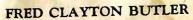
THE MARCH 1930



RADIO

REG. U. S. PATENT OFFICE



Editor and Publisher



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Published Monthly excepting July and August See Subscription Blank on page 34

THE RADEX PRESS

1367 East 6th Street . . . Cleveland, Ohio

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Short Waves for the Radio Fan

A Great Field for the Experimenter By J B SMITH

 $\P{
m OR}$ the radio fan as well as the experimenter, short-wave reception is an especially attractive field for long-distance work, for, as is well known to short-wave enthusiasts, much greater distance can be obtained on the lower wavebands than on the regular broadcast wavebands. It is due to the great range of short waves that constant communication with the polar expeditions was possible. At the present time many broadcasting stations are operating on two wave-lengths simultaneously, which is of considerable advantage to the radio fan as he is able to get away from the crowded condition of the broadcast range by tuning in on the same programs at a lower wave-length or higher frequency. The short waves are also valuable because the "side-band cutting" is less severe than it is in the case with the broadcast waves. A third advantage of short-wave reception is that less static and atmospheric disturbances are picked up, making it possible to obtain reception with greater clarity. Furthermore, television broadcasts are being made on the short waves as they are especially adaptable for this purpose.

The simplest method of picking up short waves, and the most practical for the average radio fan, which will eliminate the need of building an entire receiver, is to use a short-wave adaptor. Such an adaptor usually consists of one or two tubes with a separate tuning control, and comes equipped with a cord and adaptor plug which is plugged into the detector socket of the regular broadcast receiver. In this way the audio end of the receiver is utilized. The aerial and ground leads are, of course, also transferred to the aerial and ground binding posts on the adaptor unit. Adaptors designed for either a. c. or d. c. operation can be obtained from radio dealers and mail-order houses at prices from \$6.00 to \$60.00. They are equipped with a tuning dial and sometimes with variable inductance controls. For best esults in bringing in low-wave stations, set of four tuning coils of the inter-

changeable type, covering the 20, 40, 80 and 150-meter wave-bands, should Adaptor units can be purbe used. chased completely assembled and wired, ready to plug into your set, or they can be obtained in kit form, to be wired at home. For the experimenter it will be most satisfactory to build one, as there is more choice in kits than in readymade units. Some units have a radiofrequency stage preceding the detector, which means two sets of interchangeable coils at a higher cost, but the advantage of a two-tube unit is greater distance than can reasonably be expected from a one-tube unit. In one-tube short-wave receivers regeneration from the detector plate circuit is often employed to build up the signal. A good regenerative circuit, in which the aerial is connected to the plate output of the detector tube, has been used with success, this method of regeneration being known as the "ultraaudion" hookup. However, the disadvantage of regeneration is that there is reradiation from the antenna the moment the detector tube begins to oscillate, and the best working condition of the set is just below the oscillation point. reradiation causes interference with radio reception of others in the vicinity when the short-wave receiver is operating directly under the 200-meter band, and other receivers in the neighborhood are getting reception at wave-lengths just above 200 meters. In a two-tube set employing a screen-grid r. f. tube, such trouble is entirely eliminated as the screen-grid tube serves effectively in blocking reradiation.

The interchangeable coils on the market are made to fit suitable blases, and in many cases, they are designed to fit UX tube sockets. In a few instances UY tube sockets are used as coil bases, and in other instances special bases provided by the manufacturer of coils. The radio experimenter can a make the coils himself, if he desires, a in this may effect a saving of from \$5 to \$10.00. The materials required are form

(Continued on page 18)

The Stormy Petrel of KWKH

HE following interesting comment on "Old Man" Henderson of KWKH is clipped from the news service of the Cleveland Plain Dealer.

"Hello, world! Dawgone ya! Don't go 'way, now! Don't go 'way! Shreevepo't on the air—Shreevepo't everywhere. Dawgone!"

It's the theme song.

Nightly it goes booming through the loud speakers of the nation.

In Detroit, a theater manager, checking up the day's receipts, pauses to listen.

son has become a national character. In the last two months he has become the stormy petrel of the radio world, the champion long wave length cusser.

If fans could meet "Hello World" they would find a rather fussy old man, small and slight with a protruding and wabbly little stomach.

He sits with his cheek almost touching the microphone, grumbling for all the world like an old soldier who refights battles that never occurred.

Each morning the mailmen stagger



Did you hear the inimitable Milt Gross version of Romeo and Juliet on the Phileo Hour recently? Fanny Brice and Henry Burbig presented an uproarious burlesque of the great lovers.

In Kansas City, a father exclaims irritably, "Get away from that radio!" to the daughter about to twirl the dials in a search for Rudy Vallee.

"It's old man Henderson on KWKH!"
They all exclaim. "Wonder what he's
going to pull tonight."

Some sneer, some are sincere, some speak in terms of amusement.

To the country at large, W. K. Henderson appears in a variety of aspects ranging from blasphemer and clown to crusader and courtier.

In two years, "Hello World" Hender-

into the office of KWKH bearing 1,500 to 2,000 letters.

He has a southerner's instinctive flair for the dramatic. He dramatizes his arguments.

He punctuates his invective and oratory with phonograph records. Beyond this he makes no effort at giving entertainment. This fact was placed before the radio commission last February when W. G. Skelly, owner of KVOO; Tulsa, Okla., petitioned for full-tir broadcasting on the wave length of kilocycles used by the Shreveport stat

The Editor Thinks-

That the most complaints our readers make con-

cern the failure of announcers to give their call letters frequently. Ruling of the Radio Commission requires a station announcement at least every fifteen Many announcers have eviminutes. dently never heard of this ruling for we have had distant stations for the better part of an hour during which time no announcement of call letters was given. It seems to be a strange part of announcer psychology to feel that because he knows who he is, everyone else must know. Good-will and advertising value are two of the most important by-products for which the owners of every station are seeking. It passes understanding why they permit their announcers to pass up golden opportunities for making their station known. It takes but three seconds to give call letters and city and does not in the least detract from the program. On the contrary we like to hear the harmonious "W-L-S Chicago" that comes in nearly every break of that station's program.

That our readers should like the new arrangement of "What's On the Air" in this month's issue of this magazine. At first they may miss the familiar call letters, but we feel sure that after the new form has been used for a while it will prove much more convenient than the old. We shall await word from our readers regarding it with much interest. have had many requests that we arrange of the stations broadcasting each program de in alphabetical order or in the order in from which they come in on the dials. We withlecided that the latter method would varize preferable, as one could then start at esultie end of the dial and turn to each set quency in order. Having decided on this method, it seemed advisable ise the channels rather than the call letters, for where the latter are used, they must first be turned into frequencies. We therefore adopted the plan which will be found in this issue, of using the kilocycle numbers for each feature instead of the call letters. This will prove especially valuable where dials are marked with kilocycles as so many of the modern sets are. We invite comment on the new arrangement after our readers have tried it a few nights.

That manufacturers of receiving sets are overlooking an opportunity when they fail to furnish with each set sold an accurate and up-to-date list of stations. An index is as necessary to radio as a directory is to a telephone. Many new buyers of radio sets become disgruntled over their failure to receive distant stations and blame their sets when the trouble is that they do not know how really to tune a set. The great lure of a radio set is the ability to tune in any one of a large number of stations and the average user has no idea how to tune his set for any desired frequency. Consequently he uses his set merely as a sort of phonograph, tuning in his local station and letting it go at that. To pack a copy of RADEX with each set when it leaves the factory is hardly feasible, as it might be out of date by the time it passed through the hands of distributor and dealer and reached the customer. And this might lead the buyer to think he had purchased an old set. To meet this situation, we have designed a coupon which may be packed with the This coupon may be filled out by set. the purchaser of the set and mailed to us and entitles him to a free copy of the latest RADEX. These coupons are then redeemed by the manufacturer at the wholesale price. Such a plan should add greatly to the customer's satisfaction with his set.

RADIO NEEDS

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RCA sets the standards for the entire radio industry. The RCA Institutes Home Laboratory Training Course gives you the real, inside, practical training in Radio, quicker than you could obtain it in any

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Name.....

Address.....

Another Intelligence Test

Only Present Stations in This Cross Call Teaser

TELL, that January puzzle certainly was a sticker. Only three readers were able to solve it correctly and copies of RADEX have accordingly been mailed to J. Kenneth Louden, Orangeville, Ontario; Harold Fogelsinger, Buffalo, N. Y., and Raymond M. Bell, Syracuse, N. Y. Mr. Louden writes: "You sure said something when you called it a hard nut to crack. I had to trot out all my old radio logs to solve it and it took me all of three weeks."

In submitting what was unfortunately an incorrect solution, Cyril P. Engelmeier, of Pittsburgh, Pa., has this to say: "I am very reluctant to admit that our good friend, Mr. Angel, has the best of me in the January Cross-Call. My experience goes back only to February, 1928, and those 1924 and 1926 calls are decidedly unknown to me. Will wait for the one in February and try that as I think it is great fun and very broadening in a radio sense."

Here is the correct solution of the January puzzle:

KWK WJW
WOL NOF
WCX JAB
WGL K KNX
O HHK E
WCK Q WWB
KGW WLB
WHO RAA
XFI WWZ

We suggest that our puzzlers make a practice of comparing the descriptions of calls with the correct solutions and thus get the full benefit of the education in stations.

The puzzle this month is an exceptionally clever one as it is not only perfectly symmetrical, but every space is keyed both ways. It was submitted by Walter H. Roe, of Tiffin, Ohio, to whom a leatherette cover has been mailed as a very slight token of appreciation. Mr. Roe has confined his stations to those at present existing and all of the calls used will be found in this edition of RADEX. Here is the food for thought:

	1	2	3		4		5	6	7	
8	9	10	"	12	/3	14	15	16	17	18
19	20		2/	22	23	24	25		26	27
25	19	30		31	32	33		34	35	36
	37	38	39		40		41	4/2	43	
44	45	46	47	48	D	50	51	51	53	54
	55	5%	57		58		59	60	61	
62	63	64		65	46	67		68	69	70
7/	72		73	74	75	76	77		78	79
Ф	81	82	83	84	85	86	87	88	89	90
	41	92	93		94		95	96	97	

Horizon'al

- 1- 3. 50,000 watts on a clear channel.
- 5- 7. Church in the North-West.
- 8-11. 100 watts in the show-me state.
- 12-14. In the central part of the Buckeye state.
- 15-18. In the Wolverine state—last three letters the owner's initials.
- 19-20. A Mexican station less ten.
- 21-23. Where they teach farming.
- 23-25. Changed from 1360 to 1330 in December. Reverse.
- 26-27. Last two letters from 28-30.
- 28-30. Ohio station owned by radio service store.
- 31-33. Owned by a southern city.
- 34-36, A western broadcasting company.
- 37-39. On twelve-seventy.
- 41-43. A publishing company in the North-west.
- 44-47. 100-watt Bible class.
- 51-54. 50-watt hardware company. Reverse.
- 55-57. In a state of only three stations.
- 59-61. Use the last three letters which pronounce the owner's name.
- 62-64. Radio telephone company in the North-west.
- 65-67. A state marketing bureau.
- 68-70. 1000 watts in one of the peninsula
- 71-72. Middle initials stand for a flour, 73-75. 10 watts in West. Reverse,

75-77. Pacific Coast publishing company.

78-79. First and last letters of a New England station.

80-83. About 229 meters.

83-85. Peery Building Co.

86-89. In J-4.

88-90. A 5000-watt sharing wave with a 10000. Reverse

91-93. One of two 10000 watts on same wave by same owner.

95-97. A State station in Mexico.

Ver'ical

1-29, 100 watts on the Gulf coast.

2-10. In the Flour City. Last two letters.

3-21, 1000 watts on Lake Erie.

4-32. Wheat producers.

5-25. 1000 watts sharing wave with four 250 watts.

6-16. Pickwick Broadcasting Corp. Last two letters.

7-35. In Keystone State. Owner's name is a city.

8-28. 1000 watts sharing wave with a 30,000.

12-31. Owner an organization with the same initials.

14-33. Radio station Inc. in New York.

18-36. A Canadian station sharing wave with a Mexican.

30-56. Chamber of Commerce with 10,-

34-52. 2190 miles from New York.

37-63. 100 watts at a "point" in the West.

39-57. 100 Watts, a saint and a Broadcasting corp.

41-59 Near the Gulf of California.

43-69. A college station at the same place.

62-80. First three letters of 37-63.

46-64. In a grand place. Last three letters reversed.

65-84. In a Hoosier city which also has a 10,000 watt.

66-94. In the Hudson Valley. Reverse.

67-86. Three 250 and five 500 watts on this wave. Reverse.

42-68. A 1000-watt with five 500 and one 250. Reverse.

69-97. Last three letters are owner's initials.

70-90. Last two letters the initials of the state. Reverse.

73-93. Last two letters abbreviation of another state. Reverse.

77-95. Excelsior in Mexico.

82-92. Last two letters of a 1200 kc. station.

88-96. Reverse two middle letters of a call that tells the state.

There, that will hold our puzzlers for one evening. Get busy if you want to have an extra copy of the April RADEX and incidentally take a post-graduate course in station calls.



This charming lady was born Nagy Janka in Hungary. The English equivalent is Johanna Grosse and she is now the featured organist of WTAM. She first became known to the radio world through her playing at WLW. She came to Cleveland to dedicate the new \$40,000 organ for WTAM and remained as a member of the staff.

Miss Grosse has a strange hobby — high diving for which she has received many medals. She commenced giving concerts at nine years and has devoted her life to music ever since.

Changing to Screen-Grid

Our Technical Editor is preparing an article on this interesting subject for the April issue. Some Foreign Programs

A NUMBER of our readers kindly call the attention of DXers to programs they have received. These should provide some interesting moments in trying to tune these stations in. Karl Halpern, of Brooklyn, N. Y., reports HHK at Haiti, on the air every day except Sundays and holidays 12:15 to 12:45 p.m. E. S. T., with a musical program, and each Friday 8 to 9 p.m. E. S. T., and each Saturday from 6:45 to 7:15 a.m. E. S. T., with educational lectures and music.

C. M. Falconer, of Baltimore, advises us that at 11 p.m. E. S. T. (10 p.m. C. S. T.) The Mexican Daily News broadcast news in both English and Spanish over station XFX on 910 kcs. with 1000 watts.

Frank A. Johnson, author of the DX article in the February issue, writes that 8WMC at St. Johns, Newfoundland, broadcasts Sunday morning church services on 415 meters with 500 watts and Monday and Thursday nights at 8:30 Atlantic Standard Time, an amateur program. Mr. Johnson contributes information regarding NBA and TIX which we are incorporating in the index. He writes regarding JFAK, Taihoku, Taiwan, Japan, "At exactly 6:40 a.m. C. S. T. (which is 9:40 p.m., or 15 hours later in Japan) they come in with 'Gan-g, gan-g, gan-g' (sound of the Japanese time signals) then give weather conditions, storm reports, latest happenings of the day, tomorrow's program, etc., and close down at ten o'clock, Japanese time. If it's a morning program they say 'Ohayo,' which means "good morning.' Signing off and saying "goodnight,' they say 'Sayonoia,' which means The English language in-'good-bye.' structions reach us here at 3:30 a.m. (a good time to catch them). The announcer comes to the mike at JOAK and then you hear 'J-O-A-K Kochirarva Tokyo Chiwo Hoso-Kyoku de Arimsau' which means JOAK. This is Tokio Central Broadcasting Station."

Leon V. Garland, El Segundo, Calif., writes: "Many on this Coast could get the Japanese stations if they knew where to get them. I will list them below

showing comparison with U.S. stations: JOBK, Osaka, 10,000 watts. Dial same as WJR.

JOHK, Sendai, 10,000 watts. Dial same as WBBM.

JOGK, Kumamato, 10,000 watts. Dial same as KGO.

JOCK, Nagoya, 1,000 watts. Dial same as WCCO.

JODK, Keijo, 1,000 watts. Dial same as WHAS.

JOIK, Sapporo, 10,000 watts. Dial same as KOA.

JOFK, Hiroshima, 10,000 watts. Dial same as KOA.

JOAK, Tokio, 10,000 watts. Dial same as WENR.

Batteries to A.C.

E greatly regret that an error crept into the article in the January issue, Electrifying Battery Sets. The description of changes in the text did not agree exactly with the cut. Readers interested in changing over old sets operated by batteries to a. c. will please note the following correction:

The last paragraph of the article on page 23 of the January RADEX should read as follows:

The resistors are then installed. The end terminals of the 15-ohm potentiometer are connected across the 1.5-volt filament lines. The center terminal of the potentiometer is connected to one side of a 0 to 750 or 1000-ohm variable resistor, and the other side of the latter is connected to the ground line. side of the 2000-ohm fixed resistor is connected to the ground line and the other side to the center tap of the 5-volt winding of the transformer. The center tap of the 2.5-volt winding of transformer is connected to the B-positive line supplying detector-plate voltage, which is 45 volts. The resistors can be attached to the subpanel and need not be touched after they have once been adjusted. Two variable resistors for controlling stability and volume are then installed on the panel, these being substituted for rheostats formerly used but now discarded. The stability control is a 0 to 2000-ohm variable resistor. It is cut in the B-positive line supplying the r. f.

(Continued on page 23)



BIG MONEY QUICK—the chance to more than double your salary—is offered to you now. RADIO has leaped to a gigantic industry, employing many, many thousands and loudly calling for more trained men to fill the Big-Pay jobs.

TALKING PICTURES are sweeping the entire country, opening up many new good jobs everywhere. TELEVISION now comes with even greater promise of a large number of good paying jobs for those who are prepared.

Big Money Now! More to Come

Big-Money Jobs — \$2500 — \$3500 — \$5000 and up, right now—lots of money easily made in spare time — increasing pay for you and more and more money as this new industry grows bigger and bigger.

Answer the Call --- Get Into This Money-Making Industry Now!

The "R.T.I." famous "3 in 1" Home Training in Radio, Television and Talking Pictures makes it easy for men, young men and boys to get into this new field quickly. R.T.I. home training is practical and easy to understand. It trains your head and hands at the same time. Your opportunities for money-making are unlimited. Your age, amount of education, or experience, make no difference. If you are interested and ambitious you can succeed. You will be ready for a good job or profitable business of your own, even before you finish the training. Remember — you learn at home in your spare time on actual equipment included n fine, big outfits sent you. R.T.I. with all its connections in the industry, keeps you up-to-date and pushing forward all the time.

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\$500 EXTRA MONEY IN 2 MONTHS

Your radio course has enabled me to earn over \$500 in two months. This is all spare time work, as I have a permanent position with my father in our store. If you will be credit for the above.

—J. NOTYTHINGER,

L. BOX 37, Greenville, Ky.

d'Al

MAKES \$25 A DAY

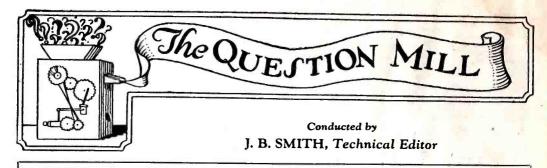
I make as high as \$25.00 per day and have made \$600.00 in 2 months from Radio work. That's not so bad when I'm only 19 and in a small town. You did all you said you would and much more.—FLOYD KIGERLY, BY 91. St. Joe. Ind.

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Name	
Address	
City	State

Please mention RADEX



We are glad to publish replies in this column to questions asked by any reader. We cannot promise, however, to reply by mail to other than yearly subscribers. If you are not a subscriber and desire personal reply, please send your subscription with your question. You will find blank for this purpose on page 34

I would like to know if you can connect a headphone in the plate circuit of the 222 screen-grid tube. I have a Fada five-tube battery set that seems to have a noise in it. When you turn up the volume the set has whistling noise and, of course, this ruins reception. I tested the batteries, aerial and ground and they are O. K., but the whistling noise comes in just the same. What is wrong?

As the output of the screen-grid tube is oscillating at a high frequency—radio frequency—you would get no results whatever if you connected a headset in the plate circuit. Radio-frequency waves cannot be heard by the human ear and they must be converted to audio frequency, which is done by means of a detector. A constant whistling may be due to various causes of which the most frequent are: too high a plate voltage on the r. f. stages or too high detector plate voltage, a high-voltage running close to a grid line or near the grid condenser. If you will check these possibilities in your set I think that you will soon discover the trouble. times a poor tube also causes whistling.

I have an "Aero-dyne" 6 D. C. receiver, which I built two years ago and it has never given the distance that I think it should. Now it seems to be losing sensitiveness and selectivity. I am using a Balkie AB 6-180 eliminator, which is getting noisy. Since the change of wavelength of WTAM and WADC these stations cover up most of the dial where I formerly got other stations. By removing the tubes in the second r. f. stage the volume is sometimes greatly increased. I am using 201A tubes

and a 112A tube in the last a. f. s age. There is a hum when I place my hand on the first a. f. transformer. The volume also increases when I connect the variable condenser frame to the ground binding post. What can be done to make it more sensi ive and selective, and what will make it give better service and distance?

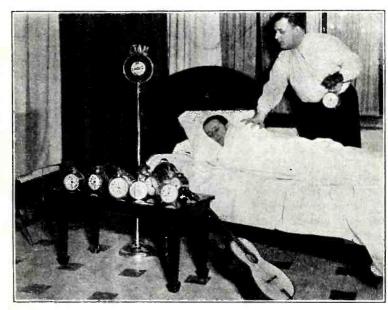
Evidently your second r.f. stage is not working properly. This may be due to a poor tube, poor contact between the tube and socket, broken connection. touching plates in the variable condenser, or a short-circuited coil. latter is very seldom the case. I suggest that you replace the old eliminator with a new one or otherwise have the defective parts replaced. Also, have all of your tubes tested, replacing those that are not up to the normal value. Your radio dealer will be glad to do this for you. If you are troubled with broad tuning shorten the length of the aerial. Your main trouble, however, is the second r. f. stage.

I have a Silver-Marshall 740 D. C. receiver, which has given excellen! service for the past year, but a short time ago the drain on the B-batteries became too much so I took it to a radio shop to see what could be done abou! the trouble. replaced the midget bypass condenser, which is specified in the da'a on this set as .25-mfd. capaci'y. They also replaced the bypass condenser, which is 1 mfd., and the tubes. Since this work has been done I am unable to pick up very many s'a'ions, or to get the volume on those that I do pick up, most of which are not 500 miles away. Neither do I get any signal from

the stations when turning the dials. The stations always come in and out without any warning at all. Before this work was done the set would always squeal whenever a station was close by, or when the distance control was turned too far. Now the distance control, which is a .000075 mfd. midget variable condenser, can be turned clear around without having any effect on the set at all. The screen-grid tube or r. f. amplifier tube was not changed but the other hree were replaced with Ux 112A tubes. These three tubes are all the same

toms, as expressed in your letter, your B-batteries are probably getting too low for the efficient operation of the set. This would account for your inability to get distant stations. The batteries should be discarded when they have dropped 15 per cent below their normal voltage when new. Therefore, a 45-volt battery should be discarded when it drops to 38 volts. Also be sure to keep your A-battery up to 1280 specific gravity. A low A-battery will make it impossible to get distance. Then it is well to renew the

It's hard to get up in the morning especially when you have to go on the air at 6:30. Listeners who were anxious to hear them, contributed alarm clocks, but in spite of them Glenn finds it hard to waken Gene. Hear them over WTAM each morning 6:30 to 8:00.



but when they are changed around with each other there is a great loss in volume.

You mention in your letter that you are now using one screen-grid tube and three UX 112A tubes. Here is one point of difference with the instructions for the No. 740 Silver-Marshall receiver. which state that two 112A tubes and one UX 171A tube should be used, the latter for the second a. f. stage. This is highly important as the connections to the B-batteries or eliminator, and also the C-voltage, as given in the instructions, are especially intended for the UX 171A tube, which requires a 40.5-volt C-bias at 180 volts B, whereas the UX 112A requires only 9 volts. If you have a. c. current in your locality, I suggest that you purchase an eliminator and discard the B-batteries. According to the sympscreen-grid tube after a year's service. If you follow these simple precautions I am quite certain that your troubles will be over, and you will find that the set is again as sensitive as formerly.

What should the normal flow of plate current be in my set, which has one r. f. stage using a UX 201A tube, a detector UX 201A, one stage of audio UX 201A, and a second stage of audio having two UX 171A tubes in push-pull I use 45 volts of B on the detector, 90 volts on the other tubes and 4.5 volts of C-battery.

A 0 to 30 milliammeter is necessary to measure plate current drawn by your receiver, the milliammeter being connected in the negative line to the battery. Your set should not draw more than 27.5 milliamperes as the detector draws 1.5 mils., the other two UX 201A tubes

each draw 2 mils., and each 171A tube draws 11 mils., the latter being supplied with 90 volts of B and proper C bias, which should be 16 volts in this case. Your power tubes are therefore drawing more than two-thirds of the total amount of current. It is advisable to replace the B-batteries with a suitable B-eliminator, which will provide higher voltages. You should have at least 135 volts of B for the 171A tubes, although 180 volts is preferable. With 135 volts of B, a C-bias of 27 volts must be provided, and with 180 volts of B, a C-bias of 40.5 volts.

I have a Philco all-elec'ric 8-'ube No. 86 receiver. Sometimes I can get the local stations without advancing the volume control a' all, but at other times I must advance it halfway or more before I can hear the signal. When the volume is turned all the way up the set roars for a minute, then pops and stops for a while. after which it starts all over again. pilot light flickers sometimes. stations are hard to get and are always accompanied by whis ling and howling. I have no aerial bu' have a good water-pipe ground. Where shall I look for the trouble?

The fact that you are using no aerial is the cause of your trouble. Your set is designed for use on an outside aerial. The volume control, in your set, is connected between the aerial and the ground and serves as a stabilizer. Erect a suitable aerial and with a good ground you should get satisfactory reception. At present, you are overloading your first r. f. tube when you advance the volume control.

I would like to know whether screen-grid tubes could be used in my Victoreen 1928 "Universal-Circuit" Superheterodyne receiver, in connection with the 4 r. f. intermediate transformer. Also, what resistor would be best to use. When assembling the receiver I must have made a wrong connection as the oscillator got hot and started to smoke and the switch also became extremely hot. Do you think that the oscillator has been ruined? Would a choke coil, connected to the oscillator, eliminate getting stations at two places on the dial?

To attempt using screen-grid tubes in your Victoreen super-heterodyne would

be a positive method of inviting trouble. In other words the installation of these tubes would throw your receiver entirely out of balance, unless numerous circuit changes were made, which is entirely experimental. Your oscillator is perhaps still in good condition provided there are no breaks in the wiring or loose connection at the terminals. No choke coil is advisable at this point. All superheterodyne receivers, except those especially designed to eliminate harmonics, get stations at two points on the dial. It is impossible to remedy this condition in your case.

I have an old 5-tube Apex T. R. F. battery-operated set of which the transformers are burned out, and I am wondering if I can convert this into a short-wave receiver. What radio transformers should I use and how must I proceed to rebuild it?

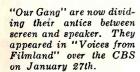
It is a very easy matter to adapt your set to short-wave reception. Purchase special coils for this purpose from your radio dealer, or a mail-order house, and install them according to instructions which accompany them. You will find that, short-wave coils are generally classified in three groups, covering different wavebands, namely, low, intermediate and high, the latter covering the broadcast wavelengths from 200 to 600 meters, or 1200 to 540 kilocycles. The coils to use depends entirely on the waveband you wish to cover. It is preferable to get the type of coils that are interchangeable, and are known as the "plug-in" type. Special sockets are often provided with the coils as they are made to fit a standard tube socket. By using plug-in coils you can cover all wavebands by inserting coils of various sizes, as indicated. Circuit changes are. of course, necessary, but are fully covered in instructions. If your audio transformers are burned out it will be necessary to replace them.

I have a Grebe five-tube battery-operated receiver using C X 301 A tubes. I am using an 18-inch cone speaker, but talking and singing is hard to understand as it is greatly distorted. Will this receiver operate a dynamic loudspeaker? Shall I make any changes in the tubes or elsewhere?

Undoubtedly your loudspeaker is largely responsible for your trouble.

Some speakers of the cone type lack the necessary sensitivity for good reception and are easily overloaded, which distorts reproduction. It would, therefore, be advisable to get a speaker of the latest design. You can operate a dynamic loudspeaker if you desire, provided you insert a UX 171A power tube in the last audio stage, using 180 volts of B-supply instead of 135 volts, and a C-bias of 40.5 volts, connecting the negative of the C-battery to the C-negative terminal between the aerial

for a 112A tube. Greater distance can usually be obtained by proving a long aerial and a perfect ground connection. Of course, distance also depends on the condition of the tubes in the set, and it is therefore advisable to have them tested, replacing those below the normal rating. One of the most important requirements for getting distant stations is very careful tuning, which involves careful manipulation of the variable controls. I have observed different persons operate a receiver, with the re-





and loop terminals, and the C-positive of the battery to the A-negative terminal on the receiver. A frequent cause of poor reception can be traced to defective tubes, so be sure to renew them when necessary, depending on tests made by your radio dealer. Usually tubes should be replaced at least once every year.

I have an R. C. A. Radiola No. 17 and would like to know if I could use a UX 112A tube in the last audio stage. Also please advise me how to get more distance.

Your inability to get distance does not lie in the audio stage. This stage is designed for the use of a 171A tube and proper C-voltage for that tube is provided by the power pack. Consequently substituting a 112A tube would throw the last stage entirely out of balance, and there would be too high a C-voltage

sult that those experienced in tuning with extreme accuracy could bring in distant stations, which were outside of the range of the average fan.

I am operating a Zenith Model 27 set, which calls for a type B Raytheon rectifier tube for the B-eliminator. The substitution of the BH tube throws the set entirely out of balance as it increased the B-voltage to the r. f. stages from 75 volts, which is normal, to 96 volts. I would like to know where I can purchase a type B rectifier tube. Several dealers have told me that they are not being made any more. If this is true kindly let me know what I can do to reduce the voltage to normal.

To reduce the voltage of your B-supply, when using a BH-type Raytheon rectifier tube as a substitute for the B-type, formerly used, locate the flexible

lead running from the A-supply across the upper portion of the cabinet to the B-supply. Slit the insulation thereby exposing two separate insulated wires. Cut one of them in two and connect the two resulting ends to the terminals of a porcelain receptacle, mounted in a nearby position. Now insert a 60-watt Madza lamp and then make a voltage test from B-negative to B-positive maximum. (This test is made from the brown wire on the Multiplug, which is negative, to the separate miniature plug on the B unit, which is B-positive maximum.) Make this test while the receiver is in operation, with the Multiplug and the single lead to the miniature plug connected, the resulting voltage should be between 170 and 180 volts. If the voltage is above 180, replace the 60-watt lamp with one of the 50-watt size, or a still smaller one, until the correct voltage reading is obtained. This will automatically reduce your r. f. voltage to the proper value, which can then be checked by means of a voltmeter. Inasmuch as the type B Raytheon rectifier tube is no longer available, this is the best method to follow.

I have a five-tube Freshman set which does not work. No signal comes through the loudspeaker although a ringing sound can be heard when any one of the tubes are tapped. When the headset is connected, in place of the loudspeaker, only a noise resembling static can be heard. The set uses Ux 201A tubes. Will you kindly tell me where to look for the trouble?

Your trouble is perhaps a break in the wiring, a loose connection, a brokendown coil, a defective resistor, or one or more poor tubes. Test each coil for open circuits by running the current from a C-battery hooked up in parallel with a small voltmeter. If the needle moves there is a continuity in the circuit under test. Each instrument should be tested in this way. Also examine the plates of the variable condensers to make sure that they are not touching each other.

I have a Magnaformer A. C. 29 receiver with a Mu'er dynamic loudspeaker. There is a bubbling noise in the speaker that sounds like water boiling. This is not very loud but I would rather not have it and would therefore like to know how to eliminate it.

Undoubtedly the bubbling noise in your speaker is caused by an overloaded tube in the last audio stage. This may be due to an incorrect C-voltage on this tube. Check up this voltage to be certain that it corresponds to that advised in the instructions accompanying the receiver. If this is correctly adjusted and the trouble persists, substitute another tube for the one in the last audio stage. Another possible source of your trouble may be too high a grid-leak resistor, which can be overcome by substituting one of lower value.

These Pesky Announcers

Y feelings on the technique of station announcers have been becoming stronger and stronger for the past month—since, in fact, we got a new 9-tube screen-grid Philco, and at last I just have to write to somebody in order to relieve my feelings.

I think all announcers should attend a training school, or take a correspondence course in their art—for indeed it is an art. They could at least listen to the announcers as heard on National Broadcasting programs, or to the announcers from such stations as KPO and KGO in California and KSL in Utah.

The climax came tonight when I sat from 5:00 p.m. until 5:30 p.m. with my ear glued to a station. The music was not too strong, so, knowing that it was from a far-off station, I persevered. The announcer said a lot of unimportant He would say a few words things. clearly, then he would run his words together and finally end up in a mumble. If he had enunciated as does Walter Damrosch, I could have heard every word however low the tone. At the half-hour I thought now he will have to announce his station. He advertised a sale of radios at half-price, then mentioned telechrons, and then while I was straining ears and brain, he hurriedly stated that he was about to sign off, that he operated at eleven hundred kilocycles, and then he departed, to keep a heavy date I suppose, making no mention of station, country, state or city.

(Continued on page 20)



Most of our readers seem to appreciate the help "What's

on the Air Tonight?" gives them even though our calendar must necessarily be subject to change without notice. "It is much more satisfactory than the daily papers in this section," writes L. F. Locke, of Woodward, Okla. "I think it would be a big loss if you were to cut it out," comments John H. Lyford, of New Hampton, Iowa. "Of course there are bound to be inaccuracies."

