMBC KMBC KMBC KMBC KMBC KMBC KMBC WWNAA WYAN WFAN WFAN WAIU WLAC WDAY WHAC WDAY WHAC WDBJ WBRC WNAX	day ing Glass WHAM CKGW WGAR WTAP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRC KSTP WWNC WBRC KSTP WWNC WBRC KFJF	WLW KFAB WTAM WOC WORC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WCCO KRLD WGAU WBT WGLU KFH	WREN WKY WFJC WHO WPG WDBJ WDOD KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH	9:30-10:00 WADC WADC WADC WADC WADC WADC WADC WADC	INDIANCE OF THE PROPERTY OF TH	KSL KOMO rge WGR WMAL WSPD KMOXX Sympho WHEC WJAS WKRC WMAQ KFH WEEI WTAM WOW WENR MFA WOON WBEN WHE WOON WHE WOON WHE WOON WHE KOL WOWO WJAS WWNC WHE KOL WOWO WJAS WWNC WOWO WJAS WWNC WFBM WLAC KOL	WEAN WCAO WISN WCAO WISN WCAO WISN WCAO WISN WKMBC WKBW WMAL WGST WBRC WKFJF KWK WTAG WWJ WTMJ KSL WBAP KPRC WEAN WKBW KMBC WEAN WKBW KMBC WEAN WKBW KFPY	WDRC WADC WOWN KOIL IT WEAN WCAO WYYZ WDSU WMT KRLD WSAI KSTP KGO WOC WBBM WABC KMOX WBCC KMOX WBCC KMOX WBCC KMOX WBCC KFJF WKBN	WNAC WHK WFBM KFH WDRC WTAR WSPD WISN KMOX KTRH WBZA WRC WIBO WEBO WEBO WEBO WEBO WEBO WEBU WEBU WEBU WEBU WEBU WEBU WEBU WEBU
10:15-10:30 WJZ KFKX KV00 3:30-4:400 G WEAF KSD CKGW WABC WCAU WKRC WREC WREC WABC WABC WABC WABC WABC WABC WABC WAB	Through WBZ KDKA WOAI olden Ge WEEI WLBW WLBW WLBW WLAC KMOX KTSA acific Vag WHAM KFAB WAPI KTAR CHAR WHAM KFAB WAPI KTAR WHAC WTAR	Tues the Look WBZA WBZA WWA WBAP "" " " " WEAN WMAL WWNC WBRC KMBC KMBC KMZ abonds WFAN WFAA " WFAN WAIU WLAC WDBJ WHAN WHAC WDBJ WBRC WDAY ** ** ** ** ** ** ** ** ** ** ** ** *	day ing Glass WHAM WHAG WHAG WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRC KSTP WHP WWNC WBRC KFJF WHP WWNC WBRC KFJF WAShing WORC WKBN KOIL KFRC	WLW KFAB WTAM WOC WORC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WCCO KRLD WCAU WBT WGL KFH WJAS WCSH	WREN WKY WFJC WHO WPG WDOD KSCJ KFJF WLS WSM KGO WMAL WBCM KTRH	9:30-10:00 WABC WABC WABC WABC WABC WABC WABC WABC	INDIANCE OF THE PROPERTY OF TH	KSL KOMO rge WGR WMAL WSPD KMOXX Sympho WHEC WJAS WKRC WMAQ KFH WEEI WTAM WOW WENR MFA WOON WBEN WHE WOON WHE WOON WHE WOON WHE KOL WOWO WJAS WWNC WHE KOL WOWO WJAS WWNC WOWO WJAS WWNC WFBM WLAC KOL	WEAN WCAO WISN WCAO WISN WCAO WISN WCAO WISN WKMBC WKBW WMAL WGST WBRC WKFJF KWK WTAG WWJ WTMJ KSL WBAP KPRC WEAN WKBW KMBC WEAN WKBW KMBC WEAN WKBW KFPY	WDRC WADC WOWO KOIL WEAN WCAO WXYZ WDSU WMT KRLD WSAI KSTP KGO WOC WBBM WABC KMOX WBRC WCCO KFJF WKBN KDKA WHAS	WNAC WHK WFBM KFH WDRC WTAR WSPD WISN KMOX KTRH WBZA WRC WIBO WEBO WEBO WEBO WEBO WEBO WEBU WEBU WEBU WEBU WEBU WEBU WEBU WEBU
10:15-10:30 WJZ KFKX KV000 3:30-4:00 G WEAF KSD CKGW 4:00-4:30 II WKRC WREC WREC WREC WMT KTRH 4:00-5:00 P WJZ KWK WMC KFSD 5:00-5:15 R WABC WGAD WMT KTSA 7:30-7:45 P WKBW WREC KSCJ KTRH 7:30-8:00 S WEAF	Through WBZ KDKA WOAI olden Ge WEEI WLBW WLBW WLBW WLAC KMOX KTSA acific Vag WHAM KFAB WAPI KTAR CHAR WHAM KFAB WAPI KTAR WHAC WTAR	Tues the Look WBZA WBZA WWA WBAP "" " " " WEAN WMAL WWNC WBRC KMBC KMBC KMZ abonds WFAN WFAA " WFAN WAIU WLAC WDBJ WHAN WHAC WDBJ WBRC WDAY ** ** ** ** ** ** ** ** ** ** ** ** *	day ing Glass WHAM WHAG WHAG WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRC KSTP WHP WWNC WBRC KFJF WHP WWNC WBRC KFJF WAShing WORC WKBN KOIL KFRC	WLW KFAB WTAM WOC WORC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WCCO KRLD WCAU WBT WGL KFH WJAS WCSH	WREN WKY WFJC WHO WPG WDOD KSCJ KFJF WLS WSM KGO WMAL WBCM KTRH	9:30-10:00 WABC WABC WABC WABC WABC WABC WABC WABC	IED WEST OF WAS A KEYN OF WAS A KOAU WHE OF WEST OF WAS A KOAU WHAPPY WAS A KEYN OF WA	KSL KOMO TIGE WGR WMAL WSPD KMOX Sympho WHEC WJAS WHAC WLAC WHAC WHAC WCKY WEN WCKY WEN WTAM WOW WBEI WTAM WOW WBC WHAC WOWO WHEN WHAC WOWO WHAC WOWO WHAC WOWO WHAC WOWO WHO WHO WHAC WOWO WHO WHO WHO WHO WHO WHO WHO WHO WH	WEAN WCAO WISN WCAO WISN WCAO WISN WCAO WISN WKBW WMAL WGST WTAG WYAG WYAG WYAG WYAG WYAG WYAG WYAG WY	WDRC WADC WOWO KOIL IT WEAN WCAO WYYY WDSU WMT KRLD WSAI KSTP KGO WOCO KFJF WKBN KDKA WHAS KSI.	WNAC WHK WFBM KFH WDRC WTAR WSPD WISN KMOX KTRH WBZA WRC WIBO WEBC KOMO WRVA WKRC WLBW WSM WKRC WLBW WKRC WLBW WKRC WLBW WKRC WLBW WKRC WLW WKRC WKRC WLW WKRC WR
10:15-10:30 WJZ KFKX KV00 3:30-4:400 G WEAF KSD CKGW WABC WCAU WKRC WREC WREC WABC WABC WABC WABC WABC WABC WABC WAB	Through WBZ KDKA WOAI olden Ge WEEI WLBW WLBW WLBW WLAC KMOX KTSA acific Vag WHAM KFAB WAPI KTAR CHAR WHAM KFAB WAPI KTAR WHAC WTAR	Tues the Look WBZA WBZA WWA WBAP "" " " " WEAN WMAL WWNC WBRC KMBC KMBC KMZ abonds WFAN WFAA " WFAN WAIU WLAC WDBJ WHAN WHAC WDBJ WBRC WDAY ** ** ** ** ** ** ** ** ** ** ** ** *	day ing Glass WHAM WHAG WHAG WTAG KSTP WNAC WCAO WXYZ WBBM WDAY KFRC WGAR WRC KSTP WHP WWNC WBRC KFJF WHP WWNC WBRC KFJF WAShing WORC WKBN KOIL KFRC	WLW KFAB WTAM WOC WORC WTAR WSPD WCCO KOIL CFRB WLW WJAX KOA WLBW WXYZ WCCO KRLD WCAU WBT WGL KFH WJAS WCSH	WREN WKY WFJC WHO WPG WDBJ WDOD KSCJ KFJF WLS WSM KGO WMAL WBCM KSCJ KTRH	9:30-10:00 WABC WABC WABC WABC WABC WABC WABC WABC	IED WEST OF WAS A KEYN OF WAS A KOAU WHE OF WEST OF WAS A KOAU WHAPPY WAS A KEYN OF WA	KSL KOMO TIGE WGR WMAL WSPD KMOX Sympho WHEC WJAS WHAC WLAC WHAC WHAC WCKY WEN WCKY WEN WTAM WOW WBEI WTAM WOW WBC WHAC WOWO WHEN WHAC WOWO WHAC WOWO WHAC WOWO WHAC WOWO WHO WHO WHAC WOWO WHO WHO WHO WHO WHO WHO WHO WHO WH	WEAN WCAO WISN WCAO WISN WCAO WISN WCAO WISN WKMBC WKBW WMAL WGST WBRC WKFJF KWK WTAG WWJ WTMJ KSL WBAP KPRC WEAN WKBW KMBC WEAN WKBW KMBC WEAN WKBW KFPY	WDRC WADC WOWO KOIL IT WEAN WCAO WYYY WDSU WMT KRLD WSAI KSTP KGO WOCO KFJF WKBN KDKA WHAS KSI.	WNAC WHK WFBM KFH WDRC WTAR WSPD WISN KMOX KTRH WBZA WRC WIBO WEBC KOMO WRVA WKRC WLBW WSM WKRC WLBW WKRC WLBW WKRC WLBW WKRC WLBW WKRC WLW WKRC WKRC WLW WKRC WR

