

MIDSUMMER EDITION 1933

# RADIO IN DEX

A COMPLETE RADIO LOG OF THE WORLD



25<sup>c</sup>

Sweeping Changes in Canada  
How to Build a Simple Short Wave  
Converter

The Most Interesting Station in  
the World



# JUNE 1, 1933

## RADIO INDEX

Reg. U. S. Patent Office

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NUMBER 70

NINTH YEAR

## CONTENTS

Frontispiece—Mary Eastman

Coloratura Soprano of the Columbia System

The DX Calendar of Special Programs for June.....	1
Building a Short-Wave Converter, by B. Francis Dashiell.....	2
Remarkable Reception in the B. C. Band.....	5
Fading, Broad Tuning and Other Troubles, by the Technical Editor.....	7
The World's Most Friendly Station, by Amando Cespedes M.....	11
Trials and Troubles of the Editor.....	12
Short Stories of Your Favorites, by "Betty".....	16
This Summer on the Short Waves, by Page Taylor.....	19
Final DX Reports on the Closing Season.....	25
Fan Chat from the Pacific Coast, by Chas. C. Norton.....	31
He Tried to Prove DX Claims Impossible, by John De Myer.....	32
Verifying Under Difficulties, by Irving Van Zandt, Jr.....	33
The Monthly DX Round Table.....	34
"What's on the Air Tonight," the Monthly Programs.....	35
Classified Index to the Chain Features.....	44
The Month's Changes in Station Data.....	45
A Complete Index to the World's Broadcasting Stations.....	46
Broadcasters of the World by Countries, States and Cities.....	57
The One Hundred Best S. W. Stations by Frequencies.....	68
Call Letter Index to the 100 Best S. W. Stations.....	70
Quick Index to Station Data in Past Issues.....	80

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# JUNE DX CALENDAR

## Special Programs for Distant Listeners

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

SUNDAY NIGHT	SATURDAY NIGHT
June 4th	June 3rd
12:00-2:00—CMCH, 1405, Havana, Cuba.	12:00-4:00—WRBX, 1410, Roanoke, Va.
June 4th, 11th, 18th, 25th	June 24th
12:15-1:00—KSOO, 1110, Sioux Falls, S. D.	3:00-4:00—KDLR, 1210, Devils Lake, N. D.
1:00-3:00—WGES, 1360, Chicago, Ill.	June 3rd, 10th, 17th, 24th
MONDAY NIGHT	9:00-2:00—WWRL, 1500, Woodside, N. Y.
June 5th	12:00-1:00—WGBI, 880, Scranton, Pa.
4:30-5:15—WEAO, 570, Columbus, Ohio.	12:00-1:00—WJBK, 1370, Detroit, Mich.
June 19th	12:00-1:30—WWVA, 1160, Wheeling, W. Va.
2:30-5:00—10-BI, 1200, Prince Albert, Sask.	12:00-3:00—CMCD, 1140, Havana, Cuba.
June 12th, 26th	12:00-4:00—WNAC, 1230, Boston, Mass.
5:00-6:00—WAWZ, 1350, Zarephath, N. J.	1:00-1:30—WKY, 900, Oklahoma City, Okla.
June 5th, 12th, 19th, 26th	1:00-2:00—KQV, 1380, Pittsburgh, Pa.
12:00-2:30—WMIL, 1500, Brooklyn, N. Y.	1:00-2:00—KTFL, 1240, Twin Falls, Idaho.
1:00-3:00—WSUL, 880, Iowa City, Iowa.	1:00-2:00—WGBF, 630, Evansville, Ind.
5:00-5:15—WCAH, 1430, Columbus, Ohio.	1:00-3:00—WGES, 1360, Chicago, Ill.
5:15-5:30—WHP, 1430, Harrisburg, Pa.	1:00-3:00—WWAE, 1200, Hammond, Ind.
TUESDAY NIGHT	1:00-4:00—KGU, 750, Honolulu, Hawaii.
May 30th, June 27th	1:30-3:00—KMAC, 1370, San Antonio, Tex.
2:30-3:30—WCLO, 1200, Janesville, Wis.	2:00-3:00—CMGE, 1375, Cardenas, Cuba.
June 20th	2:00-3:00—CMQ, 630, Havana, Cuba.
2:00-3:00—WJMS, 1420, Ironwood, Mich.	2:00-5:00—KFEL, 920, Denver, Colo.
5:30-7:00—WRAK, 1370, Williamsport, Pa.	2:00-7:00—KGBU, 900, Ketchikan, Alaska.
June 6th, 13th, 20th, 27th	2:30-4:30—CKWX, 1010, Vancouver, B. C.
12:00-1:00—KFUO, 550, St. Louis, Mo.	3:00-4:00—KXL, 1420, Portland, Ore.
2:00-4:00—CFJC, 1120, Kamloops, B. C.	3:00-5:00—CFCT, 1430, Victoria, B. C.
5:00-6:00—KFGQ, 1310, Boone, Iowa.	4:00-6:00—KVOA, 1260, Tucson, Ariz.
WEDNESDAY NIGHT	4:00-6:00—XFB, 1290, Jalapa, Ver., Mex.
May 31st	
2:30-4:00—CHWK, 780, Chilliwack, B. C.	
June 7th	
2:00-2:30—WHBF, 1210, Rock Island, Ill.	
June 14th	
4:00-6:00—KFBI, 1050, Abilene, Kans.	
June 7th, 14th, 21st, 28th	
2:00-3:00—KFJX, 1200, Grand Junction, Colo.	
2:30-4:30—CKWX, 1010, Vancouver, B. C.	
THURSDAY NIGHT	
June 1st	
9:00-11:00—OFH, 1031, Viipuri, Finland.	
4:00-5:00—KASA, 1210, Elk City, Okla.	
June 1st, 8th, 15th, 22nd, 29th	
11:00-12:30—WHOM, 1450, Jersey City, N. J.	
12:00-1:00—KFUO, 550, St. Louis, Mo.	
12:00-2:30—WMIL, 1500, Brooklyn, N. Y.	
1:00-2:00—WBBX, 1200, New Orleans, La.	
1:00-2:00—WENC, 1420, Americus, Ga.	
FRIDAY NIGHT	
June 2nd	
4:15-4:45—WNBZ, 1290, Saranac Lake, N. Y.	
June 30th	
2:30-4:00—CHWK, 780, Chilliwack, B. C.	
June 2nd, 9th, 16th, 23rd, 30th	
12:30-1:30—WCAJ, 590, Lincoln, Neb.	
1:00-1:30—CFCN, 1030, Calgary, Alta.	
1:30-3:30—KGEK, 1200, Yuma, Colo.	
4:30-5:00—CMJH, 1150, Ciego de Avila, Cuba.	