CJBC, with its four different calls, puzzles some readers. Howard B. Hubbard, of Elizabeth, N. J., writes that he has never succeeded in picking them up and asks what time Sundays they broad-CJBC is the call of the Jarvis Street Baptist Church of Toronto. They have no station of their own but have been assigned these call letters for use Sundays over any of the four stations named. The power varies also, natur-Mr. Hubbard also says he has ally. never been able to tune in WJBT although he gets WBBM regularly. This is also listed as a Sunday call. WBOQ is not listed as a Sunday station but Mr. Hubbard has likewise been unable to receive them.

Socket Aerials Dangerous

Wave traps continue to interest a number of readers and we would be glad to receive reports from any who have made the one described in the September issue. Copies of this issue may still be secured by those interested in building their own.

Abel F. Wood complains that at some points on the dial of his Majestic the music seems to waver or become tremolo. This is undoubtedly caused by interference from stations on the next channel and nothing can be done to remedy it outside of another general reallocation. Mr. Wood also comments on the use of the lamp-socket aerial. "Tell your read-

ers when they use one they want to make sure they have lots of fuses in the house or plenty of radio tubes, for I tried one out once to my sorrow and I had only one wire in the socket." These socket-aerials have been considered perfectly safe. Have any other readers had trouble with them?

Noises and Their Cure

"I have a new Brunswick receiver but am unable to get distance satisfactorily due to intense interference," writes Stuart N. Frolick, of Syracuse, N. Y. "I have tried an inside antenna and also an aerial plug, but to no avail. There are two broadcasting stations within a quarter of a mile, while directly across the street is a factory and within half a block a battery-charger, all of which furnish considerable interference." for the broadcasting stations there are but two remedies-either move the stations or move the set. We can offer no hope beyond this. If Mr. Frolick will send twenty-five cents to the Tobe Deutschmann Corp., Canton, Mass., and secure a copy of their book, "Radio Noises and Their Cure," he will find described therein "filterettes" for each particular interference-causing device. If he will then bring these to the attention of the factory and the battery shop and get their owners to install a suitable filter, the noise from these sources can be lessened.

Special Programs

Francis H. Dexter, of San Juan, Porto Rico, would like to have a list of stations which broadcast a resume of the day's news between the hours of 6 and 9 p.m. Eastern and Central time. Some day we think we shall have to try to publish a classification of programs such as Day's News, Stock Reports, Business Talks, etc., for the use of our business and professional readers. E. J. Overing, Red Cloud, Nebr., wants to know what stations rebroadcast the Arlington time

signals. Who can advise him? These used to be quite common but we do not remember tuning them in lately.

We had an inquiry two months ago for Polish programs. Richard Vanza, of Cleveland, advises us that WJAY broadcasts Polish music from 1 to 2 every afternoon and from 4 to 5 on Sundays. John Costic, Stony Brook, N. Y., reports WICC at 11:30 a.m. Sunday and WAAT at 2:15 and 4:30 daily.

Vallee and Osborne

G. B. Abbaduska, North Chicago, Ill., wants to know if his hunch is correct. He writes: "I have heard an orchestra of Will Osborne's over the CBS several times, last night through WISN at Milwaukee. As you know Rudy Vallee and his orchestra appear over the NBC system on the Fleischman program every Thursday. Now the question is this, are there two different orchestras. one conducted by Will Osborne and one by Rudy Vallee? Their music is just about identical, the voices of Osborne and Vallee are almost the same in both speech and song, and their programs are conducted in the same manner." What do our readers think? We clip from the daily press a news item of a critic who visited Rudy Vallee at his night club in New York the other evening and later called upon Will Osborne at the Grand Central Hotel. "Program and personality very much alike, but Rudy is still best," says this critic.

The New Improvements

The extra column of symbols in the Index by Frequencies has brought us many letters. Some readers want to know what — means in this symbol column. These dashes have no meaning; the printer contributed them to hold the space if symbols should be desired later. "The various combinations you use to enable a radio fan to know about the stations, are very cleverly arranged and help to make RADEX a great investment." This from E. O. Cutler, of New York City, who writes that he is greatly pleased with his "Seven Seas" receiver for he recently brought in KNX, KFI and KPO with a forty-foot indoor aerial. James Richter, of Reading, Pa., likes the new arrangement also and adds: "RA- DEX improves with each issue; one copy arrives and then the next is best." Mr. Richter says that his dealer has a plan for delivering the new copy of RADEX each month and then giving the receiving set the once over at the same time. He says this monthly inspection of tubes and radio is easily worth a dollar and only costs him the price of a new RADEX.

Jobs for the Commission

James J. Butcher, of Bridgeport, N. J., wants us to use our influence with the Radio Commission to stop music from playing while the announcer is giving the call letters. Next to not making any announcement at all, is an announcement that is swallowed up by the orchestra or organ. But we hesitate to add any more troubles to those the Commission now has.

"I want to suggest that you plead with the proper officials to reserve a space of one hundred kilocycles for foreign stations that could be in one space on the dial and not have interference from U. S. stations," is the request of M. D. Fernanzo, of Little Rock, Ark. The Commission struggled long and hard to clear ten channels for U. S. stations and we fear they would quit if they had to clear ten all in a row for foreign ones even if those foreign stations would consent to change their frequencies so they would come within this allocation.

Unhappy Experiments

J. R. S., of Baltimore, Md., likes the Question Mill. "With its help, I, although the greenest amateur, located and corrected two sources of trouble with my set, when four different service men could not even guess at what was wrong." The same reader tried the line-noise eliminator as described in the September number. He refers to the suggestion for two condensers in series across the power line with a ground lead between them. "I tried this out, leaving my set ground connected and developed such a terrific hum that I shut the set off. I then disconnected my set ground and switched on again. This time there was no hum but when I turned the dial on my telephone I heard it in the loudspeaker

just the same. I also noticed that when I touched my ground connection with the ground lead from the condensers, there was a slight blue spark. Evidently this is another freak appliance which will work on one set and not on another. Have you had any further information concerning it?"

A number of readers have written us that this device had reduced line noises but of course it would have no effect on interference from telephone dial which is an air disturbance. Some of the manufacturers of a. c. sets caution their users against operating the set without the ground connected, and against removing one or more tubes while the set is in operation.

Some DX Records

We have so many letters from readers regarding their reception that it is quite impossible to use them all. We can make but brief reference to a very few. Thomas C. Rogers, of Altoona, Penna., brought in 146 stations in less than two months in one of the worst locations in town. He asks if it is possible to keep readers informed about test programs for the month. We regret that it is not; these tests are not scheduled and licenses covering them are for but ten days. "Quite the best two-bits worth I have got in a long while," comments Mr. Rogers regarding his RADEX.

Mrs. Charles D. Waldron, of Concord, N. H., needs verification from Nevada, Wyoming, Delaware, South Carolina and North Dakota to complete her tour of the states via the air. "The DXers right hand," is her comment.

"I am only 13 years old but a great DX fan," writes Alexander Maley, of Elizabeth, N. J. He asks about WWV, Hadley Field, N. J. This is a government station broadcasting weather reports to aviators and is not a broadcasting station in the usual sense of the word.

"I am located where anything under 1000 miles is a local!" writes V. G. Stevens from Kirkland Lake, Northern Ontario. "But short wave lengths and all I have logged 591 stations." Mr. Stevens would like to see a complete list of all short-wave broadcasting stations. We regret that even the government does not publish such a list except in

connection with several thousand other short-wave stations. We are adding to the list in RADEX as fast as we can verify the data given us by readers.

"In three days I have tuned in 40 stations that I never knew broadcast before," says Newton M. Brown, Florence, N. J. Mr. Brown and others ask for information regarding DX clubs which they may join. Will some members of clubs advise us?

"218 stations in the last two months," says George Hennell, of Milwaukee, Wis.



These four artists are heard every week in "Around the Samovar"—a regular feature of the Columbia programs. They celebrated their first anniversary on January 18th. They are Mme. Zinaida Nicolina, soprano, Mlle. Eliena Kazanova, violinist, Eli Spivak, baritone, and Peter Biljo, director of the Balalaika Orchestra.

"1,183,698 miles," is the unique record of B. A. Butts, of Ellensburg, Wash. "273 stations in a little over a year" records F. A. Perkey, Dunbar, Pa. "191 stations from Boston to San Diego and Portland, Ore., to Havana, with a two-tube set and a home-made amplifier," writes Rodney Whitten, of Neosho, Mo.

In five nights, 185 stations, is the best record of J. E. Rimedio, of Dover, Ohio.

"I have a new Philco and have logged 210 stations in less than two months," writes Edw. C. Webber, of Plattsburg, N. Y. M. C. Wissler, Omaha, Nebr., confined at home recuperating from an operation, used a radio for the first time. "With the help of RADEX I have logged 114 different stations in four days, including eighteen West Coast and Six East Coast stations, three Canadian and one Cuban."

Low power stations were reported by many. Orie W. Huddleston, Dublin, Indiana, received KLCN at Blytheville, Ark., when it used but seven and a half watts, WOBT with 15 watts and several hundred-watters. John T. Thacher, of Windsor, Conn., reports a number of low-power stations, among them CFBO of St. Johns, N. B., a fifty-watter, WNBO at Washington, Pa., 15 watts and CHRC at Quebec, 25 watts.

The rest of our letters will have to wait until April.

Short Waves for the Radio Fan

(Continued from page 2)

23/4-inch mailing tubes cut down to 8 inches in length, four strips of bakelite. 8 inches long, and four old UX tube sockets. A primary winding of 10 turns of No. 26 double silk-covered copper wire is wound on each tube near the center. and a secondary winding is started onehalf inch from the primary winding. For each coil the secondary winding varies as follows: For the 20-meter waveband, 3 turns; for the 30-meter waveband, 7 or 8 turns; for the 80 meter waveband, 15 turns, and for the 150-meter wave-band, 25 turns. The variable condenser to be used with these coils should have .00025-mfd. capacity. The coils are attached to the bakelite strips by means of brass machine screws, using suitable washers and nuts. The UX tube bases are cut down so that only a disk with the extending prongs remain, and the cut-down bases are then attached to the center of the bakelite strip, connections from the coil ends being made to the prongs. It will be found that they are hollow and the ends of the wire canbe soldered in them without any difficulty. Of course, similar coil ends should be

run to similar prongs, which must be marked accordingly, so that the coils are interchangeable. They are fitted to UX sockets which are attached to the subpanel of the adaptor unit.

Short-wave adaptor kits contain full instruction concerning the wiring of the unit and these should be carefully followed. The above-mentioned instructions for making coils are especially intended for the radio experimenter who has or can readily obtain wiring diagrams for the purpose.

February Changes

A MONG the changes recently made by the Radio Commission are the following:

WKRC, Cincinnati, given construction

permit to increase power.

C. P. given for new stations in Lynchburg, Va., Gueda Springs, Kansas; Rayne, La., and Little Rock, Ark. These stations have not yet been assigned call letters.

CHYC, CNRM, WSB increase power to 5000 watts and KFKX and KYW to 10,000. There are also many increases of power among the smaller stations.

KJR is moved from 760 kcs. to 970, KFBB from 1360 to 1280 and the following new stations are listed: TIX, San Jose, Costa Rica, on 750 kcs.; NBA, Balboa, Canal Zone, on 850; KGHG, McGehee, Ark., on 1310; KGMC, Jerome, Ariz., on 1310; KGMB, Honolulu, T. H., on 1320; WFDV, Rome, Ga, on 1370; WQDM, St. Albans, Vt., on 1370; KGMD, Roswell, N. M., on 1500; and KUT, Austin, Texas, on 1500.

WFBL has been given the use of 900 kcs. in addition to 1490 for thirty days.

There are also a number of changes in locations and owners which will be found in the Index by Frequencies.

Tom Lovell, of Belton, Texas, writes that KTRH, Austin, Texas, has been changed from 1120 to KUT on 1500, but the government reports that it was KGDR which was changed to KUT. Who can state definitely?

Several readers report hearing WCHI at Chicago, evidently new call letters for

(Continued on page 63)

That Which Is Under the Bed

Radio Brings Faith to the Unbeliever

By W. E. DEATON

Talbot the same answer that had followed him up the long winding path of Turkee Mountain.

"Shore, stranger," she admitted, "yo' contraption speaks for hitself, so t' say, and accepting yo' claims, the price don't seem too tall, but—wal—there ain't nobody 'round these parts got one."

"If you'd buy one," the salesman suggested, "folks from far and near

would be coming to listen-"

She chuckled softly, "And my ole man would beat me, cause we'd have to feed um. No, friend, no hard feelings, but I reckon you'd better foot it on for to find another buyer."

Talbot grinned in spite of himself, "If I had sold one to the Newcombs, or the

Twiddys, would you buy one?"

"Hit wouldn't of seemed so newfangled," she admitted. A sly smile crossed her face; "Ef you sell Ole Man Godless, up top the hill—by crackey! we all'll take one, and I—"

"How much further?" Talbot asked, "I'm right tired. Is Godless his real

name?"

"Oh, jest a piece." She gestured over her shoulder. "Naw—we jes call him that, 'count of him hatin' the churchers, and talkin' down all the parsons what call on him."

"You sending me up there to get a taste o' buckshot?" Talbot asked, grin-

ning again.

"Honest, Stranger, he ain't bad! Probably talk yo' arm off, do you let him. Jest don't git him started on 'ligion."

The salesman shouldered his burden wearily, "Remember now—if I sell him, you'll buy one, and help me line up the

other folks 'long the road."

"Ef you sell him!" Her laughter followed him along the steep, dusty path.

The 'jest a piece' proved to be an hour's climb under a hot Carolina sun, and the afternoon shadows had grown long before Talbot halooed before the cabin.

An old man, grizzled, heavy-set and active, came out and raised his arm in greeting. A dog raced around the yards barking shrilly and Old Godless caught up a stick and ran him into the rhododendron bushes. "Don't pay no heed to him," he said. Then seeing Talbot's burden, asked, "What you peddlin"? You don't look like no road-store."

Talbot grinned disarmingly, "I'm not a regular. You see, I had a chance to pick up some things mighty cheap. Some things I figured you folks back in the

hills would appreciate. I—"

"Ain't no sense standin' in the sun," interrupted Godless, "come in and set a spell." He led the way into the cabin and waved a hand hospitably toward the only chair in the room. He sat on the edge of a bed and began to pack a corncob pipe with tobacco. "You was saying—"

Talbot put down his burden and wiped a damp forehead. "Well—I bought this stuff cheap and I've been walking all day to give you folks the opportunity of getting something that will be a real

blessing—"

"You ain't a preaching-man?" Godless cut in.

"No."

"Sound mighty like hit! Talkin' bout givin' folks blessings and such. Oh, they come up here to argue with me, but I shuts 'em up quick. I jest say—"

"But---'

"Lemme finish, stranger. I jest asks them; 'Where at is this here God you talkin' 'bout?' and they allus says 'Why, he's everywhere!' and then I gets 'em. I says, 'Is he in this house?' 'Oh yes,' says they; 'Is he under my bed?' and do they say, 'Yes,' I jest lifts up my mattress and show them there ain't nothin' but the springs, and prove them to be liars."

Talbot wiped his forehead again. "I have here something which can make your whole life different; something which will bring the world to your door.

It will be a companion in your lonely moments; a comforter when you're blue. and—"

"I know!" Godless cut in bitterly, "Hit's name is 'Holy Ghost'! Your're jest a preacher under a-"

"Wait!" pleaded Talbot. "You've got me wrong. Let me show you: It's all in this box. I hook these on—simple. isn't it? Now-"

The old man leaned forward in open interest. "What'll yo' contraption do?"

"Now-it's fixed-ready to operate. Suppose you want some music—"

"Well, supposin"? Where do she come from?"

"Right out of the air."

Godless cursed vigorously. you'd say that! The air in this here house is full of it?"

"Yep."

"I knowed hit!" The old man cried triumphantly. "You're jest the same as the preaching-men. Reckon you'll say hit's under my bed too?"

"Sure."

"There!" Godless threw back the light mattress. "There! You and yo' music, and yo' God is all lies! You be a-"

"Hold on!" Talbot cut in hotly. "You just put this little piece of wire under the bed to catch the music."

The old man obeyed mechanically and the moment the wire touched the springs of the bed, the cabin was flooded with the brief, final chord of an organ. A clear voice followed: "The eyes of the Lord are in every place . . . beholding the good . . . and the evil." This concludes the sunset services from station—"

"How's that for-" Talbot asked jubilantly, then stopped short in amazement, for Godless' face was twitching convulsively. In the half-light his eyes glowed, and the cabin walls sharply echoed the bitterness of his laughter.

"The fool's done said in his heart-" he quoted wearily. "An' I'm the fool—"

"It was just the radio," Talbot ex-

plained kindly.

"No! No! Hit were Him, stranger! Him taking the trouble to speak to a po' fool whose mouth done dragged him night Hell!" He knelt awkwardly and Talbot stood in embarrassed silence as Godless' hands clasped and unclasped.

Lord!" he began, then stopped. "Idon't know no words- Me-a longtongued fool standing in the need of prayer and-"

"Don't feel bad, friend. You-"

The old man checked him. "Stranger you better go. I'll buy yo' machine. Hit showed me the light, but you gotta leave me to figger out my salvation."

"But I—"

"Go 'way! I got sins for to wash away this night."

"These wires-"

"Git out!" Godless screamed, "Leave me to my sorrows! Git!"

It was dusk when Talbot knocked at the cabin half-way down the mountain. The woman came to the door. "Well, stranger-" she said, recognizing him, "Old Man Godless didn't-"

"I sold him," Talbot stated briefly, "I'll be back Monday with a radio for you. I just stopped to tell you-don't ever be calling that man Godless again!"

These Pesky Announcers

(Continued from page 14)

It could have been station KGDM California, WLWL New York City, or WPG Atlantic City—but I will never know.

Both my husband and myself are wild enthusiasts and sit up until all hours getting far-off stations. We have had Cuba and Mexico, to say nothing of Canada, Virginia, North Dakota, Chicago, New York, Georgia and even the little station at Bismarck, North Dakota, But it certainly dampens one's ardor to sit for hours listening in spite of static. near-by noises, interference from other stations, etc., only to be disappointed time and time again. Some of these would-be announcers find time to make silly local jokes which cannot greatly appeal to the scattered radio audience. They find time to state street addresses and telephone numbers, to advertise bargain sales and restaurants and night clubs. but try and find out whether they are north, south, east or west, let alone learning the name of the state, city or station.

Perhaps an editorial on the subject would help-if the announcers themselves would read it.

Mrs. C. D. Roeder, Reno, Nev.

Two Sides of the New Pentode Tube

Five-Element Tube Creates Furore in Trade

HE affirmative side is taken by the CeCo Manufacturing Company in the following announcement:

CeCo Engineers Perfect AC Pentode

Tube

New Five-Element Tube Three Times as Powerful as Screen Grid—Will Cancel Need for Multi-tube Receivers—Makes Possible Lower Unit Cost for Sets—Called Greatest Advance in Radio Since Three-Element Tube Was Perfected Twenty Years Ago.

In the laboratories of the CeCo Manufacturing Company, Providence, R. I., tube engineers working under the direction of N. O. Williams, vice-president and works manager, after months of experimentation have perfected the AC

pentode or five-element tube.

According to Ernest Kauer, president of the company, the pentode tube will represent as great an advance in radio as did the three-element tube back in 1906. Mr. Kauer summarized its principal features as follows:

a—Three times as powerful as the

screen grid tube.

b—Capable of being utilized to its full efficiency.

c—Cancels necessity of multi-tube receivers.

d—Will lower manufacturing costs of sets.

e-Will decrease maintenance costs for set owners.

f—Through savings will greatly enlarge radio merchandise market.

Asserts Public Demand

"The public has been asking for receiving sets," said Mr. Kauer, "which do not employ so many tubes. This new development makes it possible to build sets which will satisfy that demand. Bringing, as it is bound to do, more simplicity into radio manufacture and receiver operation and maintenance, it will reduce manufacturing costs, material costs, and therefore costs to the radio public."

Mr. Kauer did not believe that by the use of few-tube instead of multi-tube sets

(Continued on page 22, column 1)

HE negative side is presented by The Radio Manufacturers' Association in an announcement headed:

Radio Makers Declare Pentode Tubes Not New Nor Give Better Service

To advise the radio public and industry correctly and authoritatively regarding the "new" pentode radio tube, the Radio Manufacturers' Association, comprising all important manufacturers, today issued a statement regarding the pentode. It was declared neither new nor revolutionary. No improvement in performance can be obtained with pentodes that cannot be had with present tubes, the official statement declared, and it is unlikely that pentodes will replace present tubes this year.

The statement was prepared by Mr. Walter E. Holland, a prominent radio engineer of Philadelphia, and director of the Engineering Division of the Radio Manufacturers' Association, after consultation with other leading radio engi-

neers.

"Nothing New"

"There is nothing new or revolutionary about pentodes," said Director Holland. "No improvement in performance can now be obtained with pentodes that cannot be had with present tubes. A given result is impossible with less tubes, using pentodes, but it is unlikely that the cost of a complete radio receiver would be

any less.

"The pentode is used more widely in England because of the greater popularity of battery operated portable sets, and because patent licenses are based on the number of tubes in the receiver. Reduction of number of tubes has, therefore, been more important in England, just as low-powered automobiles are more popular there on account of the license taxes being based upon horsepower of the motor. These factors are not important in this country, so that there is no advantage here at present in either low-powered automobiles, or pentodes."

(Continued on page 22, column 2)

the tube division of the radio industry would suffer.

"It means less tubes per family, but a great many more families will own receivers," he said. "The probabilities are that tube sales would be greater than ever."

Mr. Kauer said that the circuit worked out by the CeCo engineers for the use of the new pentode tube would be made available to manufacturers of rado receiving sets without obligation. He added:

"Our general sales manager, Larry Hardy, and Franklin Snow Huddy, assistant to our chief engineer, Mr. Williams, are soon to start out on a visit to set manufacturers, to show them this new tube, how it works, what its possibilities are. Our engineering staff and our engineering facilities are available for cooperation on set-building problems. This is a service tube-makers owe to set makers and we are eager to render all the aid we can."

The new tube is a sort of double screengrid, having a screen grid around the plate, as is the case with the screen grid of the present; also another screen between the control grid and the cathode. The insertion of this second screen permits a greatly increased amplification; three to four times as great as the screen grid.

Mr. Williams, CeCo's chief engineer, who since his graduation from Pennsylvania State College has spent his entire working life in tube research and manufacture, said the new pentode tube will realize the hopes which were entertained of the so-called screen grid or four-element tube.

"The screen-grid is a very wonderful tube," Mr. Williams said, "but the radio industry has not been able to develop a receiving circuit which permits the use of the tube's full efficiency. Nor is such a circuit likely to be developed. There are too many difficulties in the way.

"The easier method has been to center research on the development of a newer tube which would make possible the building of a circuit capable of getting out of the tube all the power and valuable attributes inherent in it. This is what we have done in the case of the pentode."

Summarizing the development in Europe of the pentode tube and experimental work in this country, Director Holland added:

"The pentode tube has long been known abroad and has found limited commercial use there, especially in England. Many radio receiver and vacuum tube engineers in this country have experimented with this type of vacuum tube, and are thoroughly familiar with its characteristics and possible applications.

"The pentode, as the name implies, has five electrodes, or electrical elements. It has the usual cathode and plate, but between these elements there are three grids or screens as compared with two in the tetrode, commonly known as the screen grid tube.

"The pentodes developed abroad are designed for use in the last audio stage, where we use triode power tubes, such as the 245 and 250 tubes.

Use As RF Amplifier

"There is a possible application of the pentode to radio frequency circuits, but it is unlikely that this type of tube will prove of much practical importance as a radio frequency amplifier. All it could do would be to reduce the number of stages of amplification required for a given sensitivity. The elimination of a stage of radio frequency amplification ordinarily means a reduction in the number of tuned circuits, and such a reduction is impracticable for the reason that a given number of tuned circuits is essential to give the high degree of selectivity needed under the broadcasting conditions existing in this country.

"The pentode power tubes used abroad have greater sensitivity, and, therefore, provide higher amplification per stage than our triode power tubes. This makes it possible to eliminate a stage of audio amplification and work from the detector directly into a single power stage without overloading the detector or the radio frequency amplifier tubes.

Disadvantages Listed

"Another advantage is that it is possible with pentodes to obtain greater undistorted output where the plate voltage is limited, as in battery receivers

and receivers for operation on the 110volt direct current supply used in certain

sections of a few cities.

"Against the above advantages the pentode has a number of disadvantages. It is a most difficult tube to manufacture with uniformity owing to its complexity, and to the fact that it must be exhausted to an extremely high degree of vacuum. Non-uniformity of pentodes will make greater differences in the operation of a radio receiver than with tubes of the present type. It is inherently a high-cost tube.

"In radio receivers for use on the common alternating current supply used for house lighting, the pentode presents a more difficult problem from the standpoint of manufacturing cost than the standard type of power tube. With present power tubes of the 245 type it is almost universal practice to use two tubes connected in push-pull circuit to reduce hum and improve the quality of reproduction.

Pentodes in Push-Pull

"Owing to the high cost of pentodes and the greater complexity of the circuits, it is a question whether it is practical to use pentodes in push-pull. On the other hand, if a single pentode is used to give the same result as two triode power tubes in push-pull, the cost of the filter, required to smooth out the ripple in the rectified alternating current, will come up probably enough to more than offset any possible saving in eliminating the power tube and the usual first stage of audio amplification. In addition larger and more expensive output transformer would have to be used on account of the high direct current flowing in one direction in the primary winding of the transformer."

Batteries to A. C.

(Continued from page 8)

stages, but is not indicated in the drawing. The volume control is a 0 to 25,000 or 50,000-ohm potentiometer, and it is connected to the aerial, ground and primary winding of the tuning coil as indicated.

The diagram and the balance of the text are correct as published.

Jake and Lena

In the skits which Gene and Glenn put on over WTAM, one of the boys plays two parts, that of Jake and also of his wife, Lena. A club of young women recently devoted a lot of thought to this matter before they reached this deduction. But they also insist that the one who takes two parts must have false teeth and must take them out for the Jake role. In the latter, however, they are all wrong, for the young man in question has a perfectly good set of au natural teeth. They are willing to demonstrate this to the young ladies any time they wish to call at WTAM. The pictures of Gene and Glenn appear elsewhere in this issue.

Have You Heard It?

Who is WCHI? The Radio Commission reports no new station in Chicago and as that district is already overcrowded, probably no new station would be licensed there. Ergo, some old station must have changed its call letters unbeknownst to the Commission. Morris Pierce, chief engineer of WJAY, informs us that WCHI is probably a successor to WORD, which formerly used the Webster hotel studios now employed by the new WCHI. WORD was a 5000-watt station with its transmitter at Batavia, Ill., and occupied the 1480 kc. channel now being used by WCHI.

Here's a New One

Have you heard station KUKU? We wonder if it has any connection with the Cuckoo program now listed on the WJZ chain for Wednesdays at 9:30 p.m. On this Cuckoo program one finds such things as the Radio Guilded theatre's presentation of "The Face on the Grandfather's Clock" and Mrs. Pennyfeather's personal service for perturbed people. The station also maintains a Kiddies' Komfort bureau, with true stories about unreal people. According to the station manager, anything is apt to happen and therefore it probably will.

WHAT'S ON THE AIR TONIGHT?

A WEEKLY CALENDAR

Leading Features of the Network Programs

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

Features marked (C) are for the Columbia Broadcasting System; those marked (N) are the National Broadcasting Company. Under each feature are listed the channels (kilocycles) on which that

These programs are subject to change daily

Daily (Except Saturday and Sunday)	810 860 900 920 930 940 950
6:45-8:00 Tower Health Exercises (N)	1160 1260 1280 1290 1320 1340 1390 1430 1490
550 560 590 660 790 950 1220 8:00-8:15 The Aunt Jemima Man (N)	12:00-12:45 Twelve o'Clock Trio (N)
690 750 760 950 980 990 1060 8:00-8:30 Organ Reveille (C)	550 580 660 920 1300 12:00-12:45 The Luncheon Five (N)
570 580 600 780 860 900 930	/50 /60 830 1020 1140 1150 1200
950 1170 1240 1260 1280 1290 1340 1390 1430 1490	12:30-1:30 Young's Restaurant Orchestra (C) 550 560 570 600 620 630 780
8:15-8:30 Morning Devotions (N)	860 900 930 940 950 1160 1170
550 560 590 660 680 790 820	1340 1390 1410 1430 1400
1220 1480	12:45-1:30 National Farm and Home Hour (N)
8:15-8:45 The Headliners (N) 750 760 980 990 1060 1150	760 770 780 800 820 830 870
8:30-8:45 Morning Devotions (C)	900 920 950 980 990 1000 1020
570 600 780 860 930 950 1170	1220 1270 1200 1200 1200 1200 1200
1430 1490	1:30-2:00 Harold Stern's Orchestra (C)
8:30-9:00 Cheerlo (N) 550 560 580 590 610 660 680	930 1170 1240 1280 1290 1320 1340
690 740 790 820 890 900 920	1390 1410 1430 1490
940 950 1070 1080 1110 1140 1190	2:30-3:00 Ann Leaf at the Organ (C) 550 560 570 580 600 630 770
1220 1460 1480 8:45-9:30 Something for Everyone (C)	780 860 900 920 930 950 1090
550 570 600 670 780 860 900	1290 1300 1320 1340 1390 1410 1420
1290 1340 1370 1390 1430 1400	2:30-3:15 Melody Three (N)
9:00-9:15 The Aunt Jemima Man (N)	550 590 660 920 950 1000 2:45-3:45 Band of 1000 Melodies (N)
700 770 870 1220 1350 9:00-10:00 Morning Melodies (N)	750 760 980 1060 1140 1250
590 660 820 920 950 1000 1070 1110 1480	3:00-3:30 Columbia Ensemble (C) 550 560 570 580 600 630 900
9:30-9:45 Morning on Broadway (C)	920 930 950 1090 1120 1160 1230
550 570 600 630 860 930 940	1410 1430 1490
1390 1430 1470 1490	3:30-4:00 For Your Information (C) 550 560 570 580 600 630 860
10:00-10:30 Ida Bailey Allen (C) 550 600 630 770 780 860 050	920 930 950 1160 1170 1230 1240
550 600 630 770 780 860 950 1090 1160 1170 1230 1240 1260 1290	1260 1280 1290 1340 1390 1410 1470 4:00-5:00 U.S. Band Concert (C)
1320 1340 1390 1470 1490 10:00-11:00 The Manhatters (N)	550 560 570 580 600 620 630
750 760 970 990 1060 1140 1150	770 780 810 860 900 920 930
1220 1350 1480 10:45-11:00 Betty Crocker (N)	940 950 1090 1120 1160 1170 1230 1240 1260 1280 1290 1320 1340 1390
550 560 580 610 660 790 890	1410 1430 1490
900 920 940 950 1000 1020 1060	5:45-6:00 My Bookhouse Story Time (C) 550 600 630 670 810 860 900
1070 1140 1190 1220 1330 10:45-11:00 Food Talk (N)	950 1090 1160 1170 1240 1260 1290
620 650 680 690 740 750 760	1320 1340 1360 1490 6:00-6:30 Black and Gold Room Orchestra (N)
780 900 970 980 990 1080 1110 1140 1150 1220 1290 1300 1320 1350	550 660 920 950 1220
1460 1480	6:30-7:00 American Home Banquet (N) 550 560 580 590 660 790 890
11:00-11:30 Forecast School of Cookery (N) 700 720 750 760 980 990 1150	920 940 950 1070 1330 7:00-7:15 Amos 'n' Andy (N)
1220 1350	680 690 750 760 900 950 980
11:15-11:30 Radio Household Institute (N) 550 560 580 590 610 620 650	990 1080 1110 1150 1300 1480
660 740 780 790 820 890 900	7:00-7:30 Bernhard Levitow's Ensemble (C) 560 570 580 600 630 810 900
920 940 950 1000 1020 1040 1070 1140 1190 1220 1290 1320 1330 1460	920 930 1120 1230 1260 1280 1290
11:30-11:45 Lamb Menus (N)	1340 1370 1390 1410 1430 1490 11:00-12:00 Slumber Music (N)
700 750 760 770 980 990 1020 1220 1350	560 750 760 770 000 1000 1000
12:00-12:30 Columbia Revue (C)	11:30-12:00 Amos 'n' Andy (N) 590 610 620 650 670 740 780
550 560 570 600 610 630 780	790 800 820 830 900 920 1020