WSB KSTP KTAR KFSD WJR WFLA KSTP KTAR KFSD WJR WJR WOKY 10:00-11:00 Lucky Strike Dance Orchest WEAF WEEL WJAR WTAG WRC WGAE WJJ WSAI WHO WTMJ WEBC WRVA WSMB WJDX WOAI WKY KECA KGW KHQ KOMO WIBO WDAF WTAM WAPI 10:30-10:45 Clara, Lu and Em WJZ WBAL WHAM KDKA KWK WREN WGAR WBZ WBAL WHAM KDKA WBSW WHEN WGAR WBZ WBAL WHAM KDKA WBC WFBL WHEC WKBW WDRC WAG WGAU WMAL WCAO WTAR WDBJ WKRC WKBN WNC WTBW WDAF WGAU WHAL WCAO WTAR WDBJ WKRC WKBN WNC WBT WQAM WDBO WDAE WXYZ WDOD WREC WLAC WBRC WKMOW WFBM WBBM WCOO KMOX KLRA WDAY WNAX KFH KFJF KRLD KTRH KDYL KOL KFPY KOIN KRAF WFI KRLD KTRH KOPL KOL WFF WFI WRC KSB 11:00-11:30 Cab Calloway and His Orch WEAF WFI WRC KYDA WWAF	WSUN	KECA	WHK	WKRC	WAIU	WWNC	WGST	WXYZ
KSTP KTAR KFSD WJR	WAPI	WGAR	WSPD	WERM	WREC WGL	WLAC	WBRC	KMBC
10:00-11:00 Lucky Strike Dance Orchest	tra		KLRA	KOIL	KFJF	WRR	KTRH	CFRB
WEAF WEEL WJAR WTAG	WCSH	WFI	7:45-8:00 Sr	nith Broth	ner's Orci	nestra WID	WIRO	ĸwĸ
WHO WTMJ WEBC WRVA	WJAX	WIOD	WREN	KFAB	WLW	WJK	WIBO	KWK
WFLA WSUN WHAS WSM	WMC	WSB	7:45-8:00 "1	Back in th	e News i	n Washin	gton"	WCV
WSWB WIDX WOAL WKY	KOA KTAR	KESD	WEAF	WEIC	WBEN	WRVA	WKY	KOMO
WIBO WDAF WTAM WAPI	WBEN	Krob	KFSD	WSAI	WIBO	KSD	WOC	WHO
10:30-10:45 Clara, Lu and Em	W ID	WT W	WOW 7.45 8.00 D	WDAF	WAPI			
KWK WREN WGAR WBZ	WBZA	WGN	WABC	WFBL	WKBW	WEAN	WNAC	WCAU
10:30-11:00 Paramount Publix Playhous	e	******	WJAS	WLBW	WMAL	WCAO	WADC	WKRC
WABC WFBL WHEC WKBW	WHP	WEAN	W X YZ W M A O	WCCO	KMOX	KOIL	WRHM	WGL
WMAL WCAO WTAR WDBJ	WADC	WHK	8:00-8:15 Li	sterine Pr	ogram-	Bobby Jo	nes	
WKRC WKBN WWNC WBT	WGST	WTOC	WEAF	WEEI	WTIC	WJAR	WTAG	WCSH
WDOD WREC WLAC WBRC	WDSU	WISN	KSD	WOC	WHO	WOW	WPTF	WIOD
WOWO WFBM WBBM WCCO	KSCJ	WMT	WFLA	WSUN	WHAS	WSM	\mathbf{wsb}	WSMB
KMOX KLRA WDAY WNAX	KTSA	WIBW	8-00-8-30 TI	WFAA	WOAI	KOA		
KDYL KOL KFPY KOIN	KHJ	KFRC	WJZ	WBZ	WBZA	WHAM	KDKA	WREN
KNX CFRB			WJR	WEBC	KFAB	KWK	KSTP	KYW
WEAF WFI WRC KSD	wwj	WSAI	WGAK 8-15-8-30 R	dietron V	arieties.			
WOC WHO WEEL WDAF	WCAE	WIOD	WEAF	WTIC	WJAR	WTAG	WRC	WBEN
11:00-11:30 Paul Tremaine and His Orc	hestra WNAC	WORC	WTAM	WSAI	WIBO	KSD	WOW	WIOD
WCAU WHP WLBW WCAO	WTAR	WDBJ	KHO	KOMO	KFSD	KTAR	KECA	KSL
WWNC WXYZ WSPD WDOD	WREC	WLAC	KGO	KOA	KVOO			
WNAX KOIL WIBW KFH	KFJF	KTRH	8:15-8:30 U. WARC	S. Marine WLRZ	Band WEAN	WNAC	WORC	WIAS
KLZ KOL CFRB			WLBW	WMAL	WTAR	WDBJ	WWNC	WXYZ
11:30-12:00 Vincent Lopez and His Orch	restra	WOC	WBCM	WSPD	WDOD	WREC	WLAC	WBRC
WHO WOW WJDX KSD	WTAM	WDAF	WNAX	KFJF	KRLD	KTSA	KOL	KFRC
KNX CFRB 11:00-11:30 Cab Calloway and His Orch WEAF WFI WRC KSD WOC WHO WEEI WDAF 11:00-11:30 Paul Tremsine and His Orch WADC WHEC WLBZ WEAN WCAU WHP WLBW WCAO WWNC WXYZ WSPD WDOD WFBM WCCO WMT KMOX WNAX KOIL WIBW KFH KLZ KOL CFRB 11:30-12:00 Vincent Lopez and His Orch WEAF WFI KOA WHO WOW WJDX KSD WBEN			CFRB					
777 1 1			8:30-9:00 M	opilon (o	ncert		TTOOTT	MIT IM
Wednesday			WEAF	WEEI	WJAR.	WTAG	WCSH	WLIT
Wednesday 3:00-3:15 Edna Wallace Hopper			WEAF WRC	WEEI WSAI	WJAR KSD	WOW	WTAM	KOA
3:00-3:15 Edna Wallace Hopper WJZ WBZ WBZA WBAL	WHAM	KDKA	WEAF WRC KVOO KSL	WEEI WSAI WFAA WGY	WJAR KSD WOAI WGN	WTAG WOW WKY WEBC	WTAM KPRC WDAF	KOA WTIC WCAE
3:00-3:15 Edna Wallace Hopper WJZ WBZ WBZA WBAL WGAR WLW WKSTP WEBC	WHAM WREN WRVA	KDKA WTMJ WPTF	WEAF WRC KVOO KSL WHO	WEEI WSAI WFAA WGY WOC	WJAR KSD WOAI WGN WWJ	WTAG WOW WKY WEBC WBEN	WTAM KPRC WDAF	WOA WTIC WCAE
### Wednesday 3:00-3:15 Edna ### Wallace Hopper WJZ WBZ WBZA WBAL WGAR WLW WGN KWK WJDX KOA KSTP WEBC WJAX WIOD WFLA WSUN	WHAM WREN WRVA WHAS	KDKA WTMJ WPTF WSM	WEAF WRC KVOO KSL WHO 8:30-9:00 Th	WEEI WSAI WFAA WGY WOC ne Sunkis	WJAR KSD WOAI WGN WWJ Musicsi	WTAG WOW WKY WEBC WBEN Cocktail	WTAM KPRC WDAF	WOAE WNAC
### Wednesday 3:00-3:15 Edna ### Wallace Hopper ### WJZ	WHAM WREN WRVA WHAS KGO WAPI	KDKA WTMJ WPTF WSM KECA KESD	WEAF WRC KVOO KSL WHO 8:30-9:00 TI WABC WFAN	WEEI WSAI WFAA WGY WOC Sunkis WFBL WCAU	WJAR KSD WOAI WGN WWJ t Musicsi WGR WJAS	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL	WCSH WTAM KPRC WDAF	WNAC WADC
### Wednesday 3:00-3:15 Edna Wallace Hopper ### WJZ	WHAM WREN WRVA WHAS KGO WAPI	KDKA WTMJ WPTF WSM KECA KFSD	WEAF WRC KVOO KSL WHO 8:30-9:00 Th WABC WFAN WHK	WEEI WSAI WFAA WGY WOC Sunkis WFBL WCAU WKRC	WJAR KSD WOAI WGN WWJ Musicsi WGR WJAS WXYZ	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD	WTAM KPRC WDAF WDAF	WNAC WADC WADC WJJD
### Wednesday 3:00-3:15 Edna Wallace Hopper ### WJZ	WHAM WREN WRVA WHAS KGO WAPI	KDKA WTMJ WPTF WSM KECA KFSD WSM	WEAF WRC KVOO KSL WHO 8:30-9:00 TH WABC WFAN WHK KMOX KFPY	WEEI WSAI WFAA WGY WOC ne Sunkis WFBL WCAU WKRC KMBC	WJAR KSD WOAI WGN WWJ t Musicsi WGR WJAS WXYZ KOIL KHJ	WTAG WOW WKY WEBC WEBCN Cocktail WEAN WMAL WSPD KLZ KFRC	WTAM KPRC WDAF WDAF WCAO WOWO KDYL	WNAC WADC WADC WJJD KOL
Wednesday	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFLA	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN	WEAF WRC KVOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KMOX KFPY 8:30-9:00 Vi	WEEI WSAI WFAA WGY WOC ne Sunkis WFBL WCAU WKRC KMBC KOIN brant Me	WJAR KSD WOAI WGN WWJ Musics WGR WJAS WYAS WXYZ KOIL KHJ lodies	WTAG WOW WKY WEBC Cocktail WEAN WMAL WSPD KLZ KFRC	WTAM KPRC WDAF WDAF WDRC WCAO WOWO KDYL	WNAC WADC WADC WJJD KOL
Wednesday	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFLA WFLA	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY	WEAF WRC KYOO KSL WHO 8:30-9:00 TH WABC WFAN WHK KMOX KFPY 8:30-9:00 Vi	WEEI WSAI WFAA WGY WOC Sunkis WFBL WCAU WKRC KMBC KOIN brant Me WBZ WREN	WJAR KSD WOAI WGN WWJ Musics WGR WJAS WXYZ KOIL KHJ lodies WBZA KFAR	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KDKA	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL	WNAC WADC WADC WJJD KOL
Wednesday	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFLA WFI KSTP	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WRVA	WEAF WRC KVOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KMOX KFPY 8:30-9:00 VI WJZ KWK 9:00-9:30 Hi	WEEI WSAI WFAA WGY WOC THE SUNKIS WFBL WCAU WKRC KMBC KOIN Brant Me WBZ WREN WREN THE SEL	WJAR KSD WOAI WGN WWJ t Musics WGR WJAS WXYZ KOIL KHJ lodies WBZA KFAB art Progr	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KDKA CKGW	WCSH WTAM KPRC WDAF WDAF WCAO WOWO KDYL WLW CFCF	WNAC WADC WJJD KOL
Wednesday	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFLA WFI WFLA WHO KTHS	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WRVA	WEAF WRC KVOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KMOX KFPY WJZ KWK 9:00-9:30 H:	WEEI WSAI WGY WOC ne Sunkis WFBL WCAU WKRC KOIN brant Me WBZ WREN alsey, Stu	WJAR KSD WOAI WGN WWJ t Musicsi WGR WJAS WXYZ KOIL KHJ lodies WBZA KFAB art Progr WJAR	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KDKA CKGW am	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH	WNAC WADC WADC WJJD KOL KYW WHAM
### WEGI WSD WEGI WSD	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFLA WFI KSTP WHO KTHS	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WEVA WBAP	WEAF WRC KVOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KMOX KFPY 8:30-9:30 H WEAF WRC KOA	WEEI WSAI WFAA WGY WOC THE SUNKIN WFBL WCAU WKRC KMBC KOIN WREN WREN WREN WREN WREI WGY WKEI WGY KSL	WJAR KSD WOAI WGN WWJA MUSICA WGR WJAS WXYZ KOIL KHJ lodies WBZA ART Progr WJAR WCAE KGO	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KDKA CKGW WTAG CKGW	WCSH WTAM KPRC WDAF WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO	WNAC WADC WADC WJJD KOL KYW WHAM WLIT WJAX KHQ
Wednesday	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFLA WFI KSTP WHO KTHS	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WSUN WGY WRVA WBAP	WEAF WRC KVOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KMOX KFPY 8:30-9:00 VI KWK 9:00-9:30 HI WEAF WRC KOA	WEEI WSAI WGY WFAA WGY WFBL WCAU WKRC KMBC KOIN brant Me WBZ WRED WREJ WEEI WGY KSL	WJAR KSD WOAI WGN WWJA MUSICA WGR WJAS WXYZ KOIL KHJ lodies WBZA Art Progr WJAR WCAE KGO WOC	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KDKA CKGW WTAG CKGW WHO	WCSH WTAM KPRC WDAF WDAC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW	WNAC WTIC WCAE WNAC WADC WJJD KOL KYW WHAM WLIT WJAX KHQ WWJ
Wednesday	WHAM WREN WRVA WHAS KGO WAPI WHAS WFLA KSTP WHO KTHS WDRC WMAL WBT	KDKA WTMJ WPTF WSM KECA KFSD WSM WSUN WSUN WGY WBAP WNAC WCAO WXYZ	WEAF WRC KYOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KMOX KFPY 8:30-9:00 VI KWK 9:00-9:30 H WEAF WRC KOA WSAI WSMB KYW	WEEI WSAI WGY WFAA WGY WFBL WCAU WKRC KMBC KOIN brant Me WBZ WREI WGY KSL KSD KVOO WHAS	WJAR KSD WOAI WGN W Musicsi WGR WJAS WXYZ KOIL KHJ Jodies WBZA KFAB WJAR WCAE KGO WOC KPRC WSM	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KDKA CKGW WTAG CKGW WHO WOAL	WCSH WTAM KPRC WDAF WCAO WCAO WOWO KDYL WLW CFCF WCSH WCSH WOWO WOW KSTP WSB	WNAC WADC WADC WJJD KOL KYW WHAM WLIT WJAX KHQ WWJ WTMJ KFI
Wednesday	WHAM WREN WRVA WHAS KGO WAPI WHAS WAFI KSTP WHO KTHS WDRC WBT WBRC	KDKA WTMJ WPTF WSM KECA KFSD WSUN WSUN WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL	WEAF WRC KYOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KFPY 8:30-9:00 VI WUZ KWK 9:00-9:30 H WEAF WRC KOA WSAI WSMB KYW WBEN	WEEI WSAI WSAI WSAY WSY WSA	WJAR KSD WOAI WGN WWI WGR WJAS WXYZ KOIL KHJ lodies WBZA KFAB art Progr WJAR WCAE KGO WOC KPRC WSM	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAI WSPD KLZ KFRC KDKA CKGW WTAG CKGW WHO WOAI WMO	WCSH WTAM KPRC WDAF WCAO WCAO WOWO KDYL WLW CFCF WCSH WCSH WCSH WCSH WCSTP WSB	WNAC WTIC WCAE WNAC WADC WJJD KOL KYW WHAM WLIT WJAX KHQ WWJ WTMJ KFI
Wednesday	WHAM WREN WHAS KGO WAPI WHAS WAPI WFLA WFILA WFILA WHO KTHS WDAC WBT WBT WBT WBT WBT WBT WBT WBT WBT	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSY WRVA WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ	WEAF WRC KVOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KMOX KFPY 8:30-9:00 VI WIZ KWK 9:00-9:30 H WEAF WAC KOA WSAI WSMB KYW WBEN 9:30-10:30 F	WEEI WSAI WSAI WSAY WGY WOCA SUNKIS WFBL WCAU WKRC KMBC KOIN Brant Me WBZ WREN WEEI WEEI KSD KVOO WHAS WTAM Palmolive	WJAR KSD WOAI WGN WWJ Musicsi WGR WJAS WXYZ KOIL KHJ Iodies WBZA WBZA WJAR WJAR WJAR WJAR WJAR WJAR WJAR WJA	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KDKA CKGW WTAG CKGW WTAG CKGW WHO WOAI	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSB	WNAC WACWADC WADC WJJD KOL KYW WHAM WLIT WJAX KHQ WJJX KFI
Wednesday	WHAM WREN WHAS KGO WAPI WHAS WAPI WFLA WFI KSTP WHO KTHS WDRC WMAL WBT WBT WBT WBT WBT WBT	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ WTAQ	WEAF WRC KVOO KSL WHO 8:30-9:00 TI WFAN WHK KMOX KFPY 8:30-9:00 VI WEAF WRC KOA WSAI WSMB KYW WBEN 9:30-10:30 F WEAF WEAF	WEEI WSAI WSAI WFAA WGY WOC WOO WFBL WCAU WKRC KOIN brant Me WBZ WREN Lsey, SK WGY KSL KVOO WHAS WHAS WHAS WAIMOINE WEEI WGY WEEI WGY WHAS WHAS WHAS WHAS WHAS WHAS WHAS WHAS	WJAR KSD WOAI WGN WWJ Musics WGR WJAS WXYZ KOIL KHJ Iodies WBZAB Art Progr WJAR WCAE KGO WCC WCC WCC WCC WCC WCC WCC WCC WCC WC	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KDKA CKGW WTAG CKGW WHO WOAI WMC	WCSH WTAM KPRC WDAF WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSB	WNAC WACWADC WADC WJJD KOL KYW WHAM WLIT WJAX KHQ WWJ WTMJ KFI
Wednesday	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFI KSTP WHO KTHS WDRC WMAL WBT WBTC WDAY KTSA CFRB	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ WTAQ WCAO	WEAF WRC KYOO KSL WHO 8:30-9:00 TI WABC WFAN WFAN 8:30-9:00 VI WEAF WRC KOA WSAI WSMB KYW WBEN 9:30-10:30 F WEAF WEAF	WEEI WSAI WFAA WGY WOC WOO WFBL WCAU WCAU WCAU WKRC KMBC KMBC KMBC WREN WREN WEEI WGY KSL WHAS WTAM WHOO WHAS WTAM WEEI WGY WHAS WTAM WEEI WGY WHAS WTAM WEEI WGY WHAS WTAM WEEI WGY WOC WHAS	WJAR KSD WOAI WGN WWJ MUSICSI WGR WYJAS WYYZ KOIL KHJ Iodies WBZA KFAB WJAR WCAE KGO WOC KPRC WSM HOUR WSM WSW WSM WSW WSW WSW WSW WSW WSW WSW	WTAG WOW WKY WEBC WBEN Cocktail WSPD KLZ KFRC KDKA CKGW WTAG CKGW WHO WJAR WOAL WMAL	WCSH WTAM KPRC WDAF WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSB	WNAC WAC WADC WADC WJJD KOL KYW WHAM WLIT WIAX KHQ WWJ WTMJ KFI WCSH WGN KSTP
Wednesday Si00-3:15 Edna Wallace Hopper WJZ WBZ WBZA WBAL WGN KWK WGN KWK WJAX WIOD WFLA WSUN WGN KGW KGW	WHAM WREN WRVA WHAS KGO WAPI WHAS WFLA WFI KSTP WHO KTHS WDAC WBT WBT WBT WBT WBT WBT WBT WBT WBT WBT	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ WCAO WCAO WCAO WCAO WCAO WCAO WCAO WCAO	WEAF WRC KYOO WHO S:30-9:00 TI WABC WFAN WFAN S:40-9:00 VI WEAF WRC KOA WSAI WSMB WYW 9:30-10:30 F WEAF WEAF WEAF WEAF WEAF WEAF WEAF WEA	WEEI WSAI WFAA WGY WOC WOC WFBL WCAU WCAU WCAU WKRC KMBC KMBC KMBC KMBC KMBC KMBC KMBC KMB	WJAR KSD WOAI WGN WOAI WWJ MUSICSI WGR WJAS WXYZ KOIL KHJ IOOIGS WSZA KFAB ART Progr WJAR WCAE KGO WCC KPRC WSM HOUT WGY WOW WMC	WTAG WOW WKY WEBC WEBC WEAN Cocktail WEAN WMAL WSPD KLZ KFRC KCKGW WTAG CKGW WTAG CKGW WOAI WMAC WJAR WCAG WSAR WGAG WSAR WSAR	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW WSB WTAG WSAI WTAG WSAI WTMJ WHO KGO	WNAC WAC WADC WADC WJJD KOL KYW WHAM WLIT WIAX KHQ WWJ WTMJ WTMJ WTMJ WTMJ WSH WGSH WGSH WSB KSTP WSB
Wednesday S:00-3:15 Edna Wallace Hopper WJZ WBZ WBZA WBAL WGN KWK WJX KVA WJN KWK WJN KWK WJN KWK WJN KWH WJN KWH WJN WHO KFAB S:30-4:00 Evening Stars WEAF WEAF WEAF WEAF WEAF WHO WHO WJD WHO WHO WJD WHO WJD WJD	WHAM WREN WRVA WHAS KGO WAPI WHAS WAFI KSTI KSTI WHO KTHS WDAY WBT WBRC WBAL WBT WBRC WBAL WBT WBC WBAL WBT WBC WBC WBC WBC WBC WBC WBC WBC WBC WBC	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ WTAQ WCAO WDOD WMT	WEAF WRC KYOO KSL WHO 8:30-9:00 TI WABC WFAN WFAN 8:30-9:00 VI KWK 9:00-9:30 H WEAF WRC KOA WSAI WSMB WSMB WSMB WSMB WSMB WSMB WSMB WSMB	WEEI WSAI WFAA WGY WOC WOO WFBL WCAU WCAU WKAU WKRC KOIN WEEI WREN WREN WREN WREN WREN WGY KSL KSD KVOO WHAM Almolive WEC WOC WSM WOAI	WJAR KSD WOAI WGN WWJ t Musicsi WGR WJAS WXYZ KOIL KHJ lodies WBZA KFAB WCAE KGO WCAE KGO WCAE KGO WOC KPRC WTIC WGY WOW WMC KOA	WTAG WOW WKY WEBC WEBN Cocktail WSPD KLZ KFRC KDKA CKGW WTAG CKGW WTAG CKGW WTAG WOAI WMC WJAR WCAE WSMB WDAF KSL	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSB WTAG WSAI WTMJ WHO KGO WWJ	WNAC WTIC WCAE WNAC WADC WJJD KOL WYJD WHAM WLIT WJAX KHQ WWJ WTMJ WTMJ KFI WCSH WGN KSTP WSB KGW
Wednesday	WHAM WREN WRVA WHAS KGO WAPI WHAS WAFIA WFIA WHO KTHS WDRC WMAL WBT WBT WBT WBT WBT WBT WBT WBT WBT WBT	KDKA WTMJ WPTF WSM KECA KFSD WSUN WSUN WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ WTAQ WCAO WDOD WMT KTSA	WEAF WRC KYOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KFPY 8:30-9:00 VI WJZ KYW 9:00-9:30 HI WEAF WRC KOA WSAI WSMB KYW WBEN 9:30-10:30 F WLIT KSD WHAS WJAX	WEEI WSAI WFAA WGY WOC WOOD WFBL WCAU WKRC KOIN WEEI WESU WEEI WESU WEEI WGY KSD KVOO WHAS WHAM Almolive WOC	WJAR KSD WOAI WGN WWJI MUSICSI WGR WJAS WSYY KOIL KHJ JOH JOH JOH JOH JOH JOH JOH JOH JOH J	WTAG WOW WKY WEBC WBEN Cocktail WSPD KLZ KFRC KDKA CKGW WTAG CKGW WHO WOAI WMC WJAR WCAE WSMB WDAF KSL KPRC	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSB WTAG WSAI WTMJ WHO KGO WWJ	WNAC WNAC WADC WADC WJD KOL KYW WHAM WLIT WJAX KHQ WJJ WTMJ KFI WCSH WGN KSTP KGW WTAM
Wednesday Si00-3:15 Edna Wallace Hopper WJZ WBZ WBZA WBAL WGAR WLW WGN KWK WJDX KOA KSTP WEBC WJAX WIOD WFLA WSUN WKC KFAB Si30-4:90 Evening Stars WEAF WEAF WEAF WEAF WHE W	WHAM WREN WRVA WHAS KGO WAPI WHAS WAFI WFLA WFLA WHT KSTP WHO KTHS WDRC WMAL WBT WBRC WDAY KTSA CFRB WLBW WBCM KSCJ KTRH	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSY WRVA WGY WRVA WHAP WNAC WCAO WXYZ WISN KOLL KLZ WTAQ WCAO WMT KTSA	WEAF WRC KYOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KFPY 8:30-9:00 VI WJZ KWK 9:00-9:30 H WEAF WRC KOA WSAI WSAI WSAI WSAI WSAI WEAF WLIT KSD WHAS WIAX WHAS WIAX WIAX WIAX WIAX WIAX WIAX WIAX WIAX	WEEI WSAI WSAI WFAA WGY WOC WOO WOO WFBL WCAU WKRC KOBO WHAS WRE WBZ WRE WBZ WRE WEEI WGY KSL KSD WHAS WHAS WHAS WHOO WHAS WHAS WAS WHOO WHAS WAS WAS WAS WAS WAS WAS WAS WAS WAS W	WJAR KSD WOAI WGN WWJ t Musicsi WGR WJAS WGR WJAS WSAY KOIL KHJ lodies WBZA KHJ lodies WBZA KFAC WGR WGR WGR WGR WGR WGR WGR WGA KFAC WGY WOW WGY WOW WGY WOO asure Ho WBZA	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KDKA CKGW WTAG CKGW WTAG CKGW WOAI WMC WJAR WCAE WSMB WDAF KSL KFRC of 10:00)	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSB WTAG WSAI WTMJ WHO KGO WWJ	WNAC WADD WJD KOL KYW WHAM WLIT WJAX KHQ WWJ KFI WCSH WGN KSTP WSB KGW WTAM
Wednesday Si00-3:15 Edna Wallace Hopper WJZ WBZ WBZA WBAL WGN KWK WGN KWK WGN KWK WGN KWK WGN KGW KG	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFLA KSTP WHO KTHS WDAC WBRC WDAY KTSA WBRC WDAY KTSA WBRC WBCA WBCA WBCA WBCA WBCA WBCA WBCA WHO WHO WHO WHO WHO WHO WHO WHO WHO WHO	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ WTAQ WCAO WDOD WMT KTSA	WEAF WRC KYOO WHO WHO WASC WFAN WFAN 8:30-9:00 VI WEAF WRC KOA WSAI WSAI WSAI WSAI WSAI WSAI WSAI WSA	WEEI WSAI WSAI WSAI WSAI WSAI WSAI WSAI WCAU WCAU WCAU WCAU WCAU WCAU WCAU WCAU	WJAR KSD WOAI WGAI WWJ MUSICS! WWSJAS WYYZ KOIL KHJ Iodies WKYZ KOIL KHJ Iodies WKYZ KOIL KHJ WYAR WCAE KFAB WCAE KFAB WOCAE WOCA WOW WOW WOW WOW WOW WOW WOW WOW WOW WO	WTAG WOW WKY WEBC WEBC WEBEN Cocktail WSPD KLZ KFRC KDKA CKGW WTAG CKGW WHO WOAI WHAG WSMB WDAF KSL KPRC Of 10:00) ur WHAM WRVA	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSB WTAG WSAI WTMJ WHO KGO WWJ	WNAC WADC WADC WADC WADC WADC WJJD KOL KYW WHAM WLIT WJAX KHQ WWJ WTMJ KFI WCSH WGN KSTP WSB KGW WTAM WREN KWK
Wednesday Wednesday Widnesday Widn	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFLA WFI KSTP WHO KTHS WDAC WMAL WBT WBCC WDAY KTSA CFRB WLBW WBCM KTCFRB WLBW WBCM WBCM WBCM WBCM WBCM WBCM WBCM WB	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ WCAO WTAQ WCAO WDOD WMT KTSA	WEAF WRC KYOO WHO 8:30-9:00 TI WABC WFAN WFAN 8:30-9:00 VI WEAF WRC KOA WSAI WSAI WSAI WSAI WSAI WSAI WSAI WSA	WEEI WSAI WFAA WGY WOC WOO WFBL WCAU WCAU WCAU WKRC KMBC KMBC KMBC KMBC KMBC KMBC KMBC KMB	WJAR KSD WOAI WGN WOAI WWJ Musicsi WWJ Musicsi WWGR WJAS WXYZ KOIL KHJ lodies WXYZ KOIL KHJ lodies WXYZ KOIL KFAB Art Progr WJAR WJAR WJAR WJAR WOCA KFAC WGO WWOC KPRC WGW WMC KOA WFIC WGY WOW WMC WGY WOW WMC WGY WOO WWOO WWOO WWOO WWOO WWOO WHOU WHAA WFAA WFAA WFAA WFAA	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAL WSPD KLZ KFRC KCKGW WTAG CKGW WHO WOAI WMC WJAR WCAB WSMB WDAF KSL KPRC off 10:00) WHAM WRVA WSUN	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WSB WTAG WSAI WTMJ WHO KGO WWJ	WNAC WAC WADC WADC WJJD KOL KYW WHAM WLIT WAX KHQ WWJ WTAM WSH WGN KSTP WSB KSTP WSB WTAM
Wednesday Si00-3:15 Edna Wallace Hopper WJZ WBZ WBZA WBAL WGN KWK WJX WGN KWK WJX	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WHI KTH WHO KTHS WDAC WMAL WBT WBAC WDAY WBCM KSCJ KTRH WCAE die Rich WNAC WMAL	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WSUN WGY WEVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ WISN KOIL KLZ WCAO WDOD WMT KTSA	WEAF WRC KYOO KSL WHO 8:30-9:00 TI WABC WFAN WFAN 8:30-9:00 VI KWK 9:00-9:30 H WEAF WRC KOA WSAI WSMB WEAF WEAF WEAF WIT KSD WHAS WJAX WHAS WJAX WIT WIT WIT WIT WIT WIT WIT WIT WIT WIT	WEEI WSAI WFAA WGY WOC Le Sunkis WFBL WCAU WCAU WCAU WKRC KMBC KMBC KOIN WKRC WREN WREN WREN WREN WREN WREN WGY KSL WHAS WTAM Almolive WOC WSM WHAI WRC WSM WHAI WHE WBZ KYW WHAI WHO WHAI WHO WHAI WHO WHAI WHO WHA WHO WHAI WHO WHA WHO WHA WHO WHA WHO WHA WHO WHA WHO WHO WHA WHO WHO WHA WHO WHO WHO WHA WHO	WJAR KSD WOAI WGN WUSI MUSICSI WGR WJAS WKYZZ KOIL KHJ lodies WKYZZ KOIL KHJ lodies WKYAS WKYAS WHOM WYAS WHOM WOCK WOC KPRC WSM HOU WGY WOW WMC KOIC WGY WOW WMC KOAA (KVOO assure HO WBZA WSJS WFLA abiana	WTAG WOW WKY WEBC WEBC WEAN WAAL WSPD KLZ KFRC KDKA CKGW WTAG CKGW WTAG WHO WOAI WMOAI WMOAI WMOAI WMOAI WMOAI WMOAI WMOAI WMOAI WHAM WSUN WORC	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSB WTAG WSAI WTMJ WHO KGO WWJ KDKA WJR	WNAC WACWADC WADC WJDD KOL KYW WHAM WLIT WJAX KHQ WWJ WWJ WYJAX KHQ WWJ WYJAX KHQ WWJ WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJAX WYJA
Wednesday Way Way	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WHI KSTP WHO KTHS WDAY KTSA CFRB WLBW WBC WLBW WSCJ KTRH WCAE die Rich WNAC	KDKA WTMJ WPTF WSM KECA KFSD WSM WSUN WGY WSUN WGY WRVA WBAP WNAC WCAO WXYZ WISN KOIL KLZ WTAQ WDOD WMT KTSA	WEAF WRC KYOO KSL WHO 8:30-9:00 TI WABC WFAN WHK KMOX KFPY 8:30-9:00 VI KWK 9:00-9:30 H WEAF WRC KOA WSAI WSMB WBEN 9:30-10:30 F WLIT KSD WHAS WJAX WJAX WJAX WJAY WLW 9:30-10:00 C WJZ WLW WLW WLW WLW WLOD 9:30-10:00 T WABC	WEEI WSAI WFAA WGY WOC WOO WHE WOO WHE WGAU WKRC KOIN WEEI WREN WREN WREN WREN WREN WREN WREI WREN WGY KSL KYOO WHAM Almolive WEEI WRE WOO WHAM Almolive WOO WHAM Camel Ple WBZ KYW WEEI WRC WOO WHAM WCAU	WJAR KSD WOAI WGN WWJ MUSICSI WGR WJAS WAYZ KOIL KHJ Jodies WBZA KFAB WCAE KGO WOC KPRC WSM HOUT WOY WOY WOY WOY WOY WOY WOY WOY WOY WOY	WTAG WOW WKY WEBC WEBC WEBC WEBC WSPD KLZ KFRC KDKA CKGW WTAG CKGW WTAG WGW WTAG WHO WOAI WMC WJAR WCAE WSMB WDAF KSL WSMB WDAF KSL WSMB WDAF WSMB WDAF KSL WHAM WRVA WHAM WRVA WHAM WRVA	WCSH WTAM WTAM WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSSB WTAG WSAI WTMJ WHO KGO WWJ WTMJ WHO KGO WWJ WTMJ WHO KGO WWJ WTMJ WTMJ WTMJ WTMJ WTMJ WTMJ WTMJ	WNAC WTIC WCAE WNAC WADC WJJD KOL WYJD WHAM WHAM WIIT WJAX KHQ WWJ WTMJ KFI WCSH WGN KSTP WSB KGW WTAM WTAM WTAM WTAM
Wednesday Wednesday Wilder Wild	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WHLA WFILA WFILA WHO KTHS WDRC WMAL WBT WBT WBT WBT WBT WHO KTHS WCAE die Rich WNAC WMAC WWNAC WWNAC KSCJ KFPC	KDKA WTMJ WPTF WSM KECA KFSD WSM WSUN WGY WRVA WRVA WBAP WNAC WCAO WXYZ WISN KOIL KUZ WTAQ WDOD WMT KTSA WOC	WEAF WRC KYOO KSL WHO 8:30-9:00 Ti WABC WFAN WHK KMOX KFPY 8:30-9:00 Vi WWAS WRC KOA WSAI WSMB KYW WBEN 9:30-10:30 F WLIT KSD WHAS WJAX WJAX WJAX WJAX WJAX WJAX WJAY WJZ WLW WJC WJZ WLW WWBY WIOD 9:30-10:00 T WABC WABC WTAR WRC	WEEI WSAI WFAA WGY WOCAU WES SUNKIS WFBL WCAU WKRC KOIN WEEL WREN WREN WREN WREN WREN WREN WREN WREN	WJAR KSD WOAI WGN WWJI MUSICSI WWYJ MUSICSI WGR WJAS WSYA WOJAS WSAS WSYA WSAS WSAS WSAS WSAS WSAS WS	WTAG WOW WKY WEBC WBEN Cocktail WSPD KLZ KFRC KDKA CKGW WTAG CKGW WHO WOAI WMC WJAR WCAE WSMAP KSLC of 10:00) ur WHAM WRVA WSVA WSVA WSVA WURC WLBW WHK	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW KSTP WSB WTAG WSAI WTMJ WHO KGO WWJ KDKA WJR	WNAC WADC WADC WADC WADC WADC WADD KOL KYW WHAM WLIT WIAX KHQ WWJ KFI WCSH WGN KSTP WGN KSTP WGN KSTP WSB KGW WTAM WREN KWK
Wednesday Wednesday Widnesday Widn	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WHLAS WFLA WFI KKSTP WHO KTHS WDAC WBRC WDAY KTRB WBRC WBRC WBRC WBRC WBRC WBRC WBRC WHO WBRC WBRC WHO WBRC WBRC WHO WBRC WHO	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WSUN WGY WRVA WBAP WNAC WCAO WYYZ WISN KOIL KLZ WTAQ WCAO WDOD WMT KTSA WOC WOC WORC WCAO WXYZ WDAY	WEAF WRC KYOO KSU, WHO WHO S:30-9:00 TI WABC WFAN WHK KMOX KFPY WEAF WRC KOA WSAI WSMB KYW WBEN WEAF WIJ WEAF WIJ WEAF WIJ WEAF WIJ WSMB WYA WSAI WSMB WYA WSAI WSMB WYA WSAI WSMB WYA WSAI WSAI WSAI WSAI WSAI WSAI WSAI WSA	WEEI WSAI WFAA WGY WSOC WSUNKIN WCAU WCAU WCAU WCAU WCAU WKRC KMBC KOIN WKRC KMBC KOIN WREI WGY KSI WGY KSI WGY KSI WGY KSI WHAM Almolive WEEI WGY WBEN WOC WSMI KHQ WBEN WOC WSMI KHQ WBEN WBAI WGY WBAI WCC WSMI WHOEI WGY WSAI WHOO WWOAI WHOO WBU WOO WSAI WHOO WBEN WHOO WBEN WBJ WSPO WCAU WCGO WCCO	WJAR KSD WOAI WOAI WWJ MUSICS! WWJAS WYAYZ KOIL KHJ Iodies WKYZ KOIL KHJ Iodies WKYZ KOIL KHJ WOAE WGAE WOAE WOAE WOO WOA WOA WOA WOA WOA WOA WOA WOA WOA	WTAG WOW WKY WEBC WEBEN Cocktail WSPD KLZ KFRC KCKGW WTAG CKGW WTAG CKGW WHO WJAR WSMB WDAF KSL KPRC Of 10:00) ur WHAM WRVA WSUN WDAF WSUN WDAC WLBW WHAG WLBW WHAG WSUN	WCSH WTAM KPRC WDAF WDRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WOW WSB WTAG WSAI WTMJ WHO KGO WWJ WHO KGO WWJ WHO KGO WWJ WHO WWJ WHO WWJ WHO WWJ WHO WOWN WOWN WOWN WOWN WOWN WOWN WOWN	WNAC WADC WJD KOL KYW WHAM WLIT WJAX KHQ WWJ WTMJ KFI WCSH WGN KSTP WSB KGW WTAM WREN KWK
WEAF WFT KOA WRC WHO WOW WJDX KSD Wednesday 3:00-3:15 Edna Wallace Hopper WJZ WBZ WBZA WBAL WGAR WLW WGN KWK WJDX KOA KSTP WEBC WJAX WIOD WFLA WSUN WMC WSB WSMB KSL KGW KOMO KHQ Stars WEAF WEEI WJAX WIOD WRC KPRC KYW WMC WOAI WJDX WSB WSMB WTAG KOA KGO WFJC WFRC WBEN KSL 4:00-5:00 Musical Album WABC WKBW WGR WABC WKBW WGR WABC WHEW WAIU WBCM WSPD WREC WLAC WBBM WCCO KSCJ KMOX WIBW KFJF KRLD KTRH WABC WHEC WFAN WHP WTAR WAIU WWNC WXYZ WREC WLAC WBRC WFAN WABC WHEC WFAN WHP WTAR WAIU WWNC WXYZ WREC WLAC WBRC WCOO WDAY KFH KFJF KRLD T:00-7:15 Rodeheaver Sing WEAF WJAR WFI WBC WABC WHEC WLBZ WCAU WHP WTAR WAIU WNC WXYZ WREC WLAC WBRC WCOO WDAY KFH KFJF KRLD T:00-7:30 Morton Downey WITH Fred WABC WHEC WBC WABC WHEC WBC WABC WBCW WEEI T:00-7:45 Evangeline Adama, Astrologer WABC WFJF KTRH KOL T:30-7:45 Evangeline Adama, Astrologer WABC WFJF WHEC WGR	WHAM WREN WRVA WHAS KGO WAPI WHAS WAPI WFLA WFI KSTP WHO KTHS WDAY KTSA CFRB WLBW WBCM WBCM WBCM WBCM WBCM WBCM WBCM WB	KDKA WTMJ WPTF WSM KECA KFSD WSM WKY WSUN WGY WEVA WBAP WNAC WCAO WYYZ WISN KOIL KLZ WCAO WTAQ WTAQ WCAO WTAQ WCAO WDODD WMT KTSA WOC WORC WCAO WXYZ WDAY	WEAF WRC KYOO KSL WHO SI-09-9:00 VI WABC WFAN WFAN WFAN WFAN WS-09-9:00 VI WWEAF WRC KOA WSAI WSMB KYW WBEN WSAI WSMB KYW WBEN WBEN WBAF WLIT KSD WHAS WHAS WHAS WODD 9:30-10:00 C WLW WIGOD 9:30-10:00 C WLW WFBM KFH WGED WHAR WFEM	WEEI WSAI WFAA WGY WSAI WFAL WCAU WCAU WCAU WKRC KMBC KMBC KMBC KMBC WREN WREN WREN WREN WREN WGY KSL KYOO WHAN WOAI KHQ WBEN WOAI WHE WBEI WGY KSL KYOO WHAN WOAI KHQ WBEN WOAI WHE WBEI WGY KSL KYD WOAI WHE WBE WBE WOO WHAM WOAI WHE WBE WOO WHAM WOAI WHE WHO WOAI WHE WBE WOO WHAM WOAI WHE WOO WHAM WOAI WHE WBE WOO WHAM WOAI WHE WOO WHAM WOAI WHE WHE WHA WOA WHE WHA WHE WHA WHE WHA WHE WHA WHE WHA WHA WHE WHA WHA WHE WHA	WJAR KSD WOAI WGN WOAI WWJ MUSICS WWJAS WGR WJAS WXYZ KOIL KHJ lodies WXYZ KOIL KFAB WYAE WOC KPRC WGV WMOC KPRC WGW WMOC WFAA WFAA WFAA WFAA WSJS WFLA abians WEAN WJAS WFAA WJAS WEAN WJAS WFAA KKSCJ KTSA	WTAG WOW WKY WEBC WBEN Cocktail WEAN WMAI WSPD KLZ KFRC KCKGW WTAG CKGW WHO WOAI WHO WJAR WCAM WSUN WJAR WSUN WOAF WSUN WHAM WSUN WDAF WLSW WHAM WSUN WHAM WSUN	WCSH WTAM KPRC WCAO WOWO KDYL WLW CFCF WCSH WRVA KOMO WSTP WSB WTAG WSAI WHO KGO WWJ KDKA WMAC WMAL WISN WNAC WMAL WISN WNAX KOL	WNAC WADC WADC WADC WADC WADC WADC WADC WA