## THE MONTH'S CHANGES

### FREQUENCY

570	WPCH	New York, N. Y., from 810
580	CJOC	Lethbridge, Alta., from 1120
580	CRCA	Moncton, N. B., from 630
600	CFCF	Montreal, Que., from 1030
630	CFCY	Charlottetown, P. E. I., from 580
630	HIX	Santo Domingo, D. R., from 579
690	HJN	Bogota, Colombia, from 685
730	CJCA	Edmonton, Alta., from 745
780	CHWK	Chilliwack, B. C., from 665
780	CKPR	Fort William, Ont., from 890
810	WNYC	New York, N. Y., from 570
880	CJRM	Moose Jaw, Sask., from 665
880	CJRW	Fleming, Sask., from 665
880	CRCO	Ottawa, Ont., from 600
890	CFQC	Saskatoon, Sask., from 910
890	CHML	Hamilton, Ont., from 880
910	CKY	Winnipeg, Man., from 780
915	CFRC	Kingston, Ont., from 930
930	CFCH	North Bay, Ont., from 910
930	CFLC	Prescott, Ont., from 915
1010	CHWC	Regina, Sask., from 960
1010	CKOD	Vancouver, B. C., from 730
1010	CKCK	Regina, Sask., from 960
1010	CKCO	Ottawa, Ont., from 890
1010	CKOC	Hamilton, Ont., from 635
1010	CKWX	Vancouver, B. C., from 730
1030	CFBO	St. John, N. B., from 890
1030	CFCN	Calgary, Alta., from 985
1030	CKNC	Toronto, Ont., from 960
1050	CHNS	Halifax, N. S., from 815

(Continued on page 45)

# BUILDING a Short-Wave CONVERTER

• • • By B. FRANCIS DASHIELL

**L**AST month a list of parts necessary for our short-wave converter was published, and if they now have been gathered together we are ready to proceed with actual construction. RADEX herewith presents exclusively for its readers a special converter circuit designed for this magazine. It is shown in Figure 1. Its originator, Mr. Henry K. Bradford, member I. R. E., is a well-known short-wave expert and technical official of the National Radio Institute, of Washington, D. C.

The converter employs a 58 type r.f. pentode tube as detector, and a type 56 for oscillator. The latter is a Hartley modification with its cathode coupled to the detector. The antenna control grid circuit of the detector is tuned with a short-wave variable condenser, while a similar condenser is used to control oscillations. These two condensers may be ganged on a single shaft, but it is not recommended for sets that are home constructed. It is practically impossible to build coils and circuits that will balance to perfection over the entire wave band.

## Converts S. W. to Long

The circuits have been designed to provide a "beat" frequency of between 1,000 and 1,500 kilocycles, to which the broadcast set must be tuned permanently while the short wave converter is used. The two frequencies—that of the incoming signal wave, and that created by the oscillator of the converter—are mixed together and create a "beat" note or frequency that in turn is fed to the antenna terminal of the broadcast receiver. In other words, the short waves are increased in wave length so as to fall within the tuning limits of the broadcast receiver.

For instance, if a short-wave sig-

nal is being broadcast on a frequency of 8,734 kilocycles, and the broadcast receiver is tuned to a silent spot that happens to fall upon 1,360 kilocycles, it will be necessary automatically to create a frequency of 7,374 kilocycles by tuning the oscillator condenser so that a beat frequency of 1,360 kilocycles will be sent into the broadcast set. Beat frequency equals the difference between the received frequency and the oscillator frequency. The antenna condenser tunes the detector to the incoming short wave and the oscillator creates a different frequency, so it can be seen how difficult it is to align the condensers on a single shaft.

## Making the Coils

There are two coils in use at one time when the converter is working. These coils represent the only difficult work in making this converter, and it is important that these instructions be carefully followed if satisfactory results are to be obtained. One coil is the antenna or detector coil, indicated by  $L_1$  and  $L_2$ , and the other is the oscillator coil,  $L_3$ . However, because each coil responds only to a limited portion of the short-wave band, it is necessary to wind a number of sets or pairs of coils. A total of eight will be needed, two to a set, or four pairs in all. Blank forms (16 to 23) for the coils are about 1½ inches in diameter, and are fitted with four prongs or pins to fit standard 4-contact sockets (11 and 12). They can be procured from any radio supply house, and many have bakelite handles to facilitate removal from sockets when changing to different wave-lengths.