1130 1190 1220 1270 1290 1320 1350	5:00-6:00 Davey Tree Hour (N)
1430 1460	550 560 580 590 610 660 790
Sunday	870 890 940 950 970 1000 1070 1220 1330 1450
8:00-9:00 Heroes of the Church (C)	1220 1330 1450 5:30-6:00 Rev. Donald G. Barnhouse (C)
570 780 860 930 950 1090 1230	550 600 630 670 780 860 950
1280 1410 1430 1490	960 1160 1170 1230 1260 1290 1320
9:00-10:00 Morning Musicale (C) 570 580 600 780 860 930 1090	1430 1470 1490 6:00-6:15 Echoes of the Orient (N)
1170 1230 1240 1280 1290 1300 1410	550 590 660 790 920 950 1000
1440 1490	6:15-6:30 Countess Olga Medolago Albani (N)
10:00-10:50 Land O' Make Believe (C) 570 580 600 780 860 930 950	550 590 660 790 920 950 1000 6:30-7:00 Acousticon Program (C)
1230 1280 1290 1300 1490	550 630 670 780 860 950 1090
10:50-11:00 Columbia's Commentator (C)	1160 1170 1230 1240 1260 1290 1320
570 580 600 780 860 930 950	1340 1390 1470 1490
1230 1240 1280 1290 1490 12:30-12:55 The Nomads (N)	6:30-7:00 Old Company's Songalogue (N) 550 560 580 590 660 790 890
760 820 830 950 1060 1350	940 950
1:00-2:00 National Light Opera (N)	7:00-7:30 Our Romantic Ancestors (C)
690 700 750 760 820 950 1060 1130 1290 1350 1460	
1:30 1290 1350 1460 1:30-1:45 Spanish Dreams (N)	1390 1410 1430 1490
550 590 610 660 920 1220	7:00-7:30 Durant Heroes of the World (N)
1:30-2:00 The Aztecs (C)	550 560 580 590 610 620 650
550 560 570 580 600 630 810 920 930 940 950 1160 1170 1240	660 680 690 740 780 790 800 820 830 870 890 900 920 940
1280 1320 1340 1390 1410 1470 1490	950 1000 1080 1110 1140 1190 1220
1:45-2:00 Godfrey Ludlow, violinist (N)	1290 1300 1320 1330 1450 1460
550 590 660 920 1220 2:00-2:25 Troika Bells (N)	7:30-7:45 French Trio (C) 560 570 600 630 860 920 930
550 660 680 870 900 920 1000	560 570 600 630 860 920 930 940 1090 1120 1260 1280 1290 1340
2:00-2:30 Ballad Hour (C)	1390 1410 1430 1490
550 560 570 580 600 620 630	7:30-8:00 Williams Oilomatics (N)
670 810 920 930 940 950 1120 1230 1240 1280 1290 1340 1390 1410	700 720 750 760 830 990 1060 1130 1150 1220 1350
1430 1470 1490	1130 1150 1220 1350 7:30-8:30 Maj. Bowes' Family (N)
2:00-3:00 Roxy Symphony Concert (N)	550 500 660 740 790 700 930
620 680 690 700 760 770 800 820 950 980 990 1020 1060 1140	890 900 920 950 1000 1040 1070
1290 1460	1130 1220 1270 1300 1320 1330 1450
2:30-3:00 Concert Bureau Program (N)	7:45-8:00 World's Business (C) 550 560 570 580 600 630 670
550 580 590 620 660 680 790	550 560 570 580 600 630 670 780 810 860 920 930 940 950
870 900 920 940 1000 1130 1290 3:00-4:00 The Jewish Hour (N)	1090 1120 1230 1260 1280 1290 1340
550 660 890 920 940 950 970	1390 1410 1430 1490
1220 1330	8:00-8:15 Enna Jettick Melodies (N) 590 620 640 650 680 690 700
3:00-4:00 National Youth Conference (N)	740 750 760 780 800 820 830
590 620 680 700 740 760 770 780 790 800 900 920 980 1060	900 920 980 990 1020 1040 1130
1080 1110 1130 1140 1190 1220 1350	1150 1190 1220 1270 1290 1300 1320 1350
3:00-4:00 Chicago Symphony Orchestra (N)	8:00-8:30 La Palina Rhapsodizers (C)
550 590 610 620 720 750 1000	550 600 630 640 780 860 900
1290 1460 3:00-4:00 Symphonic Hour (C)	950 1090 1120 1130 1170 1230 1240 1260 1290 1320 1340 1390 1490
550 560 570 580 600 620 630	1260 1290 1320 1340 1390 1490 8:15-9:15 Collier's Radio Hour (N)
670 810 860 920 930 940 950	590 620 640 680 700 750 760
1090 1120 1160 1170 1240 1260 1280	830 920 980 990 1020 1130 1150
1290 1300 1320 1330 1340 1390 1410 1430 1470 1490	1220 1350 1480
4:00-5:00 Cathedral Hour (C)	8:30-9:00 Sonatron Program (C) 550 560 570 600 610 630 770
550 560 570 580 600 620 630	780 860 900 940 950 1090 1170
780 810 860 920 930 940 950 1090 1120 1160 1170 1230 1240 1260	1230 1240 1260 1290 1320 1340 1390
1280 1290 1300 1320 1340 1390 1410	8:30-9:00 Chase & Sanborn Orchestra (N) 550 560 580 590 610 620 660
1430 1470 1490	550 560 580 590 610 620 660 690 740 780 790 820 870 890
4:00-5:00 Dr. S. Parkes Cadman (N)	900 920 940 950 1000 1040 1060
550 580 590 610 620 650 660 680 740 780 790 800 820 830	1070 1080 1140 1190 1220 1270 1290
8 90 900 920 940 970 1000 1080	1300 1320 1330 1450 9:00-9:15 Our Government (N)
1110 1140 1190 1220 1270 1290 1330	550 560 580 590 650 660 740
4:30-5:00 Duo Disc Duo (N)	780 790 800 820 890 900 920
760 770 980 990 1020 1060 1220 5:00-5:30 McKesson News Reel (C)	940 950 1000 1060 1080 1110 1190
550 560 570 600 610 630 670	1220 1270 1290 1320 1330 1450 9:00-10:00 Majestic Theatre of the Air (C)
780 810 860 900 920 930 940	550 560 570 580 600 610 630
950 1040 1090 1120 1160 1170 1230	730 770 780 810 860 900 930
1240 1250 1260 1280 1290 1320 1340 1390 1440 1470 1490	940 950 960 1040 1090 1120 1160
	1170 1020 1040 1050
5:00-6:00 National Religious Service (N)	1170 1230 1240 1250 1260 1280 1290
5:00-6:00 National Religious Service (N) 700 760 770 830 900 990 1060 1140 1150 1290 1320 1350	1170 1230 1240 1250 1260 1280 1290

9:15-10:15 Atwater Kent Hour (N)	
	6:00-6:30 Ben Pollack's Orchestra (C)
550 560 590 610 620 640 650	560 570 600 770 860 900 920
660 680 720 740 780 790 800	930 940 950 1160 1230 1260 1280
820 830 900 920 950 1000 1070	1290 1300 1320 1390 1410 1430 1490
1080 1130 1190 1220 1320 1330 1460	6:30-7:00 Current Events (C)
10:00-10:30 Royal's Poet of the Organ (C)	560 570 600 610 630 860 900
550 560 570 600 610 630 770	920 930 940 950 1120 1230 1260
780 860 900 940 950 1090 1160	1280 1300 1340 1390 1410 1430 1490
1170 1230 1240 1260 1290 1320 1340	7:15-7:30 The World Today (N)
1390 1470 1490	
10:15-10:45 Studebaker Champions (N)	0.50
550 560 580 590 610 620 640	
660 720 790 830 890 920 940	1330 1450
	7:30-8:00 Voices from Filmland (C)
	550 560 580 600 610 640 670
10:30-11:00 Arabesque (C)	810 860 900 920 930 940 950
550 560 570 580 600 630 670	1040 1090 1120 1200 1230 1240 1280
780 860 930 940 950 1090 1120	1290 1320 1340 1390 1410 1430 1470
1160 1230 1240 1260 1280 1290 1320	7:30-8:30 Roxy and His Gang (N)
1340 1390 1430 1470 1490	560 650 680 690 740 760 990
10:45-11:15 Sunday at Seth Parker's (N)	
550 590 600 780 790 820 830	
900 920 940 950 1000 1220 1300	7:45-8:00 Back of News in Washington (N)
11:00-12:00 Back Home Hour (C)	550 590 610 620 660 790 890
	900 940 950 1000 1140 1220 1290
560 600 630 810 860 930 940	8:00-8:30 Henry-George (C)
1090 1120 1170 1230 1240 1260 1280	550 600 630 670 780 810 860
1300 1320 1340 1390 1430 1470	900 950 1090 1120 1170 1230 1240
11:15-11:45 Russian Cathedral Choir (N)	1260 1290 1320 1340 1370 1390 1490
550 590 660 780 790 800 900	8:00-8:30 Voice of Firestone (N)
920 950 1000	
11:45-12:00 Sam Herman, xylophonist (N)	000 000 000
550 590 660 780 800 920 950	660 680 690 740 780 790 800
	820 890 900 920 940 950 1000
1000 1140	1020 1040 1060 1070 1080 1110 1140
	1190 1220 1270 1290 1300 1320 1330
Monday	1450 1460
Williay	8:30-9:00 Ceco Couriers (C)
	550 600 630 670 780 810 860
9:30-10:00 Blue Monday Gloom Chasers (C)	900 950 1090 1170 1230 1240 1260
550 570 600 630 860 900 930	1290 1320 1340 1390 1490
940 1090 1240 1260 1280 1290 1370	8:30-9:00 Ipana Troubadors (N)
1390 1430 1490	
10:30-10:45 Harmonies and Contrasts (C)	
600 630 770 780 860 940 950	780 820 900 920 980 990 1020
1090 1160 1230 1260 1280 1320 1340	1040 1080 1110 1150 1190 1220 1290
1390 1430 1470 1490	
	1300 1320 1350
	8:30-9:30 A. & P. Gypsies (N)
10:45-11:00 High Gear (C)	
10:45-11:00 High Gear (C) 630 780 860 900 940 950 1160	8:30-9:30 A. & P. Gypsies (N) 550 560 580 590 610 660 720
10:45-11:00 High Gear (C)	8:30-9:30 A. & P. Gypsies (N) 550 560 580 590 610 660 720 790 890 920 940 950 1000 1060
10:45-11:00 High Gear (C) 630 780 860 900 940 950 1160 1170 1230 1260 1280 1290 1300 1320	8:30-9:30 A. & P. Gypsies (N) 550 560 580 590 610 660 720 790 890 920 940 950 1000 1060 1070 1220 1330
10:45-11:00 High Gear (C) 630 780 860 900 940 950 1160 1170 1230 1260 1280 1290 1300 1320 1340 1390 1430 1490	8:30-9:30 A. & P. Gypsies (N) 550 560 580 590 610 660 720 790 890 920 940 950 1000 1060 1070 1220 1330 9:00-9:30 Physical Culture Magazine Hour (C)
10:45-11:00 High Gear (C) 630 780 860 900 940 950 1160 1170 1230 1260 1280 1290 1300 1320 1340 1390 1430 1490 11:00-11:15 Mirrors of Beauty (C)	8:30-9:30 A. & P. Gypsies (N) 550 560 580 590 610 660 720 790 890 920 940 950 1000 1060 1070 1220 1330 9:00-9:30 Physical Culture Magazine Hour (C) 550 600 630 670 780 860 900
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800 830 900 920 980 990 1020	7:00-7:30 Voters' Service (N)
1130 1150 1190 1220 1290 1350 1460	550 580 590 610 620 660 680
10:30-11:00 Strings and Bows (N)	780 790 800 820 830 890 900
580 660 790 890 920 940 950	920 940 1000 1040 1080 1190 1220
1220 1320 1450	1290 1320 1330
10:30-11:30 Voice of Columbia (C) 550 560 570 580 600 630 670	7:00-8:00 Carborundum Hour (C) 670 860 1170 1340 1470
780 810 860 900 930 940 950	7:30-7:45 Lew White Organ Recital (N)
1090 1120 1160 1170 1230 1240 1260	680 690 950 1060 1220 1350
1280 1290 1300 1320 1340 1390 1410	7:30-8:00 Soconyland Sketches (N)
11:00-12:00 Bernie Cummins Orchestra (N)	550 580 590 660 790 890 940
550 590 660 780 790 870 920	8:00-8:30 Blackstone Program (C)
11:30-12:00 Jan Garber's Orchestra (C)	600 630 780 860 950 1170 1230 1250 1260 1290 1340 1430 1440 1470
560 570 580 600 630 810 860 930 940 950 1120 1240 1260 1280	1250 1260 1290 1340 1430 1440 1470 8:00-8:30 Pure Oil Concert (N)
1290 1300 1340 1390 1470 1490	620 650 740 750 760 770 780
12:00-1:00 Ted Fiorito's Orchestra (N)	820 900 980 1020 1060 1080 1110
550 590 650 660 780 900 950	1150 1220 1270 1290 1300 1350 1460
1000 1020 1070 1140	8:00-8:30 Songs of the Season (N)
*	550 560 580 660 690 920 950
Tuesday	1220 1330
Tuesday	8:30-9:00 Around the World with Libby (N)
10:15-10:30 Through the Looking Glass (N)	590 620 650 700 740 750 760 780 790 820 830 920 980 990
700 750 760 770 980 990 1020	1020 1060 1130 1150 1220 1320 1350
1150 1220 1350	8:30-9:00 True Romances (C)
10:30-10:45 A Stroll on the Avenue (C)	550 600 630 780 860 950 1090
570 600 630 770 780 860 940	1160 1170 1230 1240 1260 1290 1320
950 1160 1170 1230 1260 1280 1290	1340 1390 1470 1490
1300 1320 1340 1390 1430 1470 1490	8:30-9:00 Florsheim Frolics (N)
10:45-11:00 Jean Carroll (C) 550 600 630 770 780 860 950	550 560 580 590 610 660 720
1160 1170 1230 1240 1260 1290 1320	790 890 900 920 940 950 1000 1080 1110 1190 1220 1290 1300 1330
1340 1390 1470 1490	9:00-9:30 Johnson & Johnson Melodrama (N)
11:00-11:15 The Pot of Gold (C)	690 700 760 980 990 1020 1060
560 600 610 620 630 780 860	1150 1220 1350
900 930 940 950 1170 1230 1260	9:00-9:30 Eveready Program (N)
1280 1340 1390 1430 1470	550 560 590 610 620 640 650
11:00-11:15 Blue Streaks (N) 550 650 660 790 920 950 1070	660 720 740 780 790 820 830
11:15-11:30 Sen. Arthur Capper (C)	890 920 940 950 1000 1070 1130
560 570 600 610 620 630 770	1250 1270 1320 1330 1450
780 860 900 930 940 950 1160	9:00-10:00 Old Gold-Paul Whiteman Hour (C)
1170 1230 1240 1260 1280 1290 1340	550 560 570 580 600 610 630 770 780 810 860 900 930 940
1390 1430 1470 1490	770 780 810 860 900 930 940 950 1040 1090 1120 1160 1170 1230
11:30-12:00 The Party House (C) 560 570 600 620 780 860 900	1240 1250 1260 1280 1290 1320 1330
	1340 1390 1410 1430 1440 1470 1490
920 930 940 950 1160 1170 1230 1240 1260 1280 1290 1340 1390 1430	9:30-10:00 Neapolitan Nights (N)
1470 1490	760 980 1060 1150 1220 1480
2:00-2:30 Romany Patteran (C)	9:30-10:00 Happy Wonder Bakers (N)
560 570 600 630 780 860 930	550 560 580 590 610 620 660
1120 1170 1230 1240 1260 1280 1290	740 780 790 820 830 890 900
1300 1320 1340 1390 1410 1430 1470	920 940 950 1000 1070 1110 1130
3:15-4:00 Matinee Gems (N) 680 750 760 800 820 830 900	1140 1190 1220 1270 1290 1320 1330 1430 1450 1460
680 750 760 800 820 830 900 980 1020 1110 1140 1300 1350	1430 1450 1460 10:00-10:30 Westinghouse Salute (N)
4:00-5:00 Classic Gems (N)	590 620 640 650 740 750 760
750 760 1020 1140 1150 1350	780 790 820 830 900 920 980
4:30-5:00 Auction Bridge Game (N)	990 1020 1060 1080 1110 1130 1140
550 560 580 590 610 650 660	1150 1190 1220 1290 1300 1320 1350
720 740 780 790 800 820 890	40 00 40 00 TT 1 - T 141 4 (3T)
	10:00-10:30 Harbor Lights (N)
900 920 940 950 1000 1040 1060	550 560 580 590 610 660 790
900 920 940 950 1000 1040 1060 1070 1080 1110 1140 1190 1220 1330	550 560 580 590 610 660 790 890 920 940 950 1220
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900 920 940 950 1000 1040 1060 1070 1080 1110 1140 1190 1220 1330 5:00-5:15 Dancing Melodies (N) 550 790 920 940 950 1110 5:00-5:30 Rhythm Kings (C) 550 560 570 600 610 630 670 810 860 930 940 950 1090 1120	550 560 580 590 610 660 790 890 920 940 950 1220 10:00-10:30 Graybar's, Mr. and Mrs. (C) 550 560 570 580 600 610 630 770 780 810 860 900 930 940 950 1040 1090 1120 1160 1170 1230
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	1260	890 920 940 950 1000 1060 1220
1280 1290 1300 1340 1390 1410	1430	1330 1450
11:30-12:00 Phil Spitalny's Music (N) 550 560 590 660 780 920		8:00-8:30 The Yeast Foamers (N)
550 560 590 660 780 920 11:30-12:00 Publix Radio-Vue (C)	1140	620 700 760 770 980 990 1020
550 560 570 580 600 630	780	1150 1220 1290 1350 1460
0.0	1170	8:00-8:30 East of Cairo (N) 550 580 590 660 780 800 000
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**7 1 1		
Wednesday		670 780 810 860 900 930 940
9:30-10:00 U.S. Navy Band (C)		950 1040 1090 1120 1170 1230 1250
550 570 600 630 860 900	930	1260 1280 1290 1300 1320 1330 1340
940 1240 1260 1280 1290 1370	1390	1390 1470 1490
1430 1490		8:30-9:00 Sylvania Foresters (N)
10:00-11:00 National Home Hour (N)		760 770 980 990 1020 1150 1220
550 560 580 590 660 790	890	8:30-9:00 Mobiloil Concert (N)
920 940 950 970 1000 1020	1070	550 560 580 590 610 660 800 830 890 900 920 940 950 1000
1220 1330 11:15-11:30 R.S.V.P. (G)		1070 1120 1140 1120 1770 950 1000
550 550 500	000	8:30-9:00 Forty Fathom Trawlers (C)
000 000 040 050	860	550 600 630 670 780 860 1090
1040 1050 1000 1000	1230 1430 ·	1170 1230 1240 1260 1290 1320 1340
11:30-11:45 Mr. Fixit (C)	1430	1370 1390 1430 1440 1470 1400
560 570 600 620 630 780	860	9:00-9:30 Halsey-Stuart Program (N)
900 920 930 940 950 1160	1230	550 560 580 590 620 640 650
1260 1280 1300 1340 1390 1430	1490	660 690 740 780 790 820 830
2:00-2:30 Grace Hyde (C)		890 900 920 940 950 1000 1080 1110 1130 1140 1190 1220 1320 1330
560 570 600 610 630 770	780	9:00-9:30 U.S. Marine Band Concert (C)
	1260	
1280 1290 1300 1320 1340 1390 1 1430 1490	1410	960 000 000 000 000 780
2:30-3:00 Syncopated Silhouettes (C)		1160 1230 1240 1260 1280 1290 1320
550 560 570 580 600 610	630	1340 1390 1410 1490
770 780 860 900 920 930	950	9:30-10:00 Cuckoo (N)
*****	1290	560 760 980 990 1150 1220 1350
	1490	9:30-10:00 La Palina Smoker (C)
3:30-4:00 Evening Stars (N)		550 600 630 670 780 810 860 900 950 1090 1120 1160 1170 1230
550 560 580 590 650 660	680	1040 1050 1000 1170 1230
	1000	1240 1260 1290 1320 1340 1390 1490 9:30-10:30 Palmolive Hour (N)
1080 1110 1220 1290 1300 1330 1	460	
4:00-4:30 Musical Album (C) 560 570 580 600 610 620	C20	550 560 580 590 610 620 640 650 660 720 740 780 790 800
560 570 580 600 610 620 770 780 810 860 900 920	630	820 830 890 900 920 940 950
0.00	930 1260	1000 1060 1070 1080 1130 1140 1190
	430	1220 1320 1330 1460
4:00-5:00 The Radio Guide (N)	130	10:00-10:30 Philco Hour (C)
620 680 690 760 780 790	830	550 560 570 580 600 610 630
900 920 1040 1060 1130 1140 1	300	670 730 770 780 810 860 900
4:30-5:15 Club Plaza Orchestra (C)		930 940 950 960 1040 1090 1120 1160 1170 1230 1240 1250 1260 1280
550 560 570 580 600 610	630	1000 1000 1200 1200 1200
670 780 810 860 900 920	930	1290 1320 1340 1390 1440 1470 1490 10:30-11:00 Floyd Gibbons (N)
	260	
1280 1290 1320 1340 1390 1410 1 5:00-5:15 National Women's Party (N)	430	790 830 890 900 920 950 1000
590 620 700 740 760 780	790	1040 1060 1110 1130 1220 1270 1320
	060	1460
4.00	350	10:30-11:00 Grand Opera Concert (C)
5:00-5:30 Sky Sketches (N)		550 560 570 580 600 630 670
550 790 920 940 950		780 810 860 900 930 940 950
5:15-5:45 Twilight Troubadours (C)		1090 1120 1160 1230 1240 1260 1280
550 560 570 600 610 630		1290 1320 1340 1390 1410 1490
810 930 940 950 1120 1240 1	280	10:30-11:30 St. Regis Hotel Orchestra (N)
1340 1390 1410 1430 1490		760 980 1150 1220 1350
6:15-6:30 Bill Schudt's Going to Press (C) 560 570 600 860 920 940	050	11:00-12:00 Casino Orchestra
	950 390	550 590 610 660 920
1410 1490	390	11:00-12:00 Hank Simmons Show Boat (C)
6:30-7:00 Hotel Paramount Orchestra (C)		550 560 570 580 600 610 630 780 810 860 900 930 940 950
	920	1100 1160 1020 1040 1060
930 940 950 1120 1230 1260 1	280	1200 1200
1290 1300 1340 1390 1410 1430 1	490	
7:00-7:30 Jeddo Highlanders (N)		Thursday
550 660 790 890 1060		
7:15-7:30 Rise of the Goldbergs (N)		9:00-10:00 U.S. Marine Band (N)
690 760 950 1320 1350		760 950 990 1220 1350
7:30-7:45 Hindermyer & Tuckerman (N) 550 660 890 920 950		10:00-10:30 Ceresota Program (N)
550 660 890 920 950 7:30-8:00 The Choristers (N)		760 950 970 990 1460
	220	10:30-10:45 Busy Fingers (C) 560 570 600 630 770 780 860
1320 1350 1460 1480		040 050 1100 1150 100
7:45-8:00 The Eternal Question (N)		1000 1000 1000 1000
	790	1280 1290 1300 1320 1340 1390 1430 1470 1490

10:45-11:00 Helen Chase (C)	8:30-9:00 Champion Sparkers (N)
550 600 630 770 780 860 950	700 750 760 770 870 980 990
1090 1160 1170 1230 1240 1260 1290 1320 1340 1470 1490	1060 1150 1220 1350 8-20 0-00 Manhattan Maada (C)
11:00-11:15 Your Child, Grace Abbott (N)	8:30-9:00 Manhattan Moods (C) 550 560 570 580 600 610 620
550 580 650 660 790 890 900	630 780 860 900 920 930 940
920 950 1000 1080 1140 1220 1460	950 1090 1120 1230 1240 1260 1280
11:00-11:30 Sewing Circle (C)	1290 1300 1340 1390 1410 1430 1470
560 570 600 620 630 780 810	9:00-9:30 True Detective Mysteries (C)
860 900 930 940 950 1120 1160 1230 1260 1280 1340 1390 1430 1470	550 600 630 770 780 810 860 950 1090 1120 1160 1170 1230 1240
11:30-11:45 Du Barry Beauty Talk (C)	950 1090 1120 1160 1170 1230 1240 1260 1290 1320 1340 1390 1440 1470
550 600 630 640 770 780 860	9:00-9:30 Smith Brothers (N)
950 1120 1160 1170 1230 1240 1260	560 750 760 980 990 1060 1150
1290 1320 1340 1390 1470 1490	1220 1350 1480
2:00-2:30 Thirty-Minute Men (C) 560 570 600 610 630 770 780	9:00-9:30 Seiberling Singers (N)
560 570 600 610 630 770 780 860 930 1120 1160 1230 1240 1260	550 560 580 590 610 620 640 650 660 740 780 790 800 820
1280 1290 1300 1320 1340 1390 1410	830 890 900 920 940 950 1000
1430 1470 1490	1020 1070 1080 1110 1140 1190 1220
2:30-3:00 American School of the Air (C)	1300 1320 1330 1460
550 560 570 580 600 610 620	9:30-10:00 Maxwell House Melodies (N)
630 670 770 780 860 900 920 930 940 950 1090 1120 1160 1170	590 620 650 700 740 750 760 780 790 800 820 830 900 920
1230 1240 1260 1280 1290 1300 1320	980 990 1020 1060 1080 1110 1130
1340 1390 1410 1430 1470 1490	1150 1190 1220 1290 1300 1320 1350
3:15-3:30 The Magic of Speech (N)	1430 1460
550 590 660 830 950 1290	9:30-10:00 DeVoe Redskins Orchestra (C)
3:30-4:00 La Forge-Berumen Musicale (N) 550 660 830 920 950 1020 1060	550 600 630 770 780 860 950 1090 1160 1170 1230 1240 1260 1290
4:00-5:00 U.S. Army Band (N)	1090 1160 1170 1230 1240 1260 1290 1320 1340 1390 1470 1490
700 750 760 790 830 950 970	9:30-10:00 Jack Frost's Melody Moments (N)
900 1220	550 560 580 660 790 870 890
4:00-5:00 Twilight Hour (N)	920 940 950 1220 1330
590 660 920 940 1020 4:30-5:00 Curtain Calls (C)	10:00-10:30 In a Russian Village (C)
550 560 570 580 600 610 630	550 560 570 580 600 610 630 770 780 810 860 900 920 930
810 860 920 930 940 950 1090	940 950 960 1090 1120 1160 1170
1170 1230 1240 1260 1280 1290 1320	1230 1240 1250 1260 1280 1290 1300
1 40 1390 1410 1430 1470 1490	1320 1340 1390 1440 1470 1490
5:0)-5:15 Ebony Twins (C) 550 560 570 600 610 630 670	10:00-11:00 Atwater Kent Program (N)
810 860 930 940 950 1090 1120	720 750 760 980 990 1060 1150 1220 1350 1480
1240 1280 1340 1390 1410 1430 1470	
1210 1200 1510 1550 1110 1450 1470	10:00-11:00 RCA Victor Hour (N)
5:00-5:30 R-K-O Program	10:00-11:00 RCA Victor Hour (N) 550 560 580 590 610 620 640
5:00-5:30 R-K-O Program 550 560 580 590 610 660 790	10:00-11:00 RCA Victor Hour (N) 550 560 580 590 610 620 640 650 660 740 780 790 800 820
5:00-5:30 R-K-O Program 550 560 580 590 610 660 790 890 920 940 950 1000 1020 1060	550 560 580 590 610 620 640 650 660 740 780 790 800 820 830 890 900 920 940 950 1000
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5:00-5:30 R-K-O Program 550 560 580 590 610 660 790 890 920 940 950 1000 1020 1060	550 560 580 590 610 620 640 650 660 740 780 790 800 820 830 890 900 920 940 950 1000 1020 1040 1070 1080 1110 1130 1140 1190 1220 1270 1290 1300 1320 1330
5:00-5:30 R-K-O Program 550 560 580 590 610 660 790 890 920 940 950 1000 1020 1060 1070 1220 1330 1450 5:30-6:00 Gov. Clinton Hotel Orchestra (C) 550 560 570 600 610 630 670 810 930 940 950 1160 1280 1340	550 560 580 590 610 620 640 650 660 740 780 790 800 820 830 890 900 920 940 950 1000 1020 1040 1070 1080 1110 1130 1140 1190 1220 1270 1290 1300 1320 1330 1450 1460
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5:00-5:30 R-K-O Program 550 560 580 590 610 660 790 890 920 940 950 1000 1020 1060 1070 1220 1330 1450 5:30-6:00 Gov. Clinton Hotel Orchestra (C) 550 560 570 600 610 630 670 810 930 940 950 1160 1280 1340 1390 1410 1430 1470 1490 6:00-6:30 Hotel Shelton Orchestra (C)	550 560 580 590 610 620 640 650 660 740 780 790 800 820 830 890 900 920 940 950 1000 1020 1040 1070 1080 1110 1130 1140 1190 1220 1270 1290 1300 1320 1330 1450 1460
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5:00-5:30 R-K-O Program 550 560 580 590 610 660 790 890 920 940 950 1000 1020 1060 1070 1220 1330 1450 5:30-6:00 Gov. Clinton Hotel Orchestra (C) 550 560 570 600 610 630 670 810 930 940 950 1160 1280 1340 1390 1410 1430 1470 1490 6:00-6:30 Hotel Shelton Orchestra (C) 560 570 600 770 860 920 930 940 950 1160 1230 1260 1280 1290 1300 1320 1340 1390 1410 1430 1470 6:30-7:00 Civic Repertory Theatre (C) 560 570 600 610 860 900 920	550 560 580 590 610 620 640 650 660 740 780 790 800 820 830 890 900 920 940 950 1000 1020 1040 1070 1080 1110 1130 1140 1190 1220 1270 1290 1300 1320 1330 1450 1460 Forum (C) 550 560 570 580 600 610 630 770 780 860 930 940 950 1090 1120 1230 1240 1260 1280 1290 1300 1320 1320 1320 1340 1320 1340 1340 1470 1490 11:00-11:30 Conoco Adventurers (N) 590 610 700 780 800 820 830
5:00-5:30 R-K-O Program 550 560 580 590 610 660 790 890 920 940 950 1000 1020 1060 1070 1220 1330 1450 5:30-6:00 Gov. Clinton Hotel Orchestra (C) 550 560 570 600 610 630 670 810 930 940 950 1160 1280 1340 1390 1410 1430 1470 1490 6:00-6:30 Hotel Shelton Orchestra (C) 560 570 600 770 860 920 930 940 950 1160 1230 1260 1280 1290 1300 1320 1340 1390 1410 1430 1470 6:30-7:00 Civic Repertory Theatre (C) 560 570 600 610 860 900 920 930 950 1120 1230 1260 1280 1290	550 560 580 590 610 620 640 650 660 740 780 790 800 820 830 890 900 920 940 950 1000 1020 1040 1070 1080 1110 1130 1140 1190 1220 1270 1290 1300 1320 1330 1450 1460 10:30-11:00 National Radio Forum (C) 550 560 570 580 600 610 630 770 780 860 930 940 950 1090 1120 1230 1240 1260 1280 1290 1300 1320 1340 1390 1410 1430 1470 1490 11:00-11:30 Conoco Adventurers (N) 590 610 700 780 800 820 830 870 900 920 1000 1040 1130 1140
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5:00-5:30 R-K-O Program 550 560 580 590 610 660 790 890 920 940 950 1000 1020 1060 1070 1220 1330 1450 5:30-6:00 Gov. Clinton Hotel Orchestra (C) 550 560 570 600 610 630 670 810 930 940 950 1160 1280 1340 1390 1410 1430 1470 1490 6:00-6:30 Hotel Shelton Orchestra (C) 560 570 600 770 860 920 930 940 950 1160 1230 1260 1280 1290 1300 1320 1340 1390 1410 1430 1470 6:30-7:00 Civic Repertory Theatre (C) 560 570 600 610 860 900 920 930 950 1120 1230 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 7:00-7:30 Mid-Week Hymn Sing (N) 560 660 780 820 830 890 940 7:30-8:00 Ward's Tip Top Club (C) 570 600 670 780 860 1090 1170 1230 1290 1340 1390 1490 7:30-8:00 Half Hour in Capitol (N) 580 660 780 890 900 950 1190 1290 1320 7:30-8:00 Frontier Days (N) 690 70 1220 1350 8:00-8:15 The Vagabonds (C) 560 570 580 600 620 630 780 900 920 930 940 950 1120 1160 1230 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 8:00-8:30 Golden Gems (N) 760 1150 1220 1350 8:00-9:00 Rudy Vallee's Orchestra (N)	550 560 580 590 610 620 640 650 660 660 740 780 790 800 820 830 890 900 920 940 950 1000 1020 1040 1070 1080 1110 1130 1140 1190 1220 1270 1290 1300 1320 1330 1450 1460 10:30-11:00 National Radio Forum (C) 550 560 570 580 600 610 630 770 780 860 930 940 950 1090 1120 1230 1240 1260 1280 1290 1300 1320 1340 1390 1410 1430 1470 1490 11:00-11:30 Conoco Adventurers (N) 590 610 700 780 800 820 830 870 900 920 1000 1040 1130 1140 1190 1220 1350 11:00-11:30 Dream Boat (C) 550 560 570 580 600 630 780 860 930 940 950 1090 11:00-11:30 Dream Boat (C) 550 560 570 580 600 630 780 860 930 940 950 1120 1160 1230 1240 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 11:00-12:00 National Grand Opera (N) 550 560 570 580 600 690 920 950 1070 1080 1110 11:30-12:00 Bert Lown's Biltmore Orch. (C) 560 570 580 600 630 780 810 860 930 940 950 1120 1230 1240 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 11:30-12:00 Bert Lown's Biltmore Orch. (C) 560 570 580 600 630 780 810 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 11:30-12:00 Bert Lown's Biltmore Orch. (C) 560 570 580 600 630 780 810 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 Friday
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5:00-5:30 R-K-O Program 550 560 580 590 610 660 790 890 920 940 950 1000 1020 1060 1070 1220 1330 1450 5:30-6:00 Gov. Clinton Hotel Orchestra (C) 550 560 570 600 610 630 670 810 930 940 950 1160 1280 1340 1390 1410 1430 1470 1490 6:00-6:30 Hotel Shelton Orchestra (C) 560 570 600 770 860 920 930 940 950 1160 1230 1260 1280 1290 1300 1320 1340 1390 1410 1430 1470 6:30-7:00 Civic Repertory Theatre (C) 560 570 600 610 860 900 920 930 950 1120 1230 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 7:00-7:30 Mid-Week Hymn Sing (N) 560 660 780 820 830 890 940 7:30-8:00 Ward's Tip Top Club (C) 570 600 670 780 860 1090 1170 1230 1290 1340 1390 1490 7:30-8:00 Half Hour in Capitol (N) 580 660 780 890 900 950 1190 1290 1320 7:30-8:00 Frontier Days (N) 690 760 770 1220 1350 8:00-8:15 The Vagabonds (C) 560 570 580 600 620 630 780 900 920 930 940 950 1120 1160 1230 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 8:00-8:30 Golden Gems (N) 760 1150 1220 1350 8:00-9:00 Rudy Vallee's Orchestra (N) 550 560 580 590 620 650 660 680 690 740 780 790 800 820 830 890 900 920 940 950 1000 1040 1070 1080 1110 1130 1140 1190	550 560 580 590 610 620 640 650 660 660 740 780 790 800 820 830 890 900 920 940 950 1000 1020 1040 1070 1080 1110 1130 1140 1190 1220 1270 1290 1300 1320 1330 1450 1460 10:30-11:00 National Radio Forum (C) 550 560 570 580 600 610 630 770 780 860 930 940 950 1090 1320 1340 1390 1410 1430 1470 1490 11:00-11:30 Conoco Adventurers (N) 590 610 700 780 800 820 830 870 900 920 1000 1040 1130 1140 1190 1220 1350 11:00-11:30 Dream Boat (C) 550 560 570 580 600 630 780 860 930 940 950 1090 11:00-11:30 Tream Boat (C) 550 560 570 580 600 630 780 860 930 940 950 1120 1230 1240 1250 1250 1300 1340 1390 1410 1430 1470 1490 11:00-12:00 National Grand Opera (N) 550 560 570 580 600 630 780 860 930 940 950 1120 1160 1230 1240 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 11:30-12:00 Bert Lown's Biltmore Orch. (C) 560 570 580 600 630 780 810 860 930 940 950 1120 1230 1240 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 11:30-12:00 Bert Lown's Biltmore Orch. (C) 560 570 580 600 630 780 810 860 930 940 950 1120 1230 1240 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 Friday 9:15-9:30 Cultural Broadcast for Women (C) 550 570 600 860 900 930 940 1090 1280 1340 1370 1390 1430 1490 10:30-10:45 Three Men in a Tub (C) 560 570 600 630 770 780 810 860 900 940 950 1160 1170 1230
5:00-5:30 R-K-O Program 550 560 580 590 610 660 790 890 920 940 950 1000 1020 1060 1070 1220 1330 1450 5:30-6:00 Gov. Clinton Hotel Orchestra (C) 550 560 570 600 610 630 670 810 930 940 950 1160 1280 1340 1390 1410 1430 1470 1490 6:00-6:30 Hotel Shelton Orchestra (C) 560 570 600 770 860 920 930 940 950 1160 1230 1260 1280 1290 1300 1320 1340 1390 1410 1430 1470 6:30-7:00 Civic Repertory Theatre (C) 560 570 600 610 860 900 920 930 950 1120 1230 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 7:00-7:30 Mid-Week Hymn Sing (N) 560 660 780 820 830 890 940 7:30-8:00 Ward's Tip Top Club (C) 570 600 670 780 860 1090 1170 1230 1290 1340 1390 1490 7:30-8:00 Half Hour in Capitol (N) 580 660 780 890 900 950 1190 1290 1320 7:30-8:00 Frontier Days (N) 690 760 770 1220 1350 8:00-8:15 The Vagabonds (C) 560 570 580 600 620 630 780 900 920 930 940 950 1120 1160 1230 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 8:00-8:30 Golden Gems (N) 760 1150 1220 1350 8:00-9:00 Rudy Vallee's Orchestra (N) 550 560 580 590 620 650 660 680 690 740 780 790 800 820 830 890 900 920 940 950 1000	550 560 580 590 610 620 640 650 660 660 740 780 790 800 820 830 890 900 920 940 950 1000 1020 1040 1070 1080 1110 1130 1140 1190 1220 1270 1290 1300 1320 1330 1450 1460 10:30-11:00 National Radio Forum (C) 550 560 570 580 600 610 630 770 780 860 930 940 950 1090 1320 1340 1390 1410 1430 1470 1490 11:00-11:30 Conoco Adventurers (N) 590 610 700 780 800 820 830 870 900 920 1000 1040 1130 1140 1190 1220 1350 11:00-11:30 Dream Boat (C) 550 560 570 580 600 630 780 860 930 940 950 1090 11:00-11:30 Dream Boat (C) 550 560 570 580 600 630 780 860 930 940 950 1120 1230 1240 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 11:00-12:00 National Grand Opera (N) 550 560 570 580 600 630 780 11:00-12:00 Bert Lown's Biltmore Orch. (C) 560 570 580 600 630 780 860 930 940 950 1120 1300 1340 1390 11:30-12:00 Bert Lown's Biltmore Orch. (C) 560 570 580 600 630 780 810 1260 1280 1290 1300 1340 1390 1410 1430 1470 1490 11:30-12:00 Bert Lown's Biltmore Orch. (C) 550 570 600 860 900 930 940 1410 1430 1470 1490 11:30-12:00 Bert Lown's Biltmore Orch. (C) 550 570 600 860 900 930 940 1410 1430 1470 1490 11:00-12:00 Three Men in a Tub (C) 560 570 600 630 770 780 810 10:00-10:45 Three Men in a Tub (C) 560 570 600 630 770 780 810