10:00-10:30 WABC WPG_	Columbia	Experim	ental Lak WDRC WLBW	WNAC	WORC
WABC	WEDW	WEAN	WIRW	WMAI.	WCAO
WTAR	WDBJ	WADC	WHK	WBT	WCAO WXYZ
WBCM	WSPD	WLAC	WISN	WERM	KSCI
KWOX	WDAY	WNAX	KOIL	WFBM KFJF	KTSA
KMOX KTRH	KLZ	KOL	KFPY	CFRB	KSCJ KTSA WTAQ
10:30-11:00	Columbia	Concerta			
WABC	WHEC	WLBZ	WEAN	WNAC WCAO WSPD WMT	WORC
	WJAS	WLBW	WMAL	WCAO	WORC WTAR
WDBJ	WJAS WWNC	WLBW WXYZ	WMAL WBCM	WSPD	WDOD
WFBM	WMAQ	WCCO	KSCJ	WMT	KMOX
KMBC	WDAY	WNAX	WIBW	KFJF	KTRH
KTSA	KLZ	KOL	CFRB		
10:30-11:00	Coca Cola	Program WTIC	n		
WEAF	WEEI	WTĪC	WJAR	WTAG	\mathbf{wcsh}
$\mathbf{w}_{\mathbf{LIT}}$	WRC	WCAE	WSAI	WOC	WEBC
WKY WIOD	KYW WSM	KSD	WSAI WRVA KTHS	KSTP	WEBC WJAX WOAI
\mathbf{wiod}	\mathbf{WSM}	WSMB	KTHS	KPRC	WOAI
KOA	KSL_{-}	KGO	KECA	KGW	KHQ
KOMO	WJDX	WGY	WDAF	WHAS	WTAM WWJ
WHO WAPI	wow_	KFSD	WMC	\mathbf{wsb}	WWJ
WAPI	WBEN				
11:00-11:30	Guy Lom WHEC WCAU WWNC	bardo an	d His Ore	hestra	WODG
WABC	WHEC	WLBZ	WEAN	WNAU	WORC WDBJ
WPG	WCAU	MTRM	WCAO WBCM	WIAK	WDOD
WHK	WWNC	WXYZ	WBCM	WMT	MNOA
WREC	WCAU WWNC WFBM WDAY	WCCO	KSCJ	WIBW	KMOX
KMBC	WDAY	WNAX	KOIL		KFH
KFJF	KTRH	KLZ	KOL His Ord	CFRB	
11:00-11:30 WEAF WOW	Vincent L	opez and WSUN	WRC	WCAE	KSD
WEAF	WFLA WJDX	WGY	WLIT	WWI	WTAM
WOW	MOM	WOC	WHO	(WWJ WDAF	on 11:15)
11:30-12:00	(WSM	- and Hi	s Biltmor	a Orchan	
WABC	Bert Low WKBW	n and Hi WEAN	WDRC	e Orches WNAC	WORC
WCAU	WLBW	WCAO	WTAR	WDBJ	WKBN
WBT	WXYZ	WBCM	WSPD	WREC	WLAC
WBRC	WISN	WFRM	WSPD WCCO	WREC KSCJ KTRH	WKBN WLAC WNAX
KOIL	WIBW	KFH	KFJF	KTRH	KLZ
WTAQ	" 12				
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		[hur	saay		
10:00-10:15	Ceresota	L MUF: Program	saay		
10:00-10:15 WEAF	Ceresota WJAR	Program WTAG	WCSH	WFI	WRC
10:00-10:15 WEAF WGY	Ceresota WJAR WCAE	Program WTAG WWJ	WCSH WSAI	WFI KYW	WRC KSTP
WGY WRVA	Ceresota WJAR WCAE WTAM	Program WTAG WWJ WREN	WCSH WSAI WOC	WFI KYW WHO	WRC KSTP
WGY WRVA 11:30-11:45	Ceresota WJAR WCAE WTAM	Program WTAG WWJ WREN	WCSH WSAI WOC	KYW WHO	KSTP
WGY WRVA 11:30-11:45 WJZ	Ceresota WJAR WCAE WTAM Odorono WHAM	Program WTAG WWJ WBEN Cutex Pr KDKA	WCSH WSAI WOC rogram KWK	KYW WHO WREN	KSTP WLW
WGY WRVA 11:30-11:45 WJZ WIBO	Ceresota WJAR WCAE WTAM Odorono WHAM KPRC	Program WTAG WWJ WBEN Cutex Pr KDKA WKY	WCSH WSAI WOC	KYW WHO	KSTP
WGY WRVA 11:30-11:45 WJZ WIBO	Ceresota WJAR WCAE WTAM Odorono WHAM KPRC	Program WTAG WWJ WBEN Cutex Pr KDKA WKY	WCSH WSAI WOC rogram KWK	KYW WHO WREN	KSTP WLW
WGY WRVA 11:30-11:45 WJZ WIBO	Ceresota WJAR WCAE WTAM Odorono WHAM KPRC	Program WTAG WWJ WBEN Cutex Pr KDKA WKY	WCSH WSAI WOC rogram KWK WOAI	KYW WHO WREN WBZ	WLW WBZA
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 CI	Ceresota WJAR WCAE WT'AM Odorono WHAM KPRC WJR hicago Sei	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA renade WJR	WCSH WSAI WOC rogram KWK WOAI	KYW WHO WREN WBZ	WLW WBZA KOA
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 CI WJZ WLW	Ceresota WJAR WCAE WTAM Odorono WHAM KPRC	Program WTAG WWJ WBEN Cutex Pr KDKA WKY	WCSH WSAI WOC rogram KWK WOAI	KYW WHO WREN WBZ	WLW WBZA
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 CI WJZ WLW CKGW	Ceresota WJAR WCAE WT'AM Odorono WHAM KPRC WJR hicago Ser KDKA WSM	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA renade WJR WMC	WCSH WSAI WOC rogram KWK WOAI	KYW WHO WREN WBZ	WLW WBZA KOA
WGY WRVA 11:30-11:45 WJZ WIBO 8:30-3:45 CI WJZ WLW CKGW 4:30-5:00 U	Ceresota WJAR WCAE WT'AM Odorono WHAM KPRC WJR hicago Ser KDKA WSM	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA renade WJR WMC	WCSH WSAI WOC rogram KWK WOAI WREN WAPI	WREN WBZ KFAB WFLA	WLW WBZA KOA WSUN
WGY WRVA 11:30-11:45 WJZ WIBO 8:00-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ	Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WHY WFAA WHY WHAA WHO WHA WHO WHA WHO WHA WHO WHA WHO WHA WHA WHA WHA WHA WHA WHA	WCSH WSAI WOC rogram KWK WOAI	KYW WHO WREN WBZ	WLW WBZA KOA
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 CI WJZ WLW CKGW 4:30-5:00 U WJZ WSM	Ceresota WJAR WCAE WT'AM Odorono WHAM KPRC WJR hicago Ser KDKA WSM S. Army WLW KSTP	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA renade WJR WMC Band KWK	WCSH WSAI WOC regram KWK WOAI WREN WAPI	WREN WBZ KFAB WFLA	WLW WBZA KOA WSUN
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ WSM 5:30-5:45 R	Ceresota WJAR WCAE WT'AM Odorono WHAM KPRC WJR hicago Ser KDKA WSM S. Army WLW KSTP	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA renade WJR WMC Band KWK	WCSH WSAI WOC regram KWK WOAI WREN WAPI	WHO WREN WBZ KFAB WFLA KFAB	WLW WBZA KOA WSUN
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ WSM 5:30-5:45 R	Ceresota WJAR WCAE WT'AM Odorono WHAM KPRC WJR hicago Ser KDKA WSM S. Army WLW KSTP	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA renade WJR WMC Band KWK	WCSH WSAI WOC FOGRAM KWK WOAI WREN WAPI WREN	WHO WREN WBZ KFAB WFLA KFAB	WLW WBZA KOA WSUN WJAX
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW WLW WLW WSM 5:30-5:45 R WRC KSD	Ceresota WJAR WCAE WTAM Odorono WHAM KPRC WJR hKDKA WSM S. Army WLW KUW KUW KUW KUW KUW KUW KUW KUW KUW KU	Program WTAG WWJ WBEN Cutex P KDKA WKY WFAA enade WJR WMC Band KWK WSMB WTIC WBEN WHO	WCSH WSAI WOC FORTAM KWK WOAI WREN WAPI WREN WTAG WCAE	WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW	WLW WBZA KOA WSUN WJAX WLIT
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW WLW WLW WSM 5:30-5:45 R WRC KSD	Ceresota WJAR WCAE WTAM Odorono- WHAM KPRC WJR hicago Set KDKA WSM S. Army WLW KSTP inso Talki WEEI WGY WOCK Idl. Wook	Program WTAG WWJ WBEN Cutex P KDKA WKY WFAA enade WJR WMC Band KWK WSMB WTIC WBEN WHO	WCSH WSAI WOC FORTAM KWK WOAI WREN WAPI WREN WTAG WCAE	WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW	WLW WBZA KOA WSUN WJAX WLIT WWJ
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WJZ WLW CKGW 4:30-5:00 U WJZ WSM 5:30-5:45 R WRC KSD 7:00-7:30 M WEAF	Ceresota WJAR WCAE WTAM Odorono- WHAM KPRC WJR KDKA WSM S. Army WLW KSTP inse Talki WEEI WGY WOC lid-Week	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA WKY WFAG WJR WMC Band KWK WSMB WTIC WBEN WHO Federati WIBO	WCSH WSAI WOC FORTAM KWK WOAI WREN WAPI WREN WTAG WCAE	WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW	WLW WBZA KOA WSUN WJAX WLIT
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WJZ WLW CKGW 4:30-5:00 U WJZ WSM 5:30-5:45 R WRC KSD 7:00-7:30 M WEAF	Ceresota WJAR WCAE WTAM Odorono- WHAM KPRC WJR KDKA WSM S. Army WLW KSTP inse Talki WEEI WGY WOC lid-Week	Program WTAG WWJ WBEN Cutex P KDKA WKY WFAA enade WJR WMC Band KWK WSMB WTIC WBEN WHO	WCSH WSAI WOC FORTAM KWK WOAI WREN WAPI WREN WTAG WCAE	WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW	WLW WBZA KOA WSUN WJAX WLIT WWJ
WGY WRVA 11:30-11:45 WJZ WIBO KYOO 3:30-3:45 Cl WJZ WJZ WSM 4:30-5:00 W WSM WSM 5:30-5:45 R WEAF WRC KSD 7:00-7:30 M WHO 7:30-7:45 Si	Ceresota WJAR WCAE WTAM Odorono- WHAM KPRC WJR WJR WJR WJR WSM S. Army WLW WSTP inso Talk WEEI WGY WOC lid-Week WMC KOA Mority	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA enade WJR WMC Band KWK WSMB WTIC WBEN WHO Federati WIBO WBEN	WCSH WSAI WOC FORTAM KWK WOAI WREN WAPI WTAG WCAE WSAI on Hymn	KYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS	WLW WBZA KOA WSUN WJAX WLIT WWJ
WGY WRVA 11:30-11:45 WJZ WIBO KYOO 3:30-3:45 Cl WJZ WJZ WSM 4:30-5:00 W WSM WSM 5:30-5:45 R WEAF WRC KSD 7:00-7:30 M WHO 7:30-7:45 Si	Ceresota WJAR WCAE WTAM Odorono- WHAM KPRC WJR WJR WJR WJR WSM S. Army WLW WSTP inso Talk WEEI WGY WOC lid-Week WMC KOA Mority	Program WTAG WWJ WBEN Cattex P KDKA WKY WFAA enade WJR WMC Band KWK WSMB e WTIC WBEN WHO Federati WIBO WBEN Orchestry	WCSH WSAI WOC FORTAM KWK WOAI WREN WAPI WTAG WCAE WSAI on Hymn	KYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS	WLW WBZA KOA WSUN WJAX WLIT WWJ
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ WSM 5:30-5:45 R WEAF WRC KSD 7:00-7:30 M WEAF WHO 7:30-7:45 Sl WEAN WEAW	Ceresota WJAR WJAR WCAE WTAM Odorono- WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW KSTP inse Talki WEEI WGY WOC lid-Week WMC KOA . Moritz WDRC WKBR	Program WTAG WWJ WBEN Cutex Pr KDKA WKY WFAA WKY WFAA enade WJR WMC Band KWK WSMB WTIC WBEN WHO Federati WIBO Orchestra WHP	WCSH WSAI WOC FORTAM KWK WOAI WREN WAPI WTAG WCAE WSAI on Hymn	KYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS	WLW WBZA KOA WSUN WJAX WLIT WWJ WOC
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ WSM 5:30-5:45 R WEAF WRC KSD 7:00-7:30 M WEAF WHO 7:30-7:45 Sl WEAN WEAW	Ceresota WJAR WJAR WCAE WTAM Odorono- WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW KSTP inse Talki WEEI WGY WOC lid-Week WMC KOA . Moritz WDRC WKBR	Program WTAG WWJ WBEN Cutex P KDKA WKY WFAA WHAC WHAC WHAC WHAC WHO Federati WHD WHO Federati WHD WHEN Orchestro WHP WHT WHP WHT WHP WHT WHP WHT WHP WHT WHP	WCSH WSAI WOC FOGRAM KWK WOAI WREN WAPI WREN WTAG WCAE WSAI On Hymn WWJ WJAS WXYZ WFBM	WYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC	WLW WBZA KOA WSUN WJAX WLIT WWJ WOC WMAL WBCM KSCJ
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW WSM 4:30-5:00 U WSM 5:30-5:45 K WEAF WRC KSD 7:00-7:30 M WEAF WHO 7:30-7:45 Si WEAN WEAN WEAN WEAN	Ceresota WJAR WJAR WCAE WTAM Odorono- WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW KSTP inse Talki WEEI WGY WOC lid-Week WMC KOA . Moritz WDRC WKBR	Program WTAG WWJAG WWJ WBEN Cutex P KDKA WKY WFAA WKY WFAA WMC Band KWK WMC WHO Federati WIBO Orchestr WHE WBT WBT WSN	WCSH WSAI WOC FOGRAM KWK WOAI WREN WAPI WREN WTAG WCAE WSAI On Hymn WWJ WJAS WXYZ WFBM	KYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS	WLW WBZA KOA WSUN WJAX WLIT WWJ WOC
WGY WRVA 11:30-11:45 WJZ WIBO KYOO 3:30-3:45 Cl WJZ CKGW WJZ WSM WSM 5:30-5:45 R WRC KSD 7:00-7:30 M WHO 7:30-7:45 St WEAF WHO 7:30-7:45 St WEAF WHO 7:30-7:45 St WEAF WEAF WEAF WEAF WEAF WEAF WEAF WEAF	Ceresota WJAR WJAR WCAE WTAM Odorono- WHAM KPRC WJR Nicago Sei KDKA WSM S. Army WLW KSTP inse Talk WEEI WGY WOC kid-Week WMC KOA Moritz WDRC WKBR WBRC WKBN WBRC WKPAY	Program WTAG WWJ WBEN Cutex P KDKA WKY WFAA WKY WFAA WMC Band KWK WSMB WTIC WBEN WHO Federati WIBO WIBO WChestry WISN WNAX	WCSH WSAI WOC FOGRAM KWK WOAI WREN WAPI WREN WTAG WCAE WSAI On Hymn WWJ WJAS WXYZ WFBM	WYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC	WLW WBZA KOA WSUN WJAX WLIT WWJ WOC WMAL WBCM KSCJ
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ WSM WEAF WRC T:00-7:30 WEAF WHO 7:30-7:45 Sk WEAN WDBJ WLAN WDBJ WLAN WDBJ WLAN WDBJ WLAN WDBJ WLAN WOBJ WLAN WOBJ WLAN WOBJ WLAN WOBJ WLAN WOBJ WLAN WOBJ WLAN WOBJ WLAN WAN WOBJ WLAN WAN WEAF WHO 7:30-45 KNO WEAF WHO 7:30-7:45 Sk WEAF WHO 7:30-7:45 Sk WHO 7:30-7:45 Sk WHO 7:45 Sk WHO 7:45 Sk WHO 7:45 Sk WHO 7:45 Sk WHO 7:45 Sk WHO 7:45 Sk WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO	Ceresota WJAR WJAR WCAE WTAM Odorono- WHAM KPRC WJR hicago Sta KDKA WSM S. Army WLW KSTP inse Talki WEEI WGY WOC lid-Week WMC KOA Moritz WDRC WKBN WBRC WDRY KFPI KINGT WBRY KFPI KINGT	Program WTAG WWJAG WWJ WBEN Cutex P KDKA WKY WFAA enade WJR WMC Band KWK WSMB e WTIC WBEN WHO Federati WIBO Orchestra WHP WBT WISN WNAX KFRC ve Footin	WCSH WSAI WOC Fogram KWK WOAI WREN WAPI WTAG WCAE WSAI WSAI WSAI WSAI WSAI WSAI WSAI WSAI	WYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF	WLW WBZA KOA WSUN WJAX WLIT WWJ WOC WMAL WBCM KSCJ KTRH
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WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW WSM 5:30-5:45 R WEAF WRC KSD 7:00-7:30 M WEAF WHO 7:30-7:45 Si WEAN WEAN WDBJ WLAC KWOX KVI 7:45-8:00 F WJZ WHAS	Ceresota WJAR WJAR WCAE WTAM Odorono WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW WEEI WGY WOC Gid-Week WMC KOA Moritz WDAY KFPY riendly Fi WBZ WSM WRVM	Program WTAG WWJAG WWJ WBEN Cutex P KDKA WKY WFAA WKY WFAA WMC Band KWK WSMB WTIC WBEN WHO Federati WIBO Orchestr WHEN WHEN WHEN WHEN WHEN WHEN WHEN WHEN	WCSH WSAI WOC FOGRAM KWK WOAI WREN WAPI WTAG WCAE WSAI WSAI WYAS WXYZ WFBM KOIL OTES WREN WSB WYAS	KYW WHO WREN WEZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF KWK WAPI	WLW WBZA KOA WSUN WJAX WLIT WWJ WOC WMAL WBCM KSCJ KTRH KFAB WSMB WFLA
WGY WRVA 11:30-11:45 WJZ WIBO KYOO 3:30-3:45 Cl WJZ WJZ WSM 4:30-5:00 W WSM WSM WEAF WEAF WEAF WEAF WHO 7:30-7:30 M WEAF WHO 7:30-7:45 Si WEAS WHO 7:45-8:00 F.	Ceresota WJAR WJAR WCAE WTAM Odorono- WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW KSTP inse Talki WEEI WGY WOC lid-Week WMC KOA KOA WDRC WMBRC WKBN WBRC WKBN WBRC WKBY WBRC WKBY KFPY ciendly Fi WBZ WSM WRV KGO	Program WTAG WWJAG WWJ WBEN Cutex P KDKA WKYA WFAA WKYA WMC Band KWK WSMB WTIC WBEN WHO Federati WIBO WHO Orchestr WISN WHO WSN WHO WSN WNAX KFRC Ve Footn WBZA WMC WPTF KECA	WCSH WSAI WOC Orgram KWK WOAI WREN WREN WAPI WREN WSAI WJAS WXYZ WFBM KOIL	WYW WHEN WREN WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF KWK WAPI WIOD	WLW WBZA KOA WSUN WJAX WLIT WWJ WOC WMAL WBCM KSCJ KTRH KFAB WSMB WFLA
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ WSM WEAF WRC 7:00-7:30 WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:45 Si WEAF WHO 7:45 Si WEAF WHO 7:45 Si WEAF WHO 7:45 Si WEAF WHO 7:45 Si WEAF WHO 7:45 Si WEAF WHO 7:45 Si WEAF WHO 7:45 Si WEAF WHO 7:45 Si WHO 7:45 Si WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO 8 WHO	Ceresota WJAR WJAR WCAE WTAM Odorono WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW WEEI WGY WOC Gid-Week WMC KOA Moritz WDAY KFPY riendly Fi WBZ WSM WRVM	Program WTAG WWJAG WWJ WBEN Cutex P KDKA WKY WFAA WKY WFAA WMC Band KWK WSMB WTIC WBEN WHO Federati WIBO Orchestr WHEN WHEN WHEN WHEN WHEN WHEN WHEN WHEN	WCSH WSAI WOC FOGRAM KWK WOAI WREN WAPI WTAG WCAE WSAI WSAI WYAS WXYZ WFBM KOIL OTES WREN WSB WYAS	KYW WHO WREN WEZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF KWK WAPI	WLW WBZA KOA WSUN WJAX WLIT WOC WMAL WBCM KTRH KFAB WSMB
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ CKGW WJZ WSM 4:30-5:90 W WSM WSM 5:30-5:45 R WRC KSD 7:00-7:30 M WEAF WHO 7:30-7:45 Si WEAN WDBJ KMOX KVU 7:45-8:00 F WJZ WHAS WJDX WSM KFSD WGAR	Ceresota WJAR WCAE WTAM CONTROL WHAM KPRC WJR Nicago Set KDKA WSM S. Army WLW KSTP INST Talk WEEI WGY INST WEEI WGY WOC Idd-Week WMC KOA Moritz WDAY KFPY riendly Fi WBZ WSM WRVA KGO WBAL	Program WTAG WWJAG WWJ WBEN Cutex P KDKA WKY WFAA WKY WFAA WMC Band KWK WSMB WTIC WBEN WHO Federati WIBO WBEN Orchestra WHEN WHEN WHEN WHEN WHEN WHEN WHEN WHEN	WCSH WSAI WOC FOGRAM KWK WOAI WREN WAPI WTAG WCAE WSAI ON Hymn WWJ WJAS WXYZ WFBM KOIL Otes WREN WSB WJAS WKEN	WYW WHEN WREN WREN WFLA KFAB WJAR WYAR WYAR WHAS WLBW WREC KFJF KWK WAPI WIOD KHQ KOA	WLW WBZA KOA WSUN WJAX WLIT WWJ WOC WMAL WBCM KSCJ KTRH KFAB WSMB WFLA
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ WSM WEAF WRC T:00-7:30 WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:45-80 WAN WEAN WDBJ WLAN KYI 7:45-80 WSUN KYI 7:45-80 WSUN WSUN KSI WSUN KSI WSUN 8:40-40 WSUN 8:40-40 WSUN 8:40-	Ceresota WJAR WJAR WCAE WTAM Odorono- WHAM KPRC WJR bicago Selector KDKA WSM S. Army WLW KSTP inse Talki WEEI WGY WOC Lid-Week WMC KOA Moritz WDRC WKBN WBRC WDAY Kiendly Fi WBZ WSM WRVA KGO WBAL Leischman	Program WTAG WTAG WWJ WBEN Cutex P KDKA WKY WFAA enade WJR WMC Band KWK WSMB WTIC WBEN WHO WBEN WHO WBEN WHO WBEN WHO WBEN WHO WBEN WHO	WCSH WSAI WOC FOGRAM KWK WOAI WREN WAPI WTAG WCAE WSAI WSAI WSAI WSAI WFBM KOIL WES WJAX KOMO WJAX KOMO WJAX KOMO WJAX	WYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF KWK WAPI WIOD KHQ KOA	WLW WBZA KOA WSUN WJAX WLIT WOC WMAL WBCM KSCJ KTRH KFAB WSMB WFLA KTAR KSL
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ WSM WEAF WRC T:00-7:30 WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:45-80 WAN WEAN WDBJ WLAN KYI 7:45-80 WSUN KYI 7:45-80 WSUN WSUN KSI WSUN KSI WSUN 8:40-40 WSUN 8:40-40 WSUN 8:40-	Ceresota WJAR WCAE WTAM Odorono- WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW KSTP inse Talk WEEI WGY WCC lid-Week WMC KOA Moritz WDAY KFPY riendly Fi WBZ WSM WRC WDAY KFPY riendly Fi WBZ WSM WRC WBAL leischman WEEI	Program WTAG WWJ WBEN Cutex P KDKA WKY WFAA WKY WFAA WMC Band KWK WSMB WTIC WBEN WHO WBEN WHO WBEN Orchestra WHEN WHEN WHEN WHEN WHEN WHEN WHEN WHEN	WCSH WSAI WOC FOGRAM KWK WOAI WREN WAPI WTAG WCAE WSAI WSAI WSAI WSAI WFBM KOIL WES WJAX KOMO WJAX KOMO WJAX KOMO WJAX	WYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF KWK WAPI WIOD KHQ KOA	WLW WBZA KOA WSUN WJAX WLIT WOC WMAL WBCM KSCJ KTRH KFAB WSMB WFLA KTAR KSL
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ CKGW WJZ WSM WEAF WRC 7:30-7:30 WEAF WHO 7:30-7:45 St WEAN WDBJ WLAC KMOX KVI 7:45-8:00 F, WJZ WHAS WJZ WHAS WJZ WHAS WEAF WHO 7:45-8:00 F, WJZ WHAS WJZ WHAS WJZ WHAS WJZ WHAS WJZ WHAS WJZ WHAS WJZ WJZ WHAS WJZ WHAS WJZ WHAS WJZ WJZ WHAS WJZ WJZ WHAS WJZ WJZ WJZ WJZ WJZ WHAS WJZ WJZ WJZ WJZ WJZ WHAS WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ	Ceresota WJAR WCAE WTAM Odorono- WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW KSTP inse Talk WEEI WGY WCC lid-Week WMC KOA Moritz WDAY KFPY riendly Fi WBZ WSM WRC WDAY KFPY riendly Fi WBZ WSM WRC WBAL leischman WEEI	Program WTAG WWJ WBEN Cutex P KDKA WKY WFAA WKY WFAA WMC Band KWK WSMB WTIC WBEN WHO WBEN WHO WBEN Orchestra WHEN WHEN WHEN WHEN WHEN WHEN WHEN WHEN	WCSH WSAI WOC Fogram KWK WOAI WREN WREN WTAG WCAE WSAI ON Hymn WJ WJAS WXYZ WFBM KOIL ONES WESE WREN WSB WJAX WOO WIBO	WYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF KWK WAPI WIOD KHQ KOA	WLW WBZA KOA WSUN WJAX WLIT WOC WMAL WBCM KSCJ KTRH KFAB WSMB WFLA KTAR KSL
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ CKGW WJZ WSM WEAF WRC 7:30-7:30 WEAF WHO 7:30-7:45 St WEAN WDBJ WLAC KMOX KVI 7:45-8:00 F, WJZ WHAS WJZ WHAS WJZ WHAS WEAF WHO 7:45-8:00 F, WJZ WHAS WJZ WHAS WJZ WHAS WJZ WHAS WJZ WHAS WJZ WHAS WJZ WJZ WHAS WJZ WHAS WJZ WHAS WJZ WJZ WHAS WJZ WJZ WHAS WJZ WJZ WJZ WJZ WJZ WHAS WJZ WJZ WJZ WJZ WJZ WHAS WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ WJZ	Ceresota WJAR WJAR WCAE WTAM Odorono- WHAM KPRC hicago Sei KDKA WSM S. Army WLW WEI WGY WOC lid-Week WMC KOA Moritz WDRC WKBN WBRC WDRY KFPY riendly Fi WBZ WSM WRV KGO WEEI WGSH WCSH	Program WTAG WTAG WWJA WWJC WFAA WKY WFAA WMC Band KWK WMC WSMB WTIC WBEN WHO Federati WIBO Orchestr WHE WBT WHE	WCSH WSAI WOC Fogram KWK WOAI WREN WAPI WTAG WCAE WSAI WSAI WSAI WSAI WSAI WSAI WSAI WSAI	WYW WHO WREN WREN WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF KWK WAPI WIOD KHQ KOA allee WIOD WGYA	WLW WBZA KOA WSUN WJAX WLIT WOC WMAL WBCM KSCJ KTRH KFAB WSMB WFLA KTAR KSL WJDX WCAE KTAR
WGY WRVA 11:30-11:45 WJZ WIBO KVOO 3:30-3:45 Cl WJZ WLW CKGW 4:30-5:00 U WJZ WSM WEAF WRC T:00-7:30 WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:30-7:45 Si WEAF WHO 7:45-80 WAN WEAN WDBJ WLAN KYI 7:45-80 WSUN KYI 7:45-80 WSUN WSUN KSI WSUN KSI WSUN 8:40-40 WSUN 8:40-40 WSUN 8:40-	Ceresota WJAR WCAE WTAM Odorono- WHAM KPRC WJR hicago Sei KDKA WSM S. Army WLW KSTP inse Talk WEEI WGY WCC lid-Week WMC KOA Moritz WDAY KFPY riendly Fi WBZ WSM WRC WDAY KFPY riendly Fi WBZ WSM WRC WBAL leischman WEEI	Program WTAG WWJ WBEN Cutex P KDKA WKY WFAA WKY WFAA WMC Band KWK WSMB WTIC WBEN WHO WBEN WHO WBEN Orchestra WHEN WHEN WHEN WHEN WHEN WHEN WHEN WHEN	WCSH WSAI WOC Fogram KWK WOAI WREN WREN WTAG WCAE WSAI ON Hymn WJ WJAS WXYZ WFBM KOIL ONES WESE WREN WSB WJAX WOO WIBO	WYW WHO WREN WBZ KFAB WFLA KFAB WJAR WTAM KYW Sing WHAS WLBW WREC WGL KFJF KWK WAPI WIOD KHQ KOA	WLW WBZA KOA WSUN WJAX WLIT WOC WMAL WBCM KSCJ KTRH KFAB WSMB WFLA KTAR KSL