All coils are wound with number 26 double-cotton-covered copper magnet wire. All must be wound in the same direction. Take four blanks for the detector coils, and four for the oscil-

lator coils. In the detector or antenna coil,  $L_1$  is the primary coil wound at the bottom of the form, and  $L_2$  is the secondary coil wound above  $L_1$ , but with a space of not more than ¼ inch between the two coils. Wind the wire tightly, evenly and carefully, with the ends passing directly to the proper pins to which they must be soldered.

For the 10-20 meter detector coil, wind 3 turns on the primary  $L_1$ , and 4 turns on the secondary  $L_2$ . For the oscillator coil on another form,  $L_3$ , wind 4 turns with a tap taken off at exactly 1½ turns from the bottom.

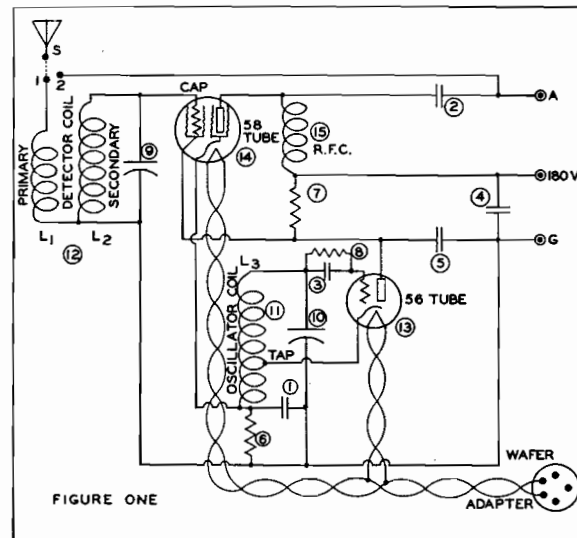
## LIST OF PARTS

One .001 mfd. fixed condenser (1)  
Two .0001 mfd. ditto (2 and 3)  
Two .1 mfd. ditto (4 and 5)  
One 5000 ohms resistor (6)  
One 50,000 ohms ditto (7)  
One 100,000 ohms ditto (8)  
Two .00015 mfd. variable condensers (9 and 10)  
Two 4-pin tube sockets (11 and 12)  
One 5-pin tube socket (13)  
One 6-pin tube socket (14)  
One 50-millihenry r. f. choke coil (15)  
Eight 1½ inch diameter plug-in coil forms, 4-prong to fit sockets 11 and 12 (16 to 23 inclusive)  
One wafer socket adapter to fit under any 2½ volt tube in broadcast receiver to obtain current to heat converter tubes.  
One 56 type super-triode oscillator tube, 5-pin  
One 58 type triple-grid super-control amplifier tube, 6-pin  
Small quantity of No. 28 d.c.c. magnet wire.  
Numbers in parentheses refer to similar numbers on the drawings.

For the 20-40 meter detector coil, wind 4 turns on  $L_1$ , and 8 turns on the secondary  $L_2$ . Its oscillator coil  $L_3$  has 8 turns, tapped 2½ turns from the bottom. For the 40-80 meter coil, wind 5 turns on  $L_1$ , and 18 turns on the secondary  $L_2$ . The oscillator coil  $L_3$  has 18 turns, tapped 6 turns from the bottom. For the 80-200 meter coil, wind 10 turns on the primary  $L_1$ , and 50 turns on secondary  $L_2$ . For the oscillator coil  $L_3$ , wind 50 turns, tapped 17 turns from the bottom.

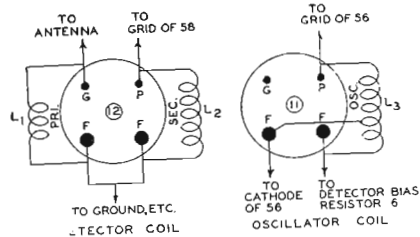
The ends of the coil wires—two from each the primary and secondary—of  $L_1$  and  $L_2$ , respectively, connect to the four pins of the base, while the two ends of the oscillator coil  $L_3$ , and the single wire cathode tap, connect to but three prongs of the base, as shown in Figure 2. One prong of the oscillator coil form remains unused. It will be noted that the number of turns of wire on the detector coil secondary  $L_2$  and the oscillator coil  $L_3$ , are equal. This gives the dials a tendency to track rather nicely.

The assembly of the parts may be



arranged on the base to suit the builder. But the two coils should be spaced as far apart as practicable so there will be no magnetic coupling between them. The oscillator coil  $L_3$  should be closely associated with its 56 type tube. All wires must be as short as possible for careful assembly. Shields over the two coils are not recommended, but the 58 detector tube should be placed within a metallic tube shield.

While the converter can be assembled on a wooden base and hard rub-



ber panel, a metal panel and base are advised. And, in fact, it will be well if the entire converter is built within a metal container. The metal panel, base, shields, partitions, variable condenser frames, and other parts, must be well grounded to the converter ground connection. A wire must connect this ground terminal to the ground connection or negative B supply of the broadcast receiver with which the converter is used.