11:00-11:15 Nell Vinick, Beauty Adviser (C)	900 950 1090 1160 1170 1230 1240
	1260 1290 1320 1340 1390 1490
1160 1170 1230 1240 1260 1290 1320 1340 1440 1470 1490	8:45-9:00 Natural Bridge Program (N) 560 700 760 770 900 980 990
11:00-12:00 NBC Music Appreciation Hour (N)	1080 1110 1150 1220 1300 1350
550 560 580 590 610 620 650	9:00-9:30 Cliquot Club Eskimos (N)
660 680 690 700 720 740 750 760 770 780 790 800 820 830	550 560 580 590 610 660 790
890 900 920 940 950 980 990	890 920 940 950 1060 1220 1330 9:00-9:30 Interwoven Pair (N)
1000 1020 1040 1060 1070 1080 1110	590 620 640 650 680 690 700
1130 1140 1150 1190 1220 1270 1290 1300 1320 1330 1350 1450 1460	740 750 760 780 790 800 820
1300 1320 1330 1350 1450 1460 11:15-11:30 Columbia Salon Orchestra (C)	830 900 920 980 990 1020 1080 1110 1130 1140 1150 1190 1220 1290
560 570 600 610 620 630 780	1110 1130 1140 1150 1190 1220 1290 1300 1320 1350
860 900 930 940 950 1170 1230	9:00-10:00 True Story Hour (C)
1260 1280 1290 1340 1390 1430 1490 11:30-12:00 The Week Enders (C)	550 560 570 600 610 630 670
560 570 600 610 620 630 780	780 810 860 900 920 930 940 950 1040 1090 1120 1160 1170 1230
810 860 900 920 930 940 950	950 1040 1090 1120 1160 1170 1230 1240 1250 1260 1280 1290 1300 1320
1160 1170 1230 1260 1280 1290 1340	1340 1390 1440 1470 1490
1390 1430 1490 2:00-2:30 Dominion Male Quartet (C)	9:30-10:00 Broadcasting Broadway (N)
560 570 600 610 630 770 780	550 560 590 610 660 890 920 940 950 1000 1060 1220 1330 1450
860 900 930 1120 1160 1230 1240	9:30-10:00 Armour Program (N)
1260 1280 1290 1300 1320 1340 1390	590 620 640 650 680 740 750
1410 1430 1490 3:00-4:00 U.S. Marine Symphony Orch. (N)	760 780 820 830 900 920 980 990 1020 1080 1110 1130 1140 1150
550 590 660 920 950 1000 1020	990 1020 1080 1110 1130 1140 1150 1190 1220 1270 1290 1300 1320 1350
4:00-5:00 Pacific Feature Hour (N)	10:00-10:30 Around the Samovar (C)
700 760 790 830 920 950 1060 1140 1220 1300 1350	550 560 570 580 600 630 670
1140 1220 1300 1350 4:30-5:00 Tea Timers (N)	780 860 900 930 940 950 1090
	1120 1160 1170 1230 1240 1260 1280 1290 1320 1340 1390 1410 1490
5:00-5:15 Browsing Among Books (C)	1290 1320 1340 1390 1410 1490 10:00-10:30 Grand Opera Burlesque (N)
550 560 570 600 610 630 810	550 580 590 660 690 790 870
860 900 930 940 1090 1280 1290 1340 1390 1410 1430 1490	920 940 950 1000 1060 1220
5:15-5:30 The March of Events (N)	10:00-10:30 Armstrong Quakers (N) 590 620 640 650 700 740 750
550 620 660 740 820 890 900	760 780 790 800 820 830 900
920 940 950 1080 1290 1460	920 980 990 1020 1040 1080 1130
5:15-5:45 Bert Lown's Biltmore Orchestra (C) 550 560 570 600 610 630 810	1140 1150 1190 1220 1290 1320 1350
860 900 930 940 950 1120 1240	10:30-11:00 Curtis Institute of Music (C) 550 560 570 580 600 630 780
1280 1290 1340 1390 1410 1430 1490	810 860 900 930 940 950 1090
6:00-6:15 Musical Foursome (C) 560 570 600 610 860 900 920	1120 1160 1170 1230 1240 1260 1280
560 570 600 610 860 900 920 930 940 950 1260 1280 1320 1340	1290 1320 1340 1390 1410 1490 10:30-11:00 Mystery House (N)
1390 1410 1430 1490	550 580 590 610 660 690 920
6:15-6:30 The World in Music (N)	950 1000 1220
550 590 660 950 1070 1220 6:30-7:00 Will Osborne's Orchestra (C)	10:30-11:00 Smith Ballew's Orchestra (N)
560 570 600 770 900 920 930	750 760 790 980 1110 1150 1190 1220 1290 1350
940 950 1120 1230 1260 1280 1290	11:00-11:15 Hamilton-Brown Sketch Book (N)
1300 1340 1390 1410 1430 1490	560 590 620 750 760 770 790
7:00-7:30 The Family Goes Abroad (N) 550 560 580 650 660 740 920	830 920 980 990 1130 1150 1220
550 560 580 650 660 740 920 1270 1320	1350 1430 1480
	11:00-11:30 Sleepy Hall's Orchestra (C) 570 580 600 630 780 860 900
560 570 580 600 620 810 900	570 580 600 630 780 860 900 930 940 950 1120 1160 1170 1240 1260 1280 1290 1300 1340 1390 1410 11:00-12:00 Hotel St. Regis Orchestra (N)
920 930 1120 1230 1260 1280 1290 1340 1390 1410 1430 1490	1260 1280 1290 1300 1340 1390 1410
1340 1390 1410 1430 1490 7:30-8:00 Stars of Melody (N)	
760 770 780 830 920 1150 1220	590 660 690 780 790 870 920
1320 1350 1460 1480	11:30-12:00 Ben Pollack's Orchestra (C) 550 560 570 580 600 630 780
7:30-8:00 Raybestos Twins (N)	860 930 940 950 1120 1160 1240
550 560 590 610 650 660 690 740 780 790 820 830 920 940	1260 1280 1300 1340 1390 1410 1470
740 780 790 820 830 920 940 950 1060 1140 1220 1270 1320 1330	Saturday
7:30-8:00 Howard Fashion Plates (C)	Saturday
780 860 1170 1290 1490	10:00-10:30 Saturday Syncopators (C)
8:00-8:30 Brown-Bilt Footlights (C) 550 560 570 600 610 630 670	570 600 620 630 770 780 810 860 940 950 1160 1170 1230 1260
550 560 570 600 610 630 670 780 810 860 900 930 940 950	1280 1290 1340 1390 1430 1470 1490
1040 1090 1160 1170 1230 1250 1260	10:30-11:00 Columbia Grenadiers (C)
1280 1290 1300 1320 1340 1390 1430	560 570 600 620 630 770 780
1430 1440 1470 1490	810 860 940 950 1090 1160 1170
8:00-9:00 Cities Service Orchestra (N) 550 560 580 590 610 620 660	1230 1260 1280 1290 1340 1390 1430 1470 1490
550 560 580 590 610 620 660 690 790 800 830 890 900 920	11:00-12:00 U.S. Army Band Concert (C)
940 950 1000 1020 1060 1070 1130	560 570 580 600 610 620 630
1190 1220 1290 1330 1430 1460	780 860 900 920 930 940 950
8:30-9:00 Eversharp Penman (C)	1160 1170 1230 1240 1260 1280 1290 1340 1390 1430 1470 1490
550 600 630 670 780 810 860	10-10 10-30 1-100 1-10 1-100

12:00-12:30 Adventures of Helen and Mary (C)	8:00-8:30 The New Business World (N)
550 560 570 580 600 610 630 780 860 900 920 930 940 950	550 560 580 590 610 620 660 680 780 790 830 890 900 920
780 860 900 920 930 940 950 1160 1230 1280 1290 1320 1340 1390	940 950 1000 1040 1080 1110 1130
1430 1470 1490	1140 1190 1220 1320 1330 1430 1450
1:30-2:00 Keystone Chronicle (N)	8:15-8:30 Babson Finance Period (C)
590 610 620 650 700 770 780	550 600 630 670 780 810 860
820 830 870 900 920 980 1000	950 1090 1160 1170 1230 1240 1260
1140 1190 1220 1290 1320 1350 1460	1290 1320 1340 1390 1470 1490
2:00-2:30 Scotti Orchestra (C) 560 570 600 630 770 780 810	8:30-9:00 Dixie Echoes (C)
860 900 930 1170 1230 1240 1260	550 570 580 600 610 620 630 780 810 860 900 920 930 940
1280 1290 1300 1320 1340 1390 1410	780 810 860 900 920 930 940 950 1090 1120 1230 1240 1260 1280
1430 1470 1490	1290 1300 1340 1390 1410 1430 1470
2:30-3:00 The Gauchos (C)	8:30-9:00 Launderland Lyrics (N)
550 560 570 580 600 630 770	550 560 580 590 610 650 660
780 810 860 900 920 930 1160 1170 1230 1240 1260 1280 1290 1300	740 780 790 800 820 830 870
1320 1340 1390 1410 1430 1470 1490	890 900 920 940 950 1000 1080
4:00-4:30 The Aztecs (C)	1110 1130 1140 1190 1220 1230 1290
560 570 600 610 630 770 780	1300 1320 1330 1460
810 860 920 930 940 950 1090	9:00-9:15 Broadway Lights (N) 750 760 980 1220 1350
1170 1230 1240 1260 1280 1290 1320 1340 1390 1410 1430 1470 1490	
1340 1390 1410 1430 1470 1490 4:30-5:00 Club Plaza Orchestra (C)	9:00-9:30 Nit Wit Hour (C) 550 560 570 580 600 610 620
550 560 570 580 600 610 620	630 670 780 810 860 900 930
630 810 860 900 920 930 940	940 950 1090 1120 1160 1170 1230
950 1090 1170 1230 1240 1260 1280	1240 1260 1280 1290 1300 1320 1340
1290 1320 1340 1390 1410 1430 1470	1390 1410 1430 1470 1490
4:30-5:00 Whyte's Orchestra (N)	9:00-10:00 General Electric Hour (N)
560 590 610 660 800 950 1000	550 560 580 590 610 620 640
5:00-5:30 Women's Aviation Hour (C) 550 560 570 580 600 610 630	660 740 780 790 800 920 830 890 900 920 940 950 1000 1070
670 810 860 900 920 930 940	1080 1110 1130 1140 1190 1220 1290
950 1090 1240 1280 1290 1340 1390	1320 1330 1460
1410 1430 1470 1490	9:30-10:00 Around the Samovar (C)
5:00-5:30 The Tea Timers (N)	550 560 570 580 600 620 630
660 780 920 950 1020 1070 1220	670 780 810 860 900 930 940
5:30-5:45 Quiet Harmonies (C) 550 560 570 580 600 610 630	950 1090 1120 1160 1170 1230 1240
550 560 570 580 600 610 630 670 810 860 900 920 930 940	1260 1280 1290 1300 1320 1340 1390 1410 1430 1470 1490
950 1090 1240 1280 1290 1340 1390	9:30-10:00 Dutch Masters Minstrels (N)
1410 1430 1470 1490	700 750 760 980 990 1020 1060
5:30-6:00 Blue Aces (N)	1150 1220 1350
760 780 820 870 1220	10:00-10:30 Ship of Memory (N)
5:45-6:00 Dr. Thatcher Clark (C) 550 560 570 580 600 610 860	690 760 980 1220 1350 1480
550 560 570 580 600 610 860 920 940 1280 1290 1340 1390 1410	10:00-11:00 Paramount-Publix Hour (C)
1470 1490	550 560 570 580 600 610 620
6:00-6:30 Hotel Shelton Orchestra (C)	630 770 780 810 860 900 930
560 570 580 600 610 770 810	940 950 960 1040 1050 1090 1120 1160 1170 1230 1240 1250 1260 1280
860 920 930 940 950 1160 1230	1160 1170 1230 1240 1250 1260 1280 1290 1300 1320 1330 1340 1390 1410
1260 1280 1300 1320 1340 1390 1410 1430 1470 1490	1430 1440 1470 1490
6:30-7:00 Ten Husing's Sportslants (C)	10:00-11:00 Lucky Strike Orchestra (N)
560 570 600 810 860 900 920	550 560 580 590 610 620 640
930 940 950 1230 1260 1280 1290	660 720 740 780 790 800 820
1300 1340 1390 1410 1430 1470 1490	830 890 900 920 940 950 1000
7:00-7:15 Floyd Williams, tenor (N)	1080 1130 1140 1190 1220 1270 1290 1300 1320 1330 1450 1460
590 660 740 780 790 890 920 040 1320	1300 1320 1330 1450 1460 10:30-11:00 The Miniature Theatre (N)
940 1320 7:15-7:30 The Jameses (N)	690 750 760 980 1150 1220 1350
550 580 590 660 790 890 920	11:00-11:15 Troubadour of the Moon (N)
7:15-7:30 RCA Theremin Ether Wave Music(N)	550 560 590 660 780 1000 1220
650 680 740 760 770 780 820	1270 1300 1320 1450
830 900 920 1040 1080 1130 1140	11:00-11:30 Guy Lombardo's Orchestra (C) 550 560 570 580 600 620 630
1190 1220 1290 1300 1320 1350 1460 7;30-8:00 Phil Spitalny's Music (N)	780 860 930 940 950 1120 1160
660 680 690 780 790 890 920	1170 1240 1260 1280 1290 1340 1390
940	1410 1430 1470 1490
7:30-8:00 The Fuller Man (N)	11:15-12:00 Smith Ballew Orchestra (N)
700 760 770 980 990 1020 1060	550 560 590 610 660 780 900
1150 1220 1350	920 1270 1300 1320 1450 1480 11:30-12:00 Hotel Paramount Orchestra (C)
8:00-8:15 Dr. Arthur Torrance (C) 550 560 570 580 600 610 620	550 560 570 580 600 630 860
550 560 570 580 600 610 620 630 780 810 860 900 920 930	930 940 950 1120 1160 1170 1240
950 1120 1160 1170 1230 1240 1260	1260 1280 1290 1340 1390 1410 1430
1280 1290 1300 1320 1340 1390 1410	1470 1490
1430 1470 1490	12:00-1:00 Rudy Vallee and His Orchestra (N)
8:00-8:15 Dixies Circus (N) 700 760 980 990 1020	550 590 660 780 900 950 1000 1070 1460
700 760 980 990 1020	

	AIR-LINE DISTANCES
Atlanta, Md. Atlanta, Md. Atlanta, Md. Baltimore, Md. Baltimore, Md. Baltimore, Md. Chicago, M. T. Chicago, Mich. Chic	Fargo, M. Dak. Fort Worth, Tex. Galveston, Tex. Hestings, Nebr. Houghton, Mich. Jacksonville, Fla. Kansas City, Mo. Los Angeles, Galif. Louisville, Ky. Memphis, Tean. Mismi, Fla.
- 575 1830 933 960 695 583 368 550 1208 738 595 129 - 2055 358 1525 273 603 423 305 1505 913 398 175 - 2266 1610 1872 1453 1663 1754 637 1155 1671 96	3 1112 750 688 901 498 947 286 675 1935 317 335 610 905 11 0 1143 1239 1245 1154 964 808 682 962 2313 498 792 958 948 11 9 975 1263 1538 934 1384 1367 2098 1158 663 1623 1506 2368 1140
How - 1881 398 849 737 550 1766 1159 613 206 - 1575 1234 1184 1402 1047 1102 1398 68 - 454 392 175 1368 762 218 169 - 249 307 918 310 236 124	0 923 1221 1289 1019 956 560 880 862 2195 463 802 1184 733 1
To Use - 218 1090 509 234 133 - 1223 617 94 152 - 607 1153 55	3 818 839 897 742 569 569 628 541 1842 92 410 957 603 13 1 838 1046 1116 871 787 518 768 700 2044 309 627 1088 632 18 4 642 643 925 353 749 970 1468 555 828 1035 878 1732 639 4
Your RADEX -147	100 100 100 100 100 1400 411 400 1200 500 1
ALL stations in America are listed in RADEX in three tables: 1st by Frequencies.	- 283 544 273 1093 943 460 1212 751 448 1150 870 13 - 808 375 1277 799 677 1423 807 492 941 1087 14 - 513 666 1178 226 1177 693 591 1468 399 1
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 as- sume that the sta- tion was are hearing in the sta- 1328 326 1437 480 176 983 722 15 2136 633 1787 636 830 1545 272 15 592 2153 595 591 328 1192 26 1352 480 379 1247 413 10
Let us assume you have just bought your first RADEX. Proceed as follows: Tune in some station—any station that comes	WEAF in New York. 1825 1602 2355 1522 f First we must ascertain the 119 223 605 11 1602 frequency for this station. Look 1878 700 14
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.	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

INDEX BY FREQUENCIES AND DIAL NUMBERS 76 174 590 kilocycles 508.2 meters Spokane, Wash, Lincoln, Nebr Wasmer, Inc. asks Wesleyan University on Elec. Illuminating Co. 600 kilocycles 499.7 meters froquois Falls, Ont. Laramis, Wyo. San Diego, Calif. Baltimore, Bid. Brioli, Wis. Lawrenceburg, Tenn. Memphis, Tenn. Hartford, Conn. lilbl Power & Paper Co. shop N. S. Thomas rian Radio Corp. onumental Rudio Co.. Inc. doli College 250 500 500 250 250 250 500 500 ollege n School of Music Insurance Co. 610 kilocycles 491.5 meters Sen Prancisco, Calif. Kansas Ciry, Mo. Philadelphia, Pa. Philadelphia, Pa. Kansas City, Mo. Lee, Inc. 8
Lee, Inc. 8
Lee, Inc. 18
Lee, In e., inc. of Christianity 620 kilocycles 483.6 meters 73 | 71Phoenis, Aris, Portland, Ore, Tamps, Fis, Orlando, Fis, Dover-Foscroft, Me, Milwaukee, Wis. ecerical Equipment Co. regonian Publishing Co. ampa Publishing Co. ollins College, Inc. hompson L. Guernesy 630 kilocycles 475.9 meters 72 170 Victoria, B. C. Yorkron, Sask, Moncton, N. B. Mazarian, Mes Columbia, Mo. Eransville, Ind Washington, il Jeflerson City, crorta Broadcarring Ass'n.
Innipeg Grain Eschange
snadian National Railwaye
ethen College
canaville on the Air, Inc.
. A. Leese Co.
ete, Marketing Bureau 640 kilocycles 468.5 meters 5000 Los Angeles, Calif. C. Anthony, Inc. 650 kilocycles 461.3 meters 5000 Nashellie, Tenn. 660 kilocycles 454.3 meters 69 167 WAAW 500 Omaha Nebr. WEAF 50000 New York City Omaha Grain Exchange National Broadcasting Co., Inc. 670 kilocycles 447.5 meters 68 166 WMAQ 5000 Chicago, Ill. 680 kilocycles 440.9 meters 67 65

RPO 5000 San Prancisco, Cal.

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 was 72-70.

We now have found that the dial numbers for 630 kcys. are 72-70 and the dial numbers for 660 kcys. are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 kcys. We listen carefully and if they are on the air and within range of our set we will tune in MSM 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

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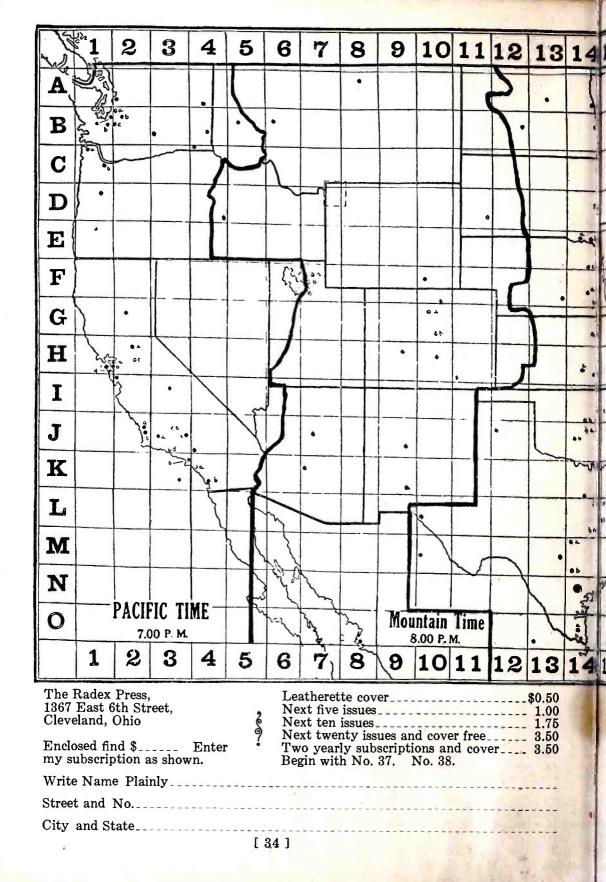
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-	1030	2	1696	518	718	1748	-	1498	2015	1107	1628	938	483			1178		1028	1889	742	1648	Albuquerque, N. Mex.
16	427	747	507	759	815	663	1592		1022		470		1580			2180		1960	863		542	Atlanta, Ga.
8.3	1001	170		1173		90	2002	194		2367	128	731	1858	2451	278	2341	1064	2110	282	1083	33	Baltimore, Md.
31				1138		2113	733	1863	2282	349	2060	1389	292	516	2120	405	1433	290	2196	973	2045	Boise, Idaho
11	1359	188	467	1490	1280	268	2295	478	100	2553	471	1036	2099	2696	150	2508	1410	2279	79	1314	392	Boston, Mass.
52	536		1465		1061			1424	1961	1944	1428	975	1317	1675	1770	2015	510	1853				Brownsville, Tex-
26	1087	291	435	1117	883	278	1904	178	438	2167	375		1701			2130	1080	1900		916	290	Buffalo, N. Y.
34	831	711	696	689	432	664	1451	411	892	1765	618	259	1260	1855	702	1743	725	1514	774	479	594	Chicago, Ill.
39	708	568	474	755	620	501	1578	258	802	1987	399		1450			1974		1746			403	Cincinnati, Ohio
36	922	404	429	946	738	343	1745	225	603	2063	353	490	1567					1804	473	785	303	Cleveland, Ohio
18	1079	1628	1562	503	485	1575	585		1803		1488	793		946			799		1692	-	1490	Denver, Colo.
23	825	1023	983	469	122	972	1154	718	1197	1479	905	270		1547				1243			895	Des Moines, Iowa Detroit, Mich.
\$8	938	483	,522	905	666	444	1685	208			445		1490					1715				El Paso, Tex.
59	986	1902	1755	578		1834	1 '		2126			1033		993			1	1238			1726	Fargo, N. Dak.
20	-	1213		786		1186	1225		1313			658		1447			1002	1470	1240		1210	Fort Worth, Tex.
1	470	1398	1226			1324	1		1642			568	1249	1454				1753				Galveston, Tex.
60		•		456		1335	1		1678					1297				1061				Hastings, Nebr.
97			1216			1222	901		1454		897	455	1116					1552				Hot Springs, Ark.
10			955			1051	1094		1371	1638	870	ì	1242					1360				Houghton, Mich.
60			946		547	827	_					-	1840			2450		2239				Jacksonville, Fla.
02		838			1098	758			1113		937	238		1500				1286				Kaneas City, Mo.
72		4	1009			1037			2631			1585		345		956	1420				2295	Los Angeles, Calif.
7	-			1182		580				1953			1400			1945	598	1720				Louisville, Ky.
ľ		-				878			1205				1250			1867	279	1652	1055	648	763	Memphis, Tenn.
9:		1095		1233					1357				2098				950	2528	1210	1510	927	Mismi, Fla.
ж.	1050								1145			464	988	1585	975	1403	859	1173	1056	238	936	Minneapolis, Minn.
W	1733			1162		1997			2133			1331	435	762	1978	395	1457	170	2060	887	1940	Misscula, Mont.
	470	1	-			683	4		1015		526	253	1390	1958	820	1973	470	1752	863	704	567	Nashville, Tenn.
1		1178				1090			1445			599	1433	1923	1259	2098	_	1898				New Orleans, La.
L		-		1324				313	277	2455	287	873	1972	2568	142	2419		2190				New York, N. Y.
н				1186			2027	316	565	2458	79	771	1925			2440					145	Norfolk, Va.
ı		9		***	405	1256	843	1013	1550	1488	1122	456		1386			1	1324			1150	Oklahoma, Okla.
	efore					1094	1032	837	1316	1373	1020			1425			1				1012	Omaha, Nebr.
- 10	fter					~	2079	254	360	2419	205	808	1923			2388	_	23.59			122	Philadelphia, Pa,
m.	or t		-				-	1825	2345	1007					2152						1980	Phoenix, Ariz.
P				ev	_			4		2174		l.	1670			2145		1918 2285				Pittsburgh, Pa. Portland, Me.
P	-			ow a					••	2563			2127			2513						Portland, Oreg.
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f	rece	ived	10 0	efor	e or	not	•						•		2548		1655			_	3 2437	San Francisco, Calif.
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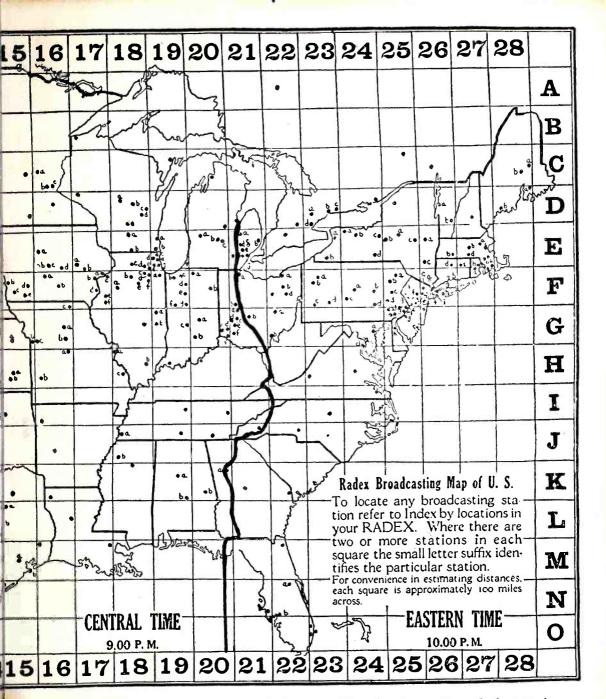
ur index now becomes of great value to us tentifying programs. Let us say that we hear ic at 67-65 on our dials. We refer to our x by Frequencies and Dial Numbers and we that we are in tune to 680 kilocycles. On this there are two stations: KPO at San Franco and WPTF at Raleigh, N. C. Both of these ions have 5000 watts in power. But knowing his the closer to our set, we can tell almost riably which station we are hearing. The io Commission has had to give the same freacy in most cases to several stations but they distributed them geographically so they are ired to divide time. In this case of course it ot possible to tell which one of the two stats is broadcasting at the particular moment near it but we do know it is one or the other of

he second column in the index by Frequencies, the have seen, gives the power of the station as sured in watts. This power also aids us in -- 1621 1333 726 1055 5hrevport, Laidentifying -- 2216 1055 2105 Spokane, Wash.
stations as we -- 1242 371 Springfield, Masswill not ordinarily -- 1073 Yermillion, S. Dathear 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.





Radio is in a constant process of change. New developments and changes in stations, are taking place monthly. If you are one of those who like to be intelligent in your interests, you cannot afford to miss a single copy of this magazine.

RADEX is published monthly excepting in July and August. The price is 25c per copy. Subscription prices are shown in coupon on opposite page. Fill it out and mail it at once.