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KOMO WOAI WSM WOC WAPI
            KGO KHQ KECA KSD CKGW WTAM
KGW KSTP WGN KPRC WBEN (WTMJ
KTHS WSAI WBAP WKY of 8:30)
 8:15-8:30 Barbasol Program
WABC WFBL WKBW WEAN WDRC WNAC
WCAU WJAS WMAL WCAO WADC WKRC
WXYZ WSPD WISN WFBM WJJD WCCO
               KMOX KMBC KOIL
   8:30-8:45 Kaltenborn Edits the News
             WABC WFBL WGR WEAN WDRC WNAC
WORC WCAU WJAS WMAL WCAO WADC
WHK WKRC WXYZ WSPD WOWO WMAQ
               WCCO KMOX KMBC KOIL
 8:45-9:00 The Hamilton Watchman
WABC WFBL WGR WEAN WNAC WCAU
WJAS WLBW WMAL WCAO WADC WHK
               WKRC WXYZ WSPD WOWO WJJD KMOX
               KMBC KOIL
  9:00-9:15 Lee Morse
             WABC WKBW WEAN WDRC WORC WNAC WPG WCAU WHP WJAS WLBW WMAL WCAO WTAR WDBJ WADC WHK WKBN
            WBT WDAE WXZ WBCM WSPD WEEC
WLAC WBRC WISN KSCJ WDAY WNAX
KOIL WBW KFH KFJF KRLD KTSA
KIZ KOL KFPY KHJ
  9:00-9:30 Blackstone Plantation
               WJZ WBZ WBZA WBAL KDKA WCKY
               WHAM
| WHAM | 9:00-9:30 Arco Birthday Party | WEAF | WEEI | WJAR | WTAG | WCSH | WFI | CKGW | WRO | WGY | WSB | WSM | WIOD | WIOD | WST |
               KECA KOMO KHQ KGW WAPI WTAM
               WBEN
  9:15-9:30 Old Gold Character Readings
              WABC WFBL WHEC WGR WLBZ WEAN WDRC WNAC WORC WPG WCAU WHP
            WDRC WNAC WORC WPG WCAU WHP WIAS WLBW WCAO WTAR WDBJ WADC WWKK WKRC WAIU WKBN WWNC WBT WGST WTOC WQAM WDBO WDAE WXYZ WBCM WSPD WDOD WREC WLAC WBRC WDSU WISN WOWO WFBM WBBM WCCO KSCJ WMT KMOX KMBC KLRA WDAY WNAX KOIL WIBW KPH KFJF KRLD KYIS KOL KFPY KOIN KHI KFRC
              KTSA KLZ KDYL
KOIN KHJ KFRC
 9:30-10:00 Jack Frost's Melody Moments
WEAF WJAR WWJ WTAG WCSH WFI
WRC WCAE WSAI WTAM WIBO WGY
WBEN
  9:30-10:00 Detective Story Magazine
WABC WFBL WKBW WEAN WDRC WNAC
WCAU WJAS WMAL WCAO WADC WHK
WKRC WXYZ WSPD WOWO WBBM KMOX
               KMBC KOIL
  9:30-10:00 Maxwell House Ensemble
             WIZ WBZ WBZA WBAL WLW KSTP
WKY WTMJ WEBC WHAS WSM WJAX
KPRC KOA WRVA WSB WBAP KYW
KWK WREN WIOD WIR WSMB WOAL
               KECA KGW KOMO KHQ
                                                                                                         WAPI WMC
               WHAM KDKA KSL KGO
  10:00-10:30 The Lutheran Hour
WABC WFBL WKBW WEAN WDRC WNAC
WCAU WJAS WMAL WCAO WADC WHK
              WKRC WXYZ WSPD WDSU WOWO WBBM
WCCO WMT KMOX KMBC WNAX KOIL
KRLD KLZ KDYL KOL KFPY KOIN
               KHJ
                                    KFRC
  10:00-11:00 Lucky Strike Dance Orchestra
WEAF WEEI WJAR WTAG WCSH WFI
               WRC WGY WCAE WWJ WSAI WBEN
KSD WOW WKY WOAI KOA KSL
             WTMJ WIOD WHAS WSM WMC WSMB KYW KYOO WDAF WJAX KPRC WEBC WRVA WFLA WSUN WSB WFAA KFSD
                                                          KĞW
(WOC
               KTAR (KGO
                                                                              KFI KOMO KHQ
WHO KTHS on 10:30)
               off 10:30)
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10:30-11:00 Toscha Seidel and Concert Orchest WABC WFBL WKBW WEAN WDRC WORC WFAN WHP WJAS WLBW	ra	9:00-9:30 Interwoven Pair
WABC WFBL WKBW WEAN WDRO	WNAC	WJZ WHAM WMC KDKA WJAX WKY
WORC WEAN WHP WJAS WLBW	WMAL	WREN KPRC KWK WBZ WBZA KGW
WOAO WTAR WIBJ WADS WHK WBT WXYZ WBCM WSPD WLAC WISN WOWO KSCJ KMOX WDAY KOIL WIBW KFJF KRLD KTRH	WKBN	WSMB WIOD WFAA WJR WTMJ KSTP WHAS KYW WEBC WCKY WSM WRVA
WBT WXYZ WBCM WSPD WLAC	WBRC	WHAS KYW WEBC WCKY WSM WRVA
WISN WOWO KSCJ KMOX WDAY	WNAX	WSB WAPI WOAI KOA KSL KGO
KOIL WIBW KFJF KRLD KTRH	KTSA	KECA KGW KOMO KHQ KFSD KTAR
		WJR WGAR
11:00-11:30 Florence Richardson's Orchestra WEAF WCAE WFI (WWJ WSAI (KSD WOW WSM WSMB on 11:15		9:00-10:00 True Story Hour WABC WFBL WKBW WEAN WDRC WNAC WCAU WJAS WMAL WCAO WADC WHK
WEAF WCAE WFI (WWJ WSAI	of 11:15)	WABC WFBL WKBW WEAN WDRC WNAC
(KSD WOW WSM WSMB on 11:15) (WOC	WCAU WJAS WMAL WCAO WADC WHK
WH() on 11:05-11:15)		WKRC WXYZ WSPD WOWO WMAQ KMOX KMBC KOIL
11:00-11:30 Ben Bernie and His Orchestra WABC WHEC WLBZ WEAN WNAC WCAU WHP WLBW WMAL WCAO WDBJ WWNC WXYZ WBCM WSPD		KMBC KOIL
WABC WHEC WLBZ WEAN WNAC	WORC	9:30-9:45 Enna Jettick Songhird
WCAU WHP WLBW WMAL WCAO	WTAR	WEAF WEEL WJAR WTAG WCSH WRC
WDBJ WWNC WXYZ WBCM WSPD	WDOD	WLIT WGY WBEN WCAE WWJ WSAI
WREC WLAC WBRC WFBM WCCO	W M T	WENR KSD WOC WHO WOW WDAF
WREC WLAC WBRC WFBM WCCO KMOX KMBC WDAY WNAX KOIL KFH KFJF KTRH KTSA KLZ	MIRM	CKGW WTAM CFCF
KFH KFJF KTRH KTSA KLZ	KOL	WLIT WGY WBEN WCAE WWJ WSAI WENR KSD WCC WHO WOW WDAF CKGW WTAM CFCF 9:30-10:00 Armour Program WJZ WBZ WBZA WJR KYW WREN KSTP WERC WRVA WMC WSB WGAR
CFRB		WJZ WBZ WBZA WJR KYW WREN KSTP WEBC WRVA WMC WSB WGAR
11:30-12:00 Cab Calloway and His Orchestra WEAF WWJ WOW WFI KSD WJDX WDAF WTAM WOC WHO	TZCIMD	
WEAF WWJ WOW WFI KSD	KSTP WIBO	WOAI KOA KSL KGO WKY WHAS KGW KHQ KOMO KDKA WJAX WJDX
WJDX WDAF WTAM WOC WHO	WIRO	KGW KHQ KOMO KDKA WJAX WJDX WIOD WTMJ WAPI WHAM KWK WSM
Friday		
4:10-4:45 Dancing Melodies		WLW WSMB KFI
WEAF WTAG WCAE WEIC WTAM	ww.i	WEAR WEST WILL WAVE WOOD WOOD
4:10-4:45 Dancing Melodies WEAF WTAG WCAE WFJC WTAM WOC WHO WOW WDAF WBEN 5:04.5-145 Light Opera Genra		WILL MGA MBEN MAY AND MUCH
		MHU MDYE MCYE MAYM MMI MOM
5:00-5:45 Light Opera Gems WABC WKBW WGR WDRC WHP WLBW WCAO WTAR WAIU WKBN WXYZ WBCM WSPD WREC WLAC WISN WGL WCCO KSCJ KMOX KOIL KFH KFJF KRLD KTRH KLZ CFRB	WJAS	WLW WSMB KFI 9:45-10-90 Two Troupers WEAF WEEI WJAR WTAG WCSH WRC WLIT WGY WBEN WSAI KSD WOC WHO WDAF WCAE WTAM WWJ WOW 10:00-10:30 Gypsy Trail WABC WFBL WKBW WEAN WDRC WNAC WORD WIAS WIJRW WMAL WCAO WTAR
WLBW WCAO WTAR WAIU WKBN	WBT	WABC WFBL WKBW WEAN WDRC WNAC
WXYZ WBCM WSPD WREC WLAC WISN WGL WCCO KSCJ KMOX KOIL KFH KFJF KRLD KTRH	WBRC	WORC WJAS WLBW WMAL WCAO WTAR
WISN WGL WCCO KSCJ KMOX	WDAY	
KOIL KFH KFJF KRLD KTRH	KTSA	WDBJ WADC WHK WBT WBCM WSPD WLAC WISN WCCO KSCJ WDAY WNAX
KLZ CFRB		KOIL WIBW KFJF KTRH KLZ FOL
7:15-7:30 Little Things in Life		
KOIL KFH KFJF KRLD KTRH KLZ CFRB 7:15-7:30 Little Things in Life WEAF WCSH WBEN WWJ WSAI WOC WHO WDAF KSTP WHAS WAPI WSMB KTHS WKY KOA KOMO KFSD KTAR	WIBO	KFPY 10:00-10:30 Crime Prevention Program WEAF WJAR WCSH WCAE WWJ KSD WSAI WDAF WRC WBEN 10:00-10:30 Armstron Chubers
WOC WHO WDAF KSTP WHAS	WSM	WEAF WJAR WCSH WCAE WWJ KSD
WAPI WSMB KTHS WKY KOA	KGW	WSAI WDAF WRC WBEN
KOMO KFSD KTAR		10:00-10:30 Armstrong Quakers
7:45-8:00 The World's Business WABC WKBW WDRC WORC WFAN WLBW WMAL WCAO WTAR WDBJ WBT WXYZ WBCM WREC WLAC		10:00-10:30 Armstrong Quakers WJZ KDKA WBZ WBZA KYW KWK
WABC WKBW WDRC WORC WFAN	WHP	
WLBW WMAL WCAO WTAR WDBJ	WAIU	WSM WSB WOAI KOA WSMB KSL KGW KOMO KHQ WMC KFI WBAP
WBT WXYZ WBCM WREC WLAC	WBRC	KGW KOMO KHQ WMC KFI WBAP
WISN WIBM WMAQ WCCO KSCJ	WDAY	WCKY KTHS KSTP KVOO WKY
WISN WFBM WMAQ WCCO KSCJ WNAX KOIL WIBW KFJF KRLD KVI KOL KFPY KFRC	KTRH	10:30-11:00 RKO Theatre of the Air
KVI KOL KFPY KFRC		WSA WISH WELD WHAS WEDG WHAS WEST WHAS WE WAS WEST WHAS WE WENT WHAT WHAS WE WENT WHAT WHAS WE WENT WHAS WE WENT WHAT WHA
7:45-8:00 Brownbilt Footlites	TERAR	WOME WWI WOME, WIDO HOD WOME
WJZ WBZ WBZA WREN KWK	KFAB WIOD	WRVA WJAX WIOD WMC WSB WSMB
WTMJ WEBC WRVA WPTF WJAX WFLA WSUN WHAS WSM WAPI	MIOD	WOC WIDX KGO KTHS WOAL WKY
WFLA WSUN WHAS WSM WAPI WJDX WOAI WIBO KOA KSL WSB WIW KSTP WGAR	WSMB	WRC KOA KGW KFI KHO KOMO
WJDX WOAI WIBO KOA KSL	KDKA	KTAR KFSD WCSH WHO WOW KSL
WSB WLW KSTP WGAR		KTAR KFSD WCSH WHO WOW KSL WTAM WFLA WSUN WBEN
WSB WLW KSTP WGAR 8:00-8:30 Nestle's Program WJZ WBZ WBZA WHAM WIBO WREN KFAB WJR WLW KDKA 8:00-9:00 Cities Swrige Concept Orchester	TATAL	
WILL WALL WILL WILM WIDO	MCYD	WABC WHEC WLBZ WEAN WNAC WORC
P.OO O.OO Cities Commiss Command Orabesta	WGAR	WPG WCAU WJAS WLBW WMAL WCAO
8:00-9:00 Cities Service Concert Orchestra WEAF WEEI WTIC WLIT WRC	WCAE	WABC WHEC WLBZ WEAN WNAC WORC WPG WCAU WJAS WLBW WMAL WCAO WTAR WDBJ WHK WWNC WXYZ WBCM WSPD WDDO WLAC WBRC KSCJ WCCO WMT KMOX WDAY WNAX KOIL WIBW KFJF KTRH KTSA KLZ
WEAF WEEI WTIC WLIT WRC WJAR WCSH WOW KYW KSD KSTP WTMJ WKY WOC KOA	WCAE WDAF WEBC	WELD MOOD MUST MRKG RECH MCCO
KSTP WTMJ WKY WOC KOA	WEBC	WWIL VWOY MAY WOIT MIRM
WOAI KOMO KGO KGW KHQ	KSL	ALUE ALEM ALOA ALE
WOAI KOMO KGO KGW KHQ WTAG CKGW KECA WHO WSAI WBEN WWJ (WFAA KPRC off 8:30)	KSL WTAM	WARD WEDN WEAR WINDO WHAT WORD
WBEN WWJ (WFAA KPRC off 8:30)	,,	WADU WADW WEAR WORU WIND WURU
8:15-8:30 Rhythm Cheristers		WYRN WRT WYVZ WROM WODD WDEC
WABC WKBW WDRC WORC WHP	WJAS	WIAC WEDG WISN WOWN WOLD AWOA
8:15-8:30 Rhythm Choristers WABC WKBW WDRC WORC WHP WLBW WMAL WTAR WDBJ WADO	WATT	MINA MUNA KUII MIBM KEH KEIE
WXYZ WBCM WREC WLAC WBRC WMAQ KSCJ KMOX WDAY WNAX KFJF KRLD KTRH KVI KFPY	WISN	KFJF KTRH KTSA KLZ 11:00-11:30 Noble Sissle and Princesse Orchestra WABC WKBW WEAN WDRC WNAC WORC WCAU WLBW WCAO WTAR WDBJ WHK WKBN WBT WXYZ WBCM WSPD WREC WLAC WBRC WISN WOWO WCCO KMOX WDAY WNAX KOIL WIBW KFH KFJF KTRH KLZ KFPY CFRB 11:00-12:00 Vincent Lopez and His Orchestra
WMAQ KSCJ KMOX WDAY WNAX	KOIL	11-00-12-00 Vincent Long and His Orchestre
KFJF KRLD KTRH KVI KFPY	KHJ	WEAF WGY CKGW WTIC WOC WHO
KFRC		(WRC WWJ off 11:15) (KOA KSTP WDAF
9.20 0.00 The Dutch Mesters		HIGH KLZ KFFT CFRD 11:00-12:00 Vincent Lopez and His Orchestra WEAF WGY CKGW WTIC WOC WRC WJ off 11:15) (KOA KSTP WDAF on 11:45) (KSD on 11:30) (WCFL on 11:15- 11:30) (WFJC WLIT off 11:30)
WABC WFBL WGR WEAN WDRO WCAU WJAS WMAL WCAO WADO WXYZ WSPD WBBM WCCO KMOX	WNAC	11:30) (WEJC WLJT off 11:30)
WCAU WJAS WMAL WCAO WADO	WKRC	11:30-12:00 Romanelli and His Orchestra
WXYZ WSPD WBBM WCCO KMOX	KMBC	WARC WHEC WLBZ WORC WLBW WMAL
KOIL		WCAO WTAR WDBJ WKRC WWNC WXYZ
8:45-9:00 Natural Bridge Revue		WASC WHEE CWLBZ WORC WLBW WMAL WCAO WTAR WDBJ WKRC WWNC WXYZ WBCM WDOD WREC WLAC WBRC WCCO WMT KMBC WDAY WNAX KOIL WIBW KFH KFJF KTRH KLZ CFRB
	WJAX	WMT KMBC WDAY WNAX KOIL WIBW
WIOD WIBO WBZ WBZA WFLA	WSUN	KFH KEJF KTRH KLZ CFRB
9:00-9:30 Clicquot Club Eskimos	****	Saturday
9:00-9:30 Clicquot Club Eskimos WEAF WEEI WTIC WJAR WTAG WLIT WRC WOW WCAE WSAI	WCSH	
WLIT WRC WOW WCAE WSAI	WIBO	10:30-11:00 New World Salon Orchestra WABC WHEC WLBZ WEAN WDRC WNAC WORC WJAS WMAL WDBJ WAIU WWNC
KDD WWJ WDAF WOC WHO	WGY	WABC WHEC WLBZ WEAN WORC WNAC
WBEN		WORC WJAS WMAL WDBJ WAIU WWNC

WXYZ WDOD WBCM WREC WLAC WFBM KSCJ WMT KMBC WDAY KOIL KFJF	8:30-8:45 The Early Bookworm WABC WKBW WEAN WDRC WNAC WORC WPG WCAU WHP WJAS WLBW WMAL
KSCJ WMT KMBC WDAY KOIL KFJF KRLD KTSA CFRB	WPG WCAII WHP WJAS WLRW WMAL
1.30 2.00 Same Plan Orchester	WCAO WDRI WADC WKRN WRT WXYZ
1:30-2:00 Savoy Plaza Orchestra WABC WHEC WLBZ WEAN WCAU WHP WJAS WMAL WCAO WTAR WDBJ WKRC WAIU WWNC WXYZ WBCM WSPD WDOD	WBCM WSPD WLAC WBRC WISN WOWO
WJAS WMAL WCAO WTAR WDBJ WKRC	WMAQ KSCJ KMOX WDAY WNAX KOIL
WAIU WWNC WXYZ WBCM WSPD WDOD	KFH KFJF KRLD KTRH KTSA KLZ
WLAC WERC WIEW CERR	KVI KFPY KHJ KFRÇ CFRB
4:45-5:00 Spanish Serenade WABC WLBZ WEAN WNAC WORC WFAN WHP WMAL WCAO WTAR WDBJ WKRC WAIU WWNC WXYZ WBCM WSPD WDOD WREC WLAC WBRC WMAQ WBBM WCCO KSCJ WMT KMOX KMBC WDAY KOIL KSCJ WHT KMOX KMBC WDAY KOIL KSCJ WHT KMOX KMBC WDAY KOIL	8:30-9:00 The Silver Flute WEAF WEEI WTAG WCSH WRC WFI
WABC WLBZ WEAN WNAC WORC WFAN	WEAF WEEI WTAG WCSH WRC WFI WGY WCAE WWJ WSAI KSD WDAF
WHP WMAL WCAU WTAK WDDJ WARC	WIOD
WALL WWING WALL WEEM WOLD WOOD	8:30-9:00 Fuller Man
KSCI WMT KMOX KMBC WDAY KOIL	WJZ WBZ WBZA WBAL WHAM KDKA
WIBW KFJF KRLD KTRH KTSA KLZ	WJR KWK WREN KOA CKGW WHAS
KOL KFRC	KPRC KGO KECA KGW KOMO KFAB KHQ WIBO WKY WTMJ WMC WEBC
5:30-5:40 Peter van Steeden and Orchestra	KHQ WIBO WKY WTMJ WMC WEBC WSB WAPI WSMB WLW WJDX KSTP
WJZ KWK WHAM KDKA WMC WSB	9:00-9:30 Carborundum Hour
WSMB	WABC WKBW WNAC WCAU WHK WXYZ
6:00-6:30 Ted Husing's Sportslants WABC WFBL WFAN WHP WLBW WTAR	WMAQ KMOX
	9:00-10:00 General Electric Hour WEAF WEEI WJAR WTAG WCSH WFI
	WEAF WEEL WJAR WTAG WCSH WFI
WCCO KSCJ WDAY KOIL WIBW KFH KFJF KRLD KTRH KTSA KLZ KVI KOL KFPY KHJ KFRC CFRB	WRC WGY WBEN WCAE WTAM WWJ WSAI WIBO KSD WOC WOW WDAF WTMJ WKY KSTP WEBC WRVA WJAX WHAS WMC WSB WAPI WSMB WBAP
KFJF KRLD KTRH KTSA KLZ KVI	WSAI WIBO KSD WOC WOW WDAF WTMJ WKY KSTP WEBC WRVA WJAX
KOL KFPY KHJ KFRC CFRB	WHAS WMC WSB WAPI WSMB WBAP
6:15-6:45 Smith Ballew and Dis Urchestra	KPRC WOAL KOA KSL KGO KFI
WJZ WBZ WBZA WRC KFAB KWK	KGW KOMO KHQ KFSD KTAR
7:00-7:15 Rodeheaver Sing WEAF WJAR WFI KSTP WOW KOA	9:30-10:00 Columbia Educational Features
WEAF WIAR WELL KSTP WOW KOA	WABC WLBZ WEAN WNAC WORC WPG
WTAM	WFAN WHP WJAS WLBW WMAL WTAR
WARC WHEC WLBZ WORC WHP WJAS	WDBJ WKRC WWNC WXYZ WBCM WSPD WDOD WREC WLAC WBRC WFBM WCCO
WLBW WCAO WTAR WDBJ WHK WKRC	WFAN WHP WJAS WLBW WMAL WTAR WDBJ WKRC WWNC WXYZ WBCM WSPD WDDO WREC WLAC WBRC WFFM WCO KSCJ WMT KMBC WDAY WNAX KOIL
WWNC WXYZ WBCM WDOD WBRC WFBM	WIBW KFH KFJF KTRH KTSA KLZ
7:00-7:15 Freddie Rich and His Orchestra WABC WHEC WLBZ WORC WHP WLBW WCAO WTAR WDBJ WHK WKRC WWNC WXYZ WBCM WDOD WBRC WFBM KSCJ WMT WDAY KOIL WIBW KFH	VOI VEDO
KFJF KOL KFRC CFRB	10:00-11:00 Lucky Strike Dance Orchestra
7:30-7:45 Snoop and Peep WEAF WJAR WTAG WBEN WSAI WOC WHO WOW WTMJ KSTP WEBC WIOD WFLA WSUN KGO CFCF	WEAF WEEI WJAR WTAG WCSH WFI WRAF WEEI WJAR WTAG WCSH WFI WRC WGY WBEN WCAE WTAM WWJ WSAI WGN KSD WHO WOC WOW WSAI WGN KSD WHO WOC WOW
WHO WOW WIMJ KSTP WEBC WIOD	WRU WGI WDEN WURE WIAM WWJ
WFLA WSUN KGO CFCF	WDAF WTMJ KSTP WEBC WRVA WJAX
7-20 7-45 Page of the Coldborgs	WIOD WELL WRITE WHAS WMC WSR
7:30-7:45 Rose of the Goldbergs W.IZ. WHAM KWK WREN WIBO WSB	WIOD WELL WRITE WHAS WMC WSR
7:30-7:45 Rose of the Goldbergs WJZ WHAM KWK WREN WIBO WSB WJDX WSMB WAPI WGAR	WIOD WELL WRITE WHAS WMC WSR
7:30-7:45 Rose of the Goldbergs WJZ WHAM KWK WREN WIBO WSB WJDX WSMB WAPI WGAR TO AN AND COLOR PROPERTY HARVE BURNING	WIOD WFLA WSUN WHAS WMC WSB WSMB WJDX KVOO WFAA KPRC WOAI WKY KOA KSL KGO KFI KGW KOMO KHO KTAR KFSD
7:30-7:45 Rose of the Goldbergs WIZ WHAM KWK WREN WIBO WSB WJDX WSMB WAPI WGAR 7:30-8:00 Necco Candy Party — Henry Burbig WABC WFBL WHEC WGR WLBZ WEAN	WIOD WFLA WSUN WHAS WMC WSB WSMB WJDX KVOO WFAA KPRC WOAI WKY KOA KSL KGO KFI KGW KOMO KHO KTAR KFSD
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KSD WBEN

NOTICE OF COPYRIGHT

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KEY

Frequency in kilocycles. Wave lengths in meters. Second column symbols: * Verifies receptions 2c; sends station stamp 10c; † Verifies 2c; no stamp; † Does not verify; § Did not reply. Third column shows night power in watts. Fourth column symbols: D, daytime only; \$, Sunday only; Stations dividing time have same small figures; X means station has been granted permit to increase power; + means station has greater power during day; CP indicates station has construction permit only; Some Cuban and Mexican stations have odd frequencies; Correct kilocycles shown in small figures; N means NBC chain; C means Columbia chain; Z has been granted permit to change frequency; Y given permit to move to another city. Dn —This daylight station may use evening hours under certain conditions. Dashes (__) have no meaning.

540 kilocycles 555.6 meters

CKX † 500 ... Brandon, Manitoba

Manitoba Telephone System

550 kilocycles 545.1 meters

CMCJ		250		Havana, Cuba
KFDY	t	500	1+	Brookings, S. D.
KFUO	•	500	1+ 2+ 1+	St. Louis, Mo.
KFYR	ŧ	1000	1+	Bismarck, N. D.
KOAC		1000		Corvallis, Ore.
KSD	t	500	2N	St. Louis, Mo.
WGR	*	1000	С	Buffalo, Ň. Y.
WKRC	+	1000	С	Cincinnati, Ohio

560 kilocycles 535.4 meters

		-5		
KFDM	*	500	\mathbf{x} +	Beaumont, Texas
KLZ	*	1000	C	Denver, Colo.
KTAB	*	1000		San Francisco, Cal
WFI	*	500	1N	Philadelphia, Pa.
WIBO		1000	3+N	Chicago, Ill.
WLIT		500	1Ň	Philadelphia, Pa.
WNOX	*	1000	\mathbf{x} +	Knoxville, Tenn
WPCC	*	500	38	Chicago, Ill.
WOAM	*	1000	С	Miami, Fla.

570 kilocycles 526.0 meters

· · ·				
KGKO	*	250	+	Wichita Falls, Texa
KMTR	•	500		Los Angeles, Cal.
KXA	*	500		Seattle, Wash.
WEAO	+	750	1	Columbus, Ohio
WKBN	*	500	1C	Youngstown, Ohio
WMAC		250	2	Syracuse, N. Y.
WMCA	*	500	3	New York City
WNAX	*	1000	С	Yankton, S. D.
WNYC	t	500	3	New York City
WSYR		250	2	Syracuse, N. Y.
WWNC	*	1000	С	Asheville, N. C.

580 kilocycles 516.9 meters

		-,		
CFCL		500	3S	Toronto, Ont.
CHMA		250	4	Edmonton, Alta.
CKCL	*	500	3	Toronto, Ont.
CKNC	*	500	3	Toronto, Ont.
CKUA	t	500	4	Edmonton, Alta.
KGFX		200	D	Pierre, S. D.
KSAC		500	2 +	Manhattan, Kans.
WIBW	÷-	1000	$^{2+C}$	Topeka, Kansas
WOBU	*	250	1	Charleston, W. Va.
WSAZ	*	250	1	Huntington, W. Va.
WTAG	•	250	N	Worcester, Mass.

Rafael Rodriguez S. D. State College Concordia Theological Seminary Meyer Broadcasting Co.

Meyer Broadcasting Co.
State Agricultural College
Pulitzer Publishing Co.
Buffalo Broadcasting Co.
WKRC Incorporated

19 WE

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

77-12

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

Dominion Battery Co. Christian and Missionary Alliance The Dominion Battery Co. Canadian National Carbon Co., Ltd. University of Alberta Dana McNeil State Agricultural College Topeka Broadcasting Assn., Inc. WOBU, Inc. WSAZ, Inc. Telegram Publishing Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

INDEX BY FREQUENCIES AN	ND DIAL NUMBERS	
590 kilocycles 508.2 meters		KCYS.
CMW 700 588 Hayana, Cuba	Columbus Commercial & Radio Co.	670
KHQ	Nichardon Washing Theireacter	
WEEL † 1000 N Boston, Mass.	Edison Flee Illuminating Co.	MTRS.
WKZO * 1000 D Berrien Springs, Mich.	WKZO, Inc.	447.5
WOW * 1000 IN Omaha, Nebr.	Woodmen of the World	
XEZ * 500 588 Mexico City	Gonzales Zamacona y Cia.	DIAL
600 kilocycles 499.7 meters	174	
CJRM † 500 4 Moose Jaw, Sask. CJRW _ 500 4 Fleming, Sask. CNRO † 500 3 Ottawa, Ont.	Jas. Richardson & Sons, Ltd. Jas. Richardson & Sons, Ltd. Canadian National Railways	}
CJRW 500 4 Fleming, Sask. CNRO + 500 3 Ottawa, Ont.	Canadian National Railways	1
CNRO † 500 3 Ottawa, Ont. KFSD • 500 +N San Diego, Cal.	Airtan Radia Loro	İ
KFSD 500 +N San Diego, Cal. WCAC 250 2+ Storrs, Conn.	Conn. Agricultural College	ļ
WCAO * 250 C Baltimore, Md.	Monumental Radio, Inc.	İ
WGBS † 250 2+ New York City WMT * 500 C Waterloo, Iowa	General Broadcasting System, Inc. Waterloo Broadcasting Co.	İ
WMT * 500 C Waterloo, Iowa WOAN _ 500 1 Lawrenceburg, Tenn.	WREC, Inc.	i
WMT * 500 C Waterloo Iowa WOAN 500 1 Lawrenceburg, Tenn. WREC * 500 1+C Memphis; Tenn.	WREC, Inc.	•
610 kilocycles 491.5 meters		
KFRC * 1000 C San Francisco, Cal. WDAF * 1000 N Kansas City, Mo.	Don Lee, Inc. Kansas City Star Co.	i
WDAF * 1000 N Kansas City, Mo.	Kansas City Star Co.	
WFAN * 500 2C Philadelphia, Pa. WIP * 500 2 Philadelphia, Pa.	Keystone Broadcasting Co., Inc. Gimbel Bros. Co.	i
WIP * 500 2 Philadelphia, Pa. WJAY † 500 D Cleveiand, Ohio	Cleveland Radio Broadcasting Corp.	}
113112 000 2 0101011114		
620 kilocycles 483.6 meters		
KGW * 1000 +N Portland, Ore. KTAR * 500 +N Phoenix, Arizona	Oregonian Publishing Co.	1
KTAR * 500 +N Phoenix, Arizona WFLA * 1000 1+N Clearwater, Fla.	KTAR Broadcasting Co. Chamber of Commerce	1
WFLA * 1000 1+N Clearwater, Fla. WLBZ * 500 C Bangor, Maine	Maine Broadcasting Co., Inc.	1
WLBZ * 500 C Bangor, Maine WSUN * 1000 1+N St. Petersburg, Fla.	Chamber of Commerce	
WLBZ * 500 C Bangor, Maine WSUN * 1000 1+N St. Petersburg, Fla. WTMJ * 1000 +N Milwaukee, Wis.	Milwaukee Journal	8
630 kilocycles 475.9 meters		CUT OUT ON DOTTED LINES
	Victoria Broadcasting Association	Ħ
CIGX 500 Yorkton, Sask.	Winnipeg Grain Exchange Canadian National Railways	0
CNRA * 500 Moncton, N. B.	Canadian National Railways	Ž
KFRU + 500 i Columbia, Mo.	Stephens College Evansyille on the Air, Inc.	l 🗸 .
WGBF † 500 1 Evansville, Ind. WMAL * 250 +C Washington, D. C.	M. A. Leese	19
WMAL * 250 +C Washington, D. C. WOS * 500 1 Jefferson City, Mo.	State Marketing Bureau	13
XET † 500 Monterrey, Mex.	Mexico Music Co., S. A.	<u> </u>
640 kilocycles 468.5 meters		Ę
CHRC 100 645 Quebec, Que_	E. Fontaine	良
CMHJ 40 645 Cienfuegos, Cuba	Arturo Hernandez	! o
KFI 5000 NX Los Angeles, Cal.	Earle C. Anthony, Inc.	į
WAIU * 500 C Dn Columbus, Ohio	American Insurance Union	1
WOI * 5000 D Ames, Iowa XFG 2000 638 Mexico City	State College of Agriculture Secretaria de Guerra y Marina	i
XFG 2000 638 Mexico City		
650 kilocycles 461.3 meters		
KPCB 100 Dn Seattle, Wash. WSM * 5000 N Nashville. Tenn.	Queen City Broadcasting Co.	
WSM * 5000 N Nashville. Tenn.	National Life & Accident Ins. Co.	
XER 101 Mexico City	Armida y Cia.	
660 kilocycles 454.3 meters		
	Chilliwack Brdcstg. Co., Ltd.	
CMCO 225 Havana, Cuba	J. L. Stowers	
WAAW * 500 D Omaha, Neb.	Omaha Grain Exchange	
WEAF † 50000 N New York City	National Broadcasting Co., Inc.	
670 kilocycles 447.5 meters	77: 67/1	1
	17/	

WMAQ, Inc

Chicago, Ill.

WMAQ *

5000

INDEX BY FREQUENCIES AND DIAL NUMBERS						
WISJ 250 + Madison, W WMC 500 +N Memphis, T WPOR 500 1 Norfolk, Va. WTAR * 500 1C Norfolk, Va. XEW † 5000 Mexico City	Fenn. Dillard & Brown, Receivers WTAR Radio Corp. WTAR Radio Corp.					
790 kilocycles 379.5 me	eters					
CMBS - 150 Havana, Cu CMHC - 500 Tuinucu, Ci KGO + 7500 N San Francis WGY + 50000 N Schenectad	uba Frank H. Jones sco, Cal. National Broadcasting Co., Inc. y, N. Y. General Electric Co.					
800 kilocycles 374.8 me	eters KCY9					
WBAP † 10000 1XN Fort Worth WFAA _ 50000 1N Dallas, Text XFC 3 350 805 Aguascalier	as News & Journal MTR	s				
810 kilocycles 370.2 me	eters DIA	L				
WCCO * 7500 C Minneapoli WPCH * 500 D New York	s, Minn. Northwestern Broadcasting, Inc. City Eastern Broadcasters, Inc.					
820 kilocycles 365.6 me						
WHAS † 10000 N Louisville, XFI 1000 818 Mexico City	Ky. Courier-Journal & Times					
830 kilocycles 361.2 me CMGA	oa Leopoldo V. Figueros lo. National Broadcasting Co., Inc. loss. Matheson Radio Co., Inc.					
840 kilocycles 356.9 me	eters					
CFCA † 500 1 Toronto, O CHCT - 1000 - Red Deer, A CKLC † 1000 2 Red Deer, A CMC * 500 845 Havana, C CNRD † 1000 2 Red Deer, CNRT * 500 1 Toronto, O XEG - 2000 - Mexico Cit	Alta. G. F. Lill & Altern, Ed. Alta. Alberta Pacific Grain Co., Ltd. uba Cuban Telephone Co. Alta. Canadian National Railways Canadian National Railways Canadian National Railways Canadian Canadian National Railways					
850 kilocycles 352.7 me	eters					
KWKH * 10000 1 Shreveport WWL * 5000 1 New Orlean	t, La. Hello World Broadcasting Corp. Loyola University					
860 kilocycles 348.6 me	eters ž					
CMJE - 5 856 Camaguey KMO - 500 + Dn Tacoma, W WABC * 5000 XC New York WBOQ - 5000 New York WHB * 500 D Kansas Cit XFX - 500 - Mexico Cit	ty, Mo. WHB Broadcasting Co.					
870 kilocycles 344.6 me	eters B					
CMHH - 10 Cifuentes, WENR - 50000 IN Chicago, II WLS † 5000 IXN Chicago, II	II. Great Lakes Broadcasting Co.					
880 kilocycles 340.7 me CHML * 50 4 CJCB * 50 Sydney, N. CKCI : 22.5 3 Quebec, Q CKCV : 50 3 Quebec, Q CNRQ : 50 3 Quebec, Q KFKA : 500 2+ Greeley, C KLX 500 2 CNPQ * 500 2 CNPQ * 500 2 CNPQ * 500 2 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ * 500 1 CNPQ *	Ont. Maple Leaf Radio Co., Ltd. S. N. Nathanson Jue. Le "Soleil," Ltd. Jue. G. A. Vandry Jue. Canadian National Railways Jolo. Midwestern Radio Corp. Cal. Tribune Publishing Co. Juliar of Fire, Inc. Miss. Mississippi Broadcasting Co., Inc. Pa. Scranton Broadcasters, Inc. Pa. Scranton Times					
	5.00.3					