## Securing Filament Current

The two tubes of the converter obtain their filament current from one of the tubes in the broadcast receiver. The additional load of 2 amperes on the filament winding of the broadcast set will not ordinarily affect the average a.c. set. A wafer adapter, with either four or five holes, to fit beneath some tube that takes 2.5 volts, is used for this purpose. The filament contacts of the 56 and 58 sockets (13 and 14) are connected in parallel with twisted cord to the wafer adapter. A switch to turn the converter on and off is inserted in one of the leads.

The plates of the two tubes require 180 volts. This is taken off also from the broadcast set at some point such as a common plate supply lead, voltage divider, speaker field coil, or in the filter system. Or 180 volts of B batteries can be used, and operation will be smoother and more quiet. Another wafer adapter can be utilized to connect to the plate of some tube that takes approximately 180 volts within the set.

After the radio-frequency choke

coil (15), resistors (6, 7 and 8), and fixed condensers (1, 2, 3, 4 and 5) are arranged in the proper circuit positions, the converter is ready to test. Terminal post marked "A" is connected to the antenna terminal of the broadcast set. The filament adapter is placed directly on top of a conveniently selected socket in the set and the tube replaced. Switch  $S_1$  of the converter is closed. When the converter is not in use it need not be disconnected. The switch is placed at  $S_2$ , which then connects the antenna directly to the broadcast set.

## Operating the Converter

Select some point on the dial of the receiver between 1,000 and 1,500 kilocycles where no signal or interference can be heard. Set the volume control at its maximum but without undue noise. With the antenna tuning condenser (9) remaining in one position, the oscillation condenser (10) is rotated until the characteristic "rushing" noise or sound is heard. This means that oscillation is taking place, and the beat frequency will be produced at the proper frequency to which the broadcast receiver is tuned. The two condensers are then simultaneously rotated, very, very slowly, until a short-wave signal is picked up. Further adjustment of these condensers, and perhaps a final micrometer adjustment of the dial of the broadcast set together with its volume control, should bring short-wave stations in at their maximum strength.

## CANADIAN CHANGES

Official data from the Canadian Radio Commission enables us to make the necessary revision in all of our lists. A number of stations do not appear in the official list. The presumption is that these will be deleted. They are marked with an asterisk in the list by calls. CJGC, London, and CKOK, Windsor, are combined with the call CKLW. This station will use 540 kcs. at least for a time.

## REMARKABLE RECEPTION

*in B. C. Band*

THOSE of us who give three cheers when we tune in Cuba can only stand aghast when we consider the reception recently reported by C. R. Caraven, 1840. East Georgia St., Vancouver, British Columbia. We have on our desk half a dozen really remarkable verifications of stations in the broadcast band.

The first is from Ostmarken Rundfunk, Königsberg in East Prussia, on the Baltic Sea east of Poland. It says in part: "After your communication, there can be no doubt that you have heard our sender. Your two noticeable tones, which were repeated three times, stand between pauses. The sender of Königsberg worked on 1382 kcs. *with a strong wave of 600 watts.*"

The second is from Radio Journal Praha XII, at Praha (The Prague) in Czechoslovakia and from it we quote: "There can be no doubt about your picking up our station although we are emitting on 614 kcs. and not at 616 (!) as you assumed. We are working with a power of 120 k. w. and 488.6 meters wavelength. This is the first time that we have been received in Canada and it would be very interesting for us to have a report from time to time." The exclamation point is our own. How could Mr. Caraven make such a big mistake as two kilocycles when reporting his reception?

The next is from Radio Bucuresti in Bucarest, Roumania: "The reception heard by you has been from station Bucurest. Herewith we acknowledge the reception by you of our program in the day of January 1st."

From CX-26, Montevideo, Uruguay, comes this: "At the same time as we thank you for your valuable data we have the pleasure to confirm to you that reception as that night we

made in fact a transmission dedicated to the hams at a great distance. Before becoming broadcasters we had been enthusiastic amateurs and it is in memory of our reception of DX then that we at times give those emissions dedicated to the radio amateurs. The detailed information that you gave us is for us of inestimable value for the care of the observations and for the considerable distance that separates us. We are pleased to inform you that you are the record-holder for reception from CX-26, Radio Uruguay, at a distance."

For good measure we have this verification from 7ZL, Hobart, Tasmania: "The information you give is correct and corresponds with our station log."

And somewhat in the short waves,





about 1713 kcs. to be exact, Mr. Caraven finds this one although he does not say whether he received it on his regular broadcast receiver or on a short wave set: From The Western India Wireless Association, Poona, India: "We have the greatest pleasure confirming your report of reception from our experimental transmitter VU2BY. This transmitter operates on 175 meters with ten watts input, but this last few days we have increased the output to 50 watts and now work on 42 meters between 8:00 and 9:00 p. m. I. S. T. We work Thursdays and Saturdays. Yours is the first real long-distance report we have had and I think, with the power employed, it must constitute a record for telephony anywhere."

"I have been DXing for many years," writes Mr. Caraven, "beginning at a time when foreign reception was considered impossible. It is my firm belief that DXers are today pioneering the field for that future when foreign reception will be an everyday matter. To those desiring

distant reception, it should hardly be necessary to emphasize the necessity of having a perfect aerial and ground, good tubes and soldered connections. Such factors are of vital importance for, without these, foreign reception can not be expected. I have found it essential to have up-to-date lists of transmitting stations, to know times in foreign countries and to have a systematic manner of logging. Through the years RADEX has fulfilled these requirements in every respect and without this assistance, I should not have been able to accomplish such reception."

Mr. Caraven has a Remler 10-tube Superheterodyne receiver, a single-wire inverted L antenna and an Ollie Ross ground. He is a member of the International DXers Alliance.