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INDEX BY FREQUENCIES AND DIAL NUMBERS

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Frequency in kilocycles. Wave lengths in meters. Second column shows power in watts. Third column symbols: D, daytime only. S, 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. N means NBC chain. C means Columbia shown

Correct kilocycles shown in	small figures. N means NB0	C chain. C means Columbia chain.				
540 kilocycles	555.6 meters					
CKX 500 XFA 50	Brandon, Manitoba Mexico City	Manitoba Telephone System Sria. de Agricultura y Fomento				
550 kilocycles	545.1 meters					
KFDY 500 1+	Brookings, S. D. St. Louis, Mo. Bismarck, N. D. Corvallis, Ore. St. Louis, Mo. Buffalo, N. Y. Cincinnati, Ohio Merida, Yucatan	S. D. State College Concordia Theological Seminary Hoskins-Meyer State Agricultural College Pulitzer Publishing Co. Radio Station WGR, Inc. WKRC Incorporated Partido Socialista del Sureste				
560 kilocycles	535.4 meters					
KFDM 500 X+ KLZ 1000 C KTAB 1000 WEBW 500 3D WFI 500 1N WIBO 1000 3+N WLIT 500 1N WNOX 1000 X+ WPCC 500 3S WQAM 1000	Beaumont, Texas Denver, Colo. Oakland, Cal. Beloit, Wis. Philadelphia, Pa. Chicago, Ill. Philadelphia, Pa. Knoxville, Tenn. Chicago, Ill. Miami, Fla.	Magnolia Petroleum Co. Reynolds Radio Co., Inc. Associated Broadcasters Beloit College Strawbridge & Clothier Nelson Bros. Bond & Mortgage Co. Lit Brothers Sterchi Bros. North Shore Congregational Church Miami Broadcasting Co.				
570 kilocycles	526.0 meters					

meters

KGKO	250	+	Wichita Falls, Texas
KMTR	500		Hollywood, Cal.
KXA	500		Seattle, Wash.
WEAO	<i>7</i> 50	17	Columbus, Ohio
WKBN	500	1C	Youngstown, Ohio
WMAC	250	2	Cazenovia, N. Y.
WMCA	500	3	New York City
WNAX	1000		Yankton, S. D.
WNYC	500	3	New York City
WSYR	250	2	Syracuse, N. Y.
WWNC	1000	C	Asheville, N. C.

580 kilocycles 516.9 meters

CFCL CHMA CJBC CJCA CJSC CKCL CKNC CKNC CKUA CNRE KGFX KSAC	500 250 500 500 500 500 500 500 500 500	3S 4 3S 4 4 3 3 4 4 D	Toronto, Ont. Edmonton, Alta. Toronto, Ont. Edmonton, Alta. Toronto, Ont. Toronto, Ont. Toronto, Ont. Edmonton, Alta. Edmonton, Alta. Pierre, S. D. Manhattan, Kans.
KSAC	500	2+	Manhattan, Kans.
WIBW WOBU WSAZ	500 250 250	2+C	Topeka, Kansas Charleston, W. Va.
WTAG	250	N	Huntington, W. Va. Worcester, Mass.

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. Gurney Seed & Nursery Co. Dept. of Plants and Structures Clive B. Meredith

Citizens Broadcasting Co., Inc.

Dominion Battery Co. Christian and Missionary Alliance Jarvis Street Baptist Church The Edmonton Journal, Ltd. The Evening Telegram The Dominion Battery Co. Canadian National Carbon Co., Ltd. University of Alberta Canadian National Railways Dana McNeil State Agricultural College Topeka Broadcasting Assn., Inc. Charleston Radio Broadcasting Co. WSAZ, Inc. Telegram Publishing Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS				
590 kilocycles	508.2 meters		trotic	
KHQ 1000 X+N WCAJ 500 1 WEEI 1000 N WEMC 1000 D WOW 1000 1N XFI 1000 CP	Spokane, Wash. Lincoln, Nebr. Boston, Mass. Berrien Springs, Mich. Omaha, Nebr. Mexico City Lynchburg, Va.	Louis Wasmer, Inc. Nebraska Wesleyan University Edison Elec. Illuminating Co. Emmanuel Missionary College Woodmen of the World Sria. de Industria, Commercio y Trabajo Abe Cohen	670 MTRS. 447.5	
600 kilocycles	499.7 meters			
CFCH 250 3 CJRM 500 4 CJRW 500 4 CMW 1000 CNRO 500 3 KFSD 500 + WCAC 250 2+ WCAO 250 C WGBS 350 2+ WMT 500 X WOAN 500 1 WREC 500 1+C	Iroquois Falls, Ont. Moose Jaw, Sask. Fleming, Sask. Havana, Cuba Ottawa, Ont. San Diego, Cal. Storrs, Conn. Baltimore, Md. New York City Waterloo, Iowa Lawrenceburg, Tenn. Memphis, Tenn.	Abitibi Power & Paper Co. Jas. Richardson & Sons, Ltd. Jas. Richardson & Sons, Ltd. Columbus Commercial & Radio Co. Canadian National Railways Airfan Radio Corp. Conn. Agricultural College Monumental Radio, Inc. General Broadcasting System, Inc. Waterloo Broadcasting Co. WREC, Inc. WREC, Inc.		
610 kilocycles	491.5 meters			
CMBY 200 612 KFRC 1000 C WDAF 1000 N WFAN 500 2C WIP 500 2 WJAY 500 D	Havana, Cuba San Francisco, Cal. Kansas City, Mo. Philadelphia, Pa. Philadelphia, Pa. Cleveland, Ohio	Lino E. Cosculluala Don Lee, Inc. Kansas City Star Co. Keystone Broadcasting Co., Inc. Gimbel Bros. Co. Cleveland Radio Broadcasting Corp.		
620 kilocycles	483.6 meters			
KGW 1000 X+N KTAR 500 + WFLA 1000 1+ WLBZ 500 WSUN 1000 1+ WTMJ 1000 +N	Portland, Ore. Phoenix, Arizona Clearwater, Fla. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis.	Oregonian Publishing Co. KAR Broadcasting Co. Chamber of Commerce Maine Broadcasting Co., Inc. Chamber of Commerce Milwaukee Journal	CUT OUT	
630 kilocycles	475.9 meters		O _X	
CFCT 500 CJGX 500 CNRA 500 KFRU 500 1 WGBF 500 1 WMAL 250 +C WOS 500 1+ XFC 350	Victoria, B. C. Yorkton, Sask. Moncton, N. B. Columbia, Mo. Evansville, Ind. Washington, D. C. Jefferson City, Mo. Jalapa, Ver.	Victoria Broadcasting Association Winnipeg Grain Exchange Canadian National Railways Stephens College Evansville On the Air, Inc. M. A. Leese State Marketing Bureau Goberno Estado de Veracruz	CUT OUT ON DOTTED LINES	
640 kilocycles	468.5 meters		S	
CMCF 250 643 KFI 5000 N WAIU 500 C WOI 5000 D XFG 2000	Havana, Cuba Los Angeles, Cal. Columbus, Ohio Ames, Iowa Mexico City	Raul Karmen Earle C. Anthony, Inc. American Insurance Union State College of Agriculture Sria, de Guerra y Marina		
650 kilocycles	461.3 meters			
WSM 5000 N	Nashville, Tenn.	National Life & Accident Ins. Co.		
660 kilocycles	454.3 meters			
WAAW 500 D WEAF 50000 N	Omaha, Neb. New York City	Omaha Grain Exchange National Broadcasting Co., Inc.		
670 kilocycles	447.5 meters			
WMAQ 5000 C XEB 1000	Chicago, Ill. Mexico City	Chicago Daily News, Inc. E. Buen Tono, S. A.		

690 1:1100:0100		THE DIAL NOVIBERS
680 kilocycles	St. Joseph, Mo.	
KPO 5000 N WPTF 1000 N	San Francisco, Cal.	Scroggin & Co. Bank Hale Bros. & The Chronicle
250 CP	Raleigh. N. C. Gueda Springs, Kans.	Durham Life Insurance Co. R. E. Campbell and F. L. Stallard
690 kilocycles	434.5 meters	
CFAC 500 1 CFCN 500 1	Calgary, Alta.	The Calgary Herald
CHCA 500 1 CJBC 5000 2S	Calgary, Alta. Calgary, Alta.	Western Broadcasting Co. The Western Farmer
CJCJ 500 1 CKGW 5000 2N	Toronto, Ont. Calgary, Alta.	Jarvis Street Baptist Church Albertan Publishing Co., Ltd.
CNRC 500 1 CNRX 5000 2	Toronto, Ont. Calgary, Alta.	Canadian National Railways
NAA 1000 VAS 500	Toronto, Ont. Arlington, Va. Louisburg, N. S.	Canadian National Railways U. S. Navy
		Department of Fisheries
700 kilocycles	428.3 meters	
	Cincinnati, Ohio	Crosley Radio Corp.
710 kilocycles	422.3 meters	
KEJK 500 WOR 5000	Los Angeles, Cal. Newark, N. J.	R. S. MacMillan Bamberger Broadcasting Service, Inc.
720 kilocycles	416.4 meters	
WGN 25000 N	Chicago, Ill.	Chicago Tribune
730 kilocycles	410.7 meters	
CHLS 50 1	Vancouver, B. C.	W. G. Hassell
CHYC 5000 2 CKAC 5000 2C	Montreal, Que. Montreal, Que.	Northern Electric Co., Ltd. La Presse Publishing Co., Ltd.
CKCD 50 1 CKFC 50 1	Vancouver, B. C. Vancouver, B. C.	Vancouver Daily Province United Church of Canada
CKMO 50 1 CKWX 100 1	Vancouver, B. C. Vancouver. B. C.	Sprott-Shaw Radio Co. A. Holstead & Wm. Hanlon
CMK 2000 CNRM 5000 2	Havana, Cuba Montreal, Que.	Cuban Broadcasting Co., Hotel Plaza Canadian National Railways
XEN 1000	Mexico City	General Electric, S. A.
740 kilocycles	405.2 meters	
KMMJ 1000 WSB 5000 N	Clay Center, Neb. Atlanta, Ga.	The M. M. Johnson Co. Atlanta Journal Co.
750 kilocycles	399.8 meters	
TIX 50 WJR 5000 N	San Jose, Costa Rica Detroit, Mich.	WJR, The Goodwill Station, Inc.
760 kilocycles	394.5 meters	
KVI 1000 C WEW 1000 D	Tacoma, Wash. St. Louis, Mo.	Puget Sound Broadcasting Co., Inc. St. Louis University
WJZ 30000 N	New York City	Radio Corp. of America, Inc.
770 kilocycles	389.4 meters	
KFAB 5000 IN WBBM 25000 1C	Lincoln, Nebr. Chicago, Ill.	Nebraska Buick Automobile Co. The Atlass Co., Inc.
WJBT 25000 1S	Chicago, Ill.	The Atlass Co., Inc.
780 kilocycles	384.4 meters	
CKY 5000 3 CNRW 5000 3	Winnipeg, Manitoba Winnipeg, Manitoba	Manitoba Telephone System Canadian National Railways
KELW 500 2 KTM 500 2+	Burbank, Cal.	Earl L. White Pickwick Broadcasting Corp.
WEAN 250 +C WMC 500 +N	Providence, R. I. Memphis, Tenn.	The Shepard Co. Memphis Commercial-Appeal
WPOR 500 1 WTAR 500 1C	Norfolk, Va. Norfolk, Va.	WTAR Radio Corp. WTAR Radio Corp.
	5 00 1	

Frank H. Jones General Electric Co. General Electric Co.	
Carter Publications, Inc. News & Journal	
	KCYS.
Eastern Broadcasters, Inc.	880 MTRS.
	340.7
Instituto Provincial Courier-Journal & Times	DIAL
Leopoldo V. Figueros General Electric Co. Matheson Radio Co., Inc. University of Florida	
	4
Star Publishing & Ptg. Co. G. F. Tull & Ardern, Ltd. Jarvis Street Baptist Church Alberta Pacific Grain Co., Ltd. Nestle's Food Co. Cuban Telephone Co. Canadian National Railways Canadian National Railways Oakford-Olympia Park Corp.	
	Ω
W. K. Henderson Loyola University	JT OUT
	9
Taft Radio & Broadcasting Co., Inc. KMO, Inc. Atlantic Broadcasting Corp. Atlantic Broadcasting Corp. WHB Broadcasting Co.	CUT OUT ON DOTTED LIN
	5
Great Lakes Broadcasting Co. Agricultural Broadcasting Co.	ŒS
The Hamilton Spectator Maple Leaf Radio Co., Ltd. E. Fontaine N. Nathanson Le "Soleil," Ltd. G. A. Vandry Wentworth Radio & Auto Sply. Co., Ltd. Canadian National Railways State Teachers College Tribune Publishing Co. Pillar of Fire, Inc. Mississippi Broadcasting Co. Scranton Broadcasters, Inc. Scranton Times University of Iowa	
	General Electric Co. General Electric Co. General Electric Co. Carter Publications, Inc. News & Journal Northwestern Broadcasting, Inc. Eastern Broadcasters, Inc. Instituto Provincial Courier-Journal & Times Leopoldo V. Figueros General Electric Co. Matheson Radio Co., Inc. University of Florida Star Publishing & Ptg. Co. G. F. Tull & Ardern, Ltd. Jarvis Street Baptist Church Alberta Pacific Grain Co., Ltd. Nestle's Food Co. Cuban Telephone Co. Canadian National Railways Canadian National Railways Oakford-Olympia Park Corp. W. K. Henderson Loyola University Taft Radio & Broadcasting Corp. Atlantic Broadcasting Corp. WHB Broadcasting Corp. WHB Broadcasting Co. Great Lakes Broadcasting Co. Great Lakes Broadcasting Co. Agricultural Broadcasting Co. University The Hamilton Spectator Maple Leaf Radio Co., Ltd. E. Fontaine N. Nathanson Le "Soleil," Ltd. G. A. Vandry Wentworth Radio & Auto Sply. Co., Ltd. Canadian National Railways State Teachers College Tribune Publishing Co. Pillar of Fire, Inc. Mississippi Broadcasting Co. Scranton Broadcasters, Inc. Scranton Times

890 kilocycles	336.9 meters	2 III NOWIBERS
CRBO 50	550.9 meters	
CKCO 100	St. John, N. B. Ottawa, Ont.	C. A. Munro, Ltd.
CMBC 100 887	navana, Cuha	Dr. G. M. Geldert
KFNF 500 2+	Shenandoah, Iowa	D. Fernandez Cruz Henry Field Seed Co.
KGJF 250 KUSD 500 2+	LITTIE KOCK, Ark	Church of the Nazarene
WGST 250 1	Vermillion, S. D. Atlanta, Ga.	University of South Dakota
WILL 250 2+	Urbana, III.	Georgia School of Technology
WJAR 250 +N WKAQ 500	Providence, R. I.	University of Illinois The Outlet Co.
WMAZ 250 1+	San Juan, P. R. Macon, Ga.	Radio Corp. of Porto Rico
WMMN 250 +	Fairmount, W. Va.	Julior Unamper of Commons
		Holt-Rowe Novelty Co.
900 kilocycles	333.1 meters	
KGBU 500		
KHJ 1000 C	Ketchikan, Alaska	Alaska Radio & Service Co.
KSEI 250	Los Angeles, Cal. Pocatello, Idaho	Lon Lee. Inc
WJAX 1000 N	Jacksonville, Fla.	KSBI Broadcasting Association, Inc. City of Jacksonville WKY Radiophone Co. Wisconsin Dept. of Markets
WKY 1000 N WLBL 2000 D	Oklahoma City	WKY Radiophone Co.
WLBL 2000 D WMAK 750 C	Stevens Pt., Wis. Buffalo, N. Y.	Wesconsin Dept. of Markets
		WMAK Broadcasting System, Inc.
910 kilocycles	220 6	
CFOC SOO	329.6 meters	
CFQC 500 1 CJGC 500 2 CJHS 250 1	Saskatoon, Sask.	The Electric Shop, Ltd.
CJGC 500 2 CJHS 250 1	London, Ont. Saskatoon, Sask.	rice Fress Printing Co. 1 ed
CNRL 500 2	London, Unt.	
CNRS 500 1 XFX 1000	Saskatoon, Sask.	Canadian National Railways Canadian National Railways
XFX 1000	Mexico City	Sria. de Educacion Publica
020 1-11-	225.0	
920 kilocycles	325.9 meters	
CMHD 250 CMX 250 916	Caibarien, Cuba	Manuel A. Alverez
CMX 250 916 HHK 1000	Havana, Cuba	Francisco Lavin
KFEL 500 1	Port au Prince, Haiti Denver, Colo.	Republic of Haiti
KFXF 500 1	Denver, Colo.	Eugene P. O'Fallon, Inc. Colorado Radio Corp. Fisher's Bland Corp.
KOMO 15000 N KPRC 1000 +N	Seattle, Wash.	
KPRC 1000 +N WAAF 500 D	Houston, Texas	HOUSION Printing Co.
WBSO 250 DY	Chicago, III. Wellesley Hills, Mass.	Drovers Journal Publishing Co
WWJ 1000 N XEX 500	Detroit, Mich.	The Detroit News
XEX 500 XFF 250	Mexico City	Excelsior, Cia Editorial, S. A.
200 222	Chihuahua, Chih.	Excelsior, Cia Editorial, S. A. Gobierno Estado de Chihuahua
930 kilocycles	322 1 mast ans	
	322.4 meters	
CHNS 500 CKIC 50	Halifax, N. S. Wolfville, N. S.	Halifax Herald, Ltd.
KFWI 500 1	San Francisco, Cal.	Acadia Academy
KFWM 500 1+	Richmond, Cal.	Radio Entertainments, Inc.
KGBZ 500 2+ KMA 500 2+	York, Nebr.	Educational Broadcasting Corp. Dr. George R. Miller
WBRC 500 +C	Shenandoah, Iowa Birmingham, Ala.	Dr. George R. Miller May Seed & Nursery Co.
WDBJ 250 $+C$	Roanoke, Va.	Diffillikham Broadcasting Co. In-
WIBG 50 D	Elkins Park, Pa.	Richardson-Wayland Elec. Corp. St. Pauls P. E. Church
940 kilocycles	319.0 meters	
KGU 1000		
KOIN 1000 C	Honolulu, Hawaii Portland, Ore.	Marion A. Mulrony
WCSH 1000 N	Portland, Maine	KOIN, Inc.
WDAY 1000 WFIW 1000 C	Fargo, N. D.	Congress Square Hotel Co. WDAY, Inc.
WF1W 1000 C WHA 750 D	Hopkinsville, Ky.	The Acme Mills, Inc.
	Madison, Wis.	University of Wisconsin
950 kilocycles	315.6 meters	
CMCB 150 952	Havana, Cuba	Jose Formander S
KFWB 1000	Hollywood, Cal.	Jose Fernandez Suviaur Warner Bros. Broadcasting Corp.
KGHL 500 KMBC 1000 C WRC 500 N	Billings, Mont.	NOTUN ESTERN AUTO SUPPLY CO Tec
WRC 500 N	Kansas City, Mo. Washington, D. C.	THE STATE OF THE CALL OF THE C
		Radio Corp. of America

ксуs. 1050

MTRS. 285.5 DIAL

INDEX	BT PREQUENCIES A	IND DIAL NUMBERS
960 kilocycles	312.3 meters	
CFCR 500 3 CFCY 250 1 CFRB 4000 2C CHCK 30 1 CHWC 500 3 CJBC 5000 2 CJBR 500 3 CKCK 500 3 CNRR 500 3 XEE 101	Regina, Sask. Charlottetown, P. E. I. Toronto, Ont. Charlottetown, P. E. I. Pilot Butte, Sask. Toronto, Ont. Regina, Sask. Regina, Sask. Regina, Sask. Pueblo, Pue.	Sydney I. Robinson The Island Radio Co. Rogers-Majestic Corp., Ltd. W. E. Burke R. H. Williams & Sons, Ltd. Jarvis St. Baptist Church Cooperative Wheat Producers, Ltd. Leader Publishing Co., Ltd. Canadian National Railways Ramon Huerta G.
970 kilocycles	309.1 meters	
KJR 5000 D XEH 1000 WCFL 1500 N	Seattle, Wash. Monterey, N. L. Chicago, Ill.	Northwest Broadcasting System, Inc. Ing. Constantino de Tarnava Chicago Federation of Labor
980 kilocycles	305.9 meters	
KDKA 50000 N	Pittsburgh, Pa.	Westinghouse Elec. & Mfg. Co.
990 kilocycles	302.8 meters	
WBZ 15000 1N WBZA 500 1N	Springfield, Mass. Boston, Mass.	Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co.
1000 kilocycles	299.8 meters	
KFVD 250 WHO 5000 IN WOC 5000 IN XEI 101	Culver City, Cal. Des Moines, Iowa Davenport, Iowa Morellia, Mexico	Los Angeles Broadcasting Co. Central Broadcasting Co. Central Broadcasting Co. Carlos Gutierrez M.
1010 kilocycles	296.8 meters	
CFLC 50 3 CKCR 50 3 CKSH 50 KGGF 500 2 KQW 500 WGTB 500 +- WHN 250 1 WNAD 500 2 WPAP 250 1 WQAO 250 1 WRNY 250 1	Prescott, Ont. Waterloo, Ont. St. Hyacinthe, Que. Picher, Okla. San Jose, Cal. Columbia, S. C. New York City Norman, Okla. New York City New York City New York City New York City	Radio Association John Patterson City of St. Hyacinthe D. L. Connell, M. D. First Baptist Church George T. Barnes, Inc. Marcus Loew Booking Agency University of Oklahoma Calvary Baptist Church Calvary Baptist Church Aviation Radio Station, Inc.
1020 kilocycles	293.9 meters	
KFKX 10000 1N KYW 10000 1N WRAX 250 D	Chicago, Ill. Chicago, Ill. Philadelphia, Pa.	Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co. Berachah Church, Inc.
1030 kilocycles	291.1 meters	
CFCF 1650 CJOR 50 1027 CMBW 50 1027 CMBZ 100 1027 CNRV 500	Montreal, Que. Sea Island, B. C. Marianao, Cuba Havana, Cuba Vancouver, B. C.	Canadian Marconi Co. G. C. Chandler Modesto Alvarez Manuel y G. Salas Canadian National Railways
1040 kilocycles	288.3 meters	
KRLD 10000 1C KTHS 10000 1N WKAR 1000 D WKEN 1000	Dallas, Texas Hot Springs, Ark. East Lansing, Mich. Buffalo, N. Y.	KRLD Radio Corp. Chamber of Commerce Michigan Agricultural College Radio Station WKEN, Inc.
1050 kilocycles	285.5 meters	
KFKB 5000 X	Milford, Kansas Hollywood, Cal.	KFKB Broadcasting Assn., Inc. Western Broadcast Co.

INDEX	BI FREQUENCIES	AND DIAL NUMBERS
1060 kilocycles	282.8 meters	
KWJJ 500 WBAL 10000 IN WJAG 1000 WTIC 50000 IN	Portland, Ore. Baltimore, Md. Norfolk, Nebr. Hartford, Conn.	Wilbur Jerman Consolidated Gas Elec. & Pwr. Co. Norfolk Daily News Travelers Broadcasting Service Corp.
1070 kilocycles	280.2 meters	
KJBS 100 D WAAT 300 D WCAZ 50 D WDZ 100 D WEAR 1000 IND WTAM 50000 1N	San Francisco, Cal. Jersey City, N. J. Carthage, Ill. Tuscola, Ill. Cleveland, Ohio Cleveland, Ohio	Julius Brunton & Sons Co. Bremer Broadcasting Corp. Carthage College James L. Bush WTAM and WEAR, Inc. WTAM and WEAR, Inc.
1080 kilocycles	277.6 meters	
WBT 5000 N WCBD 5000 1 WMBI 5000 1	Charlotte, N. C. Zion, III. Chicago, III.	Station WBT, Inc. Wilbur Glenn Voliva Moody Bible Institute
1090 kilocycles	275.1 meters	
KFQA 5000 1S KMOX 5000 1C	St. Louis, Mo. St. Louis, Mo.	Voice of St. Louis, Inc. Voice of St. Louis, Inc.
1100 kilocycles	272.6 meters	
CMCE 100 1098 KGDM 250 D	Havana, Cuba Stockton, Cal.	Julio E. Power E. F. Peffer
WLWL 5000 1 WPG 5000 1	New York City Atlantic City, N. J.	Missionary Society of St. Paul Municipality of Atlantic City
1110 kilocycles	270.1 meters	
KSOO 2000 WRVA 5000 N	Sioux Falls, S. D. Richmond, Va.	Sioux Falls Broacasting Assn., Inc. Larus & Bros, Co., Inc.
1120 kilocycles	267.7 meters	
CFJC 15 CFRC 500 CFRC 500 CFRC 500 CJOC 50 CKPR 50 KFSG 500 3 KMIC 500 3 KRSC 50 D KTRH 500 2 WDBO 500 + WDBL 250 + WHAD 250 1 WISN 250 1C WTAW 500 2	Kamloops, B. C. Kingston, Ont. Summerside, P. E. I. Lethbridge, Alta. Midland, Ont. Los Angeles, Cal. Inglewood, Cal. Seattle, Wash. Austin, Texas Orlando, Fla. Wilmington, Del. Milwaukee, Wis. Milwaukee, Wis. College Station, Texas Rayne, La.	N. S. Dalgleish & Sons Queen's University R. T. Holman, Ltd. Harold R. Carson Midland Broadcasting Corp. Echo Park Evag. Assn. Dalton's, Inc. Radio Sales Corp. KUT Broadcasting Co. Orlando Broadcasting Co., Inc. WDEL, Inc. Marquette University Evening Wisconsin Co. Agricultural & Mech. College Ber, Killmer & Bailey
1130 kilocycles	265.3 meters	
KSL 5000 N WJJD 20000 WOV 1000 D XEF 105	Salt Lake City Mooseheart, Ill. New York City Oaxaca, Oax.	Radio Service Corp. of Utah Loyal Order of Moose International Broadcasting Corp. Federico Zorrila
1140 kilocycles	263.0 meters	
KVOO 5000 1N WAPI 5000 1N	Tulsa, Okla. Birmingham, Ala.	Southwestern Sales Corp. Alabama Polytechnic Institute
1150 kilocycles	260.7 meters	
CMHA 200 1154 WHAM 5000 N	Cienfuegos, Cuba Rochester, N. Y.	Jose Ganduxe Stromberg-Carlson Tel. Mfg. Co.

1200 kilocycles 249.9 meters

5000

Paragould, Ark. Gunnison, Colo. **KBTM** 100 **CPD** KFHA KFJB KFWF 50 100 Marshalltown, Iowa Marshalitown, Iowa St. Louis, Mo. Fergus Falls, Minn. Oldham, S. D. Yuma, Colo. Fort Morgan, Colo. Los Angeles, Cal. 5 100 KGDE KGDY KGEK KGEW KGFJ KGFK + 100 15 ğ 50 9 100 100 Hallock, Minn.
Little Rock, Ark.
Lacey, Wash.
Santa Maria, Cal.
Bellingham, Wash. 50 KGHI KGY KSMR KVOS KWG KXO WABI 100 ---10 ---100 ---100 Stockton, Cal.
El Centro, Cal.
Bangor, Maine
New Orleans, La.
Charleston, S. C.
Ponca City, Okla.
Rapid City, S. D.
Burlington, Vt. 100 ---100 100 WABI WABZ WBBY WBBZ WCAT WCAX WCLO WCOD WFBC i 100 75 100 100 2--Burlington, Vi Kenosha, Wis. 100 100 3 Harrisburg, Pa. Knoxville, Tenn. Cincinnati, Ohio 100 50 ---WFBE WHBC WHBY 100 100 45 Canton, Ohio Green Bay, Wis. Utica, N. Y. + 5+ Utica, N. Y.
St. Louis, Mo.
La Salle, Ill.
Decarded WIBX 100 WIL WJBC WJBL WJBW WKJC WLAP WLBG 100 100 100 30 New Orica. Lancaster, Pa. Louisville, Ky. New Orleans, La. 100 30 D+ Petersburg, Va St. Louis, Mo. 100 WLBG WMAY WNBO WNBW WNBX WORC WRAF WRBL WWAB 100 5+ Washington, Pa. Carbondale, Pa. Springfield, Vt. Worcester, Mass. La Porte, Ind. 100 2--10 10 100 100 Columbus, Ga. Hammond, Ind. 50 8--100 XBA Guadalajara, Jal. 101 250 C. Lerdo Dgo.

W. J. Beard's Temple of Music Western College of Colorado Marshall Electric Co., Inc. St. Louis Truth Center, Inc. Jaren Drug Co. J. Albert Loesch and George W. Wright Beehler Elec, Equipment Co. City of Fort Morgan Ben S. McGlashan Lautzenheiser & Mitchell Berean Bible Class St. Martin's College Santa Maria Valley R. R. Co. KVOS, Inc.
Portable Wireless Tel. Co., Inc.
E. R. Irey and F. M. Bowles
First Universalist Church Coliseum Place Baptist Church Washington Light Infantry C. L. Carrell State School of Mines University of Vermont C. B. Whitmore Norman R. Hoffman First Baptist Church WFBE, Inc. St. John's Catholic Church St. Norbert's College WIBX, Inc. Missouri Broadcasting Corp. Hummer Furniture Co. Commodore Broadcasting, Inc. Charles C. Carlson, Jr. Kirk Johnson & Co. American Broadcasting Corp. of Ky. Robert Allen Gamble Kingshighway Presbyterian Church John Brownlee Spriggs Home Cut Glass & China Co. First Congregational Church Alfred Frank Kleindienst The Radio Club, Inc. David Parmer Hammond-Calumet Broadcasting Corp. Alberto Palos Sauza Cerveceria de Durango, S. A.

CCT OUT ON DOTTED LINE

KCYS.

1200

MTRS.

DIAL

249.9

1210 1:10	ovolos	247 8	
	cycles	247.8 meters	
CFCO 100 CFNB 50		Chatham, Ont. Fredericton, N. B.	Western Ontario. "Better Radio" Club James S. Neill & Sons, Ltd.
CHWK 5 CKMC 15		Chilliwack, B. C. Cobalt, Ont.	CHIMWACK DIVACESTING LA. 14d.
CKPC 25		Preston, Ont.	Wallace Russ
KDFN 100 KDLR 100	8	Preston, Ont. Casper, Wyo. Devils Lake, N. D.	Donald Lewis Hathaway
KFOR 100 KFVS 100	6	Lincoln, Nebr.	Radio Electric Co. Howard A. Shuman
KFXM 100	9	Cape Girardeau, Mo. San Bernardino, Calif.	Hirsch Rettery & Radio Co
KGCR 100 KGCU 100	8	Watertown, S. D. Mandan, N. D.	J. C. & E. W. Lee Cutler's Radio Brdcstg. Service, Inc.
KMJ 100	Ž	Fresno, Cal.	James McClatchy Co
KPPC 50	9 7	Seattle, Wash. Pasadena, Cal.	Wescoast Broadcasting Co. Pasadena Presbyterian Church
KPQ 50 KWEA 100		Wenatchee, Wash.	Westcoast Broadcasting Co.
WBAX 100	1	Shreveport, La. Wilkes-Barre, Pa.	William E. Antony John H. Stenger, Jr.
WCBS 100 WCOH 100	3	Springfield, Ill. Yonkers, N. Y.	John H. Stenger, Jr. H. L. Dewing & Chas, Messter Westchester Broadcasting Corp. Clinton P. White
WCRW 100 WDWF 100	4 5	Cnicago, III.	Clinton R. White Dutee W. Flint
WEBE 100	6	Providence, R. I. Cambridge, Ohio	Dutee W. Flint Roy W. Waller
WEBQ 100 WEDC 100	6 4	Harrisburg, Ill. Chicago, Ill.	First Trust & Savings Bank
WGBB 100	3	Freeport, N. Y.	Emil Denemark, Inc. Harry H. Carman
WGCM 100 WHBF 100		Gulfport, Miss. Rock Island, III.	Great Southern Land Co., Inc. Beardsley Specialty Co.
WHBU 100 WIBA 100	442	Anderson, Ind.	Citizens Bank
WJBI 100	3	Madison, Wis. Red Bank, N. J.	Capital Times Robert S. Johnson
WJBU 100 WJBY 50	1	Lewisburg, Pa. Gadsden, Ala.	Robert S. Johnson Bucknell University
WJW_ 100		Mansfield, Ohio	Gadsden Broadcasting Co., Inc. Mansfield Broadcasting Assn.
WLCI 50 WLSI 100	5	Ithaca, N. Y. Providence, R. I.	The Lincoln Studies Inc
WMAN 50 WMBG 100		Columbus, Ohio Richmond, Va.	W. E. Heskett
WOCL 25		Jamestown, N. Y.	Havens & Martin, Inc. A. E. Newton
WOMT 100 WPAW 100	5	Manitowoc, Wis. Pawtucket, R. I.	Francis M. Kadow
WRBQ 100	\mathbf{x}_{+}	Greenville, Miss. Gastonia, N. C.	Shartenburg & Robinson Co. J. Pat Scully
WSBC 100	4	Chicago, III.	A. J. Kirby Music Co. World Battery Co., Inc.
WSIX 100 WTAX 50	2	Springfield, Tenn. Streator, Ill.	538 Tire & Vulcanizing Co.
	_	3013401, 111.	Williams Hardware Co.
1220 kilo	cycles	245.8 meters	
KFKU 1000	1		University of Kansas
KWSC 500 WCAD 500	$_{\mathbf{D}}^{\mathbf{X}+}$	Lawrence, Kans. Pullman, Wash. Canton, N. Y.	State College of Washington
WCAE 500	XN	Pittsburgh, Pa.	St. Lawrence University Gimbel Bros.
WDAE 1000 WREN 1000	ĪÑ	Tampa, Fla. Lawrence, Kans.	Tampa Publishing Co. Jenny Wren Co.
2000	\	Dawrence, Italia.	Jeinly Wren Co.
1230 kilo	cvcles	243.8 meters	
	D		Sankara D
KFOD 100		Spokane, Wash. Anchorage, Alaska	Spokane Broadcasting Corp. Anchorage Radio Club
KGĞM 250 KYA 1000	+	Albuquerque, N. Mex. San Francisco, Calif.	New Mexico Broadcasting Co.
WBIS 1000	2	Boston, Mass.	Pacific Broadcasting Corp. Shepard-Norwell Co.
WFBM 1000 WNAC 1000	1C 2C	Indianapolis, Ind. Boston, Mass.	Indianpolis Power & Light Co. Shepard-Norwell Co.
WPSC 500 WSBT 500	D	State College, Pa.	Pennsylvania State College
M 2D1 200	1	South Bend, Ind.	South Bend Tribune
1240 kiloo	ovoles	241.8 meters	, i
KSAT 1000 WACO 1000	1	Ft. Worth, Texas Waco, Texas	S. A. T. Flying Service, Inc. Frank P. Jackson
WSPD 500	C+	Toledo, Ohio	Toledo Broadcasting Co.