			= QOLINGIES I	AND DIAL NUMBERS
890 ki	locycl	les	336.9 meters	
CFBO 4	* 500		St. John, N. B.	C. A. Munro, Ltd.
CKCO :	100 50		Ottawa, Ont.	Dr. G. M. Geldert
CMX	500	•	Port Arthur, Ont.	Dougall Motor Car Corp.
KFNF .	500	$\bar{2}+$	Havana, Cuba Shenandoah, Iowa	Francisco Lavin Henry Field Co.
KGJF 🕛	250		Little Rock, Ark.	Church of the Nazarene
KUSD • WGST •	500	2+ 1+0 2+ +N	Vermillion, S. D.	Church of the Nazarene University of South Dakota
WILL		1+0	Atlanta, Ga. Urbana, Ili.	Georgia School of Technology
WIAR 4	250	Į,N	Providence R I	University of Illinois
WJAR WKAQ WMAZ	500		Providence, R. I. San Juan, P. R.	The Outlet Co. Radio Corp. of Porto Rico
WMAZ †	250	1+	Macon, Ga.	Junior Chamber of Commerce
********	200	+	Fairmount, W. Va.	Junior Chamber of Commerce Holt-Rowe Novelty Co.
XES †	500 1 1		Tampico, Mexico	Difusora Portena XES
900 ki cmcf +		es .	333.1 meters	• 4
CMCF † KGBU †			Havana, Cuba	Casa Karman
KGBU †	1000	Ċ.	Ketchikan, Alaska Los Angeles, Cal.	Alaska Radio & Service Co
KSEI *	250		Pocatello, Idaho	Don Lee, Inc.
WBEN +	1000	ZZZ	Pocatello, Idaho Buffalo, N. Y.	KSEI Broadcasting Association, Inc. Buffalo Evening News
WJAX *	1000	Ŋ	lacksonville Fla	City of Jacksonville
WKY * WLBL *	1000 2000	N D	Oklahoma City	City of Jacksonville WKY Radiophone Co. Wisconsin Dont of Montage
		_	Stevens Point, Wis.	Wisconsin Dept. of Markets
910 ki	ıocycl	es :	329.6 meters	
CFOC CHNS •	- 500 500	1 2	Saskatoon, Sask Halifax, N. S.	The Electric Shop, Ltd.
CIGC *	300	3 2 3 2	London, Ont.	Halifax Herald, Ltd.
CNRH _	_ 500	3	Halifax, N. S.	Free Press Printing Co., Ltd.
CNRL *	500	ž	London, Ont.	Canadian National Railways
CNRS _	_ 500	1	Saskatoon, Sask.	Canadian National Railways Canadian National Railways
920 kil	locycl	es (325.9 meters	7 1
CMHD _	2.50		Calbarien, Cuba	Manuel A. Alverez
	1000	ĩ··	Port au Prince, Haiti	Republic of Heiti
CFEL †	500 500		Denver, Colo.	Eugene P. O'Fallon, Inc. Colorado Radio Corp. Fisher's Bland Station J.
KOMO +	1000	N N	Denver, Colo. Seattle, Wash.	Colorado Radio Corp.
COMO † CPRC * VAAF		+N	Houston, Texas	Fisher's Blend Station, Inc.
VAAF	_ 500	D T N	Houston, Texas Chicago, Ill.	Drovers Journal Publishing Co.
MBSO -	_ 500	D	Needham, Mass. Detroit, Mich.	Houston Printing Co. Drovers Journal Publishing Co. Babson Statistical Organization, Inc. The Detroit. News
VWJ †	1000	N	Detroit, Mich.	
	250	915	Chihuahua, Mex.	Gobierno del Estado de Chihuahua
930 kil	ocycle	es _, 3	322.4 meters	
FRC	500 500	4	Edmonton, Alta.	The Edmonton Journal, Ltd.
NRE	- 500 - 500	4	Kingston, Ont.	Queen's University
FWI +	500	ī	Edmonton, Alta. San Francisco, Cal.	Canadian National Railwaye
GBZ	. 500	2+	York, Nebr.	Radio Entertainments, Inc.
MA *	500	2+ 2+ 1+X	Shenandoah, Iowa	Dr. George R. Miller May Seed & Nursery Co.
ROW *	500	1+X	Oakland, Cal.	
/DRI *	500 250		Birmingham, Ala.	
IBG *	50	Ď,	Roanoke, Va. Elkins Park, Pa.	Richardson-Wayland Elec. Corp. St. Pauls P. E. Church
4 0 kil	ocycle	es 3	319.0 meters	
GU ‡	1000		Honolulu, Hawaii	Merion A Mulanau
OIN *	1000	C D	Portland, ()re.	Marion A. Mulrony KOIN, Inc.
AAT CSH •	300	Ď	Jersey City, N. J. Portland, Maine Fargo, N. D.	Bremer Broadcasting Com
DAY *	1000	Ň C	Portland, Maine	Congress Square Hotel Co.
FIW *	1000 1000	C	rargo, N. D.	Congress Square Hotel Co. WDAY, Inc. WFIW, Inc.
HA	750	Ď.	Hopkinsville, Ky.	WFIW, Inc.
EO	5000		Madison. Wis. Mexico City	University of Wisconsin National Revoluncionario Party
50 kil	ocvcle	s 3	15.6 meters	
MBC	150	955		7 7
MBC MBD	150	955	Havana, Cuba Havana, Cuba	Domingo Fernandez
FWB *	1000		Hollywood Cal	Luis Perez Garcia
GHL MBC *	1000		Billings, Mont.	Warner Bros. Broadcasting Corp.
MBC *	1000	C	Billings, Mont. Kansas City, Mo. Washington, D. C.	Midland Broadcasting Co. Inc.
RC †	500	N	washington, D. C.	National Broadcasting Co., Inc.
				9 1

Section Comparison Compar	INDEX BY FREQUENCIE	S AND DIAL NUMBERS
Chick 100 1	960 kilocycles 312.3 meters	31
Matanzas, Cuba Seattle, Wash. Chicago, Ill. Chicago, I	CHCK - 100 1 Charlottetown, P. CHWC * 500 3 Regina, Sask. CJBR - 500 3 Regina, Sask. CKCK † 500 3 Regina, Sask. CNRR - 500 3 Regina, Sask.	Rogers-Majestic Corp., Ltd. E. I. W. E. Burke R. H. Williams & Sons. Ltd. Cooperative Wheat Producers, Ltd.
Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Sect	970 kilocycles 309.1 meters	
Westinghouse Elec. & Mfg. Co.	CMGF _ 50 977 Matanzas, Cuba KJR * 5000 _ Seattle, Wash. WCFL _ 1500 N Dn Chicago, III.	Northwest Broadcasting System, Inc. Chicago Federation of Labor
Westinghouse Elec. & Mfg. Co.	980 kilocycles 305.9 meters	
WBZ-A † 15000 IN Springfield, Mass. 1000 kilocycles 299.8 meters KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several Springfield, Mass. KFVD 250 Dn Several		Westinghouse Elec. & Mfg. Co.
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April		
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XEH 101 Monterrey, Mex. XEH 101 Monterrey, Mex. XEI 101 Morelia, Mex. XEI 101 Juarez, Mex. XEI 101 Juarez, Mex. XEK 101 Mexico City XEL 101 Satitillo, Mex. XEV 101 Puebla, Mex. XEV 101 Puebla, Mex. XEV 105 Merida, Mex. XEV 106 Prescott, Ont. CKIC 50 3 Prescott, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 3 Waterloo, Ont. CKIC 50 1 Mex Morelia, Mex. Marcuel y G. Sales "El Mundo" Acuda Acemy Malvarez Manuel y G. Sales "El Mundo" Marcue Loew Booking Agency South Carolina Broadcasting Co., Inc. University of Oklahoma Palisades Amusement Park Calvary Baptist Church Aviation Radio Station, Inc. 1020 kilocycles 293.9 meters KFKX 10000 IN Chicago, Ill. WRAX 1 250 D Philadelphia, Pa. 1030 kilocycles 288.3 meters KRLD 10000 IC Mexico City, Mex. 1040 kilocycles 288.3 meters KRLD 20000 IN Morelia, Que. Canadian Marconi Co. M. P. Martinez Canadian Marconi Co. M. P. Martinez Canadian National Railways El Buen Tono, S. A. KRLD Radio Corp. Chamber of Commerce Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College Michigan State College	KFVD * 250 Dn Culver City, Cal. WHO * 5000 IN Des Moines, Iowa WOC * 5000 IN Davenport, Iowa TFA 101 Cudelaira May	Central Broadcasting Co. Central Broadcasting Co. Alberto Palos Sauza Jesus R. Benavides Lic. Mariano Berlanga
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		30	1176	Santiago de Cuba	Ricardo Arnoldo	
CMKG KTNT WCAU	•	5000 10000	Dn C	Muscatine, Iowa Philadelphia, Pa.	Norman Baker Universal Broadcasting Co	
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CMGB	<u>.</u> -	7.5 5000	1185	Matanzas, Cuba Portland, Ore. State College, N. M.	Jose Anorga Western Broadcasting Co. College of Agriculture & Mech. Arts	
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CKPC	t	25	+	Preston, Ont.	Metal Shingle & Siding Co.	
KDFN	Ŧ	100		Preston, Ont. Casper, Wyo. Devils Lake, N. D.	Donald Lewis Hathaway	
KDLR	*-	100		Devils Lake, N. D.	KDLR, Inc.	
KFOR KFVS	:	100 100	6	Lincoln, Nebr. Cape Girardeau, Mo.	Howard A. Shuman	
KFXM		100	š	San Bernardino, Cal.	Hirsch Battery & Radio Co. J. C. & E. W. Lee	
KGCR	\$	100		Watertown, S. D.	Cutler's Radio Brdcstg. Service, Inc.	
KGMP	\$	100		Elk City, Okla. Dodge City, Kans.	Bryant Radio & Electric Co.	
KGNO	*	100		Dodge City, Kans.	Dodge City Broadcasting Co. James McClatchy Co.	
KMJ KPPC	-	100 50	ā	Fresno, Cal. Pasadena, Cal.	Pasadena Presbyterian Church	
KWEA	\$	100		Shreveport, La.	Hello World Broadcasting Corp.	
WALR	*	100		Shreveport, La. Zanesville, Ohio	Roy, W. Waller John H. Stenger, Jr. Grace Covenant Pres. Church	
WBAX	*	100	<u>ī</u> _	Wilkes-Barre, Pa.	John H. Stenger, Jr.	
WBBL	‡	100	7S	Richmond, Va.	Grace Covenant Pres. Church	
WCBS WCOH	:	100 100	3	Richmond, Va. Springfield, III. Yonkers, N. Y.	H. L. Dewing & Chas. Messter Westchester Broadcasting Corp.	
WCRW		100	4	Chicago, III.	Clinton R. White	
WDWF		100	5	Providence, R. I.	Clinton R. White Dutee W. Flint	
WEBQ WEDC	*	100	6	Harrisburg, III. Chicago, III.	First Trust & Savings Bank	
WEDC	*	100	4 3	Chicago, III.	Emil Denemark, Inc.	
WGCM		100 100		Freeport, N. Y. Gulfport, Miss	Harry H. Carman Great Southern Land Co., Inc. Beardsley Specialty Co. Citizens Bank W. C. E. Bank	
WHBF	*	100		Rock Island, III.	Beardsley Specialty Co.	
WHBU	t	100		Anderson, Ind. Poynette, Wis.	Citizens Bank	
WIBU	*	100	ā	Poynette, Wis.	WHI, C. FOITEST	
WJBI WJBU WJBY WJW	*	100	3		Monmouth Broadcasting Co. Bucknell University	
WIRV		100 50	1	Gadaden, Ala.	Gadsden Broadcasting Co., Inc.	
wiw [*]		100		Mansfield, Ohio	Mansfield Broadcasting Assn.	
WLCI	*	50	5	Lewisburg, Pa. Gadsden, Ala. Mansfield, Ohio Ithaca, N. Y.	Lutheran Assn. of Ithaca	
WLSI	. ·	100	5	Providence, R. I. Richmond, Va. Jamaica, N. Y.	The Lincoln Studios, Inc. Havens & Martin, Inc.	
WMBG WMRJ		100 100	3	Kichmond, va.	Peter I Prinz	
WOCL	*	50		Jamestown, N. Y.	Peter J. Prinz A. E. Newton	
WOMT	*	100		Manitowoc, Wis.	Francis M. Kadow	
WPAW	*	100	5	Jamestown, N. Y. Manitowoc, Wis. Pawtucket, R. I.	Shartenburg & Robinson Co.	
WQDX	*	. 50	+	i nomasville. Ga.	Stevens Luke J. Pat. Scully	
WRBQ WSBC	‡	100 100	4	Greenville, Miss. Chicago, Ill.	World Battery Co., Inc.	
WCEN	†	100		Columbus, Ohio	Columbus Broadcasting Co. 638 Tire & Vulcanizing Co.	
WSIX	'	100		Saningfald Town	(30 Time St. Violenniain Co.	
		100		Springheid, Tethi.	638 Tire & Vulcaritzing Co.	
WSOC		100		Gastonia, N. C.	WSOC, Inc.	
WSIX WSOC WTAX	Ť	100 100		Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, Ill.	WSOC, Inc. WTAX, Inc.	
XEX		100 100 500	2	Gastonia, N. C. Springfield, Ill. Mexico City	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.	
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1220		100 100 500 OCYC	1es	Mexico City 245.8 meters Havana, Cuba	WSOC, Inc. WTAX, Inc. Excelsior, Cia Editorial S. A.	
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	IND	EX B	Y PREQUENCIES AI		
WAAM *	1000	$_{2}^{1+X}$	Newark, N. J. Northfield, Minn.	WAAM, Inc. St. Olaf College	
WCAL *	1000	2 C	Northfield, Minn. New Orleans, La.	Toe H. Uhalt	
WDSU WGCP	1000 250	ĭ	Newark, N. J. St. Paul, Minn.	May Radio Broadcast Corp.	
WLB †	1000	1 2	St. Paul, Minn.	University of Minnesota Richard E. O'Dea	
WODA WRHM *	1000 1000	1 2	Paterson, N. J. Minneapolis, Minn.	Minnesota Broadcasting Corp.	
XEFA	250		Mexico City	Luis F. Murguia	
1260 kil	ocvc1	es	238.0 meters		
KOIL *	1000		Council Bluffs, Iowa	Mona Motor Oil Co. KRGV, Inc. Robert M. Riculfi	
KRGV *	500	C	Harlingen, Texas	KRGV, Inc.	
KVOA	500	Þ	Tucson, Ariz. Brownsville, Texas	Herald Pub. Co.	
KWWG * WLBW *	500 500	1 C+	Oil City, Pa.	Herald Pub. Co. Radio-Wire Program Corp. Savannah Broadcasting Co.	
WTOC *	500	c+	Savannah, Ga.	Savannah Broadcasting Co.	
1270 kil	ocycl	es	236.1 meters		
CMTB	20	1276	Ciego de Avila, Cuba Colorado Springs, Colo. Decorah, Iowa Seattle, Wash. Seattle, Wash. Decorah, Iowa Gend Ranids, Mich.	Eduardo V. Figueroa	
KFŬM *	1000		Colorado Springs, Colo.	W. D. Corley Charles W. Greenley	
KGCA	50 1000	2D 3C	Seettle Wash.	Seattle Rroadcasting Co., Inc. First Presbyterian Church	
KOL †	1000	3	Seattle, Wash.	First Presbyterian Church	
KWLC *	100	2D	Decorah, Iowa	Luther College WASH Broadcasting Corp.	
WASH *	500 1000	D D	Grand Rapids, Mich. Ithaca, N. Y.	Comell University	
WEAI * WFBR	500		Baltimore, Md.	Baltimore Radio Show, Inc.	
WIDX	1000	Ň	Jackson, Miss.	Lamar Life Insurance Co. Walter B. Stiles, Inc.	
WOOD	500	1	Grand Rapids, Mich.		
1280 ki			234.2 meters	Jesus Lopez	
CMBJ	15 15	1285	Havana, Cuba Havana, Cuba Havana, Cuba	Tose Leiro	
CMBM	30	1285 1285	Havana, Cuba	Jose Justo Moran	
CMCH	15	1285	Havana, Cuba	Hernani Torralbas Aurelio Hernandez	
CMCR	20	1285	Great Falls, Mont.	Buttrey Broadcast, Inc. City of Camden	
KFBB * WCAM	1000 500	† 1	Havana, Cuba Havana, Cuba Havana, Cuba Great Falls, Mont. Camden, N. J. Asbury Park, N. J. Chattanooga, Tenn. Madison, Wis. Trenton, N. J.	City of Camden	
WCAP *	500	ī	Asbury Park, N. J.	Radio Industries Broadcast Co. WDOD Broadcasting Corp.	
WDOD *	1000	+c	Chattanooga, 1enn. Madison, Wis.	Capital Times Co.	
WIBA * WOAX	500 500	ĩ	Trenton, N. J.	WOAX, Inc. City of Dallas	
WRR	500	С	Dallas, Texas	City of Dallas	
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KDYL *	1000	C 1	Salt Lake City	Intermountain Broadcasting Corp. Will H. Ford	
KFUL	500	1 D	Galveston, Texas Blytheville, Ark.	C. L. Lintzenich	1310
KLCN * KTSA †	50 1000	1+0	San Antonio Texas	Lone Star Broadcast Co.	MTRS.
WEBC *	1000	+N	Superior, Wis.	Head of Lake Broadcasting Co. Pittsburgh Radio Supply House	228.9
WJAS *	1000	+N C+ D	Superior, Wis. Pittsburgh, Pa. Saranac Lake, N. Y.	Smith & Mace	
WNBZ	50 1		230.6 meters		DIAL
1300 ki				Radio Station KFH Co.	•
KFH *	1000 500	2C 3	Wichita, Kansas Portland, Ore.	Ashley C. Dixon & Son	ī
KFJR * KGEF *	1000	4	Los Angeles, Cal. Los Angeles, Cal.	Trinity Methodist Church Bible Institute of Los Angeles	1
KTBI *	1000	3	Portland, Ore.	M. E. Brown	ļ
KTBR WBBR *	500 1000	ĭ	Brooklyn, N. Y.	People's Pulpit Association Debs Memorial Radio Fund, Inc.	lΩ
WEVD *	500	1	New York City	Defenders of Truth Society, Inc.	CGT
WHAP *	1000 500	1	New York City	Rensselaer Polytechnic Institute	0
WHAZ * WIOD *	1000	Ň	Troy, N. Y. Miami, Fla.	Isle of Dreams Broadcasting Corp.	İĞ
WOQ *	1000	2	Kansas City, Mo.	Unity School of Christianity	12
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CMGC	. 30	1315	Matanzas, Cuba	Oscar Mechoso Chas. C. Robinson	ĬŎ
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KFBK †	100 100	7	Sacramento, Cal. Boone, Iowa	Jas. McClatchy Co. Boone Biblical College	1 🗟
KFGQ †	100		Tuneou Alaska	Alaska Flectric Light & Power Co.	
KFJY *	100	7	Ft. Dodge, Iowa	C. S. Tunwall C. C. Baxter	15
KFPL †	100 15		Ft. Dodge, Iowa Dublin, Texas Greenville, Texas	The New Furniture Co.	l É
KFPM • KFUP -	_ 100	8	Denver, Colo.	Fitzsimmons General Hospital Western Slope Broadcasting Co.	S
ŘFXJ	50	8X	Y Edgewater, Colo.	western supernouseering oo.	
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					ND DIAL NUMBERS
KFXR		100	+	Oklahoma City	Exchange Ave. Baptist Church KGBX Inc.
KGBX KGCX KGEZ	*	100 100		St. Joseph, Mo. Wolf Point, Mont. Kalispell, Mont.	KGBX Inc. First State Bank of Vida
KGEZ	Ť-	100	+	Kalispell, Mont.	Treloar-Church Brdcstg. Co.
KGFW	Ť	100		Ravenna, Neb.	Central Nebraska Broadcasting Corp.
KIT	İ	50 50		Ravenna, Neb. Yakima, Wash. Medford, Ore.	Carl E. Haymond
KMED KRMD	Ţ	50	9	Shreveport, La.	Carl E. Haymond Mrs. W. J. Virgin Robert M. Dean
KTLC	÷	100	X 9 2 7	Houston, Tex.	Houston Broadcasting Co.
KTSL	*-	100 100	9	Shreveport, La.	G. A. Houseman W. S. Bledsoe & W. T. Blackwell
KTSM KWCR		100	ź	El Paso, Texas Cedar Rapids, Iowa	Harry F. Paar
KWCR KXRO	‡	75 100		Aberdeen, Wash.	Harry F. Paar KXRO, Inc.
WBEO	-		CP	Marquette, Mich.	Charles B. McCleod Banks of Wabash, Inc.
WBOW WBRE	-	100 100		Terre Haute, Ind. Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	*	100	<u>ī</u>	Wilkes-Barre, Pa. Joliet, III.	WCLS, Inc.
WDAH WEBR	‡	100 100	2 +	El Paso, Texas Buffalo, N. Y.	Eagle Broadcasting Co. Howell Broadcasting Co., Inc.
WEXL	†	50		Royal Oak, Mich.	Royal Oak Broadcasting Co. Wm. F. Gable Co.
WFBG	• •	100	3+	Altoona, Pa.	Wm. F. Gable Co.
WFDF WGAL		17	3	Flint, Mich.	Frank D. Fallain WGAL, Inc.
WGH	*	100		Lancaster, Pa. Newport News, Va. Philadelphla, Pa.	Hampton Roads Broadcasting Corp.
WHAT	‡	100	4X	Philadelphia, Pa.	Independence Broadcasting Co. Johnstown Automobile Co.
WJAC WJAK	:	100 50	3 6	Johnstown, Pa. Marion, Ind.	Marion Broadcasting Co.
WKAV	*	100		Laconia, N. H.	Laconia Radio Club
WKBB	*	100	1	Joliet, Ill.	Laconia Radio Club Sanders Bros, Radio Station R. B. Broyles Furniture Co.
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WLBC	t	100 50	6	Galesburg, Ill. Muncie, Ind. Auburn, N. Y.	Donald A. Burton
WMBO	İ	100		Auburn, N. Y.	Radio Service Laboratories New Bedford Broadcasting Co.
WNBH WOBT	į	100 100	+	New Bedford, Mass. Union City, Tenn.	Tittsworth's Radio & Music Shop
WOL		100		Washington, D. C.	American Broadcasting Co.
WRAW	*	50 100	5XZ	Reading, Pa.	Reading Broadcasting Co. Kent's Furniture & Music Store
WRBI WROL	Ť	100 100		Tifton, Ga. Knoxville, Tenn.	Stewart Broadcasting Co.
WSAJ WSJS	*	100		Grove City, Pa. Winston-Salem, N. C.	Grove City College
WSJS WTEL	<u>.</u> -	100 50	$\bar{4}\bar{X}$	Winston-Salem, N. C. Philadelphia, Pa.	Winston-Salem Journal Co. Foulkrod Radio Engineering Co.
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CMJC CMKH KGHF KGMB	 Ť	15 250 250 500	1321 1327 X+ 1+	Camaguey, Cuba Santiago de Cuba Pueblo, Colo	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp.
CMJC CMKH KGHF KGMB KID KTFI WADC	† †	15 250 250 500 250 250 1000	1321 1327 X+ 1+ 1+ C	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons
CMJC CMKH KGHF KGMB KID KTFI WADC WSMB	† † †	15 250 250 500 250 250 1000 500	1321 1327 X+ 1+ 1+ C N	Camaguey, Cuba Santiago de Cuba Pueblo, Colo	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp.
CMJC CMKH KGHF KGMB KID KTFI WADC WSMB	† † †	15 250 250 500 250 250 1000	1321 1327 X+ 1+ 1+ C N	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co.
CMJC CMKH KGHF KGMB KID KTFI WADC WSMB	† † kil	15 250 250 500 250 250 1000 500 OCYCI	1321 1327 X+ 1+ C N es	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras
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CMJC CMKH KGHF KGMB KITFI WADC WSMB 1330 CMJA KGB KGB WDRC WSAI WTAQ 1340 CMBA	kil	15 250 500 250 250 1000 500 0cycl 1000 500 1000 0cycl	1321 1327 X+ 1+ CN es 1332 X 1+C CN 1C es	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis.	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co.
CMJC CMKH KGHF KGMB KID KTFI WADC WSMB 1330 CMJA KGB KSCJ WDRC WSAI WTAQ 1340 CMBA CMBF	kil	15 250 500 250 250 250 250 1000 500 0Cycl 100 500 1000 500 1000 500 7.5	1321 1327 X+ 1+ CN es 1332 X 1+C CN 1C es	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. 223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co. Oscar Montenegro Jose G. Reigada Angel Bertamaty
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CMJC CMKH KGHF KGMB KID KTFI WADC WSMB 1330 CMJA KGB KSCJ WDRC WSAI WTAQ CMBA CMBF CMCD CMCD	kil	15 250 500 250 250 250 250 250 1000 500 0Cycl 1000 500 1000 500 1000 0Cycl 7.5 50 7.5	1321 1327 X+ 1+ CN es 1332 X+C N1C es 1345 1345 1345 1345	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. 223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co. Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran
CMJC CMKH KGHF KGMB KID WADC WSMB 1330 CMJA KGB WDRC WSAI WDRC WSAI WDRC WSAI CMBF CMCD CMCU CMCY KFPW	kil	15 250 500 250 250 250 1000 500 1000 500 500 500 500 500 500	1321 1327 1+1+CN es 1332 X1+C N1C es 1345 1345 1345 1345	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. 223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co. Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co.
CMJC CMKHF KGHF KGMB KTFI WADC WSMB 1330 CMJA KGB KSCJ WDRC WSAI WTAQ CMBA CMBF CMCD CMCU CMCY KFPW KFPY	kil ** kil	15 250 500 250 250 1000 500 0 Cycl 1000 500 500 500 500 7.5 150 1000 0 Cycl 1000 500 500 500 500 500 500 500	1321 1327 1+1+1 CN es 1332 X1+C N1C eS 1345 1345 1345 1345 1345	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. 223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla.	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co. Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola
CMJC CMKH KGHF KGMB KTFI WADC WSMB 1330 CMJA KGB KSCJ WDRC WSAI WTAQ CMBA CMBF CMCD CMCU CMCU CMCY KFPY WCOA WSPD	kil	15 250 500 250 250 250 1000 500 1000 500 500 500 500 500 500	1321 1327 X+ 1+ CN eS 1332 X+C CN 1C eS 1345 1345 1345 1345 1345 1345 1345 1345	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. 223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co. Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.
CMJC CMKHF KGHF KGMB KTFI WADC WSMB 1330 CMJA KGB WSPD CMJA WADC WSAI WTAQ CMBA CMBF CMCD CMCU CMCY WSPD CMCU CMCY WSPD T350	kil	15 250 500 250 1500 1500 0 Cycl 10 250 1000 500 500 500 500 7.5 15 50 1000 500 500 500 500 500 500 500	1321 1327 X+ 1+ CN es 1332 X+C CN 1C es 1345 1345 1345 1345 1345 1345 1345 1345	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. 223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio 222.1 meters	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co. Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co.
CMJC CMKH KGHF KGMB KTFI WADC CWSMB 1330 CMJA KGB WDRC WSAI WTAQ 1340 CMBA CMGF CMCY KFPY WCPD WSPW WSDA CMSS CMSS WDRC WSAI WTAQ TOWN TOWN WSW WTAQ TOWN WSW WSW WSW WSW WSW WSW WSW WSW WSW W	kil	15 250 500 250 250 250 250 250 1000 500 1000 500 1000 500 7.5 50 15 50 1000 500 7.5 15 50 1000 500 7.5	1321 1327 174 174 174 175 175 175 175 175 175 175 175 175 175	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. 223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio 222.1 meters	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co. Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co. Greater St. Louis Broadcasting Corp.
CMJC CMKH KGHF KGMB KID WADD WSMD 1330 CMJA KGB WDRC WSAI WTAQ CMBF CMCD CMCU CMCY KFPY WCOA WSPD 1350 KWK WAWZ WBNX	kil	15 250 500 250 250 250 250 250 1000 500 1000 500 1000 500 7.5 50 15 50 1000 500 7.5 15 50 1000 500 7.5	1321 1327 X+ 1+ CN es 1332 X+C CN 1C es 1345 1345 1345 1345 1345 1345 1345 1345	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. 223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio 222.1 meters	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co. Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co. Greater St. Louis Broadcasting Corp. Pillar of Fire Standard Cahill Co., Inc.
CMJC CMKHF KGHF KGMB KTFI WADC WSMB 1330 CMJA KGB WSPD CMJA WADC WSAI WTAQ CMBA CMBF CMCD CMCU CMCY WSPD CMCU CMCY WSPD T350	kil	15 250 500 250 1500 1500 0 Cycl 10 250 1000 500 500 500 500 7.5 15 50 1000 500 500 500 500 500 500 500	1321 1327 X+ 1+ CN es 1332 X+C N1C es 1345 1345 1345 1345 1345 1345 1345	Camaguey, Cuba Santiago de Cuba Pueblo, Colo Honolulu, Hawaii Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La. 225.4 meters Camaguey, Cuba San Diego, Cal. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis. 223.7 meters Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Fort Smith, Ark. Spokane, Wash. Pensacola, Fla. Toledo, Ohio 222.1 meters	Alberto Ravelo C. P. Ritchie & J. E. Finch Honolulu Broadcasting Co., Ltd. KID Broadcasting Co. Radio Broadcasting Corp. Allen T. Simmons Saenger Theatre & Maison Blanche Co. Pedro Nogueras Pickwick Broadcasting Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co. Oscar Montenegro Jose G. Reigada Angel Bertamaty Jorge Garcia Serra M. D. Autran Southwestern Hotels Co. Symons Broadcasting Co. City of Pensacola Toledo Broadcasting Co. Greater St. Louis Broadcasting Corp. Pillar of Fire

INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocyc	cles 220.4 meters		
CMKF 30	1363 Holguin, Cuba	Manuel J. de Gongora	
KGER * 1000	4 Long Beach, Cal.	C. Merwin Dobyns KGIR, Inc.	
KGER * 1000 KGIR † 500	Butte, Mont. Pasadena, Cal.	Pasadena Star-News	
KPSN 1000 WCSC * 500	Charleston, S. C.	Jordan & Burk	
WFBL * 1000	C+X Syracuse, N. Y.	One Leaves Broadcasting Station, Inc.	
WGES * 500	1+ Chicago, III. 1+ Gary, Ind. CPD Vicksburg, Miss.	Oak Leaves Broadcasting Station, Inc. Johnson-Kennedy Radio Corp.	
WJKS * 1000 WQBC 300	Charleston, S. C. C+X Syracuse, N. Y. 1+ Chicago, III. 1+ Gary, Ind. CPD Vicksburg, Miss.	Delta Broadcasting Co., Inc.	
		9//2/2	
1370 kilocyc		Conora Sebater	
CMGE 30	1375 Cardenas, Cuba	Genaro Sebater Champlin Refining Co.	
KCRC † 100 KFBL * 50	2+ Enid, Okla. 3 Everett, Wash.	Champlin Refining Co. Leese Bros.	
KFII 100	3 Everett, Wash. Astoria, Ore. Grand Forks, N. D.		
KFIM † 100	Grand Forks, N. D.	University of North Dakota Estate of H. C. Meachem	
KFJZ * 100	Galveston, Texas	George Roy Cloudii	
KGAR * 100	+ Tucson, Ariz.	Mitchell Broadcasting Corp.	
KGDA † 100		Oklahoma Broadcasting Co., Inc.	
KGFG † 100 KGFL † 50			
KGKL † 100	San Angelo, Texas	KGKL, Inc., Opr. by Ragsdale Auto W. W. McAllister	
KMAC 100	San Antonio, Tex.	Mission Broadcasting Co.	
KONO † 100 KOOS * 100	Marshfield, Ore.	H H Hanseth, Inc.	
KRE 100	6 Berkeley, Cal.	First Congregational Church KVL, Inc.	
KVT 100	3 Seattle, Wash.	Wilson Duncan Broadcasting Co.	
ŘWKC - 100 KZM + 100	A Havward Cal.	Leon P. Tenney W. N. Parker and H. H. Metcalfe	
WBGF † 50	Glens Falls, N. Y.	W. N. Parker and H. H. Wettand	
WBTM † 100) 7 Danville, va.) +Z Baltimore, Md.		
WELK 100	+ Philadelphia, Pa.	WELL Honodeasting Station, men	
WEDV 100) Rome, Ga	Dolies Goings Fred C. Zieg F. P. Moler	
WGL * 100 WHBD * 100	Mount Orab, Ohio		
WHRO 100	Memphis, Tenn.	Upper Michigan Broadcasting Co.	-
WHDF † 100	+ Calumet, Mich. 1 Jackson, Mich.	WIBM, Inc. James F. Hopkins, Inc.	
	1 Detroit, Mich.	Y Air Stations	
WLEY 100) + Lexington, Mass.	Lynchburg Broadcasting Corp.	
WLVA † 100 WMBR † 100	Tampa, Fla.	F. J. Reynolds	
WPOE † 100	0 Patchogue, N. 1.	Nassau Broadcasting Corp.	
WQDM * 100 WRAK * 50	0 D St. Albans, Vt. Williamsport, Pa.	A. J. St. Antoine C. R. Cummins	
WRBI † 10	Mattiesburg, Miss.	Wilmington Radio Association	
WRBT * 100	n wilmington, N. C.	Racine Broadcasting Corp.	
WRJN 100 WSVS * 50	0 Buffalo, N. Y.	Samaca Vacational School	
WRDO \$ 100	O CP Augusta, Me.	Albert S. Woodson	
1380 kilocy		7 %	
	, 0.00	Jay Peters	
KOH † 500 KQV † 500 KSO * 500	0 2 Pittsburgh, Pa.	Doubleday-Hill Electric Co.	KCYS.
KSO * 500	0 1 Clarinda, Iowa	Berry Seed Co.	1400
WKBH * 100	00 1 La Crosse, Wis. 00 2 Dayton, Ohio	Stanley M. Krohn, Jr.	
***************************************		2 11	MTRS.
1390 kilocy	ycles 215.7 meters	Beedseting Co.	214.2
KLRA * 100	00 1C Little Rock, Ark.	Arkansas Broadcasting Co. Nielson Radio & Sporting Goods Co.	DIAL
KOY • 50	00 Phoenix, Ariz. 00 1 Fayetteville, Ark.	University of Arkansas	D
KUOA † 100 WHK * 100	00 1 Fayetteville, Ark. 00 C Cleveland, Ohio	Radio Air Service Corp.	
		7/2	i
1400 kilocy	, 0100	Heriberto Meireles	_
	30 1405 Havana, Cuba 15 1405 Havana, Cuba	Iose L. Ferriol	CUT OUT ON
CMBN 3		Armado Romeu Emilio Salas	35
CMBO 5	50 1405 Havana, Cuba	Bertin Fernandez	ЩQ
CMRY III	1405 Havana, Cuba 1405 Havana, Cuba 1405 Havana, Cuba 1405 Havana, Cuba 00 X Ogden, Utah 00 X Chikasha Okla	Lino E. Cosculluala	<u> </u>
KLO * 50	00 X Ogden, Utah	Peery Building Co. College for Women	150
KOCW * 25	50 + Chickasha, Oku.	Purdue University	ラブ
WBAA † 50			\ "
/	[47	1	1

WBBC WCGU WCMA WFOX WKBF WLTH	†	500 500 500 500 500 500	2 1 2 1 2	Brooklyn, N. Y. Brooklyn, N. Y. Culver, Ind. Brooklyn, N. Y. Indianapolis, Ind. Brooklyn, N. Y.	H C F I
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1410 kilocycles 212.6 meters

KFLV	t	500	4	Rockford, Ill.
KGRS	•	1000	1	Amarillo, Texas
WBCM		500	С	Bay City, Mich.
WDAG		250	1X	Amarillo, Texas
WHBL		500	4	Sheboygan, Wis.
WHIS	t	250		Bluefield, W. Va.
WLEX		500	2	Lexington, Mass.
WODX	•	500	3	Mobile, Ala.
WRBX		250		Roanoke, Va.
WSFA	t	500	3	Montgomery, Ala.
WSSH	÷	500	2	Boston, Mass.

1420 kilocycles 211.1 meters

1420	KII	OCyc.	163	ZII.I IIICCCIS
CMHE		20	1429	Santa Clara, Cuba
KBPS		100	4	Portland, Ore.
KFIZ	*-	100	•	Fond du Lac, Wis.
KFQU	*	100	5X.	Holy City, Cal.
KFQW		100	J/L_	Seattle, Wash.
KFXD	¥-	100	ΧY	Nampa Idaho
KFXY	•	100	AI	Nampa, Idaho Flagstaff, Ariz.
KFŶŎ	Ť	100	<u> </u>	Abilene, Texas
KCEE		100	+ Y 5	Shawnee, Okla.
KGFF	Ť	100	Ť.	San Francisco, Cal.
KGGC	- 1	100	ð	Trinidad, Colo.
KGIW	1-			Les Veres Nevede
KGIX	T	100		Las Vegas, Nevada
KGKX		100	CPD	Sand Point, Idaho
KGVO		100	CPD	Missoula, Mont.
KICK	•	100		Red Oak, Iowa
KLPM	‡	100		Minot, North Dakota
KORE		100		Eugene, Ore.
KTAP	t	100		San Antonio, Texas
KXL		100	4	Portland, Ore.
KXYZ		100	X	Houston, Texas
WEDH	*	100		Erie, Pa.
WEHS		100	2	Cicero, Ill.
WELL	İ	50	х	Battle Creek, Mich.
WFDW	*	100		Talladega, Ala.
WHDL	*	10	ĎΧ	Tupper Lake, N. Y.
WHFC		100	2	Cicero, Ill.
WIAS	Ţ	100		Ottumwa, lowa
WIBR	÷	50		Steubenville, Ohio
WILM		100		Wilmington, Del.
WIBO		100		New Orleans, La.
WJBO WKBI		100	2	Chicago, Ill.
WLBF		100	_	Kansas City, Kas.
WMBC	*	100	$\bar{\mathbf{x}}$ +	Detroit, Mich.
WMBH	-	100	+	Joplin, Mo.
WPAD	Ŧ-	100		Paducah, Ky.
WSPA	7	100	+	Spartanburg, S. C.
	*		T	Cumberland Md
WTBO	-	100		Cumberland, Md.

1430 kilocycles 209.7 meters

ŒCA	İ	1000	N	Los Angeles, Cal.
CONF	Ì	500	D	North Platte, Neb.
VBAK	Ť	500	1X+	Harrisburg, Pa.
VCAH	*	500	1C	Columbus, Ohio
VGBC	*	500	28	Memphis, Tenn.
VHP		500	1C+	Harrisburg, Pa.
VNBR	•	500	2	Memphis, Tenn.
KEP		2500		Laredo, Mex.

1440 kilocycles 208.2 meters

KLS	*	250	D	Oakland, Cal.
WBIG		500		Greensboro, N. C.
WCBA		250	1	Allentown, Pa.
WHEC	*	500	2C	Rochester, N. Y.
WMBD		500	3+	Peoria Heights, Ill.
WOKO		500	2Y	Poughkeepsie, N. 1
WSAN	*	250	ī	Allentown, Pa.
WTAD	+	500	3	Quincy, Ill.
	•			

Brooklyn Broadcasting Corp. U. S. Broadcasting Corp. General Broadcasting Corp. Paramount Broadcasting Co. Indianapolis Broadcasting, Inc. The Voice of Brooklyn, Inc.

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

Juan del Regato Benson Polytechnic Institute Reporter Printing Co. W. E. Riker W. E. Riker
KFQW, Inc.
Service Radio Co.
Mary M. Costigan
T. E. Kirksey
KGFF Broadcasting Co.
Golden Gate Broadcasting Co.
Leonard E. Wilson
Las Vegas, Nevada, Radio Corp.
C. E. Twiss and F. H. McCann
Mother's Incorporate C. E. Twiss and F. H. McCann Mosby's Incorporate Red Oak Radio Corp. John B. Cooley Eugene Broadcasting Station Alamo Broadcasting Co. KXL Broadcasters, Inc. Harris County Broadcast Co. Erle Dispatch-Herald WEHS, Inc. Enquirer-News Co. Raymond G. Hammett Tupper Lake Broadcasting Co., Inc. Triangle Broadcasters Triangle Broadcasters
Iowa Broadcasting Co.
George W. Robinson
Delaware Broadcasting Co., Inc. Valdemar Jensen
Fred L. Schoenwolf
WLBF Broadcasting Co.
Michigan Broadcasting Co., Inc. Edwin Dudley Aber Paducah Broadcasting Co. Voice of South Carolina Associated Broadcasting Corp.

Pacific Development Radio Co. Great Plains Broadcasting Co. Penna. State Police Commercial Radio Service Co. Memphis Broadcasting Co. Pennsylvania Broadcasting Co. Memphis Broadcasting Co. La Voz Latino

Warner Bros. North Carolina Broadcasting Co. B. B. Musselman Hickson Electric & Radio Corp. Peorla Heights Radio Laboratory WOKO, Inc. Allentown Call Publishing Co., Inc. Ills. Stock Medicine Broadcasting Co.

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INDEX	BY FREQUENCIES AN	D DIAL NUMBERS	
1450 kilocycles	206.8 meters		
CMKA 20 KTBS * 1000 WBMS * 250 1 WGAR † 500 N WHOM * 500 1 WKBO * 250 1 WNJ * 250 1 WSAR * 250 WTFI - 500 D	Santiago de Cuba Shreveport, La. Hackensack, N. J. Cleveland, Ohio Jersey City, N. J. Jersey City, N. J. Newark, N. J. Fall River, Mass. Toccoa, Ga.	Arturio C. de Ribas Tri-State Broadcasting System, Inc. WBMS Broadcasting Corp. WGAR Broadcasting Co. New Jersey Broadcasting Corp. Camith Corp. Radio Investment Co. Doughty & Welch Electric Co., Inc. Toccoa Falls Institute	
1460 kilocycles	205.4 meters	2	
KSTP * 10000 NX WJSV * 10000	St. Paul, Minn. Alexandria, Va.	National Battery Broadcasting Co. Independent Publishing Co.	
1470 kilocycles	204.0 meters		
KGA † 5000 WLAC * 5000 1C WTNT 5000 1	Spokane, Wash. Nashville, Tenn. Nashville, Tenn.	Northwest Broadcasting System, Inc. Life & Casualty Insurance Co. Life & Casualty Insurance Co.	
1480 kilocycles	202.6 meters		
KFJF * 5000 C WKBW * 5000 C	Oklahoma City Buffalo, N. Y.	National Radio Mfg. Co. Buffalo Broadcasting Co., Lessees	
1490 kilocycles	201.2 meters	ė,	
WCHI * 5000 1 WCKY * 5000 1N WJAZ _ 5000 1	Chicago, Ill. Covington, Ky. Chicago, Ill.	People's Pulpit Association L. B. Wilson, Inc. Zenith Radio Corp.	
1500 kilocycles	199.9 meters		
CMBH 30 CMBL 15 CMBP 15 CMBR 15 CMBR 15 CMCM 15 CMCM 15 CMCM 15 CMCM 15 KDB 100 KGFI * 100 + KGFK † 50 KGKB 100 KGKY * 100 KFJM * 100 KPJM * 100 KPJM * 100 KPJM 100 KVJ 100 KVJ 100 WCLB 100 WCLB 100 WCLB 100 WCLB 100 WCLB 100 WKBV * 100 WKBV * 100 WKBV * 100 WKBV * 100 WKBV * 100 WKBV * 100 WWBQ * 100 WMBQ * 100 WMBQ * 100 WMBQ * 100 WMBQ * 100 WMBQ * 100 WMBF * 100 WOPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100 WYPEN * 100	Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Havana, Cuba Sagua la Grande, Cuba Santa Barbara, Cal. Corpus Christi, Texas Moorhead, Minn. Grant City, Mo. Brownwood, Texas Scottsbluff, Nebr. Prescott, Ariz. Wenatchee, Wash. Santa Ana, Cal. Walla Walla, Wash. Austin, Texas El Centro, Cal. Long Beach, N. Y. Tupelo, Miss. Connersville, Ind. Ludington, Mich. Long Island City, N. Y. Boston, Mass. Newport, R. I. Brooklyn, N. Y. Lapeer, Mich. Binghamton, N. Y. Bristol, Tenn. Phildelphia, Pa. Augusta, Ga. Woodside, N. Y. Rutland, Vt.	Gustavo Huber Julio C. Hidalgo Ricardo Perkins Tomas Basail Martinez y Madico Alberto Fernandez Santiago Ventura Dwight Faulding Eagle Broadcasting Co., Inc. Red River Broadcasting Co., Inc. Grant City Park Corp. Eagle Publishing Co. Hilliard Co., Inc. Miller & Klahn Wescoast Broadcasting Co. Pacific Western Broadcasting Columbia Broadcasting Co., Inc. Driskill Hotel E. R. Irey and F. M. Bowles Arthur Faske North Mississippi Broadcasting Corp. Knox Battery & Electric Co. K. L. Ashbacker John N. Brahy Boston Broadcasting Co. LeRoy Joseph Beebe Paul J. Gollhofer First M. P. Church Howitt-Wood Radio Co., Inc. Radiophone Brdestg. Station, Inc. Wm. Penn Broadcasting Co. Varren C. Davenport's Musicove, Inc. Long Island Broadcasting Corp. Seward & Weiss Music Co. William S. Walker	ксуs. 1500 мтгs. 199.9
100 CP	Pittsburgh, Pa.	william 5. walker	DIAL

[49]

DIAL

ALABAMA	Watts		Kcys.	San Jose J-1	500	Kow	1010
Birmingham O-21	5000	WAPI	1140	Santa Ana M-3 Santa Barbara M-2	100	KOW KREG	1500
Birmingham O-21	500	WBRC	930	Santa Barbara M-2	100	KDB	1500
	100	WKBC	1310	Santa Maria L-2 Stockton J-2	100 250	KSMR KGDM	1200 1100
Gadsden O-21	50 500	WJBY WODX	1210 1410		100	KWG	1200
Mobile Q-20 Montgomery P-21	500	WSFA	1410	601.00.100			
Talladega O-21	100	WFDW	1420	COLORADO			
				Colorado Springs K-1	1 1000	KFUM	1270
ALASKA				Denver K-11	500 100	KFEL KFUP	920 1310
Anchorage	100	KFOD KFIU	1230		500	KFXP	920
Juneau	_10	KFIU	1310	li .	1000	KLZ	5 60
Ketchikan	500	KGBU	900		12500	KOA KPOF	830
ADIZONIA				Edgewater K-10	500 50	KFXJ	880 1310
ARIZONA				Fort Morgan J-11	100	KGEW	1200
Flagstaff M-7	100	KFXY	1420	Greeley J-11 Pueblo L-11	500	KFKA	880
Jerome M-6 Phoenix N-6	100 500	KCRJ KOY	1310 1390	Pueblo L-11 Trinidad L-11	250	KGHF	1320
PHOEIIX N-0	500	KTAR	620	Yuma J-12	100 50	KGIW KGEK	1420 1200
Prescott M-6	100	KPJM KG AR	1500	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00	KOLK	1200
T 0. 7	100	KGAR	1370	CONNECTICUT			
Tucson O-7	500	KVOA	1260	+			
ADIZANICAC				Bridgeport H-27 Hartford H-27	500 500	WICC WDRC	1190
ARKANSAS				Hartiord H-2/	50000	WTIC	1330 1060
Blytheville M-19	50	KLCN	1290	Storrs H-28	250	WCAC	600
Fayetteville M-16 Fort Smith N-16	1000 50	KUOA KFPW	1390				
Hot Springs N-17	10000	KTHS	1340 1040	DELAWARE			
Hot Springs N-17 Little Rock N-17	100	KGHI	1200		250	WEST	1110
	250	KGJF KLRA	890	Wilmington J-26	250 100	WDEL WILM	1120 1420
Paragould M-18	1000 100	KBTM	1390 1200	1	100	W ILL	1420
r urugouite M-10	100	1001111	1200	DISTRICT OF	COLIT	MRIA	
CALIFORNIA				Washington J-26	250		630
	100	· · · · · ·		Washington J-20	500	WRC	950
Berkeley J-2 Burbank M-3	100 500	KRE KELW	1370 780		100	WOL	1310
Culver City M-3	250	KFVD	1000	FLORIDA			
Culver City M-3 El Centro N-4	100	KXO	1500	Clearwater R-24	1000	WFLA	620
Fresno K-2	100	KMJ	1210	Gainesville Q-24	5000	WRUF	830
Hayward J-1 Hollywood M-3	100 1000	KZM KFWB	1370 950	Jacksonville Q-24 Miami T-25	1000	WJAX	900
-	5000	KNX	1050	Miami T-25	1000	WIOD	1300
Holy City K-1 Inglewood M-3	100	KFQU	1420	Orlando R-24	1000 500	WQAM WDBO	560 1120
Inglewood M-3	500	KMČS KFOX	1120 1250	Pensacola Q-21	500	WCOA	1340
Long Beach M-3	1000 1000	KGER	1360	St. Petersburg S-24	1000	WCOA WSUN	620
Los Angeles M-3	1000	KECA KFI	1430	Tampa R-24	1000	WDAE	1220
•	5000	KFI	640 1120		100	WMBR	1370
	500 1000	KFSG KGEF	1120	GEORGIA			
	100	KGFJ	1200	Atlanta O-22	250	WGST	890
	1000	KHJ	900	4	5000	WSB	740
	500	KMPC	710 570	Augusta O-23 Columbus O-22	100 50	WRDW WRBL	1500 1200
	500 500	KMTR	570 780	Macon O-23	250	WMAZ	890
	1000	KTM KTBI	1300	Rome N-22	100	WFDV	1370
Oakland J-1	250	KLS	1440	Savannah O-24 Thomasville Q-22	500	WTOC	1260
	500	KLX	880	Thomasville Q-22 Tifton P-23	50 100	WODX WRBI	1210 1310
Pasadena M-3	500 50	KROW KPPC	930 1210	Toccoa N-23	500	WTFI	1450
	1000	KPSN	1360				50
Sacramento J-2	100	KFBK	1310	HAWAII			
San Bernardino M-3		KFXM	1210	Honolulu	500	KGMB	1320
San Diego N-3	500 250	KFSD KGB	600 1330	1101101010	1000	KGU	940
San Francisco J-1	1000	KFRC	610	IDALIC			,,,,
	500	KFWI	610 930	IDAHO			
	100	KGGC	1420	Boise G-5	1000	кто	1250
	7500 100	KGO KJBS	<i>7</i> 90 1070	Idaho Falls G-7 Nampa G-5	250 50	KID KFXD	1320 1420
	5000	KPO	680	Pocatello H-7	250	KSEI	900
	1000	KTAB	560	Sand Point D-6	100	KGKX	1420
	1000	KYA	1230	Twin Falls H-6	250	KTFI	1320

ILLINOIS	1420
Chicago 1-20 10000 KFKX 1020 10000 KYW 1020 500 WAAF 920 25000 WBBM 770 1500 WCFL 970 5000 WCHI 1490 100 WCRW 1210 50000 WENR 870 5000 WENR 870 5000 WGS 1360 25000 WGN 720 1000 WISO 560 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 250	1420
Sioux City 1-15 1000 KSC 25000 WBM 770 1500 WCFL 970 1500 WCFL 970 1000 WCRW 1210 100 WEDC 1216 50000 WENR 870 1000 WIBO 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000 WJAZ 1490 25000	
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25000 WGN 720 1000 WIBO 560 5000 WJAZ 1490 25000 WJAZ 1490 100 WKBI 1420 5000 WLS 870 5000 WMAQ 670 5000 WMBI 1080 5000 WMSI 1820 5000 WMSI 1820 5000 WMSI 1820 5000 WMSI 1820 5000 WMSI 1820 5000 WCS 560 WCC 560 Cleare L20	1220
25000 WJBT 770 Topeka K-16 1000 WIBV 1420 WkBI 1420 Wichita L-15 1000 KFH Wichita L-15 1000 KFH Wichita L-15 1000 KFH S000 WMAQ 670 KENTUCKY S000 WMBI 1080 S00 WPCC 560 Covington K-22 5000 WCK Hopkinsville M-20 1000 WFIV	T 1220 580
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	7 1490 940
100 WELLS 1400 II LOUISVILLE L-ZI 10000 WHA	820
Decatur K-19 100 WHFC 1420 Poderach M 10 WPAT	1200 1420
Galesburg J-18 100 WKBS 1310	
Harrisburg L-19 100 WEBQ 1210 LOUISIANA	
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Mooseheart I-19 20000 WJD 1130 1100 WJBC	1420 1200
Quincy K-18 500 WTAD 1440 500 WSMI Rockford I-19 500 KFLV 1410 5000 WWIL	1320
South fail 1 10 WIDS 1210 Shreveport P-17 50 KRM	
100 WTAX 1210 100 KTS1	1450 1310
Tuberra 1 20 100 WILL 1000 100 KWEA	1210
Zion I-20 250 WLEL 890 MAINE 10000 KWKI	i 850
Augusta_F-28 100 WRD	1370
II Bangor F-29 100 WARI	1200
II D 4 4 D 4	620 940
Connersyille K-21 100 WKBV 1500	
Culver I-20 500 WCMA 1400 MARYLAND Evansville L-20 500 WGBF 630 Relationary 120	
Fort Wayne J-21 100 WGL 1370 Baltimore J-26 10000 WBAL	1060 600
Gary I-20 1000 WIKS 1360 100 WCBN	1370
Hammond I-20 100 WWAE 1200 Company of 125 500 WEBS	1270 1420
500 WKBF 1400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400 3400	1120
Lafayette J-20 500 WBAA 1400 MASSACHUSETTS La Porte I-20 100 WRAF 1200 Boston G-28 1000 WRIS	
Marion J-21 50 WJAK 1310 II 1000 WEET	1230 590
South Bond I 20 E00 WCDT 1220 II	830
Terre Haute K-20 100 WBOW 1310 1000 WNAC	1500 1230
500 WSSH Fall River H-28 250 WSAR	1410
IOWA Lexington G-28 500 WLEX	1450 1410
Ames I-17 5000 WOI 640 New Redford H-28 100 WEET	1370 1310
5000 1-1/ 100 KPCW 1310 Springfield H-27 15000 WBZ-4	990
1360 Worcester G-28 100 WEPS	920 1200
	1200
Decorah H-18 50 KGCA 1270 250 WIRG	5 80
Des Moines I-17 5000 WHO 1000 WIIGHIGAN	
Fort Dodge I-16 100 KFIY 1310 Battle Creek I-21 50 WELL	1420
Marshalltown I-17 100 KFJB 1200 Berrien Springs I-20 1000 WKZO	1410 590
Muscatine J-18 5000 KTNT 1170 Calumet E-19 100 WHDF	1370

	y						
Detroit H-22	50	WJBK	1370 750	NEVADA	Watts		Kcys
	5000	WJBK WJR WMBC	750 1420		100	KGIX	1420
	100 1000	WWI	920	Las Vegas L-5 Reno I-3	500	кон	1380
	1000	WWJ WXYZ	1240	Į.			
East Lansing H-21	1000	WKAR WFDF	1040 1310	NEW HAMPSHI	RE		
Flint H-22	100 100	WPDF	1200	Laconia G-28	100	WKAV	1310
Grand Rapids H-21	500	WASH	1270 1270				
7 1 7 21	500	WOOD	1270 1370	NEW JERSEY			
Jackson I-21 Lapeer H-22	100 100	WIBM WMPC	1500	Asbury Park I-27	50 0	WCAP	1280
Ludington H-20	-ŠŎ	WKBZ	1500	Atlantic City J-27	5000	WPG WCAM	1100
Marquette F-19	100	WBEO WEXL	1310 1310	Camden I-26	500 250	WCAM WBMS	1280 1 450
Royal Oak H-22	50	WEAL	1310	Hackensack I-27 Jersey City I-27	300	WAAT	940
MINNESOTA				Jersey City 1-21	500	WHOM	1450
Fergus Falls F-15	100	KGDE	1200	N1- T 27	250 1000	WKBO WAAM	1450 1250
Minneapolis G-17	7500	WCCO WDGY	810	Newark I-27	250	WGCP	1250
	1000 500	WHDI	1180 1180		250	WNJ	1450
	1000	WRHM	1250	B	5000 1000	WOR WODA	710 1250
Moorhead F-15	50	KGFK	1500	Paterson I-27 Red Bank I-27	100	WIBI	1210
Northfield G-17	1000 1000	KFMX	1250 1250	Trenton I-26	500	W JBI WOAX	1280
St. Paul G-17	1000	WCAL WLB	1250				
	10000	KSTP	1460	NEW MEXICO			
MISSISSIPPI			1010	Albuquerque N-7	250	KGGM	1230
Greenville O-18	100 100	WRBQ WGCM	1210 1210	Raton M-11 State College P-9	50	KGFL	1370
Gulfport Q-19 Hattiesburg Q-19	100	WRBI	1370	State College P-9	20000	KOB	1180
Hattiesburg Q-19 Jackson P-19	1000	WJDX WCOC	1270				
Meridian P-20	500 100	WDIX	880 1500	NEW YORK			
Tupelo N-20 Vicksburg P-18	300	WOBC	1360	Auburn H-25_	100	WMBO	1310
				Binghamton H-26	100 500	WNBF WBBC	1500 1400
MISSOURI	100	171710	1210	Brooklyn I-27	1000	WBBR	1300
Cp. Girardeau L-19	100 500	KFVS KFRU	1210 630		500	WCGU	1400
Columbia K-17 Grant City J-16	50	KGIZ	1500	1	500 500	WFOX WLTH	1400 1400
Grant City J-16 Jefferson City L-17	500	wos	630		100	WMBQ	1500
Joplin M-16	100 1000	WMBH KMBC	1420 950	Buffalo H-24	1000	WBEN	900
Kansas City K-16	100	KWKC	1370		100 1000	WEBR WGR	1310 550
	1000	WDAF	610		5000	WKBW	1480
	500 1000	WHB WOO	860 1300		1000	WMAK WSVS	1040 1370
St. Joseph K-16	2500	KEED	680	Canton F-26	50 500	WCAD	1220
-	100	KGBX	1310	Freeport I-27	100	WGBB	1210
St. Louis L-18	50 0 100	KFUO KFWF	550 1200	Glens Falls G-2/	50	WBGF	1370
	50000	KMOX	1090	Ithaca H-25	1000 50	WEAI WLCI	1270 1210
	500	KSD KWK	550 1350	Jamaica H-27	100	WMRJ	1210
	1000 1000	WEW	760		25	WOCL	1210
	100	WIL	1200	Long Island City I-27 Long Beach I-27	100 100	WLBX WCLB	1500 1500
MONTANA				New York City I-27	0000	WABC	860
Billings F-9	1000	KGHL	950		250	WAWZ	1350 1350
Butte F-7	500	KGIR	1360	l	250 5000	WBNX WBOQ	1350 860
Great Falls E-8 Kalispell D-7	1000 100	KFBB KGEZ	1280 1310	li .	250	WCDA	1350
Missoula E-7	100	KGVO	1420	ll .	50000	WEAF	1300
Wolf Point E-11	100	KGCX	1310	11	500 250	WEVD WGBS	1300 600
NEBRASKA				ii .	1000	WHAP	1300
Clay Center J-14	1000	KMMJ	740	I	250	WHN	1010
Lincoln J-15	5000 100	KFAB KFOR	<i>77</i> 0 1210	ll .	30000 5000	WJZ WLWL	760 1100
	500	WCAI	590	ll .	500	WMCA	/ 570
Norfolk I-15	1000	WJAG KGNF	1060		250	WMSG WNYC	1350 570
North Platte J-13	500 500	KGNF WAAW	1430 660		500 1000		1130
Omaha J-15	1000	WOW	590		250	WPAP	1010
Ravenna J-14	100	KGFW	1310		500	WPCH	810
Scottsbluff I-11 York J-15	100 500	KGKY KGBZ	1500 930		250 250	WOAO WRNY	1010 1010
	200	KUDD	730	II .	200	*****	