### A Phone Receptor

The Amplivox "Phone Receptor" enables the owner of any radio set to listen with phones to distant radio signals. The outstanding feature of the unit is its ability automatically to cut out the speaker at will, but without unbalancing the receiver. The Receptor should fill a long-felt want where listeners wish to DX during the static season or at late hours when the loudspeaker is undesirable.

The device is made for any type of 4, 5, 6 and 7-prong power tubes. One or two socket-prong adapters are connected with a five-foot cable to a metal headphone-jack box. In the case of push-pull power circuits the tubes are removed from the output stages of the set. The two adapters are then inserted into the sockets. The tubes are replaced in the top sockets of the adapters. When the phones are desired the plug is inserted in the jack box and the loudspeaker is automatically silenced without its circuit being opened. The jack merely connects the phones in series with the grid contacts of the power socket or sockets, and in turn grounds the grids of the power tube

(Continued on page 33)

# FADING, Broad Tuning and OTHER TROUBLES

• • • By the TECHNICAL EDITOR

**D**URING evenings and early mornings the radio programs come in good for a while, then the reception becomes blurred and distorted for a minute or so. Then it clears up but only to do the same things again. The service man checked my Philco 112 and found nothing wrong. It seems to do this on all stations. Is it a disadvantage of the automatic volume control?

Fading accompanied by blurring distortion is characteristic of distant reception, and is attributed to wave-interference. This is made more pronounced by automatic volume control, which brings the fading signal in strong at its lowest field strength at the time when wave-interference occurs. When signal fading is absent, the automatic volume control naturally is working at its minimum volume and the interfering station is drowned out and reception is clear. Then as fading comes on and the a.v.c. comes into action the interfering station becomes louder and you have distortion and blurring. When fewer stations are on the air there is less likelihood of so much station interference.

### Broad Tuning

*I have an Acme 6-tube receiver and it seems to tune very broadly on nights when reception is good. This prevents stations from coming in clearly at all times.*

The trouble you are experiencing is due to the fact that so many stations are now on the air. The more power a broadcasting station has, and the louder its signals are received, the more dial space it covers on a receiving set. When reception at nights is very good, signals come in

louder and more stations are heard. Thus, reception is spread out over a wider portion of the dial in a ratio proportional to the selectivity of the set, and more interference is noted.

Frequently selectivity in an old receiver becomes poor because of the accumulation of dust within the set. A radio set should be cleaned carefully twice a year. The plates of the variable condensers must be polished carefully and cotton pipe cleaners are best for this purpose. All parts should be brushed and dusted off. If tubes are old, they should be tested, and replaced if weak.

### Phones on AK 55

*I wish to attach headphones to my Atwater Kent model 55 set, but wish advice for this particular receiver.*

Your receiver has two power tubes in push-pull amplification. We suggest that you use the hook-up that is shown in Figure 4 of the article in the February issue of RADEX, as this corresponds to the circuit in your set. Use the wafer adapter shown in "A" of Figure 2 for the -45 tube, or the one at "B" for the -47 tube. Place an adapter beneath each tube in the same position shown in Figure 2. Insert the tube in its socket and press down on the wafer and fit snugly in place. Flexible wires, which have been soldered to the proper lug, as shown in Fig. 2, then run to the phones through the condensers and resistor. Two wires run from the output of the audio transformer which is fed by the two power tubes, either -45s or -47s. They terminate at the socket into which the speaker cable is plugged. The silencing switch can be placed in either one of these two wires which are colored yellow with



A microphone view of the broadcast of the Best Foods Musical Grocery Store. Herbert Polesie, Jeannie Lang and Tom Howard and his derby. NBC-WEAF net, Fridays at 9:00 p. m. EDST and again at 12:30 a. m.

a black trace through them.

### Locating Tubes

*Can you tell me the location of the various tubes and the value of the volume control in my Silver Marshall 9-tube receiver?*

We assume that your receiver is model 36A. The model 724 is identical, except that it has only three variable condensers in the gang instead of four as in the 36A.

Looking down upon the receiver, standing at the rear, the tubes are as follows: Left to right in a row beginning in the rear of the four-gang variable condensers—the first -24 is the radio-frequency tube; second -24, the first detector; third -27 is the oscillator; fourth -24, the first intermediate frequency tube; fifth -24, the second intermediate frequency; and sixth -24, the second detector. In the rear will be found the -80 rectifier, and two -45s, connected in push-pull audio power output.

The value of the volume control is 3,000 ohms. It is a simple potentiometer with the arm and one end connected together to one end of a resistor of 375 ohms which in turn is grounded. The other end of the control connects into the circuit. In the 724 model receiver this control is similar except that the additional 375 ohm resistor is not used between the control and the ground.

### New R.F. Amplifier

*What about the "Amplitenna" device, and will it increase the sensitivity of my receiver?*

The "Amplitenna" scheme, which has been published in another radio magazine, has not been tested by RADEX. However, it is said to increase antenna signals before they pass into the radio set. It is a sort of pre-stage signal amplifier. The drawback, which has always hindered these radio-frequency untuned amplifiers from being in wider use with radio sets, is that all static and other noises are so amplified as to prevent even fair reception on the set. A high noise level is handed the set right at

the start and cannot be eliminated. Such r.f. amplification schemes, when reception is clear and perfect, will tend to increase the range and sensitivity of smaller sets, those of few tubes and little or no radio amplification.