KCYS. 1310

MTRS.

DIAL

228.9

Jas. McClatchy Co.

C. S. Tunwall C. C. Baxter

Boone Biblical College

The New Furniture Co.

Alaska Electric Light & Power Co.

228.9 meters

Sacramento, Cal.

Ft. Dodge, Iowa Dublin, Texas Greenville, Texas

Juneau, Alaska

Boone, Iowa

100

100

100 100

15

10

777

KFBK

KFGQ KFJY KFPL KFPM

KFUI

	_		DI III QUENCIES	THIS DIAL HOMBERS
KFUP	100	8 8	Denver, Colo.	Fitzsimmons General Hospital
KFXJ KFXR	50	8	Edgewater, Colo.	R. G. Howell
KFXR	100	\mathbf{X} +	Oklahoma City	Exchange Ave. Baptist Church Foster-Hall Tire Co.
KGBX KGCX	100 100	+	St. Joseph, Mo. Wolf Point, Mont.	Foster-Hall Tire Co.
KGEZ	100		Kalispell, Mont.	First State Bank of Vida
KGFW	50	X CP CP	Ravenna, Neb.	Chamber of Commerce Otto F. Sothman and Roy H. McConnell
KGHG	50	CP	McGehee, Ark.	Chas. W. McCollum
KGMC	100	CP	Jerome, Ariz. Yakima, Wash.	Charles C. Robinson
KIT	100		Yakima, Wash.	Carl E. Haymond
KMED KRMD	50 50	9	Medford, Ore.	Mrs. W. J. Virgin Robert M. Dean
KTSL	100	9	Shreveport, La. Shreveport, La.	Robert M. Dean
KTSM	100	9 2	El Paso, Texas	Houseman Sheet Metal Works, Inc. W. S. Bledsoe & W. T. Blackwell
KWCR	100	7	Cedar Rapids, Iowa	Harry F. Paar
KXRO	75	4	Aberdeen, Wash.	KXRO, Inc.
WAGM	50		Royal Oak, Mich.	KXRO, Inc. Robert L. Miller
WBOW WBRE	100		Terre Haute, Ind.	banks of wabash, Inc.
WCLS	100 100	1	Wilkes-Barre, Pa. Joliet, Ill.	Louis G. Baltimore
WDAH	100	2	El Paso, Texas	WCLS, Inc.
WEBR	100	+ 3	Buffalo, N. Y.	Trinity Methodist Church Howell Broadcasting Co., Inc.
WFBG	100	3	Altoona, Pa.	Wm. F. Gable Co.
WFDF	100		Flint, Mich.	Frank D. Fallain
WFKD	50	4 5	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WGAL WGH	15	5	Lancaster, Pa.	wGAL, Inc.
WHAT	100 100	4X	Newport News, Va.	Virginia Broadcasting Co., Inc. Albert A. Walker
WIBU	100		Philadelphia, Pa. Poynette, Wis.	William C. Forrest
WJAC	100	3	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	100 50	6	Marion, Ind.	Marion Broadcasting Co.
WKAV	100	- - +	Laconia, N. H.	Laconia Radio Club
WKBB	100	1	Joliet, III.	Sanders Bros.
WKBC WKBS	100		Birmingham, Ala.	R. B. Broyles Furniture Co.
WLBC	100 50	6	Galesburg, Ill.	Permil N. Nelson
WMBO	100		Muncie, Ind. Auburn, N. Y.	Donald A. Burton
WNBH	100		New Bedford, Mass.	Radio Service Laboratories New Bedford Broadcasting Co.
WNBJ	50		Knoxville, Tenn.	Lonsdale Baptist Church
WOBT	100	+	Union City, Tenn.	Tittsworth's Radio & Music Shop
WOL	100	5	Washington, D. C.	American Broadcasting Co.
WRAW	100		Reading, Pa.	Avenue Radio & Electric Shop
WRBI WRK	20 100	7.7.7	Tifton, Ga.	Kent's Furniture and Music Store
WSAJ	100		Hamilton, Ohio Grove City, Pa.	Hamilton Radio Service
WSJŠ	100	ĈP	Winston-Salem, N. C.	Grove City College Winston-Salem Journal Co.
				Whiston-Salem Journal Co.
1320	kilocy	voles	227.1 meters	
1020	KIIOU	CICG	DDI .I IIICCCIS	
KGHB	500		Honolulu, Hawaii	Honolulu Broadcasting Co., Ltd.
KGHF	250	X +	Pueblo, Colo.	C. P. Ritchie & J. E. Finch
KGIQ	250	1	Twin Falls, Idaho Honolulu, Hawaii	Radio Broadcasting Corp.
KGMB	500	CP	Honolulu, Hawaii	Honolulu Broadcasting Co., Ltd.
KID WADC	250	IX+	Idaho Falls, Idaho	Jack W. Duckworth, Jr.
WSMB	1000 500	C	Akron, Ohio New Orleans, La	Allen T. Simmons Saenger Theatre & Maison Blanche Co.
WSWIE	000		New Officialis, Day	Sacriger Theatre & Maison Blanche Co.
1330	kilocy	cles	225.4 meters	
KGB	250		Sam Diago Cal	Districts Broadcasting Com-
KSCJ	1000	iC+X	San Diego, Cal.	Pickwick Broadcasting Corp.
WDRC	500		New Haven, Conn.	Perkins Bros. Co. Doolittle Radio Corp.
WSAI	500	N	Cincinnati, Ohio	Crosley Radio Corp., Lessee
WTAQ	1000	1	Eau Claire, Wis.	Gillette Rubber Co.
		-		
1340	kilocy	cles	223.7 meters	
KFPW	50	D	Carterville, Mo.	Rev. Lannie W. Stewart
KFPY	1000	CX	Spokane, Wash.	Symons Broadcasting Co.
WCOA	500		Pensacola, Fla.	City of Pensacola
WGHP	75 0	C	Detroit, Mich.	American Broadcasting Corp.
1250	1_11 _ =	1	222 1	
1350	кносу	cies	222.1 meters	
KWK	1000	N	St. Louis, Mo.	Greater St. Louis Broadcasting Corp.
WBNY	250	1	New York City	Baruchrome Corp.
WCDA	250	1	New York City	Italian Educ. Broadcasting Co., Inc.
WKBQ WMSG	250 250	1	New York City	Standard Cahill Co., Inc.
44 14120	200	4	New York City	Madison Square Garden Brdcstg. Corp.

1360 kilocycles 220.4 meters

C. Merwin Dobyns
KGIR, Inc.
Pasadena Star-News
The Onondaga Co., Inc.
Oak Leaves Broadcasting Station, Inc.
Johnson-Kennedy Radio Corp.
Delta Broadcasting Co.

1370 kilocycles 218.7 meters

KCRC	100	2+	Enid, Okla.
KFBL	50	2+	Everett, Wash.
KFJI	100		Astoria, Ore.
KFJM	100		Grand Forks, N. D.
KETZ	100		
KFJZ KFLX	100		Ft. Worth, Texas Galveston, Texas
KGAR	100	<u> </u>	Tucson, Ariz.
KGCI	100	+	San Antonio Texas
	50	0	San Antonio, Texas Dell Rapids, S. D.
KGDA KGFG	100	2	Oklahoma City
	50	2	Raton, N. M.
KGFL			San Angelo, Texas
KGKL	100	5+	San Antonio, Texas
KGRC	100	5	
KLO	100	+	Ogden, Utah
KOH	100		Reno, Nevada
Koos	100		Marshfield, Ore.
KRE	100	6	Berkeley, Cal. Seattle, Wash.
KVL	100	3	Seattle, wash.
KWKC	100	4	Kansas City, Mo.
KZM	100		Haywood, Cal.
WBBL	100	-,	Richmond, Va.
WCBM	100	+	Baltimore, Md.
WEHC	100		Emory, Va.
WELK	100		Philadelphia, Pa.
WFBJ	100		Collegeville, Minn.
WFDV	100	CP	Rome, Ga.
WGL	100		Fort Wayne, Ind.
WHBD	100		Mount Orab, Ohio
WHBQ	100		Memphis, Tenn.
WHDF	100	+X	Calumet, Mich.
WIBM	100	1	Jackson, Mich.
WJBK	50	1	Ypsilanti, Mich.
WLEY	100		Lexington, Mass.
WMBR	100		Tampa, Fla.
WPOE	100		Patchogue, N. Y.
WODM	5	CP	St. Albans, Vt.
WRAK	50		Erie, Pa.
WRBJ	10		Hattiesburg, Miss.
WRBT	100		Wilmington, N. C.
WRJN	100		Racine, Wis.
WSVS	50		Buffalo, N. Y.
The same	100	CP7	Danville, Va.
	100	CP7	Lynchburg, Va.

Champlin Refining Co. Leese Bros. KFJI Broadcasters, Inc. University of North Dakota H. C. Meacham George Roy Clough Tucson Motor Service Co. Liberto Radio Sales Co. Home Auto Co.
Faith Tabernacle Assn.
W. E. Whitmore
KGKL, Inc., Opr. by Ragsdale Auto
Eugene J. Roth Jay Peters
H. H. Hanseth
First Congregational Church Arthur C. Dailey Wilson Duncan Broadcasting Co. Leon P. Tenney Grace Covenant Presbyterian Church Baltimore Broadcasting Corp. Emory & Henry College Howard R. Miller St. John's University Dolies Goings Fred C. Zieg F. P. Moler Broadcasting Station WHBQ, Inc.
Upper Michigan Broadcasting Co.
C. L. Carrell
James F. Hopkins Lexington Air Stations F. J. Reynolds Nassau Broadcasting Corp. A. J. St. Antoine C. R. Cummins Woodruff Furniture Co., Inc. Wilmington Radio Association Racine Broadcasting Corp. Seneca Vocational School L. H., R. H. and A. S. Clarke Edw. A. and Philip P. Allen

1380 kilocycles 217.3 meters

KQV	500	2	Pittsburgh, Pa.
KSO	500	1	Clarinda, Iowa
WKBH	1000	1	La Crosse, Wis
WSMK	200	2	Dayton, Ohio

Doubleday-Hill Electric Co. Berry Seed Co. Callaway Music Co. Stanley M. Krohn, Jr.

1390 kilocycles 215.7 meters

KLRA	1000	1C	Little Rock, Ark.
KUOA	500 1000	į	Phoenix, Ariz. Fayetteville, Ark.
WHK	1000	CX	Cleveland, Ohio

Arkansas Broadcasting Co. Nielson Radio & Sporting Goods Co. University of Arkansas Radio Air Service Corp. 1390 MTRS. 215.7

DIAL

CUT OUT ON DOTTED LINES

11	NDEX	BY FREQUENCIES A	AND DIAL NUMBERS
1400 kilocy	cles	214.2 meters	
KOCW 250 WBAA 500	+	Chickasha, Okla.	College for Women
WBBC 500	2	Lafayette, Ind. Brooklyn, N. Y.	Purdue University Brooklyn Broadcasting Corp.
WCGU 500	2	Coney Island, N. Y. Culver, Ind.	U. S. Broadcasting Corp.
WCMA 500 WKBF 500	1 1	Indianapolis, Ind.	Culver Military Academy
WLTH 500	2	Brooklyn, N. Y.	Indianapolis Broadcasting, Inc. The Voice of Brooklyn, Inc.
WSGH 500		Brooklyn, N. Y.	Amateur Radio Specialty Co.
1410 kilocy	cles	212.6 meters	
KFLV 500 KGRS 1000	4	Rockford, Ill.	Rockford Broadcasters, Inc.
WBCM 500	1	Amarillo, Texas Bay City, Mich.	Gish Radio Service James E. Davidson
WDAG 250	1	Amarillo, Texas	National Radio & Broadcasting Corp.
WHBL 500 WLEX 500	4 2	Sheboygan, Wis. Lexington, Mass.	Press Pub. Co. & C. L. Carrell
WMAF 500	2 2	S. Dartmouth, Mass.	Lexington Air Stations Round Hills Radio Corp.
WODX 500 WSFA 500	3 3CP	Mobile, Ala.	Mobile Broadcasting Corp.
WSSH 500	2	Montgomery, Ala. Boston, Mass.	Montgomery Broadcasting Corp. Tremont Temple Baptist Church
1.420.1.1			Tremont Temple Daptist Chartin
1420 kilocy		211.1 meters	
KFIF 100 KFIZ 100	4	Portland, Ore. Fond du Lac, Wis.	Benson Polytechnic Institute
KFQU 100	5	Holy City, Cal.	Reporter Printing Co. W. E. Riker
KFQW 100 KFXD 50		Seattle, Wash	KFQW, Inc.
KFXY 100		Jerome, Idaho Flagstaff, Ariz.	Service Radio Co. Mary M. Costigan
KFXY 100 KFYO 100	+	Abilene, Texas	T. E. Kirksev
KGFF 100 KGGC 50	5	Alva, Okla. San Francisco, Cal.	KGFF Broadcasting Co. Golden Gate Broadcasting Co.
KGIW 100	222	Trinidad, Colo.	Leonard E. Wilson
KGIX 100 KGKX 100	CP	Las Vegas, Nevada	Las Vegas, Nevada, Radio Corp. C. E. Twiss and F. H. McCann
KICK 100		Sand Point, Idaho Red Oak, Iowa	Red Oak Radio Corp.
KLPM 100		Minot, North Dakota	E. C. Reineke
KORE 100 KTAP 100		Eugene, Ore. San Antonio, Texas	Eugene Broadcasting Station
KTUE 100	X	Houston, Texas	Alamo Broadcasting Co. Uhalt Electric
KXL 100 WEDH 30	4	Portland, Ore.	KXL Broadcasters, Inc.
WEHS 100	2	Erie, Pa. Evanston, III.	Erie Dispatch-Herald Victor C. Carlson
WFDW 100	CP	Talledega, Ala.	Raymond G. Hammett
WHDL 10 WHFC 100	2	Tupper Lake, N. Y. Cicero, Ill.	George Franklin Bissell
WHIS 100		Bluefield, W. Va.	Triangle Broadcasters Daily Telegraph
WIAS 100 WIBR 50	1	Ottumwa, Iowa	Poling Electric Co.
WILM 100		Steubenville, Ohio Wilmington, Del.	George W. Robinson Delaware Broadcasting Co., Inc.
WJBO 100 WKBI 50	2	New Orleans, La.	Valdemar Jensen
WKBI 50 WKBP 50	<i>L</i>	Chicago, Ill. Battle Creek, Mich.	Fred L. Schoenwolf Enquirer-News Co.
WLBF 100		Kansas City, Kas.	WLBF Broadcasting Co.
WMBC 100 WMBH 100	\mathbf{X} +	Detroit, Mich. Joplin, Mo.	Michigan Broadcasting Co., Inc.
WMRJ 10	+	Jamaica, N. Y.	Edwin Dudley Aber Peter J. Prinz
WQBZ 60 WTBO 50	1 X	Jamaica, N. Y. Weirton, W. Va.	Peter J. Prinz J. H. Thomson
		Cumberland, Md.	Associated Broadcasting Corp.
1430 kilocy	cles	209.7 meters	
KECA 1000	N	Los Angeles, Calif.	Earle C. Anthony, Inc.
WBAK 500 WBRL 500	1	Harrisburg, Pa. Tilton, N. H.	Penna. State Police Booth Radio Laboratories
WCAH 500	ĨĈ.	Columbus, Ohio	Commercial Radio Service Co.
WGBC 500 WHP 500	2 1C	Memphis, Tenn.	First Baptist Church
WNBR 500	2	Harrisburg, Pa. Memphis, Tenn.	Pennsylvania Broadcasting Co. John Ülrich
1440 kilocy	cles	208.2 meters	
_			Warran Brass
KLS 250 WCBA 250	D 1	Oakland, Cal. Allentown, Pa.	Warner Bros. B. B. Musselman
WHEC 500	2C	Rochester, N. Y.	Hickson Electric Co.

WMBD 500 3+ WNRC 500 WOKO 500 2 WSAN 250 1 WTAD 500 3	Peoria Heights, Ill. Greensboro, N. C. Poughkeepsie, N. Y. Allentown, Pa. Quincy, Ill.	Peoria Heights Radio Laboratory Wayne M. Nelson Hudson Valley Broadcasting Co. Allentown Call Publishing Co., Inc. Ills. Stock Medicine Broadcasting Co.	
1450 kilocycles	206.8 meters]
KTBS 1000 WBMS 250 1 WCSO 500 2 WFJC 500 2N WIBS 250 1 WKBO 250 1 WKBO 250 1 WSAR 250 1 WSAR 250	Shreveport, La. Hackensack, N. J. Springfield, Ohio Akron, Ohio Jersey City, N. J. Jersey City, N. J. Newark, N. J. Fall River, Mass. Toccoa, Ga.	Elliott & Steere WBMS Broadcasting Corp. Wittenberg, College W. F. Jones Broadcast, Inc. New Jersey Broadcasting Corp. Camith Corp. Radio Investment Co. Doughty & Welch Electric Co., Inc. Toccoa Falls Institute	
1460 kilocycles	205.4 meters].
KSTP 10000 N WJSV 10000	St. Paul, Minn. Mt. Vernon Hills, Va.	National Battery Broadcasting Co. Independent Publishing Co.	
1470 kilocycles	204.0 meters]
KGA 5000 1C WINT 5000 1	Spokane, Wash. Nashville, Tenn. Nashville, Tenn.	Northwest Broadcasting System, Inc. Life & Casualty Insurance Co. Tennessee Publishing Co.	
1480 kilocycles	202.6 meters]
KFJF 5000 C WKBW 5000 C	Oklahoma City Buffalo, N. Y.	National Radio Mfg. Co. Churchill Evangelistic Assn., Inc.	
1490 kilocycles	201.2 meters]
KPWF 5000 CP WCKY 5000 1N WJAZ 5000 1 WORD 5000 1 WSOA 5000 1	Westminster, Cal. Covington, Ky. Chicago, Ill. Chicago, Ill. Chicago, Ill.	Pacific Western Broadcasting Fed. L. B. Wilson, Inc. Zenith Radio Corp. People's Pulpit Association Radiophone Broadcasting Corp.	
1500 kilocycles	199.9 meters		
KDB 100 KGFI 100 KGKB 100 KGKY 100 CP KGMD 100 CP KPJM 100 KREG 100 KTLC 100 X KUJ 10 3X KUT 100 CP	Santa Barbara, Cal. Corpus Christi, Texas Brownwood, Texas Scottsbluff, Nebr. Roswell, N. M. Prescott, Ariz. Santa Ana, Calif. Houston, Texas Longview, Wash. Austin, Texas	Santa Barbara Broadcasting Co. Eagle Broadcasting Co., Inc. Eagle Publishing Co. Hilliard Co., Inc. Dispatch Publishing Co. Miller & Klahn Pacific Western Broadcasting Houston Broadcasting Co. Columbia Broadcasting Co., Inc. Rice Hotel Schaeffer Radio Co.	u#
KVEP 15 3 WCLB 100 1 WKBV 100 + WKBZ 50 WLBX 100 1 WLOE 100 2	Portland, Ore. Brooklyn, N. Y. Connersville, Ind. Ludington, Mich. Long Island City, N. Y. Boston, Mass.	Arthur Faske Knox Battery & Electric Co. K. L. Ashbacker John N. Brahy Boston Broadcasting Co.	
WMBJ 100 WMBJ 100 WMBQ 100 1	Newport, R. I. Wilkinsburg, Pa. Brooklyn, N. Y.	LeRoy Joseph Beebe Rev. J. W. Sproul Paul J. Gollhofer	KCYS.
WMES 50 2 WMPC 100	Boston, Mass. Lapeer, Mich.	First M. E. Church	1500
WNBF 100	Binghamton, N. Y. Bristol, Tenn.	Wilson Radiophone Service Co.	MTRS. 199.9
WPEN 100 + WWRL 100 1	Philadelphia, Pa. Woodside, N. Y.	Wm. Penn Broadcasting Co. Long Island Broadcasting Corp.	DIAL
The second secon	r 40 1		

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ALABAMA				Santa Ana K-4	100	KREG	1500
Birmingham K-19-a	5000	WAPI	1140	Santa Barbara J-3	100	KDB	1500
	500	WBRC.	930	Santa Maria J-2-b	100	KSMR	1200
0 1 1 17 00	100	WKBC	1310	Stockton H-2-b	250	KGDM	1100
Gadsden K-20-a	50	WJBY	1210	Westminster	100	KWG	1200
Mobile L-19 Montgomery K-19	500 500	WODX WSFA	1410	-	5000	KPWF	1490
Talladega K-20	100	WFDW	1410 1420	CANAL ZONE)	
ALASKA				Balboa	750	NBA	850
Anchorage	100	KFOD	1230	COLORADO			
Juneau		KFUI	1310	Colo. Springs H-10	1000	77 TO 0 4	
Ketchikan		KGBU	900	Denver G-10-b	1000 500	KFUM KFEL	1270
4 5 1 5 0 5 1 4					100	KFUP	920 1310
ARIZONA					500	KFXF	920
Flagstaff J-7	100	KFXY	1420		1000	KLZ	560
Jerome J-7	100	KGMC	1310		12500	KOA_	830
Phoenix K-7		KOY_	1390	Edgewater G-10	500	KPOF	880
Prescott J-6		KTAR	620	Fort Morgan G-11	50 100	KFX J KGEW	1310
Tucson L-7		KPJM KGAR	1500 1370	Greeley F-10	500	KFKA	1200 880
accor B		KVOA	1260	Gunnison H-9	50	KFHA	1200
ARKANSAS	500		1200	Pueblo H-11	250	KGHF	1320
Blytheville I-18	En	IZI CN	4400	Trinidad H-10	100	KGIW	1420
Fayetteville I-16		KLCN KUOA	1290	Yuma G-11	50	KGEK	1200
Hot Springs J-16		KTHS	1390 1040	CONNECTICUT			
Little Rock J-17		KGHI	1200				
		KGJF	890	Bridgeport F-26	500	WICC	1190
		KLRA	1390	Hartford E-26-d New Haven F-26-b	50000	WTIC	1060
	500		1250	Storrs	500	WDRC	1330
McGehee K-17		KGHG	1310	J Ground	250	WCAC	600
Paragould I-17	100	KBTM	1200	DELAWARE			
CALIFORNIA							
	100	TABLE .		Wilmington G-25	250	WDEL	1120
Berkeley H-1-a Burbank J-4		KRE KELW	1370		100	WILM	1420
Culver City K-3		KFVD	780 1000	DISTRICT OF CO	T TIME	OT A	
El Centro K-5		KXO	1200				
Fresno I-3		KMJ	1210	Washington G-24-c	250	WMAL	630
Hayward H-2		KZM	1370		500	WRC	950
Hollywood K-3		KFWB	950	FLORIDA	100	WOL	1310
		KMTR	570				,
Holy City I-2		KNX KFOU	1050 1420	Clearwater N-21 Gainesville M-21	1000	WFLA	620
Inglewood K-4		KMIC	1120	Jacksonville M-22	5000	WRUF	830
Long Beach K-4-a		KFOX	1250	Miami O-23	1000 1000	WJAX* WQAM	900
		KGER	1360	Miami Beach O-23	1000	WIOD	560 1300
Los Angeles K-3-b		KECA	1430	Orlando N-22	500	WDBO	1120
		KEJK	710	Pensacola L-19	500	WCOA	1340
		KFI KFO7	640 850	St. Petersburg N-21	1000	WSUN	620
		KFQZ KFSG	1120	Tampa N-22-b	1000	WDAE	1220
		KGEF	1300	GEORGIA	100	WMBR	1370
		KGFJ	1200		4		
		KHJ -	900	Atlanta K-20-a	250	WGST	890
		KTM	780	Columbus K-20	5000	WSB	740
N-1-1		KTBI	1300	Macon K-21	50 250	WRBL	1200
Dakland H-1-b	7500 1 250 1	KGO KLS	790	Rome J-20	100	WFDV	890
		KLX	1440 880	Savannah K-22	500	WTOC	1370 1260
	1000	KTAB	560	Tifton L-21	20	WRBI	1310
Pasadena J-4		KPPC:	1210	Toccoa J-21	250	WTFI	1450
		KPSN	1360				
Richmond I-1	500	KFWM	930	HAWAII			
Sacramento H-2-a	100	KFBK	1310	Honolulu	500	KGHB	1320
San Bernardino J-3	100	KFXM	1210		500	KGMB	1320
San Diego K-4-b		KFSD KGB	600 1330		500	KGU	940
San Francisco H-1-c	1000	KFRC	610	IDAHO			130
	500	KFWI	930	Boise D-4	1000	KIDO	1250
	50	KGGC ·	1420	Idaho Falls D-7	250	KID	1320
		KJBS	1070	Jerome E-5	50	KFXD	1420
		KPO	680	Pocatello E-7	250	KSEI	900
San Jose J-2		KYA	1230	Sand Point A-4	100	KGKX	1420
	1	KQW:	1010	Twin Falls E-5	250	KGIQ	1320

ILLINOIS			Ottumwa F-17	100	WIAS	1420
Carthage F-17-e	50 WCAZ	1070	Red Oak F-15 Shenanhoah F-15-c	100 500	KICK KFNF	1420 890
Chicago E-19-g	10000 KFKX 10000 KYW.	1020 1020	Sioux City E-15	500 1000	KMA KSCJ	930 1330
	500 WAAF 25000 WBBM	920 770	Waterloo F-17	500	WMŤ	600
	1000 WCFL	970	KANSAS			
	100 WCRW 100 WEDC	1210 1210	Gueda Springs	250		680
	50000 WENR 500 WGES	870 1360	Kansas Čity G-15	100 1000	WLBF KFKU	1420 1220
	25000 WGN	720	Lawrence G-15-a	1000	WREN	1220
	1000 WIBO 5000 WJAZ	560 1490	Manhattan G-14-a Milford G-14	500 5000	KSAC KFKB	580 1050
	25000 WJBT 50 WKBI	770 1420	Topeka G-14 Wichita H-14-a	500 1000	WIBW	580 1300
	5000 WLS	870	Wichita H-14-a	1000	KFH	1300
	5000 WMAQ 5000 WMBI	670 1080	KENTUCKY			
	5000 WORD 500 WPCC	1490 560	Covington G-20	5000	WCKY	1490
	100 WSBC	1210	Hopkinsville I-19 Louisville H-20	1000 10000	WFIW WHAS	940 820
Cicero E-19	5000 WSOA 100 WHFC	1490 1420	200.51	30	WLAP	1200
Decatur G-18 Evanston E-19	100 WJBL 100 WEHS	1200 1420	LOUISIANA			
Galesburg F-18-a	100 WKBS	1310	New Orleans M-17	100	WABZ	1200
Harrisburg H-18-b Joliet E-19-f	100 WEBQ 100 WCLS	1210 1310		1000 100	WDSU WJBO	1250 1420
La Salle F-18-d	100 WKBB	1310 1200		30	WJBW	1200
Mooseheart E-18-e	20000 WJJD	1130		500 5000	WSMB WWL	1320 850
Peoria Heights G-18 Quincy G-17	500 WMBD 500 WTAD	1440 1440	Rayne M-17 Shreveport K-16	150 50	KRMD	1120 1310
Rockford E-18-c	500 KFLV	1410	Shreveport K-10	1000	KTBS	1450
Rock Island F-17-c Springfield G-18	100 WHBF 100 WCBS	1210 1210		100 100	KTSL KWEA	1310 1210
Streator F-18-c Tuscola G-19-b	50 WTAX 100 WDZ	1210 1070	o continues.	10000	KWKH	850
Urbana G-19-a	250 WILL	890	MAINE			
Zion E-19-c	5000 WCBD	1080	Bangor C-28-b	100 500	WABI WLBZ	1200 620
INDIANA			Portland D-28-b	1000	WCSH	940
Anderson G-20-a	100 WHBU	1210	MARYLAND			
Connersville G-20 Culver F-19-d	100 WKBV 500 WCMA	1500 1400	Baltimore G-24-a	10000	WBAL	1060
Evansville H-19 Fort Wayne F-20-b	500 WGBF 100 WGL	630 1370		250 100	WCAO WCBM	1370
	10000 WOWO	1160	0 1 1 1 1 0 22	250	WFBR	1270
Gary F-19 Hammond F-19	500 WJKS 100 WWAE	1360 1200	Cumberland G-23	50	WTBO	1420
Indianapolis G-19-c	1000 WFBM 500 WKBF	1230 1400	MASSACHUSET			
Lafayette G-19	500 WBAA	1400	Boston E-27-c	1000 500	WBIS WBZA	1230 990
La Porte F-19-c Marion F-20	100 WRAF 50 WJAK	1200 1310		1000	WEEL.	590
Muncie G-20 South Bend F-20-a	50 WLBC 500 WSBT	1310		100 50	WLOE WMES	1500 1500
Terre Haute G-19	100 WBOW	1230 1310		1000 500	WNAC WSSH	1230 1410
Valparaiso F-19-b	500 WRBC	1240	Fall River E-27	250	WSAR	1450
IOWA			Gloucester E-27 Lexington E-27	1000 500	WHDH WLEX	830 1410
Ames B-16-c	5000 WOI	640	New Bedford E-27	100 100	WLEY WNBH	1370 1310
Boone E-16 Cedar Rapids E-17-a	100 KFGQ 100 KWCR	1310 1310	S. Dartmouth E-27	_500	WMAF	1410
Clarinda E-15-c	500 KSO	1380	Springfield E-26-b Wellesley Hills E-27	15000 250	WBZ WBSO	990 920
Council Bluffs F-15-b Davenport F-17-a	1000 KOIL 5000 WOC	1260 1000	Worcester E-27-b	100 250	WORC WTAG	1200
Decorah D-17	50 KGCA 100 KWLC	1270 1270		200	WIAG	580
Des Moines F-16-a	5000 WHO	1000	MICHIGAN	_		
Fort Dodge B-16-a Iowa City B-17-b	100 KFJY 500 WSUI	1310 880	Battle Creek E-20 Bay City D-21	50 500	WKBP WBCM	1420 1410
Marshalltown E-16-d Muscatine F-17-b	100 KFJB	1200	Berrien Spgs. E-19	1000	WEMC	590
Macatine P-1/-D	5000 KTNT	1170	Calumet B-18	100	WHDP	1370

Detroit E-21-g	750 5000	WGHP WJR	340 750	NEBRASKA			
East Lansing E-20-b Flint E-21-a	100 1000 1000 100	WMBC WWJ WKAR WFDF	1420 920 1040 1310	Clay Center G-14 Lincoln F-14-b	1000 5000 100 500	KMMJ KFAB KFOR WCAJ	740 770 1210 590
Grand Rapids E-20-a	500 500 100	WASH WOOD WIBM	1270 1270	Norfolk E-14-c Omaha F-15-a	1000 500	WAAW	1060 660
Jackson E-20 Lapeer E-21 Ludington D-19 Royal Oak E-21-e Ypzilanti E-21-f	100 50 50 50	WMPC WKBZ WAGM WJBK	1370 1500 1500 1310 1370	Ravenng F-13 Scottsbluff F-11 York F-13	1000 50 100 500	WOW KGFW KGKY KGBZ	590 1310 1500 930
MINNESOTA				NEVADA			
Collegeville C-15	100	WFBJ	1370	Las Vegas I-5 Reno G-3	100 100	KGIX KOH	1420 1370
Fergus Falls B-15 Hallock A-14 Minneapolis C-16-b	100 50 7500	KGDE KGFK WCCO	1200 1200 810	NEW HAMPSHI	RE		
	1000 500 500 500	WDGY WGMS WHDI WLB	1180 1250 1180 1250	Laconia D-27 Tilton D-27	100 500	WKAV WBRL	1310 1430
Northfield D-16	1000 1000	WRHM KFMX	1250 1250	NEW JERSEY			
St. Paul C-16-c	1000 10000	WCAL KSTP	1250 1460	Asbury Park G-26 Atlantic City G-25 Camden F-25-f Hackensack F-26	500 5000 500 250	WCAP WPG WCAM WBMS	1280 1100 1280 1450
MISSISSIPPI				Jersey City F-26-d	300 250 250	WAAT WIBS WKBO	1070 1450 1450
Greenville K-17 Gulfport M-18 Hattiesburg L-18 Jackson L-18	100 100 10 500	WRBQ WGCM WRBJ WJDX	1210 1210 1370 1270	Newark F-25-h	1000 250 250 5000	WAAM WGCP WNJ WOR	1250 1250 1450 710
Meridian L-18 Utica L-17	500 300	WČOC WQBC	880 1360	Paterson F-26-c Red Bank G-26 Trenton F-25	1000 100 500	WODA WJBI WOAX	1250 1210 1280
MISSOURI			1	NEW MEXICO			
orterville H-16 Cp. Girardeau H-18-c Columbia G-16-b Jefferson City H-16-a Joplin H-16	50 100 500 500 100	KFPW KFVS KFRU WOS WMBH	1340 1210 630 630 1420	Albuquerque J-9 Raton I-11 Roswell K-10 State College K-9	250 50 100 20000	KGGM KGFL KGMD KOB	1230 1370 1500 1180
Kansas City G-15-b	1000 100 1000	KMBC KWKC WDAF	950 13 7 0 610	NEW YORK			
	500 1000	WHB	860 1300	Auburn E-24 Binghamton E-25	100 100	WMBO WNBF	1500
St. Joseph G-15 St. Louis H-18-a	2500 100 5000	KFEQ KGBX KFQA	680 1310 1090	Brooklyn F-26-f	500 100 500	WBBC WCLB WLTH	1400 1500 1400
	500 100 5000	KFUO KFWF KMOX	550 1200 1090	Buffalo E-23-a	100 500 100	WMBQ WSGH WEBR	1500 1400 1310
	500 1000	KSD KWK	550 1350	Bullalo D-20-a	1000 5000	WGR WKBW	550 1480
.1	1000 100 100	WEW WIL WMAY	760 1200 1200		750 50	WKEN- WMAK WSVS	1040 900 1370
MONTANA				Canton D-25 Cazenovia E-25-b Coney Island F-26 Freeport F-26-l	500 250 500 100	WCAD WMAC WCGU WGBB	1220 570 1400 1210
Billings C-8 Butte C-7	500 500	KGHL KGIR	950 1360	Ithaca E-24-d	500	WEAI WLCI	1270
Great Falls A-8 Kalispell A-5 Wolf Point A-10	1000 100 100	KFBB KGEZ KGCX	1280 1310 1310	Jamaica F-26-f Jamestown E-23-b Long Island City F-26	10 25	WMRJ WOCL WLBX	1420 1210 1500