Patchogue I-27	100	WPOE	1370	Marshfield F-1	100	KOOS	1370
Poughkeepsie H-27	50 0	woko	1440	Medford G-2	50	KOOS KMED	1310
Rochester G-25	5000	WHAM	1150	Portland E-3	5000	KEX	1180
	500	WHEC	1440		100	KBPS	1420
Saranac Lake F-26	50	WNBZ	1290		500	KFJR KGW	1300
Schenectady G-27	50000	WGY	790		1000	KGW	620
Syracuse G-25	1000	WFBL	1360		1000	KOIN	940
	250 250	WMAC WSYR	570 570		500 500	KTBR KWJJ	1300 1060
Troy G-27	500	WHAZ	1300		100	KXL	1420
Tupper Lake F-26	10	WHDL	1420		100	KAL	1420
Utica G-26	100	WIBX	1200	I PENNSYLVANI	Α		
Woodside I-27	100	WWRL	1500	Allentown I-26	250	WCBA	1440
Yonkers I-27	100	WCOH	1210	Allentown 1-20	250	WSAN	1440
				Altoona I-25	100	WFBG	1310
NODELL CAROL	T > T 4			Carbondale H-26	10	WNBW	1200
NORTH CAROL	INA			Elkins Park I-26	5ŏ	WIBG	930
Asheville M-23	1000	WWNC	570	Erie H-24	30	WEDH	1420
Charlotte M-24	5000	WBT	1080	Grove City I-24	100	WSAJ	1310
Gastonia M-24	100	WSOC WBIG	1210	Harrisburg I-25	500	WBAK	1430
Greensboro M-24	500	WBIG	1440	_	100	WCOD	1200
Raleigh M-25	1000	WPTF	680	l	500	WHP	1430
Wilmington N-26	100	WRBT	1370	Johnstown J-24	100	WJAC	1310
Winston-Salem M-24	100	wsjs	1310	Lancaster I-26	100	WGAL	1310
				I 1-1 I 26	100	WKJC	1200
NORTH DAKOT	ΓA			Lewisburg I-26 Oil City I-24	100 500	WJBU WLBW	1210 1260
Bismarck F-13	1000	KFYR	550	Dhiladalahia I 26	10000	WCAU	1170
Devils Lake E-14	100	KDLR	1210	Philadelphia I-26	100	WELK	1370
Fargo F-15	1000	WDAY	940		500	WFAN	610
Grand Forks E-15	100	KFIM	1370		500	WFI	560
Mandan F-13	100	KFJM KGCU	1200		100	WHAT	1310
Minot E-13	100	KLPM	1420		500	WIP	610
•					500	WLIT	560
OHIO					100	WPEN	1500
					250	WRAX	1020
Akron I-23	1000	WADC	1320	l _	50	WTEL	1310
Canton I-23	10	WHBC	1200	Pittsburgh J-24	50000	KDKA	980
Cincinnati K-22	100	WFBE	1200		500	KOV WCAE	1380
	1000	WKRC	550		1000	WCAE	1220
	50000 500	WLW WSAI	700 1330		1000	WJAS	1290
Cleveland I-23	500	WGAR	1450	Reading I-26	100 50	WRAW	1500 1310
Cleveland 1-23	1000	WHK	1390	Scranton H-26	250	WGBI	880
	500	WIAY	610	Scranton 11-20	250	WOAN	880
	50000	WJAY WTAM	1070	State College I-25	500	WQAN WPSC	1230
Columbus J-22	500	WAIU	640	Washington I-24	100	WNBO	1200
	500	WCAH	1430	Washington J-24 Wilkes-Barre I-26	100	WBAX	1210
	750	WEAO	570		100	WBRE	1310
	100	WSEN	1210	Williamsport I-25	50	WRAK	1370
Dayton J-22	200	WSMK	1380				
Mansfield J-22	100	WJW WHBD	1210	PORTO RICO			
Mount Orab K-22	100	MHRD	1370		500	WILLO	000
Steubenville J-23	50	WIBR WSPD	1420	San Juan W-34	50 0	WKAQ	890
Toledo I-22	500 500	WKBN	1340 570				
Youngstown I-23 Zanesville J-23	100	WALR	1210	RHODE ISLAN	D		
Zanestine J-20	100	" ALK	1210			WADA	1500
OKI ATTOMA				Newport H-28 Pawtucket H-28	100 100	WMBA WPAW	1500 1210
OKLAHOMA				Providence H-28	100	WDWF	1210
Chickasha N-14	250	KOCW	1400	1 TOVIDENCE T1-20	250	WEAN	780
Elk City N-13 Enid M-14	100	KGMP	1210		250	WIAR	890
Enid M-14	100	KCRC	1370		100	WJAR WLSI	1210
Norman N-15	500	WNAD	1010		200		
Oklahoma N-15	5000	WNAD KFJF KFXR	1480	SOUTH CAROI	INA		
	100	KFXR	1310			WCCC	1260
	100	KGFG	1370	Charleston O-25	500	WCSC WIS	1360
Pomos City M 15	1000	WKY WBBZ	900 1200	Columbia N-24	500 1 00	WSPA	1010 1420
Ponca City M-15	100 50 0	WDD2		Spartanburg N-23	100	WOLA	1470
S. Coffeyville M-15 Shawnee N-15	100	KGGF KGFF	1010 1420	SOUTH DATEO	ТА		
Tulsa M-15	5000	KVOO	1140	SOUTH DAKO			
1 4134 111-10	0000		1140	Brookings H-15	500	KFDY	550
OREGON			1	Huron H-14	100	KGDY	1200
0140014			45	Mitchell H-14	100	KGDA	1370
	100	KFJI	1370	Pierre G-13	200	KGFX	580
Astoria D-2		77.00.0		D 11 OH TT 12	400	****	
Astoria D-2 Corvallis E-2 Eugene F-2	1000 100	KOAC KORE	550 1420	Rapid City H-12 Sioux Falls H-15	100 2000	WCAT KSOO	1200 1110

Vermillion I-15	500	KIISD	890	Petersburg L-26	100	WLBG	1200
Watertown G-15	100	KUSD KGCR	1210	Richmond K-26	100	WBBL	1210
Yankton I-15	1000	WNAX	5 7 0		100	WMBG	1210
TENNESSEE				Roanoke L-24	5000	WRVA	1110
Bristol L-23	100	WOPI	1500	Rounoke L-24	250 250	WDBJ WRBX	930 1410
Chattanooga N-21	1000	WDOD	1280	WASHINGTON	200	***************************************	1110
Knoxville M-22	50	WFBC	1200	Aberdeen D-2	75	KXRO	1310
	1000	WNOX	560 1310	Bellingham C-3	100	KVOS	1200
Lawrenceburg N-20	100 500	WROL WOAN	600	Everett C-3	50	KVOS KFBL	1370
Memphis N-19	500	WGBC	1430	Lacey D-3	10	KGY	1200
-	100	WHBQ	1370	Pullman E-5	1000 100	KWSC KFOW	1220 1420
	500	WMC WNBR	780 1 430	Seattle C-3	5000	KJR	970
	500 500	WREC	600		1000	KÖL	970 1270
Nashville M-21	5000	WLAC	1470		1000	KOMO	920
	5000	WSM_	650		100 50	KPCB KRSC	650 1120
St	5000	WTNT WSIX	1470		1000	KTW	1270
Springfield M-20 Union City M-19	100 100	WOBT	1210 1310		100	ŔŸĽ	1370
	100	WODI	1510		500	KXA	57 0
TEXAS				Spokane D-5	100	KFIO KFPY	1120
Abilene P-13	100 1000	KFYO	1420 1410		1000 5000	KGA	1340 1470
Amarillo N-12	250	KGRS WDAG	1410		1000	кно	590
Austin Q-14	100	KUT	1500	Tacoma D-3	500	KMÕ	860
Beaumont R-17	500	KFDM	560	Walla Walla E-5	1000	KVI	760
Brownsville U-15	500	KWWG	1260	Wana Wana E-5 Wenatchee D-4	100 50	KUJ KPQ	1500 1500
Brownwood P-14 College Sta. Q-15	100 500	KGKB WTAW	1500 1120	Yakima D-4	5 0	кіт	1310
Corpus Christi S-14	100	KGFI	1500				
Corpus Christi S-14 Dallas P-15	10000	KRLD	1040	WEST VIRGINI			
	50000	WFAA	800	Bluefield L-24	100	WHIS	1420
Dublin P-14	500 100	WRR KFPL	1280 1310	Charleston K-23	250 250	WOBU WMMN	580 890
El Paso P-9	100	KTSM	1310	Fairmont J-24 Huntington K-23	250	WSAZ	580
	100	WDAH	1310 1370	Wheeling J-24	5000	WWVA	1160
Fort Worth P-15	100	KFJZ	1370	WISCONSIN			
	1000 10000	KFJZ KTAT WBAP	1240 800				
Galveston R-16	100	KFLX	1370	Eau Claire G-18	1000 100	WTAQ KFIZ	1330 1420
	500	KFUL	1290	Fond du Lac H-19 Green Bay G-19	100	WHBY	1200
Greenville O-15 Harlingen T-14	15	KFPM	1310	Green Bay G-19 Janesville I-19	100	WCLO	1200
Harlingen 1-14 Houston R-16	500 1000	KRGV KPRC	1260 920	La Crosse H-18	1000	WKBH	1380
110030011 10-10	100	KTLC	1310	Madison H-19	750 500	WHA WIBA	940 1280
	500	KTRH	1120	·	250	WISJ	780
S 4 0 12	100	KXYZ	1420	Manitowoc H-20	100	WOMT	1210
San Angelo Q-13 San Antonio R-14	100 100	KGKL KMAC	1370 1370 1370	Milwaukee H-19	250	WHAD	1120
Gan Antonio R-14	100		1370		250 1000	WISN WTMJ	1120 620
	100	KONO KTAP	1420	Poynette H-19	100	WIBU	1210
	1000	KTSA	1290	Racine I-20	100	WRJN	1370
Waco Q-15	50000 1000	WOAI WACO	1190 1240	Sheboygan H-20	500	WHBL	1410
Wichita Falls O-14	250	KGKO	570	Stevens Pt. G-19	2000 1000	WLBL WEBC	900 1290
	· -			Superior F-17	1000	# EBC	1270
UTAH	500	MIO	1400	WYOMING			
Ogden I-7 Salt Lake City I-7	1000	KLO KDYL	1290	Casper H-10	100	KDFN	1210
Sait Dake City 1-7	5000	KSL	1130	_			•
VERMONT				CAN	ADA		
Burlington F-27	100	WCAX	1200	ALBERTA			
Rutland G-27	100	WSYB	1500	Calgary B-7	500	CFAC	690
St. Albans F-27 Springfield G-27	100 10	WQDM WNBX	1370 1200	Cangary D-7	500	CFCN	690
Springheid G-27	10	WINDA	1200		500	CHCA	690
VIRGINIA				I	500	CJCJ CNRC	690
Alexandria K-26	10000	WJSV	1460	Edmonton A-8	500 250	CHMA	690 580
Arlington J-25	1000	NAA	690		500	ČJČA	930
Danville L-25	100	WBTM	1370		500	CJCA CKUA	580
Emory L-23	100 100	WEHC	1200 1370	1 -44-4 6 8	500	CNRE	930
Lynchburg L-25 Newport News L-26	100	WLVA WGH	1310	Lethbridge C-8 Red Deer A-8	50 1000	CHCT	1120 840
Norfolk L-26	500	WPOR	780	*************************************	1000	ČKĽĊ	840
	500	WTAR	780	1	1000	CKLC CNRD	840
				I			

BRITISH	Watts	Kcys.	SASKATCHEWAI	N 500 CIRW	600
COLUMBIA			Fleming C-13 Moose Jaw C-11	500 CJRW 500 CJRM	600 600
Chilliwack B-3	5 CHWK	665	Regina C-12	500 CHWC	960
Kamloops B-5	100 CFJC	1120	1	500 CJBR	960
Sea Island	100 CFJC 50 CJOR 50 CHLS	1210		500 CKCK	960
Vancouver B-3	50 CHLS 50 CKCD	730 730	بی می	500 CNRR	960
	50 CKFC	730	Saskatoon B-11	500 CFQC	910
	50 CKMO	7 30	Yorkton B-13	500 CNRS 500 CJGX	910 630
	100 CKWX	730	Torkton B-13	300 CJGA	030
	500 CNRV	1030	HAITI		
Victoria C-3	500 CFCT	630		1000 HHK	920
A CA NITTO DA			Port au Prince X-30	1000 HHK	920
MANITOBA	500 CT737	540	MEXICO		
Brandon D-14	500 CKX 5000 CKY	780	Aguascalientes W-10	350 XFC 250 XFF	805
Winnipeg D-15	5000 CNRW	780	Chihuahua, Chih. R-9	250 XFF	915
		700	Guadalajara, Jal. X-10	101 XEA	1000
NEW BRUNSV	VICK		Juarez P-9	101 XEJ 1000 XEQ 101 XEFE	1000
Fredericton D-29	500 CFNB	1210	T 40 N. T. C 12	1000 XEQ 101 XEFE	750 1000
Fredericton D-29 Moncton D-30	500 CNRA	630	Laredo, N. L. S-13	2500 XEP	1430
St. John D-30	500 CFBO	890	Lingres N. L. U-13	10 XEE	1000
A TOTAL OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	1 A TES		Linares, N. L. U-13 Merida, Yuc. X-19 Mexico City Y-13	105 XEY	1000
NEWFOUNDLA	AND		Mexico City Y-13	1000 XEB	1030
St. Johns A-35	500 8WMC	682	J	250 XEFA 2000 XEG	1250
NOTE COOPE				2000 XEG	840
NOVA SCOTIA	1			101 XEK	1000
Glace Bay C-32 Halifax E-31	•10000 VAS	685		1000 XEN 5000 XEO 101 XER	719
Halifax E-31	500 CHNS	910		5000 XEO 101 XER	940 650
Sudmay C 32	500 CNRH 50 CJCB	910 880		500 XETA	1140
Sydney C-32 Wolfville D-31	50 CKIC	1010		500 XEX	1210
Wonvine B-or	oo orac	1010		5000 XEW	780
ONTARIO				500 XEZ	588
Chatham H-22	100 CFCO	1210		2000 XFG	638
Cobalt E-23	15 CKMC	1210		1000 XFI 500 XFX	818
Hamilton H-24	10 CHCS	1120	M N I III		860 1000
	50 CHML	880	Monterrey, N. L. U-13	101 XEH 500 XET	630
	50 CKOC	1120	Morelia Mich Y-12	101 XEI	1000
Kingston G-25	500 CFRC	930	Morelia, Mich. Y-12 Oaxaca, Oak. AA-14 Puebla Z-13 Reynosa, Tams. T-14 Saltillo, Coah. U-12	105 XEF	1000
London H-23	500 CJGC 500 CNRL	910 910	Puebla Z-13	101 XEV 10000 XED	1000
North Bay	50 CFCH	1200	Reynosa, Tams. T-14		977
Ottawa F-25	100 CKCO	890	Saltillo, Coah. U-12	10 XEL	1000
000000000000000000000000000000000000000	500 CNRO	600	Tampico, Tams. W-14	500 XEM	730
Port Arthur E-19	50 CKPR	890	Toluca. Y-12	500 XES 50 XEC	890 1000
Prescott F-25 Preston H-23	50 CFLC	1010	10luca. 1-12	30 XETN	1310
Preston H-23	25 CKPC	1210	Veracruz, Ver. Z-14	30 XETN 500 XETF	680
Toronto G-24	500 CFCA 500 CFCL	840	1 *************************************	101 XEU	1000
	500 CFCL 4000 CFRB	580 960			
	5000 CISC	690	CUBA		
	500 CKCL	580	Caibarien W-25 Cardenas W-24	250 CMHD 30 CMGE	920
	500 CKCL 5000 CKGW	690	Cardenas W-24	30 CMGE	1375
	500 CKNC	580	Camaguey W-26	10 CMJA 15 CMJC	1332 1321
	500 CNRT	840		15 CMJC 5 CMJE	856
	4000 CNRX	960	Ciego de Avila W-26	20 CMJB	1276
	5000 CPRY	690	Cienfuegos W-25	200 CMHA	1154
Waterloo G-23	50 CKCR	1010	l cicinaegos20	200 CMHA 40 CMHJ	645
Wingham G-23	25 10-BP	1200	Cifuentes	10 CMHH	870
PRINCE EDWA	ADD ISLAND		II Colon W-24	100 CMGA	834
	250 CFCY	960	Guanajay W-23 Havana W-23	30 CMAA	1090
Charlottetown C-31	100 CHCK	960	Havana W-23	50 CMBA	1345
Summerside C-31	100 CHGS	1120		150 CMBC	955
Jannier side C-31	100 01103	1120	1	150 CMBD 7.5 CMBF	955 1345
QUEBEC			1	150 CMBG	1070
Montreal E-26	500 CFCF	1030	1	30 CMBH	1500
Monda D-20	5000 CHYC	730	1	30 CMBI	1405
	5000 CKAC	730 730	1	15 CMBJ	1285
	5000 CNRM	<i>7</i> 30	1	15 CMBK	1405
Quebec D-27	100 CHRC	645	1	15 CMBL	1500
	22 CKCI	880	I	15 CMBM	1285
	50 CKCV 50 CNRQ	880 880	I	30 CMBN 15 CMBP	1405 1500
	SO CNRO	XXII	ii .		1500

CFAC		A COMPLETE	INDEX	BY CALL LI	ETT E R	S	KDB
CFAC 690		CJSC 690		CMBR 1500		CMHJ 645	
Calgary, Alta. CFBO 890		Toronto, Ont. CKAC 730		Havana, Cuba CMBS 790		Cienfuegos, Cuba CMJA 1332	<u> </u>
CFBO 890 St. John, N. B.	l i	Montreal, Que.		Havana, Cuba		Camaguey, Cuba	ı
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WPDCY 1180		Honkinsville, Kv.	Cicero, Ill.	Lewisburg, Pa.
WPDX 1500	WDGY 1180	WFLA 620	WHIS 1410	WJBW 1200
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WHBC 1200 Knoxville, Tenn. Rock Island, Ill. WHBL 1410 Sheboygan, Wis. WHBL 1360 St. Paul, Minn. WHBC 1310 Memphis, Tenn. WHBU 1210 MyAZ 1490 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. WHBU 1200 Muncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind. Wuncie, Ind.	Philadelphia Pa	Mt. Orab. O.		Nashville, Tenn.
WHBL 1410	WFBC 1200	WHBF 1210	WJAS 1290	WLAP 1200
Sheboygan, Wis. Jacksonville, Fla. St. Paul, Minn. WHBQ 1310 Altoona, Pa. WHBQ 1370 Memphis, Tenn. Cleveland, Ohio WJAY 610 Muncie, Ind. WHBU 1210 Cleveland, Ohio WJAZ 1490 WLBC 1310 Muncie, Ind. WHBY 1200 Cleveland, Ohio WJAZ 1490 WLBC 1310 WHBY 1200 La Salle, Ill. WJBC 1200 Ettrick, Va. WHBF 1370 Calumet, Mich. WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210 WJBI 1210	Knoxville, Tenn.	Rock Island, Ill.	Pittsburgh, Pa.	Louisville, Ky.
WHBQ 1370 Memphis, Tenn. WHBQ 1370 Memphis, Tenn. WHBU 1210 Muncie, Ind. WHBU 1210 Muncie, Ind. WHBU 1210 Muncie, Ind. WHBU 1210 Muncie, Ind. WHBU 1210 Muncie, Ind. WHBU 1210 Muncie, Ind. WHBY 1200 Chicago, Ill. WHBY 1200 Ettrick, Va. WHBY 1370 WHBY 1370 WHBY 1370 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310 WHDI 1310	WFBE 1200			
Attoona, Pa.	WFRG 1310	WHRO 1370	WJAY 610	WLBC 1310
WHBU 1210 WJAZ 1490 WLBF 1220 WHBU 1210 WHBY 1200 WHBY 1200 Ettrick, Va. WHBF 1270 Estimore, Md. WFDF 1310 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370 WHDF 1370	Altoona, Pa.			Muncie, Ind.
WFBM 1230 WHBY 1200 WJBC 1200 La Salle, Ill. WLBG 1200 Ettrick, Va. WLBL 200 Stevens Pt., Wis. WLBL 900 Stevens Pt., Wis. WLBU 1260 Stevens Pt., Wis. WLBW 1260 Oil City, Pa. WLBW 1260 Oil City, Pa. WLBW 1500	WFBL 1360	WHBU 1210	WJAZ 1490	WLBF 1420
Indianapolis, Ind. Green Bay, Wis. La Salle, Ill. WJBI 1210 Stevens Pt., Wis. WHDF 1370 Calumet, Mich. WHDH 830 Boston, Mass. WHDI 1310 WHDI 1310 Stevens Pt., Wis. WJBK 1370 Oil City, Pa. WJBL 1200 WLBX 1500	Syracuse, N. Y.		WIRC 1200	WIRC 1200
WFDR 1270 WHDF 1370 WJBI 1210 WLBL 900 Baltimore, Md. Calumet, Mich. WHDH 830 Red Bank, N. J. WLBL 900 Stevens Pt., Wis. WLBW 1210 WLBW 1200 WLBW 1500 WLBW 1200 WLBW 1500 WLBW 1500<	Indianapolis Ind.			Ettrick, Va.
Baltimore, Md. WFDF 1310 Calumet, Mich. WHDH 830 Boston, Mass. WHDI 1180 WHDI 1180 WHDI 1200 Stevens Pt., Wis. WLBW 1260 Oil City, Pa. WLBW 1200 WLBX 1500	WFBR 1270	WHDF 1370	WJBI 1210	WLBL 900
WHDH 830 WJBK 1370 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1500 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 1200 WLBW 12	Baltimore, Md.		Red Bank, N. J.	Stevens Pt., Wis.
WFDV 1370 WHDI 1180 WJBL 1200 WLBX 1500	WFDF 1310	WHDH 830	WJBK 1370	WLBW 1260
	WEDV 1370	WHDI 1180	WJRL 1200	WLBX 1500
				L.I.City, N.Y.
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WLBZ 620		WNBR 1430		WPTF 680	1	WSIX 1210	
Bangor, Me.				Raleigh, N. C. WQAM 560	1	Springfield, Tenn.	
WLC1 1210		Memphis, Tenn. WNBW 1200		WQAM 560		WSJ8 1310	
The see N V				W GANT 500		WSJ8 1310	
Ithaca, N. Y.		Carbondale, Pa.		Miami, Fla. WQAN 880		WinstSal., N. C.	
WLEX 1410		WNBX 1200		WQAN 880		WSM 650	
Lexington, Mass. WLEY 1370		Springfield, Vt. WNBZ 1290		Scranton, Pa.		Nashville, Tenn.	
WLEY 1370		WNBZ 1290		WQAO 1010		WSMB 1320	
Lexington, Mass.		SaranacL'ke, N.Y.		New York City		New Orleans, La.	
WLIT 560		WNJ 1450		WQBC 1360		WSMK 1389	
Philadelphia, Pa.		Newark, N. J.		Vicksburg, Miss.		Dayton, Ohio	
WLOE 1500		WNOX 560		WQDM 1370		WSOC 1210	
Boston, Mass.		Knoxville, Tenn.		St. Albans, Vt.		Gastonia, N. C.	
WLS 870		WNYC 570		St. Albans, Vt. WQDX 1210		WSPA 1420	
Chicago, Ill.		New York City		Thomasville, Ga.	I	Gnartanhura S.C.	
WLSI 1210		WOAI 1190		WRAF 1200		Spartanburg, S.C. WSPD 1340	
					. I	WSFD 1340	
Providence, R. I.		San Antonio, Tex.	-	La Porte, Ind.		Toledo, Ohio	
WLTH 1400		WOAN 600	_ I	WRAK 1370	1	WSSH 1410	
Brooklyn, N. Y.		Law'nceb'g, Tenn. WOAX 1280		Williamsport, Pa.		Boston, Mass.	
WLVA 1370		WOAX 1280	. I	WRAW _1310	i 1	WSUI 880	
Lynchburg, Va. WLW 700		Trenton, N. J.		Reading, Pa.		Iowa City, Ia.	
		WOBT 1310		WRAX 1020		WSUN 620	
Cincinnati, Ohio		Union City, Tenn.	1	Philadelphia, Pa.	_ 1	St. Petersb'g, Fla.	
WLWL 1100		WOBU 580		WRBI 1310		WSVS 1370	
New York City		Charlest'n, W.Va.		Tifton, Ga.	1	Buffalo, N. Y.	
WMAC 570		WOC 1000		WRBJ 1370		WSYB 1500	
Syracuse, N. Y.		Davenport, Iowa		Hattiesburg, Miss		Rutland, Vt.	
WMAK 1040		WOCL 1210		WRBL 1200			
Buffaio, N. Y.		Jamestown, N. Y.				Syramiac N V	
WMAL 630		WODA 1250		Columbus, Ga. WRBQ 1210	⊢ – ⊢	Syracuse, N. Y. WTAD 1440	
Weshington D.C				Creenville Mice		Onings III	
Washington, D.C. WMAQ 670		Paterson, N. J.		Greenville, Miss.		Quincy, Ill.	
WMAQ 570		WODX 1410		WRBT 1370	F	WTAG 580	
Chicago, Ill.		Mobile, Ala.		Wilmington, N.C.		Worcester, Mass.	
WMAZ 890		WO1 640		WRBX 1410		WTAM 1070	
Macon, Ga.		Ames, Iowa		Roanoke, Va.		Cleveland, Ohio	
WMBA 1500 I		WOKO 1440		WRC 950		WTAQ 1330	
Newport, R. I.		P'ghkeepsie, N.Y.		Washington, D.C.		Eau Claire, Wis.	
Newport, R. I. WMBC 1420		WOL 1310		WRDO 1370		Eau Claire, Wis. WTAR 780	
Detroit, Mich.		Washington, D.C.		Augusta, Me.	l 1	Norfolk Va.	
WMBD 1440		WOMT 1210		WRDW 1500		WTAW 1120	
Peoria Hghts., Ill.		Manitowoc, Wis.	1	Augusta, Ga.	1 1	College Sta., Tex.	
WMBG 1210		Manitowoc, Wis. WOOD 1270		WREC 600		College Sta., Tex. WTAX 1210	
Righmond Va		Gr. Rapids, Mich.		Memphis, Tenn.	l 1	Springfield, Ill.	
Richmond, Va. WMBH 1420		WOPI 1500		WREN 1220	!	WTBO 1420	
Ioplin Mo		Bristol, Tenn.			1 1	Cumberland, Md.	
Joplin, Mo. WMBI 1080		WOQ 1800		Lawrence, Kans. WRHM 1250	II		
		WOQ 1800			1 1	WTEL 1310	
Chicago, Ill.		Kansas City, Mo. WOR 710		Minneap., Minn.	!I	Philadelphia, Pa.	
WMBO 1310		WOK 710		WRJN 1370	 	WTFI 1450	
Auburn, N. Y.		Newark, N. J.		Racine, Wis. WRNY 1010		Toccoa, Ga.	
WMBQ 1500		WORC 1200	1	WRNY 1010	 	WTIC 1060	
Brooklyn, N. Y.		Worcester, Mass.		New York City		Hartford, Conn.	
WMBR 1370		WOS 630		WROL 1310		WTMJ 620	
Tampa, Fla.		Jeff's'n City, Mo. ₩OV 1130	iI	Knoxville, Tenn.		Milwaukee, Wis. WTNT 1470	
WMC 780		WOV 1130		WRR 1280		WTNT 1470	
Memphis, Tenn.		New York City	1	Dallas, Texas WRUF 830	I	Nashville, Tenn.	
WMCA 570 I		WOW 590		WRUF 830			
New York City		Omaha, Nebr.		Gainesville, Fla.	i 1	Savannah, Ga.	
New York City WMMN 890		WOWO 1160		WRVA 1110			
Fairmont, W.Va.		Ft. Wayne, Ind.		Richmond, Va.	ı I	Hammond, Ind.	
WMPC 1500		WPAD 1420		WSAI 1330		WWJ 920	
Lapeer, Mich.		Paducah, Ky.		Cincinnati, Ohio	ı I	Detroit, Mich.	
WMRJ 1210		WPAP 1010		TOUGHT 1910		WWL 850	
Jamaica N V		New York City		Grove City, Pa. WSAN 1440	ı I	New Orleans, La.	
Jamaica, N. Y. WMSG 1350		WPAW 1210		WSAN 1440		WWNC 570	
New York City		Pawtucket, R. I.		Allentown, Pa.	ı I	Asharilla N. C.	
WMT 600		WECC HEA		WSAR 1450		Asheville, N. C.	
Waterles T		WPCC 560			I	WWRL 1500	
Waterloo, Iowa		Chicago, Ill.		Fall River, Mass.		Woodside, N. Y.	
WNAC 1230		WPCH 810		WSAZ 580	, I	WWVA 1160	
Boston, Mass.		New York City		Hunt'gton, W.Va.		Wheeling, W. Va.	
WNAD 1010		WPEN 1500		WSB 740	 	WXYZ 1240	
Norman, Okla.		Philadelphia, Pa.		Atlanta, Ga.		Detroit, Mich.	
WNAX 570		WPG 1100		I WSBC 1210		XEA 1000	
Yankton, S. D.		Atl'ntic City, N.J.		Chicago, Ill.	I	Guad'l'jara, Mex.	
WNBF 1500		I WPOE 1370		WSD1 1200		XEB 1030	
Bingh'mt'n, N.Y.		Patchogue, N. Y.		South Bend, Ind.	I	Mexico City	
WNBH 1310		WPOR 780		WSEN 1210		XEC 1000	I——
New B'df'd, Mass.		Norfolk, Va.		Columbus, Ohio		Toluca, Mex.	ı
WNBO 1200		WPSC 1230		WSFA 1410		XED 977	l
Washington, Pa.		State College, Pa.		Montgomery, Ala.		Reynosa, Mex.	l
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XEE 1000 Linares, Mex. XEF 1000 Oaxaco, Mex. XEFA 1250 Mexico City XEFE 1000 Laredo, Mex. XEG 840 Mexico City XEH 1000 Monterrey, Mex. XEI 1000 Morelia, Mex. XEJ 1000 Morelia, Mex. XEJ 1000 Morelia, Mex. XEJ 1000 Mexico City	XEL 1000 Sattillo, Mex. XEM 730 Tampico, Mex. XEN 719 Mexico City XEO 940 Mexico City XEP 1430 Laredo, Mex. XEQ 750 Juarez, Mex. XER 650 Mexico City XES 890 Tampico, Mex. XET 630 Monterrey, Mex.	XETA 1140 Mexico City XETF 680 Veracruz, Mex. XETN 1310 Toluca, Mexico XEU 1000 Veracruz, Mex. XEV 1000 Puebla, Mex. XEW 780 Mexico City XEX 1210 Mexico City XEX 1000 Merida, Mex. XEZ 588 Mexico City	XFC
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INDEX BY LOCATIONS WITH MAP KEY

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THE TELEVISION BAND

The Federal Radio Commission has instituted the new allocations of frequencies for television broadcasters, the outcome of the recommendation of a recent engineering conference called by the Commission. The new reallocations went into effect as follows:

	2,000-2,100 kc.
W3XK	$5.000_{}$ Wheaton, Md.
W2XCR	5.000Jersey City, N. J.
W2XAP	250Portable
W2XCD	5.000Passiac, N. J.
W9XOA	500Chicago, Ill.
W2XBU	100Beacon, N. Y.
	2,100-2,200 kc.
W3XAK	5.000Bound Brook, N. J.
W3XAD	500 Camden, N. J.
W2XBS	5,000New York, N. Y.
W2XCW	20,000Schenectady, N. Y.
WSXAV	20,000East Pittsburgh, Pa.