### Two-Volt Tubes

*I wish to use 2-volt tubes in my Radiola 20 battery set that now utilizes the -99 tubes. Please explain what to do.*

The -30 series of tubes can be used in your set in all positions except the power tube (now a -20), for which a -31 should be substituted. If you use a 6-volt A battery or an eliminator it will be necessary to insert a suitable resistance in the filament lead in order to cut down the voltage to the 2-volts needed for the new tubes. We recommend the use of a 2-volt storage cell or the new Aircell battery. The present volume rheostat will be turned all the way on, and slightly less if the Aircell is used. The resistance, if 6-volts are used, should be of 12 ohms and is inserted in series in the yellow A plus wire next to the rheostat. The same B battery for the -30s and the -31 power tube will be suitable, and the same holds good for the C battery now on the -20 tube.

### Short Wave Harmonics

*My short wave receiver brings in local stations and some others that are not on short waves. Also I use this set and keep it near my Radiola 3 battery receiver, using the same aerial and ground. What seems to be wrong here?*

All short-wave sets bring in harmonics of local or other strong broadcasting stations if their harmonics fall within the range of the particular short wave coil being used. These harmonics are always multiples of the original frequency and are two, three, four, five, etc., times the broadcast frequency. For instance, if a station broadcasts on 1,000 kcs., it will emit harmonics on 2,000, 3,000, 4,000, 5,000, etc., kilocycles—all of which

will be within the short wave range.

A short-wave set should never be placed in close proximity to another tuned circuit, such as a broadcast receiver. The latter may have serious effects on short-wave reception unless the latter set is very well shielded. A separate aerial must be used, and never run the two sets at the same time if fairly close together.

### Phones on Zenith 430

*My new Zenith, model 430 receiver, is a new one using dual-speakers and some new type tubes. How can I attach headphones to this circuit which is not fully covered in your February issue?*

You can connect phones to the two 59 power tubes, but you cannot obtain adapters for these 7-contact sockets. It will be necessary to make the connections to plate contacts of the power tube sockets. These may be located by looking down upon the sockets: The two large holes at the bottom are the filament or heater terminals; next on the right is the plate; two grids, numbers 1 and 3, are tied to the plate. Thus they all have the same potential. Any of these and the plate may be used to attach the phones as shown in Figure 4 of the February, 1933, article.

Or the phones may be connected as shown in the upper left-hand corner of Figure 3, by attaching to the 59 driver tube in the right rear corner of your Zenith chassis. Connection is made to the plate of this tube. You can also attach the phones to the 56 first audio tube with a 5-hole wafer adapter. The dual speakers are connected together, and the wires leading from the output transformer may be considered as feeding just a single speaker. The silencing switch may be put in either of the leads from the transformer output.

### A Separate A.V.C.

*Can I procure a separate automatic volume control device to attach to my receiver which is not so equipped?*

We do not know of any separate automatic volume control that can be



*No wonder Raymond Knight goes "Cuckoo" listening to a perfectly charming singer like Mary McCoy flatting her notes in burlesque. For she can sing. She had leading roles in two Broadway operetta hits after studying under Mme. Schumann-Heink. At 10:30 p. m., Saturdays, EDST, on the NBC Blue chain.*

attached to a radio set. Because the automatic volume control is a complicated affair, requiring changes in wiring and the circuit of the receiver, we doubt whether the idea is practicable. When a.v.c. is designed for a set having only manual control it must be built within, and attached to, the parts and circuit of the broadcast receiver.

### RCA 50 With New Tubes

*Can new tubes be used in my RCA-Victor model 50 receiver?*

The first r.f. tube in your set, a -35, may be replaced with a new 58, provided a suitable adapter to convert the present 5-contact socket to a 6-hole socket is used. We believe a small improvement will be noted, and there will be a saving of current consumed. We do not recommend changing the first and second detectors or

intermediate frequencies. The -47s in power amplification cannot be improved upon in this set.

#### Converter With AK 85

*Can my Atwater Kent model 85 receiver be used with some kind of short-wave converter?*

Your receiver can be used with any short-wave converter on the market. See the March, 1932, and May, 1933, issues of RADEX for articles on these converters. The instrument is simply attached to your receiver and all short-wave tuning done by a single control on the converter instead of the broadcast set. They are very satisfactory, and perhaps you have read of some of the remarkable results our readers are obtaining with this kind of radio reception.

#### Dial Reads 0 to 100

*The dial of my Stewart-Warner short-wave converter reads 0-100. How can I tell where different frequencies can be located?*

Since your dial on the converter is divided into 0 to 100 spaces it is difficult to state where certain kilocycles will be found without experimentation. The preparation of a curve from a few known stations is the most satisfactory plan. This converter has two switch positions and the dial readings change when the switch is moved. Thus, if a straight-line variable condenser is used, the 0 reading should be for either 15 or 65 meters, and the 100 for 65 or 200 meters, provided the entire coil and condenser is used when tuning. This is purely problematical. At 50 on the dial with the low and high wave switches, you should get either 40 or 135 meters, respectively. Various other wave lengths or frequencies should be heard at intermediate points, and these can be calculated. But since these are theoretical readings, actual wave lengths may be found some spaces to either side of the estimated number on the dial.