The second second		-			
New York City F-26	5000 WABC	860	Steubenville F-22	50 WIBR	1420
iow lone only	250 WBNY	1350	Toledo F-21-a	500 WSPD 500 WKBN	1240 570
	5000 WBOQ	860	Youngstown F-22	500 WKBN	3/0
	250 WCDA 50000 WEAF	1350			
	500 WEVD.	1300	OKLAHOMA		
	250 WGBS	600		100 KGFF	1420
	1000 WHAP	1300 1010	Alva I-13 Chickasha J-14-b	250 KOCW	1400
	250 WHN 30000 WJZ	760	Enid I-14	100 KCRC	1370
	250 WKBQ	1350	Norman J-14-a	500 WNAD	1010
	5000 WLWL	1100	Oklahoma I-14-b	5000 KFJF 100 KFXR	1480 1310
	500 WMCA	570		100 KGFG	1370
	250 WMSG 500 WNYC	1350 570		1000 WKY	900
	1000 WOV	1130	Picher I-15	500 KGGF	1010
	250 WPAP	1010	Ponca City I-14	100 WBBZ 5000 KVOO	1200 1140
	500 WPCH	810	Tulsa I-15	5000 KVOO	1140
	250 WQAO 250 WRNY	1010 1010			
Patchogue F-26	100 WPOE	1370	OREGON		
Poughkeepsie F-26-a	500 WOKO	1440		100 VEII	1370
Rochester E-24-b	5000 WHAM	1150	Astoria C-1-a	100 KFJI 1000 KOAC	550
Popuilla F. 26	500 WHEC 1000 WBBR	1440 1300	Corvallis D-1 Eugene D-1	100 KORE	1420
Rossville F-26 Saranac Lake D-26	50 WNBZ	1290	Marshfield E-1	100 KOOS	1370
Schenectady E-25-c	50000 WGY	790	Medford E-1	50 KMED	1310
Syracuse E-24-c	1000 WFBL	1360 570	Portland C-1-b	5000 KEX 100 KFIF	1180 1420
T E 21 -	250 WSYR 500 WHAZ	1300			1300
Troy E-21-a Tupper Lake D-25	10 WHDL	1420		500 KFJR 1000 KGW	620
Utica E-25-a	100 WIBX	1200		1000 KOIN	940 1300
Woodside F-26	100 WWRL	1500		500 KTBR 15 KVEP	1500
Yonkers E-26	100 WCOH	1210		500 KWJJ	1060
NORTH CAROL	INA			100 KXL	1420
Asheville J-21	1000 WWNC	570	PENNSYLVANIA		
Charlotte J-22	5000 WBT	1080	Allentown F-25-c	250 WCBA '	1440
Gastonia J-22	100 WRBU	1210 1440	Amentown 1 20 c	250 WSAN -	1440
Greensboro I-22	500 WNRC 1000 WPTF	680	Altoona F-24-c	100 WFBG	1310
Raleigh I-23 Wilmington J-24	100 WRBT	1370	Carbondale F-25	10 WNBW 50 WIBG	1200 930
Winston-Salem I-22	100 WSJS	1310	Elkins Park G-25-c Erie E-23	30 WEDH	142
				50 WRAK	1370
NORTH DAKO	ΓΑ		Grove City F-23-b	100 WSAJ 500 WBAK	1310 1430
Bismarck B-12	500 KFYR	550	Harrisburg F-24-d	100 WCOD	120
Devils Lake A-13	100 KDLR	1210		500 WHP	143
Fargo B-14	1000 WDAY	940 1370	Jeannette G-23	100 WOOP	121
Grand Forks A-14 Mandan B-12	100 KFJM 100 KGCU	1210	Johnstown F-23-d	100 WJAC 15 WGAL	131 131
Minot A-12	100 KLPM	1420	Lancaster G-24-a	100 WKJC	120
,			II T		
			Lewisburg r-24-0	100 WJBU	
OHIO			Lewisburg F-24-b Oil City F-23-a	500 WLBW	126
ОНЮ	1000 WARC	1220	Oil City F-23-a Philadelphia G-25-d	500 WLBW 10000 WCAU	126 117
OHIO Akron F-22-b	1000 WADC	1320 1450	Oil City F-23-a	500 WLBW 10000 WCAU 100 WELK	126 117 137
Akron F-22-b	500 WFJC	1320 1450 1210	Oil City F-23-a	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI	126 117 137 61 56
	500 WFJC 100 WEBE 10 WHBC	1450 1210 1200	Oil City F-23-a	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD	126 117 137 61 56 131
Akron F-22-b Cambridge F-22	500 WFJC 100 WEBE 10 WHBC 100 WFBE	1450 1210 1200 1200	Oil City F-23-a	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT	126 117 137 61 56 131
Akron F-22-b Cambridge F-22 Canton F-22-d	500 WFJC 100 WEBE 10 WHBC 100 WFBE 500 WKRC	1450 1210 1200 1200 550	Oil City F-23-a	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT 500 WIP	126 117 137 61 56 131 131
Akron F-22-b Cambridge F-22 Canton F-22-d	500 WFJC 100 WEBE 10 WHBC 100 WFBE 500 WKRC 50000 WLW	1450 1210 1200 1200 550 700	Oil City F-23-a	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT 500 WIP 500 WLIT 100 WPEN	126 117 137 61 56 131 131 61 56
Akron F-22-b Cambridge F-22 Canton F-22-d Cincinnati G-20-e	500 WFJC 100 WEBE 10 WHBC 100 WFBE 500 WKRC 50000 WLW 500 WSAI 1000 WSAR	1450 1210 1200 1200 550 700 1330 1070	Oil City F-23-a Philadelphia G-25-d	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 500 WFKD 100 WHAT 500 WIP 500 WLIT 100 WPEN 250 WRAX	126 117 137 61 56 131 131 61 56 150
Akron F-22-b Cambridge F-22 Canton F-22-d	500 WFJC 100 WEBE 10 WHBC 100 WFBE 500 WKRC 50000 WLW 500 WSAI 1000 WEAR 1000 WHK	1450 1210 1200 1200 550 700 1330 1070 1390	Oil City F-23-a	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT 500 WLIT 100 WPEN 250 WRAX 50000 KDKA	126 117 137 61 56 131 131 61 56 150 102
Akron F-22-b Cambridge F-22 Canton F-22-d Cincinnati G-20-e	500 WFJC 100 WEBE 10 WHBC 100 WFBE 500 WKRC. 50000 WLW 500 WSAI 1000 WEAR 1000 WHK 500 WJAY	1450 1210 1200 1200 550 700 1330 1070 1390 610	Oil City F-23-a Philadelphia G-25-d	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT 500 WLIT 100 WPEN 250 WRAX 50000 KDKA	126 117 137 61 56 131 131 61 56 150 102 98 138
Akron F-22-b Cambridge F-22 Canton F-22-d Cincinnati G-20-e Cleveland F-22-a	500 WFJC 100 WEBE 10 WHBC 100 WFBE 500 WKRC 50000 WLW 500 WSAI 1000 WEAR 1000 WHK 500 WJAY 50000 WTAM	1450 1210 1200 1200 550 700 1330 1070 610 1070	Oil City F-23-a Philadelphia G-25-d	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT 500 WIP 500 WLIT 100 WPEN 250 WRAX 5000 KDKA 500 KQV 500 WCAE 1000 WJAS	126 117 137 61 56 131 131 61 50 102 98 138 122 129
Akron F-22-b Cambridge F-22 Canton F-22-d Cincinnati G-20-e	500 WFJC 100 WEBE 10 WHBC 100 WFBE 500 WKRC 50000 WLW 1000 WEAR 1000 WHK 500 WJAY 50000 WTAM 500 WAIU	1450 1210 1200 1200 550 700 1330 1070 1390 610	Oil City F-23-a Philadelphia G-25-d Pittsburgh F-23-c Reading F-25-d	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT 500 WLIT 100 WPEN 250 WAAX 5000 KDKA 500 KQV 500 WCAE 1000 WJAS 1000 WAAW	126 117 137 61 56 131 131 61 50 102 98 138 122 129
Akron F-22-b Cambridge F-22 Canton F-22-d Cincinnati G-20-e Cleveland F-22-a	500 WFJC 100 WEBE 100 WFBE 500 WKRC 50000 WSAI 1000 WEAR 1000 WHK 500 WJAY 50000 WTAM 500 WAIU 500 WAIU 500 WAIU 500 WAAA	1450 1210 1200 1200 550 700 1330 1070 1390 610 1070 640 1430 570	Oil City F-23-a Philadelphia G-25-d Pittsburgh F-23-c	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT 500 WIP 500 WLIT 100 WPEN 250 WRAX 5000 KQV 500 WCAE 1000 WJAS 1000 WAAW 250 WGBI	126 117 137 61 56 131 131 56 150 102 98 138 129 131 88
Akron F-22-b Cambridge F-22 Canton F-22-d Cincinnati G-20-e Cleveland F-22-a Columbus G-21-b	500 WFJC 100 WEBE 10 WHBC 100 WFBE 500 WKRC 50000 WLW 500 WSAI 1000 WEAR 1000 WHK 500 WJAY 50000 WTAM 500 WAIU 500 WCAH 750 WCAH 750 WEAO	1450 1210 1200 1200 550 700 1330 1070 610 1070 640 1430 570 1210	Oil City F-23-a Philadelphia G-25-d Pittsburgh F-23-c Reading F-25-d Scranton F-25-a	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WHAT 500 WIP 500 WLIT 100 WPEN 250 WRAX 50000 KDKA 500 KQV 5000 WCAE 1000 WJAS 100 WRAW 250 WGBI 250 WOAN	126 117 137 61 56 131 131 56 150 102 98 138 122 129 131 88
Akron F-22-b Cambridge F-22 Canton F-22-d Cincinnati G-20-e Cleveland F-22-a Columbus G-21-b Dayton G-21-e	500 WFJC 100 WEBE 100 WHBG 100 WKRC 50000 WLW 500 WSAI 1000 WHK 500 WJAY 50000 WTAM 500 WTAM 500 WAIU 500 WCAH 750 WEAO 500 WMAN 200 WSMK	1450 1210 1200 1200 550 700 1330 1070 1390 610 1070 640 1430 570 1210	Pittsburgh F-23-c Reading F-25-d Scranton F-25-a State College F-24-a	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT 500 WLIT 100 WPEN 250 WRAX 5000 KOV 500 WCAE 1000 WJAS 1000 WRAW 250 WGBI 250 WGAN 500 WGAN 500 WGAN 500 WGAN	126 117 137 61 56 131 131 61 56 1500 102 98 138 122 129 131 888 88
Akron F-22-b Cambridge F-22 Canton F-22-d Cincinnati G-20-e Cleveland F-22-a Columbus G-21-b Dayton G-21-e Hamilton G-20-d	500 WFJC 100 WEBE 100 WFBE 500 WKRC. 50000 WLW 500 WSAI 1000 WEAR 1000 WHK 500 WJAY 50000 WTAM 500 WAIU 500 WCAH 750 WEAO 500 WMAN 200 WSMK	1450 1210 1200 550 700 1330 1070 1390 610 1070 6430 1430 1210 1380 1310	Oil City F-23-a Philadelphia G-25-d Pittsburgh F-23-c Reading F-25-d Scranton F-25-a	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 500 WHAT 500 WIP 500 WLIT 100 WPEN 250 WRAX 50000 KDKA 500 KQV 500 WCAE 1000 WJAS 100 WRAW 250 WGBI 250 WGBI 250 WGBI 250 WNBO 100 WBAX	126 117 137 56 131 131 56 150 102 98 138 122 123 124 125 121
Akron F-22-b Cambridge F-22 Canton F-22-d Cincinnati G-20-e Cleveland F-22-a Columbus G-21-b Dayton G-21-e	500 WFJC 100 WEBE 100 WHBG 100 WKRC 50000 WLW 500 WSAI 1000 WHK 500 WJAY 50000 WTAM 500 WTAM 500 WAIU 500 WCAH 750 WEAO 500 WMAN 200 WSMK	1450 1210 1200 1200 550 700 1330 1070 1390 610 1070 640 1430 570 1210	Oil City F-23-a Philadelphia G-25-d Pittsburgh F-23-c Reading F-25-d Scranton F-25-a State College F-24-a Washington F-23	500 WLBW 10000 WCAU 100 WELK 500 WFAN 500 WFI 50 WFKD 100 WHAT 500 WIP 500 WLIT 100 WPEN 250 WRAX 50000 KDKA 500 KQV 500 WCAE 1000 WAS 100 WAS 100 WAS 100 WAS 500 WGBI 250 WGBI 250 WQAN 500 WPSC	121- 126- 137- 61- 56- 131- 61- 50- 102- 98- 138- 129- 131- 88- 88- 123- 120- 121- 131- 150-

PORTO RICO		30 - 10 - 1			100	KTAP	1420
San Juan	500	WKAQ	890	·	1000 5000	KTSA WOAI	1290 1190
RHODE ISLAND				Waco L-15-b Wichita Falls K-14	1000 250	WACO KGKO	1240 570
Newport F-27	100	WMBA	1500		200	T. C. C.	
Pawtucket E-27 Providence E-27-h	100 100	WPAW WDWF	1210 1210	UTAH Ogden F-7-b	100	KLO	1370
Providence B-27-11	250	WEAN	780	Salt Lake City F-7-c	1000	KDYL	1290
	250 100	WJAR WLSI	890 1210	VEDMONT	5000	KSL	1130
		201	1210	VERMONT Burlington D-26-a	100	WCAX	1200
SOUTH CAROLI				St. Albans D-26	5	WQDM	1370
Charleston K-23	<i>7</i> 5 500	WBBY WGTB	1200 1010	Springfield D-26-b	10	WNBX	1200
Columbia K-22		WGID	1010	VIRGINIA			
SOUTH DAKOTA	_			Arlington G-24-d Danville I-23	1000 100	NAA	690 1370
Brookings D-14	500 50	KFDY KGDA	550 1370	Emory	100	WEHC	1370
Dell Rapids D-14 Oldham D-14	15	KGDY.	1200	Lynchburg H-23	100 500		1370 590
Pierre D-12 Rapid City D-11	200 100	KGFX WCAT	580 1200	Mt. Vernon Hills	10000	WJSV	1460
Sioux Falls D-14	2000	KSOO	1110	Newport News I-24 Norfolk I-24	100 500	WGH WPOR	1310 780
Vermillion E-14-b	500 100	KUSD KGCR	890 1210		500	WTAR	780
Watertown Yankton E-14-a	1000	WNAX	570	Petersburg H-24 Richmond H-24	100 100	WLBG WBBL	1200 1370
THE PROCEE				Accommond 11 21	100	WMBG	1210
TENNESSEE	100	WODI	1500	Roanoke H-23	5000 250	WRVA WDBJ	1110 930
Bristol I-22 Chattanooga J-20	100 1000	WOPI	1500 1280	WASHINGTON			
Knoxville I-20	50	WFBC	1200	Aberdeen B-1	75	KXRO	1310
	50 1000	WNBJ	1310 560	Bellingham A-1	100	KVOS	1200
Lawrenceburg J-19	500	WOAN	600	Everett A-2 Lacey B-2-b	50 10	KFBL KGY	1370 1200
Memphis J-18-a	500 100	WGBC WHBQ	1430 1370	Longview B-1	10	KUJ	1500
	500	WMC	780	Pullman B-4	500 100	KWSC KFOW	1220 1420
	500 500	WNBR WREC	1430 600	Seattle B-2-a	5000	KJR	970
Nashville I-19	5000	WLAC	1470		1000	KOL KOMO	1270 920
	5000 5000	WSM WTNT	650 1470		15000 100	KPCB	1210
Springfield I-19	100	WSIX	1210		50	KRSC	1120
Union City I-18	100	WOBT	1310		1000 100	KTW KVL	1270 1370
TEXAS					500	KXA	570
Abilene K-13	100	KFYO :	1420	Spokane A-4	100 1000	KFIO KFPY	1230 1340
Amarillo J-12	1000	KGRS	1410		5000	KGA	1470
Austin L-14-b	250 500	WDAG KTRH	1410 1120	Tacoma B-1-a	1000 500	KHQ KMO	590 860
Austin L-11-b	100	KUT	1500		1000	KVI	760
Beaumont M-16 Brownsville O-14-b	500 500	KFDM KWWG	560 1260	Wenatchee B-3 Yakima B-3	50 100	KPQ KIT	1210 1310
Brownwood L-13	100	KGKB	1500				1010
College Sta. M-13	500 100	WTAW KGFI	1120 1500	WEST VIRGINIA Bluefield H-22	100	WHIS	1420
Corpus Christi N-14 Dallas L-15-a	10000	KRLD	1040	Charleston H-22	250	WOBU	580
	5000	WFAA	800	Fairmont G-23	250	WMMN	890 580
Dublin K-14	500 100	WRR KFPL	1280 1310	Huntington G-22 Weirton G-22	60	WQBZ	1420
El Paso L-10	100	KTSM	1310	Wheeling G-22	5000	WWVA	1160
Fort Worth L-14-a	100 100	WDAH KFJZ	1310 1370	WISCONSIN			- die
1016 1101011 1-11	1000	KSAT	1240	Beloit E-18-b	500	WEBW	560
Galveston M-15-b	50000 100		800 1370	Eau Claire D-17 Fond du Lac D-18-d	1000	WTAQ KFIZ	1330
	500	KFUL	1290	Green Bay D-19	100	WHBY	1200
Greenville K-15	15 500	KFPM	1310 1260	Kenosha E-19 La Crosse E-17	1000	WCLO	1200
Harlingen O-14 Houston M-15-a	1000	KPRC.	920	Madison E-18-2	750	WHA	940
	100	KTUE.	1420 1500	Manitowoc D-19	100 100	WIBA	1210 1210
San Angelo M-12	100 100	KGKL	1370	Milwaukee E-19-a	250	WHAD	1120
San Antonio M-14-a	100	KGCI /	1370		250 1000	WISN	1120
	100	KGRC	1370		1000	M TIAT)	020

D 10	100	WIDII	1310	VI	5000	CKGW	690
Poynette D-18-e	100	WIBU	1370		500	CKNC	580
Racine E-19	100	WRJN			500	CKOW	840
Sheboygan C-18	500	WHBL	1410		500	CNRT	840
Stevens Pt. D-18-b	2000	WLBL	900		5000	CNRX	690
Superior B-17	1000	WEBC	1290	Waterlan	50	CKCR	1010
WYOMING			- 1	Waterloo	30	CICI	1010
	100	TO EN	1210	PRINCE EDWARD	· ·		
Casper	100	KDFN	1210		,		
				ISLAND			
CAN	ADA		- 1	Charlottetown	250	CFCY	960
			- 1		30	CHCK	960
ALBERTA			- 1	Summerside	25	CHGS	1120
Calgary	500	CFAC	690				
Cuiguiy	500	CFCN	690	QUEBEC			
	500	CHCA	690	Montreal	1650	CFCF	1030
	500	CJCJ	690	1	5000	CHYC	730
	500	CNRC	690	1	5000	CKAC	730
Edmonton	250	CHMA	580	l .	5000	CNRM	730
Lumonton	500	CJCA	580	Quebec	100	CHRC	880
	500	CKUA	580	Quebec	22	CKCI	880
	500	CNRE	580		50	CKCV	880
f at t =1.4 ==	50		1120		50	CNRO	880
Lethbridge		CJOC	840	Ca. Ulara almada a	50	CKSH	1010
Red Deer	1000	CHCT		St. Hyacinthe	30	CKSII	1010
	1000	CKLC	840	SASKATCHEWAN			
	1000	CNRD	840		500	CIDW	600
DDITTELL COLLA	ADIA			Fleming	500	CJRW	600 600
BRITISH COLUN				Moose Jaw	500	CJRM	
Chilliwack	5	CHWK	1210	Pilot Butte	500	CHWC	960
Kamloops	15	CFJC	1120	Regina	500	CFCR	960
Sea Island	50	CJOR	1030		500	CJBR	960
Vancouver	50	CHLS	730		500	CKCK	960
	50	CKCD	730		500	CNRR	960
	50	CKFC	730	Saskatoon	500	CFQC	910
	50	CKMO	73 0		250	CJHS	910
	100	CKWX	<i>7</i> 30		500	CNRS	910
	500	CNRV	1030	Yorkton	500	CJGX	630
Victoria	500	CFCT	630			•	
Victoria				HAITI			
MANITOBA				Port au Prince	1000	HHK	920
Brandon	500	CKX	540				
Winnipeg	5000	CKY	780	II MEXICO			
w number	5000	CNRW	780	Chihuahua	250	XFF	920
	3000	CIVIC	,00	C. Lerdo, Dgo.	250	XES	1200
NEW BRUNSWIG	^K			Guadalajara, Jal.	101	XEA	1200
	50	CFNB	1210	Jalapa, Ver.	350	XFC	630
Fredericton	500	CNRA	630	Merida, Yucatan	105	XEY	550
Moncton	50	CFBO	890	Merica City	1000	XEB	670
St. John	50	CrbO	690	Mexico City	1000	XEN	730
NOVA SCOTIA]	500	XEX	920
	500	CLINIC	930	ll	50	XFA	540
Halifax	500	CHNS				XFG	640
Louisburg	500		690	l	2000		
Sydney	50	CJCB	880	11	1000	XFI	590
Wolfville	50	CKIC	930	,, , ,, ,,	1000	XFX	910
ONTARIO				Monterrey, N. L	1000	XEH	970
Chatham	100	CFCO	1210	Morelia, Mich.	101	XEI	1000
	15	CKMC	1210	Oaxaca, Oax.	105	XEF	1130
Cobalt	10	CHCS	880	Pueblo, Pue.	101	XEE	960
Hamilton	50	CHML	880	CLIDA			
	50 50		880	CUBA	250	CLATTO	000
T 1 P-11-			600	Caibarien	250	CMHD	920
Iroquois Falls	250	CFCH		Cienfuegos	200	CMHA	1150
Kingston	500		1120	Colon	300	CMGA	830
London	500	CIGC	910	Havana	100	CMBC	890
4 21 24 24 2	500		910		200	CMBY	610
Midland	. 50		1120		100	CMBZ	1030
Ottawa	100		890	II.	500	CMC	840
	500	CNRO	600	1	150	CMCB	950
Prescott	50		1010	11	100	CMCE	1100
Preston	25		1210	II .	250	CMCF	640
Toronto	500	CFCA	840	II.	500	CMI	820
	500		580	11	2000	CMK	730
and the same of th	4000	CFRB.	960	11	1000	CMW	600
	500	CJBC	580	11	500	CMX	920
	5000		690	Marianao	50	CMBW	1030
	1000	CIBC	840	Tuinucu	500	CMHC	790
	5000	CJBC	960		200		
	500	CJSC	580	COSTA RICA	,		
Toronto	500		580	San Jose	50	TIX	750
LOTOITEO	000			-3 3000			
	and the same of		10.6	11			

CFAC 690				CJOC 1120				CMHA 1150		as personal	
Calgary, Alta.				Lethbridge, Alta.				Cienfuegos, Cuba			
CFBO 890				CJOR 1030			-	CMHC 790			
St. John, N. B.				Sea Island, B.C.				Tuinucu, Cuba		1	
CFCA 840				CJRM 600				CMHD 920			_
Toronto, Ont.				Moose Jaw, Sask.				Caibarien, Cuba			
CFCF 1030				CJRW 600				CMI 820	-		
Montreal, Que.				Fleming, Sask.				Havana, Cuba			
CFCH 600		i		CJSC 580	ì			CMK 730			-
Iroq's Falls, Ont.				Toronto, Ont.				Havana, Cuba			,
CFCL 580				CKAC 730				CMW 600			
Toronto, Ont. CFCN 690	I			Montreal, Que.				Havana, Cuba			
				CKCD 730				CMX 920			
Calgary, Alta. CFCO 1210				Vancouver, B.C. CKCI 880				Havana, Cuba			
Chatham, Ont.			1 1	Quebec, Que.				CNRA 630 Moneton, N.B.			
CFCR 960			1	CKCK 960				CNRC 690			
Regina, Sask.				Regina, Sask.	1	Į.		Calgary, Alta.			
CFCT 630				CKCL 580				CNRD 840			
Victoria, B. C.	1			Toronto, Ont.		- 1		Red Deer, Alta.			
CFCY 960	_			CKCO 890				CNRE 580			7
Ch'lottet'n, P. E. I.				Ottawa, Ont.				Edmonton, Alta.			
CFJC 1120_		1		CKCR 1010				CNRL 910			
Kamloops, B. C.		<u> </u>		Waterloo, Ont.				London, Ont.			
CFLC 1010				CKCV 880				CNRM 730			
Prescott, Ont.				Quebec, Que.				Montreal, Que.			
CFNB 1210 Fredericton N.B.				CKFC 730				CNRO 600			
Fredericton, N.B. CFQC 910				Vancouver, B.C. CKGW 690				Ottawa, Ont. CNRQ 880			
Saskatoon, Sask.			1 1	Toronto, Ont.				Quebec, Que.			1
CFRB 960				CKIC 930	-		-	CNRR 960	10		
Toronto, Ont.	1	l		Wolfville, N.S.				Regina, Sask.			1315
CFRC 1120				CKLC 840				CNRS 910			-
Kingston, Ont.				Red Deer, Alta.			1	Saskatoon, Sask.			1
CHCA 690				CKMC 1210				CNRT 840	-		
Calgary, Alta.				Cobalt, Ont.				Toronto, Ont.			
CHCK 960		i T	[CKMO 730	3		U	CNRV 1030			
Ch'lottet'n, P.E.I.				Vancouver, B.C.				Vancouver, B.C.			
CHCS 880				CKNC 580				CNRW 780			
Hamilton, Ont.				Toronto, Ont.				Winnipeg, Man.			
CHCT 840				CKOC 880				CNRX 690		- 1	
Red Deer, Alta. CHGS 1120				Hamilton, Ont. CKOW 840			-	Toronto, Ont. HHK 920			
Sum'rside, P.E.I.				Toronto, Ont.				Port au Prince, H.	H . (
CHLS 730			-	CKPC 1210				KBTM 1200			
Vancouver, B.C.			1 1	Preston, Ont.				Paragould, Ark.			
CHMA 580				CKPR 1120			1 13	KCRC 1370			
Edmonton, Alta.				Midland, Ont.				Oklahoma City			
CHML 880				CKSH 1010		-		KDB 1500			
Hamilton, Ont.				St. H'cinthe, Que.				S. Barbara, Cal.	1		0
CHNS 930				CKUA 580				KDFN 1210			
Halifax, N.S.				Edmonton, Alta.				Casper, Wyo.			
CHRC 880			(I	CKWX 730		3		KDKA 980			
Quebec, Que.			<u> </u>	Vancouver, B.C.				Pittsburgh, Pa.			
CHWC 960	1		i I	CKX 540				MDLR 1210 Devils Lake, N.D.		V = 01	
Pilot Butte, Sask. CHWK 1210				Brandon, Man. CKY 780				KDYL 1290			
Chilliwack, B.C.				Winnipeg, Man.			- 1	Salt Lake City			0 = 1
CHYC 730				CMBC 890				KECA 1430			
Montreal, Que.				Havana, Cuba				Los Angeles, Cal.		1.00	
CJBC580-840-960	<u> </u>			CMBW 1030				KEJK 710			
Toronto, Ont.				Marianao, Cuba				Los Angeles, Cal.	- 1		AE F
CJBR 960				ICMBY 610				KELW 780			
Regina, Sask.				Havana, Cuba				Burbank, Cal.	- / -		
CJCA 580				[CMBZ 1030				KEX 1180	7 - 3		
Edmonton, Alta.				Havana, Cuba				Portland, Ore.			
CJCB 880		ŀ		CMC 840		1 8		KFAB 770		100	21.7
Syndey, N.S.		<u> </u>		Havana, Cuba				Lincoln, Nebr.			
CJCJ 690		l	1 1	CMCB 950 Havana, Cuba				Great Fls., Mont.			
Calgary, Alta.				CMCE 1100		-		KFBK 1310			
CJGC 910 London, Ont.	1			Havana, Cuba				Sacramento, Cal.		7 - 6	3 3
CJGX 630	1			CMCF 640				KFBL 1370	191	100	
Yorkton, Sask.				Havana, Cuba				Everett, Wash.	501	Silver F	1000
CJHS 910	7			CMGA 830	-			KFDM 560	- N - 1		
Saskatoon, Sask.	/			Colon, Cuba				Beaumont, Tex.		Story C.	10 8
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KFDY 550		1 1	KFSG 1120			KGEZ 1310		
Brookings, S.D.		_	Los Angeles, Cal.			Kalispell, Mont.		
KFEL 920			KFUI 1310	4		KGFF 1420 Alva, Okla.		
Denver, Colo.			Juneau, Alaska		-	KGFG 1370		
KFEQ 680			KFUL 1290 Galveston, Tex.	387	1 1	Oklahoma City		
St. Joseph, Mo.			KFUM 1270		_	KGFI 1500		
KFGQ 1310 Boone, Iowa			Col. Spgs., Colo.			C'pus Ch'sti, Tex.		
KFH 1300			KFUO 550			KGFJ 1200	1	
Wichita, Kansas			St. Louis, Mo.		-	Los Angeles, Cal. KGFK 1200		
KFHA 1200			KFUP 1310			KGFK 1200 Hallock, Minn.		
Gunnison, Colo.			Denver, Colo. KFVD 1000		-	KGFL 1370		
KFI 640			Culver City, Cal.	1	1	Raton, N.M.		
Los Angeles, Cal			KFVS 1210			KGFW 1310		
Portland, Ore.		III I	Cape Gir'rd'u, Mo		_	Ravenna, Nebr.		
KFIO 1230			KFWB 950	1	1 1	KGFX 580 Pierre, S.D.		
Spokane, Wash.		-	Hollywood, Cal. KFWF 1200			KGGC 1420		
KFIZ 1420			St. Louis, Mo.		<i>t</i> 1	San F'ncisco, Cal.	_	
Fond du Lac, Wis			KFWI 930			KGGF 1010		1
Marshalltown, Ia.		-	San F'ncisco, Cal.		_	Picher, Okla.		
KFJF 1480			KFWM 930			KGGM 1230		- 1
Oklahoma City		_	Richmond, Cal.		-	Alb'q'rque, N.M. KGHB 1320		
KFJI 1370			KFXD 1420 Jerome, Idaho			Honolulu, T.H.		
Astoria, Ore. KFJM 1370			KFXF 920			KGHF 1320		
Grd. Forks, N.D.	1		Denver, Colo.			Pueblo, Colo.		—
KFJR 1300			KFXJ 1310	1		KGHG 1310		
Portland, Ore.			Edgewater, Colo.			McGehee, Ark. KGHI 1200		
KFJY 1310			KFXM 1210 San Ber'd'no,Cal.			Little Rock, Ark.		
Fort Dodge, Ia. KFJZ 1370		-	KFXR 1310			KGHL 950		
Ft. Worth, Tex.	n		Oklahoma City			Billings, Mont.		_
KFKA 880	-		KFXY 1420			KGIQ 1320	1 1	
Greeley, Colo.			Flagstaff, Ariz.			Twin Falls, Ida. KGIR 1360		
KFKB 1050			KFYO 1420 Abilene, Texas		1 1	Butte, Mont.	ll	
Milford, Kansas KFKU 1220			KFYR 550			KGIW 1420		
Lawrence, Kans.		1	Bismarck, N.D.		_	Trinidad, Colo.		
KFKX 1020			KGA 1470			KGIX 1420		1
Chicago, Ill.			Spokane, Wash.			Las Vegas, Nev. KGJF 890		
KFLV 1410			KGAR 1370 Tucson, Ariz.	- I		Little Rock, Ark.		
Rockford, Ill.		-	KGB 1330			KGKB 1500		
Galveston, Tex.			San Diego, Cal.			Brownwood, Tex.		
KFMX 1250	- '		KGBU 900			KGKL 1370 San Angelo, Tex.		- 1
N'thfield, Minn.			Ketchikan, Al'ka. KGBX 1310			KGKO 570		
Shenandoah, Ia.			St. Joseph, Mo.			Wichita Flls., Tex		
KFOR 1210		_	KGBZ 930	*		KGKX 1420		
Lincoln, Nebr.			York, Nebr.		_	Sand Point, Ida.	-·	
KFOX 1250			KGCA 1270			KGKY 1500 Scottsbluff, Nebr.		
Long Beach, Cal.			Decorah, Iowa KGCI 1370			KGMB 1300		
KFPL 1310	1	1 /	San Ant'nio, Tex.	1		Honolulu, T. H.		
Dublin, Texas KFPM 1310			KGCR 1210			KGMC 1310		
Greenville, Tex.			Watertown, S.D.			Jerome, Ariz.		
KFPW 1340			KGCU 1210			KGMD 1500 Roswell, N. M.		
Carterville, Mo.		_	Mandan, N.D.			KGO 790		
KFPY 1340			Wolf P't, Mont.			Oakland, Cal.		
Spokane, Wash. KFQA 1090			KGDA 1370			KGRC 1370		
St. Louis, Mo.			Dell Rapids, S.D.			San Antonio, Tex.		
KFQD 1230			KGDE 1200			KGRS 1410 Amarillo, Texas	1 1	
Anchorage, Alas.			Ferg's F'lls, Minn KGDM 1100			KGU 940		
KFQU 1420			Stockton, Cal.			Honolulu, Hawaii		30011
Holy City, Cal. KFQW 1420		7.1	KGDY 1200			KGW 620		
Seattle, Wash.		-4	Oldham, S.D.			Portland, Ore.		
KFQZ 860			KGEF 1300			KGY 1200 Lacey, Wash.		
Los Angeles, Cal.			Los Angeles, Cal. KGEK 1200		_	KHJ 900		
KFRC 610 San F'ncisco, Cal.		_	Yuma, Colo.			Los Angeles, Cal.		
KFRU 630			KGER 1360			KHO 590		
Columbia, Mo.			Long Beach, Cal.			Spokane, Wash.		
KFSD 600			KGEW 1200			KICK 1420 Red Oak, Iowa		
San Diego, Cal.			Ft. Morgan, Colo.			Iveu Can, IUWA		
THE REAL PROPERTY.								
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KID 1320	1	T	T	KPQ 1210			KUOA 1390			
Idaho Falls, Ida.				Wenatchee, Wash			Fayetteville, Ark.			
KIDO 1250 Boise, Idaho				KPRC 920			KUSD 890	1		
KIT 1310	-			Houston, Texas KPSN 1360			Vermillion, S.D.			
Yakima, Wash.				Pasadena, Cal.			KUT 1500 Austin, Texas	197		1189
KJBS 1070				KQV 1380			KVEP 1500			
San F'ncisco, Cal KJR 970	·	-	-	Pittsburgh, Pa.			Portland, Ore.			
Seattle, Wash.				KQW 1010 San Jose, Cal.			KVI 760			44
KLCN 1290		1		KPWF 1490			Tacoma, Wash.			
Blytheville, Ark.			-	Westminster, Cal.			Seattle, Wash.			1
KLO 1370 Ogden, Utah				KRE 1370			KVOA 1260			1770
KLPM 1420			-	Berkeley, Cal. KREG 1500			Tucson, Arizona KVOO 1140			
Minot, N. Dak.		1		Santa Ana, Cal.			Tulsa, Okla.	1		
KLRA 1390				KRGV 1260			KVOS 1200			
Little Rock, Ark. KLS 1440			-	Harlingen, Texas			Bellingh'm, Wash.			
Oakland, Cal.	1			KRLD 1040 Dallas, Texas			KWCR 1310 Cedar Rapids, Ia.			7 1,00
KLX 880				KRMD 1310			KWEA 1210			
Oakland, Cal.				Shreveport, La.			Shreveport, La.			
KLZ 560			1	KRSC 1120			KWG 1200			
Denver, Colo. KMA 930				Seattle, Wash. KSAC 580			Stockton, Cal.		1	
Shenandoah, Ia.				Manh'tt'n, Kans.	ĺ		KWJJ 1060 Portland, Ore.			-78
KMBC 950				KSAT 1240			KWK 1350			
Kan. City, Mo.	-			Ft. Worth, Tex.			St. Louis, Mo.			
KMED 1310 Medford, Ore.		1		KSCJ 1330 Sioux City, Ia.			KWKC 1370			4
KMIC 1120				KSD 550		_	Kansas City, Mo. KWKH 850	-, -a		
Inglewood, Cal.				St. Louis, Mo.			Shreveport, La.			
KMJ 1210				KSEI 900			KWLC 1270			
Fresno, Cal. KMMJ 740		-		Pocatello, Idaho KSL 1130			Decorah, Iowa			
Clay Ctr., Nebr.				Salt Lake City		-1-1	RWSC 1220 Pullman, Wash.			T 1-115
KMO 860				KSMR 1200		_	KWWG 1260		-	
Tacoma, Wash.				Santa Maria, Cal.			Brownsville, Tex.			
KMOX 1090 St. Louis, Mo.			2	KSO 1380 Clarinda, Iowa			KXA 570	-1		
KMTR 570				KSOO 1110			Seattle, Wash. KXL 1420			
Hollywood, Cal.				Sioux Falls, S.D.			Portland, Ore.			
KNX 1050				KSTP 1460			KXO 1200			2 11
Los Angeles, Cal. KOA 830				St. Paul, Minn. KTAB 560			El Centro, Cal. KXRO 1310 -	,	- 1	
Denver, Colo.				Oakland, Cal.		7	Aberdeen, Wash.			
KOAC 550				KTAP 1420			KYA 1230			
Corvallis, Ore.				San Antonio, Tex			San F'ncisco, Cal.			
State Coll., N.M.			L	Phoenix, Ariz.		- 1	KYW 1020 Chicago, Ill.			
KOCW 1400				KTBJ 1300			KZM 1370			
Chickasha, Okla.				Los Angeles, Cal.			Hayward, Cal.			
KOH 1370 Reno, Nevada				KTBR 1300		*	NAA 690			10000
KOIL 1260				Portland, Ore. KTBS 1450			Arlington, Va. NBA 850			A01
Council Bluffs, Ia.				Shreveport, La.			Balboa, C. Z.			
KOIN 940				KTHS 1040			TIX 750			
Portland, Ore. KOL 1270				Hot Spgs., Ark. L KTLC 1500			San Jose, C. R.			
Seattle, Wash.				Houston, Texas			VAS 690 Louisburg, N. S.		- 100	
KOMO 920				KTM 780			WAAF 920			
Seattle, Wash.				Los Angeles, Cal.			Chicago, Ill.			
KOOS 1370 Marshfield, Ore.				KTNT 1170 Muscatine, Iowa			WAAM 1250			
KORE 1420				KTRH 1120			Newark, N. J. WAAT 1070			-
Eugene, Ore.				Austin, Texas	1 1		Jersey City, N.J.		- 19	
KOY 1390			7 44 44	KTSA 1290			WAAW 660			
Phoenix, Ariz.				San Antonio, Tex.			Omaha, Nebr.].		150
KPCB 1210 Seattle, Wash.				KTSL 1310 Shreveport, La.			WABC 860 New York City	100	ETH	-1635
KPJM 1500				KTSM 1310			WABI 1200		-	
Prescott, Ariz.				El Paso, Texas			Bangor, Maine			
KPO 680		1		KTUE 1420			WABZ 1200			
San F'ncisco, Cal. KPOF 880				Houston, Texas			New Orleans, La. WACO 1240		49	155 179
KPOF 880 Denver, Colo.				KTW 1270 Seattle, Wash.			Waco, Texas		-	100
KPPC 1210				KUJ 1500			WADC 1320	35.5		
Pasadena, Cal.				Longview, Wash.			Akron, Ohio			
									100	
		L			M			- 1	-	Par man