W9XAP W2XR	1,000Chicago, Ill. 500Long Island City, N. Y.
W2XBO W9XAA W9XG	2,750—2,850 kc. 500 Long Island City, N. Y. 1,000 Chicago, Ill. 1,500 West Lafayette, Ind.
W1XAV W2XR W9XR	2,850—2,950 kc. 500Boston, Mass. 500Long Island City, N. Y. 5,000Downers Grove, Ill.
Other	proposals of the conference now being

Other proposals of the conference now being considered by the Engineering Division of the Federal Radio Commission, will probably be recommended for approval within a brief period.

This realignment of visual broadcasting stations is expected to aid experiments and to hasten the day when the art will be ready for public entertainment on a commercial scale.

The World Stations by Countries

2220 1	• •			00 ~ , ·			
Country and City	Call	Kcys.	Watts	Country and City	Call	Kcys.	Watts
OCEANIA				FRENCH INDO C		5	
AUSTRALIA				Haiphong		3446	2500
Adelaide	5CL	730	2500	HONG KONG			
	5DN	960	100	Victoria Peak	ZBW	857	1500
Bathurst	5KA 2MK	1200 1155	200 50	INDIA	1/T ID	0.40	2000
Brisbane	4QG	760	2500	Bombay Calcutta	VUB VUC	840 810	3000 3000
Hobart	7ŽĽ	760 580	600	JAPAN	100	910	3000
Melbourne	3AR	620	1000	Hirasio	JHBB	7995	
	3DB	1180	100	Hiroshima	JOFK	849	10000
	3LO.	9369 800	1000	Kumamoto	ĴОСК	789	10000
Newcastle	2NC	1245	2000	Nagoya	JOCK JOBK JOIK JOHK JFAK	810	10000
Perth	6ML	1010	300	Osaka Sapporo	JORK	750 831	10000 10000
	6WF	690	1000	Sendai	ĬŎĦŔ	769	10000
Rockhampton	4RK	930	2000	Taihoku	JFAK	353	1000
Sydney	2BL	9225 855	1000	Taipeh	JFAB	7590	
	2FC	10520	1000	Tokyo	JOAK	869	10000
	24 0	665	1000	KWANGTUNG	70477	770	F000
	2GB	950	600	Dairen NETHERLAND E INDIES	JUAK	<i>7</i> 59	5000
	2KY 2ME	1070	75 0	INDIES	ASI		
	2ME	10520	50	Bandoeng	IBR	5170	1000
	2UE 2UW	1025 1125	100	Batavia	PK1AA	3998	500
NEW ZEALAND	2011	1123	100	201010101010	PK2AF	5996	500
Auckland	1YA	900	500	Makassar	PK6KZ PLF	7313 17640	500
	1ZQ 3YA	1188		Malabar Palembang	PK4PA	59964	240
Christchurch	3YA	_980	500	Semarang	PK2AG	37704	240
	3ZC	5996	250	Surabaya	PH3CH	6662	250
Dunedin	4YA	1199 648	500	•		2142	500
Gisborne	2ZM	1147	160		HERN EUR	OPE	
Palmerston	2ZF	1049	150	ALBANIA			300
Wellington	2YA	718	5000	Tirana AUSTRIA			300
ALGERIA				Graz		851	7000
Algiers	8DB	825.3	100	Innsbruck		1058	500
CANARY ISLANDS		. 824	2400	Klagenfurt		662	500
Las Palmas	EAR5	1071	500	Linz		1220	500
EGYPT	LANCE	10/1	500	Vienna FRANCE		581	15000
Cairo		869		Agen	F2BD	963.1	480
		000		rigen	1,000	9761	
KENYA				Angers		1091	250
Nairobi	7LO	9640	1000	Beziers		1364.3	1500
MOROCCO		<i>7</i> 50		Biarritz		1313 1260.4	250 5000
Casablanca	AIN	5879		Bordeaux		986	1500
Rabat		(077	2500	Caen		1080	200
		724		Grenoble		914.1	1500
TUNISIA	Th IT I	162		Juan les Pins		1219	250
Carthage Constantine	TNU 8KR	162 7005		Lille		1130	500
Tunis	TUA	240	500	Limoges Lyon	YN	1022 644	500 3000
UNION OF SOUTH		2.0	-	Lyon	YR	1029.9	500
AFRICA						7462.7	
Cape Town	ZTC ZTD	800	1000	Marsan		750	250
Durban	ZTD	789	1000	Marseilles		950	500
Johannesburg	ZŢJ	9369 666	15000	Montpellier		1049	200
	ASIA	000		Nancy Nice (see Juan 1	les Pins)	19355	
BRITISH MALAYA	AGIA			Nimes	ics I his)	1256	500
Singapore	VS1AE	7260		Nogent-sur-Sei	ne F8AV	3750 9375	
Johore	VS3AE	3 7055		Paris	FL	9375	15000
CEYLON		255	1750		EDTE	207.5	1000
Colombo CHINA		375	1750		FPTT F8GC	671 825	1000 1500
Canton	CAB	689	1000		rocc	4262.3	1000
Hangchow	XGY	895	250			4262.3 905.2	500
Harbin	COHE	674	1000			174	13500
Mukden	COMP	714	2000		-	967.8	2000
Nanking Polying	XGZ	606	500	Danner		7317.1	1500
Peking Shanghai	COPK KRC	937 887	1000 250	Rennes - Rheims		1103 777.2	500
Tientsin	CRC	1071	250 500	St. Etienne		1363.6	250
	COTN	625	500	Toulon		1200	500
CHOSEN (KOREA)			****	Toulouse	MRD	1175	1500
Heijo (Seoul)	JODK	714	1000			<i>77</i> 9	8000

Country and City	Call	Kcys.	Watts	Country and City	Call	Kcys.	Watts
HUNGARY		. 10,01		Nauen	AGC	17430	
Budapest		545	20000	1144011	AGJ	5290	
-				Norddeich		167	1000
ITALY	ID7	662	200	Nuremburg		1254	1000
Bolzano Genoa	IBZ IGE	662 788	200 1200	Schaerbeck		1304	
Milan	IMI	599	7000	Stettin		1059	750 4000
Naples	INA	905.2	1500	Stuttgart		833	4000
Rome	IRO	680	3000	IRISH FREE STATI	CIZ	1227	1000
	IRAX	6666.7		Cork	6CK 2RN	1337 940	1500
Turin	ITO	1031	7000	Dublin	ZICIA	740	1300
PORTUGAL				LUXEMBURG	LOAA	1344	10000
Lisbon	CT1AA	942	1000	Luxemburg	LOAA	1344	10000
	PIAA	983.6	500	NETHERLANDS	PFBI	1004	7000
RUMANIA				Hilversum Huizen	PHI	17778	40000
Bucharest		545	12000	пишен	1	160	
SPAIN				Scheveningen	PCF	279	1500
Almeria	EAJ18	1193	200	UNITED KINGDOM	ſ		
Barcelona	EAJ1	860	7500	Aberdeen	2BD	995	1000
	EAJ13 EAJ2	1121	10000	Belfast	2BE	1238	1000
Madrid	EAJ2 EAJ7	750 707.6	750 1500	Bournemouth	6BM	1040	1000
	EAM	9772		Cardiff	5WA 5XX	968	1000
Salamanca	EAJ22	662		Daventry	5GB	193 626	25000 25000
San Sebastian	EAJ8	633	1000	Dundee	2DE	1040	130
Seville .		815		Edinburgh	2EH	1040	350
SWITZERLAND				Glasgow	5SC	752	1000
Basel		941	250	Hull	6KH	1040	130
Berne		743	1000	Leeds & Bradford	2LS	1500	130
20110		9375			(1.17	1040	130
Geneva		395	250	Liverpool	6LV 2LO	1040 842	30000
Lausanne	******	442	600	London	LLO	1150	30000
Zurich	H9XD	3529.4 9375		Manchester	2ZY	797	1000
		653	630	Newcastle	5NO	1148	1000
YUGOSLAVIA		000	000	Plymouth	5PY	1040	130
Belgrade		695	2500	Sheffield	6FL	1040	130
Lljubljana		522	3000	Stoke on Trent	6ST	1040	130 130
Zagreb		973	700	Swansea	5SX	1040	130
Zagreb		973	700		BSX ERN EURO		130
Zagreb WESTI		973	700	NORTH	ERN EUR	OPE	130
Zagreb WESTI BELGIUM	ERN EURO	973 PE			ERN EURO	OPE 1075	1250
Zagreb WESTI	ERN EURO	973 PE 887	100	NORTHI CZECHOSLOVAKIA Bratislava Brunn	OKR OKB	OPE 1075 877	1250 2500
Zagreb WESTI BELGIUM Brussels	ERN EURO ON4GT ON4RB	973 PE 887 590	100 3600	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice	OKR OKB OKK	1075 877 1023	1250 2500 2500
Zagreb WESTI BELGIUM Brussels Chatelineau	ON4GT ON4RB ON4CE	973 PE 887 590 1388	100 3600 200	NORTHI CZECHOSLOVAKIA Bratislava Brunn	OKR OKB OKK OKP	1075 877 1023 616	1250 2500 2500 5000
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent	ERN EURO ON4GT ON4RB	973 PPE 887 590 1388 1219	100 3600	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague	OKR OKB OKK	1075 877 1023	1250 2500 2500
WESTI BELGIUM Brussels Chatelineau Ghent Liege	ON4GT ON4RB ON4CE ON4RG	973 PE 887 590 1388	100 3600 200 400	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK	OKR OKB OKK OKP	1075 877 1023 616	1250 2500 2500 5000 5000
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG	ON4GT ON4GT ON4RB ON4CE ON4RG ON4RW	973 PPE 887 590 1388 1219 1219	100 3600 200 400 200	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260	1250 2500 2500 5000 5000
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig	ON4GT ON4RB ON4CE ON4RG	973 PPE 887 590 1388 1219	100 3600 200 400	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300	1250 2500 2500 5000 5000
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY	ON4GT ON4GT ON4RB ON4CE ON4RG ON4RW	973 PPE 887 590 1388 1219 1219	100 3600 200 400 200	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488	1250 2500 2500 5000 5000
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle	ON4GT ON4GT ON4RB ON4CE ON4RG ON4RW PTB	973 PPE 887 590 1388 1219 1219 689 662	100 3600 200 400 200 500	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057	1250 2500 2500 5000 5000 1000 7500 500
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg	ON4GT ON4GT ON4RB ON4CE ON4CE ON4RW PTB	973 PE 887 590 1388 1219 1219 689 662 535	100 3600 200 400 200 500	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488	1250 2500 2500 5000 5000
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle	ON4GT ON4GT ON4RB ON4CE ON4CE ON4RW PTB	973 PE 887 590 1388 1219 1219 689 662 535 717	100 3600 200 400 200 500	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088	1250 2500 2500 5000 5000 1000 7500 500
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg	ON4GT ON4GT ON4RB ON4CE ON4RG ON4RW PTB	973 PE 887 590 1388 1219 1219 689 662 535 717 5552 231	100 3600 200 400 200 500	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088	1250 2500 2500 5000 5000 1000 7500 500
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg	ON4GT ON4GT ON4RB ON4CE ON4CE ON4RW PTB	973 PPE 887 590 1388 1219 1219 689 662 535 717 5552 231 1635	100 3600 200 400 200 500 700 700 4000 10000	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088	1250 2500 2500 5000 5000 1000 7500 500
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg	ON4GT ON4GT ON4RB ON4CE ON4RG ON4RW PTB	973 PPE 887 590 1388 1219 689 662 535 717 5552 231 1635 1059	100 3600 200 400 200 500	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 9488 6057 3088	1250 2500 2500 5000 5000 5000 1000 500 2000
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin	ON4GT ON4GB ON4CB ON4CB ON4CB ON4RW PTB AFT	973 PPE 887 590 1388 1219 689 662 535 717 5552 231 1635 1059 119	100 3600 200 400 200 500 700 700 4000 10000	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 9488 6057 3088	1250 2500 2500 5000 5000 1000 7500 500 2000
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen	ON4GT ON4RB ON4CE ON4CE ON4RW PTB	973 PPE 887 590 1388 1219 1219 689 662 535 717 5552 231 1635 1059 119 950	100 3600 200 400 200 500 700 4000 10000 2000	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori)	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088 1013 250 735	1250 2500 2500 5000 5000 1000 500 2000 10000 1000 2200
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau	ON4GT ON4GB ON4CE ON4CE ON4CE ON4RW PTB	973 PPE 887 590 1388 1219 689 662 535 717 5552 231 1635 1059 119	100 3600 200 400 200 500 700 700 4000 10000	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088 1013 250 735	1250 2500 2500 5000 5000 1000 7500 500 2000 10000 100 2200
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen	ON4GT ON4RB ON4CE ON4CE ON4RW PTB	973 PPE 887 590 1388 1219 1219 689 662 535 717 5552 119 950 923 1319 9433	100 3600 200 400 200 500 700 4000 10000 2000	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad	OKR OKR OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088 1013 250 735 1219 1219 1357 1219	1250 2500 2500 5000 5000 1000 7500 2000 10000 1000 2200
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz	ON4GT ON4RB ON4CB ON4CB ON4RW PTB AFT	973 PPE 887 590 1388 1219 689 662 535 717 5552 231 1635 1059 119 950 923 1319 4434 47963	100 3600 200 400 200 500 700 4000 10000 2000	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088 1013 250 735 1219 1219 1357 1219 1009	1250 2500 2500 5000 5000 1000 7500 500 2000 10000 100 2200 1500 10000 750 2000
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg	ON4GT ON4GB ON4CB ON4CB ON4RG ON4RW PTB	973 PE 887 590 1388 1219 1219 689 662 535 717 5552 119 950 923 1319 9434 7963 1379 31379	100 3600 200 400 200 500 700 4000 10000 2000 	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088 1013 250 735 1219 1219 1219 1219 1219 1219 1219 166	1250 2500 2500 5000 5000 1000 7500 2000 10000 100 2200 10000 750 200 40000
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai	ON4GT ON4GB ON4CE ON4CE ON4CE ON4RW PTB AFT	973 PPE 887 590 1388 1219 689 662 535 717 5552 231 1635 1059 119 950 923 1319 4434 7963 1376	100 3600 200 400 200 500 700 700 700 4000 10000 4000 4000 1500	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors	OKR OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088 1013 250 735 1219 1219 1357 1219 1009	1250 2500 2500 5000 5000 1000 7500 500 2000 10000 100 2200 1500 10000 750 2000
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg	ON4GT ON4GT ON4RB ON4CE ON4RW PTB AFT	973 PE 887 590 1388 1219 689 662 535 717 5552 231 1635 1059 119 950 923 1319 4434 7963 1373 769 527	100 3600 200 400 200 500 700 4000 10000 2000 	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088 1013 250 735 1219 1219 1219 1219 1219 1219 1219 166	1250 2500 2500 5000 5000 1000 7500 500 2000 10000 1000 2200 1500 10000 750 200 40000 700
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz	ON4GT ON4GB ON4CE ON4CE ON4CE ON4RW PTB	973 PPE 887 590 1388 1219 689 662 535 717 5552 231 1635 1059 119 950 923 1319 4434 7963 1376	100 3600 200 400 200 500 700 4000 10000 2000 1500 1500 3000 4000	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND	OKR OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 9488 6057 3088 1013 250 735 1219 1219 1219 1219 1219 1219 1219 121	1250 2500 2500 5000 5000 1000 7500 2000 10000 100 2200 1500 10000 750 200 40000 750
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz Hamburg Hanover	ON4GT ON4GT ON4RB ON4CE ON4RW PTB AFT	973 PE 887 590 1388 1219 1219 689 662 535 717 5552 119 950 923 1319 950 923 1319 4434 7963 1373 769 527 1157 80535	100 3600 200 400 200 500 700 4000 10000 2000 	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND Akureyri Reykjavik	OKR OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088 1013 250 735 1219 1219 1357 1219 1009	1250 2500 2500 5000 5000 1000 7500 500 2000 10000 1000 2200 1500 10000 750 200 40000 700
Zagreb WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz Hamburg Hanover Kaiserslautern	ON4GT ON4GB ON4CB ON4CB ON4CB ON4CB ON4RW PTB AFT	973 PE 887 590 1388 1219 689 662 535 717 5552 1119 950 119 950 1373 1373 7963 1373 7963 1373 7157 806 535 1110	100 3600 200 400 200 500 700 700 4000 10000 	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND Akureyri Reykjavik LATVIA	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 9488 6057 3088 1013 250 735 1219 1219 1219 1219 1219 1357 1219 166	1250 2500 2500 5000 5000 1000 7500 2000 10000 1000 2200 1500 10000 750 200 40000 750
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz Hamburg Hanover Kaiserslautern Kassel	ON4GT ON4RB ON4CB ON4RB ON4CB ON4RW PTB AFT	973 PE 887 590 1388 1219 1219 689 662 535 717 5552 231 1635 1059 923 1319 9434 7963 1373 769 769 157 806 535 1110 1219	100 3600 200 400 200 500 700 4000 10000 2000 	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND Akureyri Reykjavik LATVIA Riga	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 9488 6057 3088 1013 250 735 1219 1219 1219 1219 1219 1219 1219 121	1250 2500 2500 5000 5000 1000 7500 2000 10000 100 2200 1500 10000 750 200 40000 750
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz Hamburg Hanover Kaiserslautern Kassel	ON4GT ON4GB ON4CE ON4CE ON4CE ON4RW PTB AFT	973 PE 887 590 1388 1219 689 669 662 535 717 5552 1109 950 139 950 1319 950 1157 806 5177 1157 806 5110 1219 1292	100 3600 200 400 200 500 700 700 4000 10000 1500 1500 1500 1500 1500 4000 750 4000 750	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND Akureyri Reykjavik LATVIA Riga LITHUANIA	OKR OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 15300 9488 6057 3088 1013 250 735 1219 1219 1009 1366 1030 1560 8995 571	1250 2500 2500 5000 5000 1000 7500 2000 10000 1000 10000 750 200 40000 750 200 40000 750
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz Hamburg Hanover Kaiserslautern Kassel Kiel Konigsberg	ON4GT ON4RB ON4CB ON4CB ON4RW PTB AFT	973 PE 887 590 1388 1219 689 662 535 717 5552 231 1635 1059 119 950 923 1319 4434 7963 769 527 1157 1157 1157 1159 1292 1292 1292 1298	100 3600 200 400 200 500 700 4000 1000 2000 1500 1500 3000 4000 750 700 4000 4000	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND Akureyri Reykjavik LATVIA Riga LITHUANIA Kovno	OKR OKB OKK OKP OKIMPI	1075 877 1023 616 5169 1067 260 9488 6057 3088 1013 250 735 1219 1219 1219 1219 1219 1357 1219 166	1250 2500 2500 5000 5000 1000 7500 2000 10000 1000 2200 1500 10000 750 200 40000 750
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz Hamburg Hanover Kaiserslautern Kassel Kiel Konigsberg Langenburg	ON4GT ON4GB ON4CB ON4CB ON4RG ON4RW PTB AFT	973 PE 887 590 1388 1219 689 662 535 717 5552 11635 1059 923 1319 4434 7963 1373 769 527 1157 806 535 1119 1219 1292 1086 638	100 3600 200 400 200 500 700 700 4000 10000 1500 1500 1500 1500 1500 4000 750 4000 750	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND Akureyri Reykjavik LATVIA Riga LITHUANIA	GZSH YLZ RYK LKA	1075 877 1023 616 5169 1067 260 9488 6057 3088 1013 250 735 1219 1219 1219 1219 1219 1219 1219 121	1250 2500 2500 5000 5000 1000 7500 2000 10000 1000 2200 1500 10000 750 200 40000 750 10000 750 10000 750
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz Hamburg Hanover Kaiserslautern Kassel Kiel Konigsberg Langenburg Leipzig Ludwigshaven	ON4GT ON4RB ON4CB ON4CB ON4RW PTB AFT	973 PPE 887 590 1388 1219 1219 689 662 535 717 5552 119 950 923 1319 950 923 1319 950 923 1319 157 806 535 1110 1219 1292 1086 635 1184 1471	100 3600 200 400 200 500 700 4000 10000 2000 	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND Akureyri Reykjavik LATVIA Riga LITHUANIA Kovno NORWAY	OKR OKB OKK OKP OKIMPI GZSH YLZ RYK LKA LKA	1075 877 1023 616 5169 1067 2600 15300 15300 15300 735 1013 250 735 1219 1219 1219 1219 1219 1219 1219 121	1250 2500 2500 5000 5000 1000 7500 2000 10000 100 2200 10000 750 200 40000 750 10000 750
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz Hamburg Hanover Kaiserslautern Kassel Kiel Konigsberg Langenburg Leipzig Ludwigshaven Magdeburg	ON4GT ON4GB ON4CB ON4CB ON4CB ON4CB ON4RW PTB AFT	973 PE 887 590 1388 1219 689 662 535 717 5552 1110 950 137 806 535 1110 1219 1292 1384 1471 1059	100 3600 200 400 200 500 700 700 4000 10000 1500 1500 1500 1500 4000 750 4000 750 4000 750 4000 1500	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND Akureyri Reykjavik LATVIA Riga LITHUANIA Kovno NORWAY Aalesund Bergen	GZSH YLZ RYK LKA LKB LGN	1075 877 1023 616 5169 1067 260 9488 6057 3088 1013 250 735 1219 1219 1219 1219 1357 1219 1009 166 	1250 2500 2500 5000 5000 1000 7500 2000 10000 2200 1500 10000 750 200 40000 750 200 40000 750 200 40000 750 350
WESTI BELGIUM Brussels Chatelineau Ghent Liege DANZIG Danzig GERMANY Aix la Chapelle Augsburg Berlin Bremen Breslau Cologne Doberitz Flensburg Frankfort on Mai Freiburg Gleiwitz Hamburg Hanover Kaiserslautern Kassel Kiel Konigsberg Langenburg Leipzig Ludwigshaven	ON4GT ON4GB ON4CB ON4CB ON4RG ON4RW PTB	973 PPE 887 590 1388 1219 1219 689 662 535 717 5552 119 950 923 1319 950 923 1319 950 923 1319 157 806 535 1110 1219 1292 1086 635 1184 1471	100 3600 200 400 200 500 700 4000 10000 -700 4000 1500 1500 3000 4000 750 4000 750 4000 8000 8000 8000	NORTHI CZECHOSLOVAKIA Bratislava Brunn Kosice Prague DENMARK Copenhagen Kalundborg Lyngby Soro ESTONIA Tallinn Tartu FINLAND Abo Bjorenborg (Pori) Helsingfors Jakobstad Jyvaskyla Lahti Tammerfors Vipuri ICELAND Akureyri Reykjavik LATVIA Riga LITHUANIA Kovno NORWAY Aalesund	OKR OKB OKK OKP OKIMPI GZSH YLZ RYK LKA LKA	1075 877 1023 616 5169 1067 2600 15300 15300 15300 735 1013 250 735 1219 1219 1219 1219 1219 1219 1219 121	1250 2500 2500 5000 5000 1000 7500 2000 10000 1000 2200 1500 10000 750 200 40000 750 10000 750 10000 750

Country and City	Call	Kcys.	Watts	Country and City	Call	Kcys.	Watts
Oslo	LKO	608	60000	Rio de Janeiro	PRAA	750	1000
Porsbrund	LKP	662	700	•	PRAB	937	500
Rjukan	LKR	671 1229	1000		PRAC PRAD	1153 857	500 500
Trondhjem		1229	1000	Sao Paulo	PRAE	833	1000
POLAND		724	10000		PRAO	1330	1000
Katowice Krakow		734 959	1500	61	PRAR	1071	500
Poznan		896	1500	Sorocaba		706	
Warsaw		202.5	12000	CHILE Santiago	CMAB	625	1000
Wilna		779	500	Sairtiago	CMAC	804	1000
SWEDEN					CMAO	1016	250
Boden	SBE	250 1309	600 150	Valuancias	CMAQ	1224 1034	100
Boras Eskilstuna	SCA SCB	1220	. 200	Valparaiso COLOMBIA	CMAJ	1034	100
Falun	SCC SCD	1004	500	Bogota	HJN	706	550
Gavle		1470	200	HONDURAS			
Goteborg	SBB SCE	931 1390	10000 200	Tegucigalpa	HRB	6005	2300
Halmstad Horby	SBH	1167	10000	PERU			
Hudiksvall	SCF	1110	150	Lima	OAX	789	1500
Jonkoping Kalmar	SCH SCI	1484 1211	250 200	SALVADOR			
Kalmar Karlsborg	SAS	11760	200	Salvador	RUS	664	500
Karlskrona	ŠĊĴ	1530	250	URUGUAY	CIVOA	700	1000
Karlstad	SCJ SCK SCL	1375	250	Montevideo	CWOA	700 1169	200
Kiruna	SCL SCM	1219 1481	200 250		CWON CWOR CWOS	857	500
Kristinehamn Malmberget	SCN	689	250 250		cwos	789	500
Motala	SBG	222	30000		CWOW	600	
Norrkoping	sco	1110	250	RUSSIA	AND THE	VEV	
Orebro Ormskoeldsvik	SCV SCW	1265 1373	200 200				
Ostersund	SBF	389	600	Country and City	Call	Meters	Watts
Saffle	SCP	389 1220	400	RUSSIA	D 4 45	530	200
Stockholm	SBA	688	1000	Armavir Artemovsk	RA47 RA56	720 790	200 1200
Sundsvall Trollhattan	SBD	553 1129	600 250	Astrakhan	RA26	700	1000
Umea	SCQ SCS SCT	1301	200	Baku	RA45	750	4000
Uppsala	SCT	662	150	Bogorodski	RA8	750	700
Varberg	SCU	1059	300	Dneipropetrovske Erivan	RA30 RA49	525 1050	1000 1200
				Gomel	RA39	925	1200
CENTRAL AN	D SOUTH	AMERIC	CA	Irkutsk	RA57	1100	500
ARGENTINA	E4	993	350	Ivanovo-	RA7	800	180
Azul Bahia Blanca	E4 D5	882 1050	350	Vosnesensk Kharkov	RA43	477	4000
Buenos Aires	LR1	789	500	raidino.	-	1700	
	LR2	870	3000	Kiev	RA5	755	1200
	LR3 LR4	949 990	1000 2000	Kourak Krasnodar	RA34 RA38	575 513	1000 1000
	LR5	828	2000	Leningrad	RA42	1000	10000
	LR6	909	1000	_	RA51	150	350
	LR7	750	1250	Minsk	RA18	860 1 45 0	1200 40000
	LR8 LR9	1149 1030	1500 2000	Moscow	RA1 RA2	450	500
	LSi	706	5000		RA4	450	300
	LS2	1190	1000	Malchik	RA67	1075	1200
	LS3 LS4	1270	1000 1000	Nizhni-Novgorod Novorossisk	RA13 RA33	840 1117	1800 4000
	LS4 LS5	1112 1076	1000	Odessa	RA40	975	1200
	LS6	1428	1000	Orenburg	RA25	640	1000
	LS7	1351	1000	Petrozovodsk	RA46	765 820	2000 4000
Concordia LaPlata	J2 LT2	1330 685	400 1000	Rostov-on-Don Samara	RA14 RA22	900	1200
Mar del Plata	D4 2	1410	100	Saratov	RA32	420	200
Mendoza	LT4	760	500	Sevastopo1	RA9	800	250
Rafaela	G4	1287	560	Smolensk Stalino	RA72 RA77	150 730	800 1200
Rosario Tucuman	LT3 K4	1090 956	1500 250	Stayropol	RA20	550	1200
Venado Tuerto	Ĝ3	840	250	Sverdlovak	RA15	1050	500
BOLIVIA				Tashkent	RA27	715	2000
LaPaz	OPX	1000	1000	Tiflis Tomsk	RA11 RA21	870 300	3000 150
				Tver	RA44	690	1200
BRAZIL Bahia	SQBE	12490		Vel Ustjuk	RA16	650	1200
Juiz de Fora	PRAJ	789	200	Vladivostok	RA17 RA41	480 875	1500 1200
				Vologda	K A 4	0/0	1200
Manaos		2998	1500			950	1200
Para		2998 8818	1500	Voronezh	RA12	950	1200
Para Pelotas Pernambuco	PRAD PRAP PRAG					950 1600 1200	1200 5000 6000

FAVORITE PROGRAMS

Time	Station	Dials	Feature	Time	Station		
DAILY					W	EDNE	SDAY
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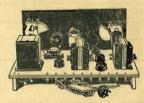
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