#### 60 vs. 30 Cycles

*Will my Majestic "B" eliminator,*

*which works on 110 volts at 60 cycles, operate the same on house current of 30 cycles in another locality?*

No alternating current device designed to operate on 60 cycles will operate satisfactorily on 30 or 25 cycles. If you use your eliminator on 30 cycles it will not deliver its full output and there will also be much hum. The primary coil of the transformer will tend to heat up and use considerable current. The resistance of a coil of wire at 60 cycles is higher than at 30 cycles, and therefore the coil becomes a carrier of more current which it cannot absorb—it is a partial short-circuit across the 110-volt line to which it is attached. There is nothing that you can do except replace the transformer and parallel condensers in the filter system, which latter should be twice the size of the originals, in order to reduce the hum that would otherwise arise.

#### Short Wave Circuits

*Which is the best for a 2-volt and 3-tube short-wave circuit: One r.f. tube, one detector tube, one audio frequency tube; one detector, two audios; or two r.f. tubes, and one detector tube?*

We believe you will obtain better gain if you use a -32 tube as a radio-frequency amplifier and a -30 as a detector, with a -31 tube as an audio amplifier. Two stages of r.f. followed by a detector will give greater gain, but the volume will be low because there is no audio amplifier tube. Of three tubes, therefore, a r.f. amplifier, a detector, and an audio amplifier, will give the best all-around service and satisfaction.

#### 140 Zenith Tubes

*Can I change the tubes in my Zenith model 140 receiver to still newer types and get better satisfaction?*

Your receiver now employs 56, 57, 58 and 59 tubes. We cannot advise any change from these tubes. This set is the latest, except in a few re-

*(Continued on page 79)*

## THE WORLD'S Most Friendly STATION

• • • By AMANDO CESPEDES MARIN

Editor's Note: We are pleased to present this message to our readers from the builder and operator of what is undoubtedly the most unique station in all the world, TI-4-NRH. We are giving it in the author's own words that our readers may enjoy the pleasant sincerity of the writer. In no other way could they catch the extreme friendliness which the author so evidently feels for the radio listeners of all the world.

**F**IVE years ago, by this time, the waves from a little tiny broadcaster were sprouting from 3800 feet shack, in the ever green mountains of near-by the city of Heredia, in the Benjamin Republic of the Americas, the girdle of the Continent, known as Costa Rica.

And since then all the readers of RADEX have known more or less of the marvellous success of the old NRH, a pure amateur station, built for fun and maintained through out by the help of amateur fans in the world, all admiring the so many events occurred in the "junk" amidst friendship, flowers and coffee trees.

It is the only known case in the world, that with tiny 7½ watts power, the whole continents were conquered with mere broadcasting efforts to please, in three years. Then, for two more years the power was increased



*Here's one reason why visitors try to witness the broadcast of Pond's Program each Friday night at 9:30 EDST in the Red studios of the NBC. Her name is Lee Wiley.*

to 15 watts, and with them the NRH obtained long DX records from India, Russia and Japan, Denmark, Holland, and South Africa, not obstant that North and South America became obsolete to the waves, for some skip effects.

It has been all very queer, and today, when the NRH files have 16,800 letters from 46 countries on earth, you can not but repeat the phrase of Mr. Riple in Massillon, Ohio, which reads: "—and I certainly hope we all hear you daily from now on, as you seem to be the only friendly station there is anymore."

#### Broadcasting Is Fun

It is all love down here and fun, therefore we all make merryment, and when Miss Cespedes speaks, we laugh and when my boy plays the piano we applause and when the music is pretty I whistle, no matter if 52 years is upon me. I am just beginning to live. And radio is my plaything. The voice of the youngest announcer is that one of Alvarito, 4 years old, and the only announcer in the world, which has been heard ever since 45 days old.

The NRH has been a friend and it ever will be, because she does not carry paid up advertising of any nature, but that of his owner announcing his gospel of Friendship, or the headquarters of the Union Radio Americana, a big Club started for and by the listeners and radio followers in the American Continental countries, under the Spanish language domain.

The station works every evening from 4:30 to 5:30 p.m. central standard time, and is using two bottles DeForest type 503A in push pull, which nominally most give at least 200 watts. The modulation is done with two 845 type jugs, but one of them is under silence, and thus, some

*(Continued on page 79)*

# TRIALS *and* TROUBLES

## of the EDITOR

THE May issue of this compendium of radio information was all ready for the press when the first reports of the kilocycle earthquake in Canada first reached us. Time and Tide and RADEX can wait for no man. Much as we disliked to do so, we had to let the May issue go forward without the latest Canadian data.

Press reports from the Dominion are apprehensive that this reallocation is merely prophetic of others yet to come and that the new Radio Commission in Ottawa is going to follow the modern education principle of "learning by doing." Many complaints of conditions following the recent shift are coming from Canada, some intimating that it is all a part of a vast conspiracy on the part of the new Commission to keep U. S. vibrations out of Canada or at least out of Canadian sets.

Our sympathy goes both to Canadian listeners and to the new Radio Commission. It's some problem. We hope that we shall be able to give a complete picture in the proper departments of this issue of the Canadian broadcasting situation "as is." Some of the reports that have reached us are contradictory and we are awaiting official word from the Ottawa authorities.

### Radio in A B C

Our Technical Editor has under consideration a series of Simple Lessons in Radio to start with the September issue. These would be written in as nearly non-technical language as may be used to present a highly technical subject. The plan is to begin with the simplest phase of radio and lead the reader, through a series of ten monthly lessons, into an understanding of the real principles underlying radio. These articles would

constitute a home-study course in radio. How many of our readers want Mr. Dashiell to prepare such a course? Let us hear from you. As the ads say, "Write now—today."