WAGM 1310	WCAX 1200	WEAU 570
Royal Oak, Mich.	Burlington, Vt.	Columbus, Ohio
WAIU 640	WCAZ 1070	WEAR 1070
Columbus, Ohio	Carthage, Ill.	Cleveland, Ohio WEBC 1290
WAPI 1140	WCBA 1440	WEBC 1290 Superior, Wis.
Birmingham, Ala.	Allentown, Pa. WCBD 1080	WEBE 1210
WASH 1270 Gr. Rapids, Mich.	Zion, Ill.	Cambridge, Ohio
WBAA 1400	WCBM 1370 \	WEBQ 1210
Lafayette, Ind.	Baltimore, Md.	Harrisburg, Ill.
WBAK 1430	WCBS 1210	WEBR 1810
Harrisburg, Pa.	Springfield, Ill.	Buffalo, N.Y.
WBAL 1060	WCCO 810	WEBW 560 Beloit, Wis.
Baltimore, Md. WBAP 800	Minneap., Minn. WCDA 1350	WEDC 1210
Fort Worth, Tex.	New York City	Chicago, Ill.
WBAX 1210	WCFL 970	WEDH 1420
Wilkes-Barre, Pa.	Chicago, Ill.	Erie, Pa.
WBBC 1400	WCGU_ 1400	WEEI 590
Brooklyn, N.Y.	Coney Is., N.Y. WCKY 1490	Boston, Mass. WEHC 1370
WBEL 1370	Covington, Ky.	Emory, Va.
Richmond, Va. WBBM 770	WCLB 1500	WEHS 1420
Chicago, Ill.	Brooklyn, N.Y.	Evanston, Ill.
WBBR 1300	WCLO 1200	WELK 1370
Rossville, N.Y.	Kenosha, Wis.	Philadelphia, Pa. WEMC 590
WBBY 1200	WCLS 1310 Joliet, Ill.	WEMC 590 Ber'n Spgs., Mich
Charleston, S.C	WCMA 1400	WENR 870
Ponca City, Okla.	Culver, Ind.	Chicago, Ill.
WBCM 1410	WCOA 1340	WEVD 1300
Bay City, Mic	Pensacola, Fla.	New York City
WBIS 1230	WCOC 880	WEW 760
Boston, Mass.	Meridian, Miss. ———————————————————————————————————	St. Louis, Mo. WFAA 800
WBMS 1450 Hackensack, N.J.	Harrisburg, Pa.	Dallas, Texas
WBNY 1350	WCOH 1210	WFAN 610
New York City	_ Yonkers, N.Y	Philadelphia, Pa.
WBOQ 860	WCRW 1210	WFBC 1200
New York City	Chicago, Ill.	Knoxville, Tenn.
WBOW 1310	WCSH 940 Portland, Maine	WFBE 1200 Cincinnati, Ohio
Terre Haute, Ind. WBRC 930	WCSO 1450	WFBG 1310
Birmingham, Ala	Springfield, Ohio	Altoona, Pa.
WBRE 1310	WDAE 1220	WFBJ 1370
Wilkes-Barre, Pa.	Tampa, Fla.	Coll'geville, Minn.
WBRL 1430	WDAF 610 Kansas City, Mo.	WFBL 1360 Syracuse, N.Y.
Tilton, N.H. 920	WDAG 1410	WFBM 1230
Well'l'y H'ls, Mass	Amarillo, Texas	Indianapolis, Ind.
WBT 1080	WDAH 1310	WFBR 1270
Charlotte, N.C.	El Paso, Texas	Baltimore, Md.
WBZ 990	WDAY 940	WFDF 1310
Springfield, Mass. 990	Fargo, N.D.	Flint, Mich. WFDV 1370
WBZA 990 Boston, Mass.	Roanoke, Va.	Rome, Ga.
WCAC 600	WDBO 1120	WFDW 1420
Storrs, Conn.	Orlando, Fla.	Talladega, Ala.
WCAD 1220	WDEL 1120	WFI 560
Canton, N.Y.	Wilmington, Del. WDGY 1180	Philadelphia, Pa. WFIW 940
WCAE 1220	Minneap., Minn.	Hopkinsville, Ky.
Pittsburgh, Pa. WCAH 1430	WDOD 1280	WFJC 1450
Columbus, Ohio	Chattan'ga, Tenn	Akron, Ohio
WCAJ 590	WDRC 1330	WFKD 1310
Lincoln, Nebr.	N. Haven, Conn.	Philadelphia, Pa. WFLA 620
WCAL 1250	WDSU 1250 New Orleans, La.	Clearwater, Fla.
Northfield, Minn. WCAM 1280	WDWF 1210	WGAL 1310
Camden, N.J.	Providence, R.I.	Lancaster, Pa.
WCAO 600	WDZ 1070	WGBB 1210
Baltimore, Md.	Tuscola, Ill.	Freeport, N.Y.
WCAP 1280	WEAF 660	WGBC 1430
Asbury Pk., N.J.	New York City WEAI 1270	Memphis, Tenn. WGBF 630
WCAT 1200 Rapid City, S.D.	Ithaca, N.Y.	Evansville, Ind.
INADIU CILY, D.D.		
WCAU 1170	WEAN 780	WGBI 880
WCAU 1170		Scranton, Ps.
WCAU 1170 Philadelphia, Pa.	WEAN 780	

WGBS 600	WHP 1430	WJR 750
New York City	Harrisburg, Pa.	Detroit, Mich.
WGCM 1210	WIAS 1420	WJSV 1460
Gulfport, Miss.	Ottumwa, Iowa	Mt. Vern. H'ls.Va
WGCP 1250	WIBA 1210	WJW 1210
Newark, N.J.	Madison, Wis.	Mansfield, Ohio
WGES 1360	WIBG 930	
Chicago, Ill.	Elkins Park, Pa.	WJZ 760
		New York City
		WKAQ 890
Newp't News, Va.	Jackson, Mich.	San Juan, P.R.
WGHP 1340	WIBO 560	WKAR 1040
Detroit, Mich.	Chicago, Ill.	E. Lansing, Mich.
WGL 1370	WIBR 1420	WKAV 1310
Ft. Wayne, Ind.	Steubenville, O.	Laconia, N.H.
WGMS 1250	WIBS 1450	WKBB 1310
Minneap., Minn.	Jersey City, N.J.	Joliet, Ill.
WGN 720	WIBU 1310	WKBC 1310
Chicago, Ill.	Poynette, Wis.	Birmingham, Ala.
WGR 550	WIBW 580	WKBF 1400
Buffalo, N.Y.	Topeka, Kansas	Indianapolis, Ind.
WGST 890	WIBX 1200	WKBH 1380
Atlanta, Ga.	Utica, N.Y.	La Crosse, Wis.
WGTB 1010	WICC 1190	WKBI 1420
Columbia, S. C.	Bridgeport, Conn.	Chicago, Ill.
WGY 790	WIL 1200	WKBN 570
Schnec'd'y, N.Y.	St. Louis, Mo.	Youngstown, O.
WHA 940	WILL 890	WKBO 1450
Madison, Wis.	Urbana, Ill.	Jersey City, N.J.
WHAD 1120	WILM 1420	WKBP 1420
Milwaukee, Wis.	Wilmington, Del.	Battle Crk., Mich
WHAM 1150	WIGD 1300	
Rochester, N.Y.	Miami Bch., Fla.	WKBQ 1350 New York City
WHAP 1300	WIP 610	WKBS 1310
New York City	Philadelphia, Pa.	Galesburg, Ill.
WHAS 820	WISN 1120	WKBV 1500
Louisville, Ky.	Milwaukee, Wis.	Connersville, Ind.
WHAT 1310	WJAC 1310	WKBW 1480
Philadelphia, Pa.	Johnstown, Pa.	Buffalo, N.Y.
WHAZ 1300	WJAG 1060	WKBZ 1500
Troy, N.Y.	Norfolk, Nebr.	Ludington, Mich.
WHB 860	WJAK 1310	WKEN 1040
Kansas City, Mo.	Marion, Ind.	Buffalo, N.Y.
WHBC 1200	WJAR 890	WKJC 1200
Canton, Ohio	Providence, R.I.	Lancaster, Pa.
WHBD 1370	WJAS 1290	WKRC 550
Mt. Orab, O	Pittsburgh, Pa.	Cincinnati, O.
WHBF 1210	WJAX 900	WKY 900
Rock Island, Ill.	Jacksonville, Fla.	Oklahoma City
WHBL 1410	WJAY 610	WLAC 1470
Sheboygan, Wis.	Cleveland Ohio	Nashville, Tenn.
WHBQ 1370	WJAZ 1490	WLAP 1200
Memphis, Tenn.	Chicago, Ill.	Louisville, Ky.
WHBU 1210	WJBC 1200	WLB 1250
Anderson, Ind.	La Salle, Ill.	Minneap., Minn.
WHBY 1200	WJBI 1210	WLBC 1310
Green Bay, Wis.	Red Bank, N. J.	Muncie, Ind.
WHDF 1370	WJBK 1370	WLBF 1420
Calumet, Mich.	Ypsilanti, Mich.	Kansas City, Ks.
WHDH 830	WJBL 1200	WLBG 1200
Gloucester, Mass.	Decatur, Ill.	Ettrick, Va.
WHDI 1180	WJBO 1420	WLBL 900
5.7.		Stevens Pt., Wis.
Minneap., Minn.	New Orleans, La	WLBW 1260
WHDL 1420	WJBT 770 Chicago, Ill.	Oil City, Pa.
TupperLake, N.Y.		
WHEC 1440	WJBU 1210	
Rochester, N.Y.	Lewisburg, Pa.	L.I.City, N.Y.
WHFC 1420	WJBW 1200	WLBZ 620
Cicero, Ill.	New Orleans, La.	Bangor, Me.
WHIS 1420	WJBY 1210	WLCI 1210
Bluefield, W.Va.	Gadsden, Ala.	Ithaca, N.Y.
WHK 1390	WJDX 1270	WLEX 1410
Cleveland, Ohio	Jackson, Miss.	Lexington, Mass.
WHN 1010	WJJD 1130	WLEY 1370
New York City	Mooseheart, Ill.	Lexington, Mass.
WHO 1000	WJKS 1360	WLIT 560
Des Moines, Ia.	Gary, Ind.	Philadelphia, Pa.
		The state of the s

LOE 1500	WNBO 1200	WPG 1100 Atl'ntic City, N.J.
oston, Mass.	Washington, Pa. WNBR 1430	WPOE 1370
hicago, Ill.	Memphis, Tenn.	Patchogue, N.Y.
/LSI 1210	WNBW 1200	WPOR 780
rovidence, R.I.	Carbondale, Pa. WNBX 1200	Norfolk, Va. WPSC 1230
rooklyn, N.Y.	Springfield, Vt.	State College, Pa.
7LW 700	WNBZ 1290	WPTF 680
incinnati, Ohio	SaranacL'ke, N.Y.	Raleigh, N.C. WQAM 560
/LWL 1100 ew York City	Newark, N.J.	Miami, Fla.
/MAC 570	WNOX 560	WQAN 880
azenovia, N.Y.	Knoxville, Tenn. WNRC 1440	Scranton, Pa. WOAO 1010
VMAF 1410 D'rtm'th, Mass.	Greensboro, N.C.	New York City
/MAK 900	WNYC 570	WQBC 1360
uffalo, N.Y.	New York City WOAI 1190	Utica, Miss. WQBZ 1420
VMAL 630 Vashington, D.C.	San Antonio, Tex.	Weirton, W.Va.
VMAN 1210	WOAN 600	WQDM 1370 St. Albans, Vt.
tolumbus, Ohio	Law'nceb'g, Tenn WOAX 1280	WRAF 1200
MAQ 670	Trenton, N.J.	La Porte, Ind.
VMAY 1200	WOBT 1310	WRAK 1370 Erie, Pa.
t. Louis, Mo.	Union City, Tenn WOBU 580	WRAW 1310
facon, Ga.	Charlest'n, W.Va.	Reading, Pa.
VMBA 1500	WOC 1000	WRAX 1010 Philadelphia, Pa.
lewport, R.I.	Davenport, Iowa WOCL 1210	WRBI 1310
etroit, Mich.	Jamestown, N.Y.	Tifton, Ga.
VMBD 1440	WODA 1250 Paterson, N.J.	WRBJ 1370 Hattiesburg, Miss.
'eoria Hghts., Ill.	WODX 1410	WRBL 1200
tichmond, Va.	Mobile, Ala.	Columbus, Ga.
VMBH 1420	WOI 640 Ames, Iowa	WRBQ 1210 Greenville, Miss.
oplin, Mo.	WOKO 1440	WRBT 1370
hicago, Ill.	P'ghkeepsie, N.Y.	Wilmington, N.C. WRBU 1210
VMBJ 1500 Vilkinsburg, Pa.	WOL 1310 Washington, D.C.	Gastonia, N.C.
VMBO 1310	WOMT 1210	WRC 950
uburn, N.Y.	Manitowoc, Wis. WOOD 1270	Washington, D.C. WREC 600
lrooklyn, N.Y.	Gr. Rapids, Mich.	Memphis, Tenn.
VMBR 1370	WOOP 840	WREN 1220 Lawrence, Kans.
'ampa, Fla.	Jeannette, Pa. WOPI 1500	WRHM 1250
1emphis, Tenn.	Bristol, Tenn.	Minneap., Minn.
VMCA 570	WOQ 1300 Kansas City, Mo.	WRJN 1370 Racine, Wis.
VMES 1500	WOR 710	WRK 1310
Boston, Mass.	Newark, N.J.	Hamilton, Ohio WRNY 1010
VMMN 890 Fairmont, W.Va.	WORC 1200 Worcester, Mass.	WRNY 1010 New York City
WMPC 1500	WORD 1490	WRR 1280
apeer, Mich	Chicago, Ill.	Dallas, Texas WRUF 830
WMRJ 1420 amaica, N.Y.	Jeff's'n City, Mo.	Gainesville, Fla.
WMSG 1350	WOV 1130	WRVA 1110 Richmond, Va.
Vew York City	New York City WOW 590	WSAI 1330
Naterico, Iowa	Omaha, Nebr.	Cincinnati, Ohio
VNAC 1230	WOWO 1160 Ft. Wayne, Ind.	WSAJ 1310 Grove City, Pa.
Boston, Mass.	WPAP 1010	WSAN 1440
Vorman, Okla	New York City	Allentown, Pa.
WNAX 570 Yankton, S.D.	Pawtucket, R.I.	WSAR 1450 Fall River, Mass.
WNRF 1500	WPCC 560	WSAZ 580
3ingh'mt'n, N.Y.	Chicago, Ill. WPCH 810	Hunt'gton, W.Va. WSB 740
WNBH 1310 New B'df'd, Mass.	WPCH 810 New York City	Atlanta, Ga.
WNBJ 1310	WPEN 1500	WSBC 1210
Knoxville, Tenn.	Philadelphia, Pa.	Chicago, Ill.
		South Bend, Ind.
The second secon		llege-region and the second

WSFA 1410	WTAQ 1330	1 11 XEB 670 1	163
Montgomery, Ala	Eau Claire, Wis.	Mexico City	1
WSGH 1400	WTAR 780	XEE 960	
Brooklyn, N.Y.	Norfolk, Va.	NEE 960 Pueblo, Pue.	
WSIX 1210	WTAW 1120	XEF 1130	
Springfield, Tenn.	College Sta., Tex.	XEF 1130	
WSJS 1310	WTAX 1210	Oaxaca, Oax.	
WinstSal., N.C.	Streator, Ill.		110
WSM 650	WTBO 1420	Monterey, N.L.	
Nashville, Tenn.	Cumberland, Md.	XEI 1000	
WSMB 1320	WTFI 1450	Morelia, Mich.	- 13
New Orleans, La.	Toccoa, Ga.	XEN 730	_
WSMK 1380	WTIC 1060	Mexico City	1
Dayton, Ohio	Hartford, Conn.	XES 1200	
WSOA 1490	WTMJ 620	C. Lerdo, Dgo.	
Chicago, Ill.	Milwaukee, Wis.	XEX 920	
WSPD 1240	WTNT 1490	Mexico City	
Toledo, Ohio	Nashville, Tenn.	XEY 550	
WSSH 1410	WTOC 1260	Merida, Yucatan	
Boston, Mass.	Savannah, Ga.	11 XFA 540	- -
WSUI 880	WWAE 1200	Mexico City	
Iowa City, Ia.	Hammond, Ind.	XFC 630	_
WSUN 620	WWJ 920	Jalapa, Ver.	-
St. Petersb'g, Fla.	Detroit, Mich.	XFF 920	-1-
WSVS 1370	WWL 850	Chihuahua, Chih.	20,000
Buffalo, N.Y.	New Orleans, La.	XFG 640	- -
WSYR 570	WWNC 570	Mexico City	
yracuse, N.Y.	Asheville, N.C.	XFI 590	-
WTAD 1440	WWDI 1000	Mexico City	
Quincy, Ill.	WWRL 1500	XFX 910	- -
VTAG 580	Woodside, N.Y.	Mexico City	1
Vorcester, Mass.	WWVA 1160		
VTAM 1070	Wheeling, W.Va.		10
Cleveland, Ohio	XEA 1200		1
Jierenara, Onio	Guadalajara, Jal.		1

The Short Wave Stations

		THE OHOIL WAVE	Stations		
Call	Station	Owner	City and State	1,4,45	1100
WIXAA	WRAH	Stanley N. Read	December 1	Meters	Watts
WIXAB	WCSH	Congress Square more (.n	Portland Main-		75
WIXAE	WBZ	Westinghouse Elec. & Mily (in	Springfield Mass	63.79	250
WIXAF	WEEI	Edison Elec. Inuminating Ca	Rogton M.	70.0	
WIXAG		Edison Liec, Illuminating Co	Roston Moss		750
W1XY	WBRL	DOULL ILAUIU LAIMPATAFIAR	Tilton NI II	107 100	
W2XA	WRMU	Yacht, "MU-1" Grebe Co.	New York	105-109	250
W2XAC	WGY	General Electric Co.	Schonostadu N. W		
W2XAD	WGY	General Electric Co	Cohomical NY TY	10.00	
W2XAE	WGY	General Electric Co.	Schopostoder NI 37	19.56	1
W2XAF	WGY				
W2XAG	WGY	General Electric Co.	Schonostoda, N. W.	31.48	12-20-20-2
W2XAH	WGY	General Freedite Co.	Sobonostoda. N. W.		
W2XAK	WGY				
W2XAL	WRNY	Aviation Radio Station, Inc.	New York	40.00	
W2XAO		Atlantic Broadcasting Co.	New York	49.67	500
W2XAQ	WOR	L. Bamberger Co.	Novorle N I	105.9	100
W2XAW	WGY	General Electric Co.	Schonostoder N. W.	65.4	50
W2XBA	WAAM	WAAM, Inc.	Nomale N. T.		-530
W2XBH	WCGU	Chas. G. Ungar	Conou Island N. M.	65.18	50
W2XBR	WBNY	Baruchrome Corp.	Now Voels City	54.02	150
W2XCD		DeForest Radio Co.	Passing N I	49.83	1 135
W2XE	WABC	Atlantic Broadcasting Co	Richmond Will M St	187.30	1
W2XZ		National Broadcasting Co.	Relimore I I	49.02	50
W3XAU	WCAU	Universal Broadcasting Co.	Philadelphia De	49.15	50000
W3XK		C. Francis Jenkins Labs.	Washington D. C.	49.50	Day Valley
W3XL	WJZ	Radio Corp. of America	Round Brook N. I	FO.00	2011
W3XN		Bell Telephone Laboratory	Whinners N. I.	59.96	30000
W4XD	WSM	Nat'l Life & Accident Ins. Co.	Memphis Tonn		CHAR
W4XE		William Justice Lee	Winter Perk Flo	81.43	
W6XA	KNX	Los Angeles Express	Log Angeles Cel	200.	250
W6XAD	KFWO	Lawrence Mott	Avelon Col	107.1	100
W6XAF	KNRC	Clarence R Juneau	Santa Manian Cal	53.07	100
W6XAI	KGGM	Los Angeles Radio Club	Log Angeles Cal	108.2	100
W6XAK	KFWH	F. W. Morse	Chica Cal	66.04	50
W6XAL	KFQZ	L. E. Taft	Hollawood Cal	108.2	50
W6XAN	KRLO	Freeman Lang	Los Angolos Col	66.04	50
W6XAR	KJBS	J. Brunton & Sons	San Francisco Col	105.9 32.	250
W6XAU	KHJ	Times-Mirror Co.	Los Angeles Cel		50
WEXAX	KGO	Times-Mirror Co General Electric Co.	Oakland Col	104.1	50
WEXAZ		Nelson Radio Co.	San Diego Cal	10-40	10000
1		[62]	Diego, Cal.	100.	50
)		102			THE RESERVE

		Los Angeles, Cal.	108.2	1200
WEXIBA	KFSG	Air-Fan Radio Corp Los Angeles, Cal. W. K. Azbill Holy City, Cal.		10000
WEXBE	KFBC	W. K. Azbill Holy City, Cal.	31-106	The second second
WOADD	KFQU	W. K. Azbill Holy City, Cal. W. E. Riker Gardin Las Angeles, Cal.	40-105	A - A -
WEXBH	KFWB		48.86	100
WEXBR			105.	5
Wexby	KGER		23.35	10000
W6XBX	KFVD		105.9	10000
WEXN	KGO			100
W7XAB	KFPY	Symons Investment Co Portland, Ore.	53-54	100
WIXAO	KWJJ	Symons Investment Co. Portland, Ore. Wilbur Jerman, Inc. Seattle, Wash. Northwest Radio Service Seattle, Wash.	105.2	
	KJR	Northwest Radio ServiceSeattle Week		
W7XC	KJR	Northwest Radio ServiceSeattle, Wash. Northwest Radio ServiceSeattle, Wash.		
W7XO			49.50	500
W8XAC	WHAM	Stromberg-Carlson Tel. Wig. Co Cincinnati, Ohio Crosley Radio Corp Detroit, Mich.	32.	75
W8XAL	WLW		66.04	500
W8XOA	WJR	Crosley Radio Corp. Detroit, Mich. WJR, Inc. Cleveland, Ohio Radio Air Service Corp. Columbus, Ohio		250
W8XF	WHK	Columbus, Ohio	54.02	
WSXJ	WEAO	Ohio State University Westinghouse Elec. & Mfg. Co Pittsburgh, Pa. Pittsburgh, Pa.	25.25	40000
	KDKA	Westinghouse Elec. & Mig. Co Pittsburgh Pa	10-150	500
W8XK	KDKA	Westinghouse Elec. & Mfg. Co Pittsburgh, Pa. Westinghouse Elec. & Mfg. Co Pittsburgh, Pa. Pittsburgh, Pa.	62.57	
W8XP			49.34	
W8XS	KDKA	Westinghouse filed & Mig. Concerning Chicago, Ill. Federation of Labor Omaha. Nebr.	105.	50
W9XAA	WCFL			•
W9XAB	WNAL	R. J. Rockwell Great Lakes Broadcasting Co. Chicago, Ill. Gouncil Bluffs, Iowa	49.83	500
W9XF	WENR	Great Lakes Broadcasting Council Bluffs, Iowa	61.06	900
WOAL	KOIL	Great Lakes Broadcasting CoCouncil Bluffs, Iowa		

February Changes

(Continued from page 18)

an old station, but the Commission

makes no report regarding it. Joseph Stokes, of Pittsburgh, Pa., reports a station WGM at Jeannette, Pa., alternating every Sunday with WOOP.

Radio Commission makes no report. C. M. Falconer, of Baltimore, Md., and others, report hearing a station with call letters WBAE. No such station is listed Could it be in government reports. WDAE, at Tampa, Fla.?

And who and where is KUKU?

We have just received notice that 18 stations will have their frequencies changed on March 2nd. These changes will be made in each index but they will be received too late to specify them here. Some fourteen other changes affecting important stations on cleared waves are Watch the April issue contemplated. for this reallocation.

Pity the Poor Editor

HE final authority in radio is the Federal Radio Commission. - sumably stations make no changes of any kind without its sanction. In a desperate effort to make this magazine 100 per cent correct, we study every report emanating from the Commission and check their records by comparis with the United States Daily, valuable newspaper devoted ent the business of state and national ments. But what is a poor edit when he cannot rely on the repor Commission?

On December 2nd, the Commission sent us a report that they had that day granted the following applications of broadcasting stations: KOMO, Seattle given full time on 970 kcs., KJR. Seattle put on 760 kcs., and KVI, Tacoma, Wash., given full time on 920 kcs Naturally we made these changes in the January issue only to receive a number of letters from our readers protesting the stations were still being received on their old frequencies. One subscriber sends in a letter from KJR stating that they are still on 970, where they have been since 1927. We are taking the statement of the stations and putting them back in their former frequencies in this issue.

It is our ambition to make RADEX not only the most interesting and the most helpful publication of its kind, but to keep it up to the moment and accuraalways. Readers can assist us greatly by notifying us promptly of any station that is received contrary to its listing in RADEX. But please make sure you have the last issue. We can then check such reports with the stations conce and make sure they are en index according to the are actually using

W'			VORITE			
y Si	tation Di	ials	Feature	Time Station	Dials WEDNESDAY	Peature
A	1 / 1	DAILY			WEDNESDAT	- 100
63	11.7	100				
APPL I	100	-4.				
						The State
				Harris Hall		
-						
			· · · · · · · · · · · · · · · · · · ·	100		
					THE PROPERTY OF A STATE OF THE PARTY OF THE	Special reference
		SUNDA	Y	SMIRALER	THURSDAY	
A Lat						GRAN CO.
				Note to Bank D		
75		1 (O) ID A			FRIDAY	
		MONDA	X		TRIDAT	
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and when the same						
				CONTRACTOR OF STREET		
13	¥-1	TUESDA	V		SATURDAY	
	W2XL W2XZ W3XAU	Wed				TO LOCAL TO LANGE
	W3XK W3XL	WJZ	Rau			ME IN
	W3XN W4XD	WSM	Rau Bell Telepi Nat'l Life & Acciue			
v C	W4XE W6XA	KNX	William Justice Lee Los Angeles Express Lawrence Mott	Contractor of the Contractor		
N.	W6XAD W6XAF	KFWO KNRC	Clarence R. Juneau	Samuel States		WE WAY
V C C W Nf W De	W6XAI W6XAK W6XAL	KGGM KFWH KFQZ	Los Angeles Radio C F. W. Morse L. E. Taft	uo		Total S
	W6XAN W6XAR	KRLO KJBS	Freeman Lang		医包含 医皮肤	
	W6XAU	KHJ KGO	General Electric Co			
	W6XAX W6XAZ		Nelson Radio Co	[62]		