For years we have wanted a really good world globe large enough to be of real, practical value. We have found it at last and one of them now ornaments your Editor's desk where it is used daily. It is surprising what a different aspect the countries of the world take on when presented in globe form and how many things are made clear that cannot be grasped from a series of maps on different pages. Heretofore a good large globe cost from \$15.00 to \$20.00 but at last we have found one at a very reasonable price and we are passing the advantage on to our readers. With one of these globes and a RADEX Time Converter, the radio listener can say "OK, Australia."

### Building Sets

There is still a widespread interest in building a set of one's own, particularly the smaller sets of one, two and three tubes. No music seems quite so sweet as that which comes from a set which one has himself created. As a child is to its mother, so a radio set is to the one who constructs it.

"Now that we have heard so much about two-tube records, why not have a one-tube set competition and see who can build the best set ('bloopless' by all means), and the most efficient hookup using one of the new tubes," suggests Douglas Wauchope, 501 S. Candler St., Decatur, Ga. "Those who 'bloop' should be disqualified and also remembered! Do you think there is anything in the theory that double-wire aerials are less efficient than single? I have been told that each wire has a tendency to neutralize the other, thus lowering the

signal strength. At the present time, my aerial consists of a double copper ribbon system replacing a seven-strand one. Now I notice more difference on my crystal set than my tube receiver. Stations come in much louder on the former receiver than before, while there is some, though not as much difference on the latter. Perhaps the ribbon gives greater pick-up than the wire, but has anybody really settled this question of multiple-wire aerials?

"Incidentally, some of your readers might be interested in my crystal set, which is the most selective that I have ever been able to build. Living only two miles from WSB's transmitter and six from WGST, the first can be practically eliminated while the latter comes in fine even with only one-twentieth the power. All this on my double-wire aerial about 175 feet long. With this arrangement. I have listened to WENR, WSM, KDKA, WLW, WGST, WSB and one other Chicago station. No battery is used to bias the crystal. Anyone desiring this hook-up may have it by sending me a stamped, addressed envelope. Do you know anything about the 'Tunicoil' tuner manufactured by the Radio Products Co., of Kansas City, Mo.?"

"Here is another entry for your 'baby' department, which seems to be ever growing," remarks Bill McPherson, 134 Murray St., Peterborough, Ont. "I have my home-made one-peanut tube set, on which I have received 202 stations in a little over two months. I have received all the 50 k.w. stations in the U. S., 4 stations in Mexico, CMJK and CMAF, Cuba. Some of my best catches in Canada are CKY, CKCR, CFCO and CHGS. I would like to know when to tune in KOB."

We hesitate to give records made on regenerative sets for fear we will encourage readers to build such sets which are nearly always unpardonable squealers and may easily cause annoyance to other listeners for blocks around. Richard Hanau, 308



A favorite of many thousands of children, Madge Tucker plays "The Lady Next Door," Mondays, Tuesdays, Thursdays and Fridays at 4:45 p. m. EDT and Saturday at 5:00.

West 11th Street, New York City, writes us of two one-tube sets he has built, the first one using a screen-grid tube and the second a 230. He logged a total of 301 stations with the two sets.

### The 24 Hour Pest

"I wish to refer," writes H. F. Strain, 15031 Vose St., Van Nuys, Calif., "to the article on page 19 of the April number by Mr. Alfred H. Bacon, New Westminster, B. C. I think his article is swell in regard to the 'wave hogs' and I most heartily agree with him, and especially in regard to our local KGFJ. I have been DXing since 1925 and I have been knocked out of getting nearly every station on the 1200 channel simply due to KGFJ. The only ones that I have on that channel are stations that I got at some time before they went on that frequency. I think it is an outrage and a shame. I know that



there are many more DXers who agree with me. It does seem as though if enough pressure was brought to bear and enough protests sent in that we could get the F. R. C. to do a little something about it. I would suggest that we all pull together and try to get KGFJ to sign off for at least one hour a night, say from one to two, or two to three, during the DX season each year, say from the first of October until the first of May. I don't think that would be asking too much and it would give us DXers here on the coast at least an even break. It would then show that KGFJ was at least human anyway."

#### And the Unlicensed Station

"Here is some more dope on outlaws," complains R. B. Rolfe, 1741 Burnett Ave., Waco, Texas. "The Rosebud station, 720 kcys., has apparently gone off the air, as I can't raise him any more. But there is BLTX on 1000 kcys., in Belton, Texas. They use the slogan 'The Playground of Central Texas' and there is also a station in Taylor, Texas, on 980 kcys. They don't have any special time on the air, as I get them at odd times. The Belton station also comes in at odd times. The Taylor station has never given any call other than 'This is the Cotton Belt station in Taylor.' There is also a station in Temple, Texas, with studios in the Doring (?) Hotel. Their call is also a slogan, 'The Voice of Bell County,' which is all I have ever heard them announce. What has become of XEPN? I can't get him any more. He used to be good 24 hours a day, on 585 kcys., but now I can never get him at all. My radio is a Philco Model 90 9-tube Baby Grand, and 1500 kcys. is as low as the dial reads. The Home Benefit Life Insurance Assn. station in Marlin comes in about as far as 30 kcys. would be below 1500. Are they a shortwave station? My pals say they are. I don't see how they could be."

Arthur Johnson, Secretary Newfoundland Boxing Commission, Box

E5103, St. John's, Newfoundland, sends us this interesting information: "Re: Wrestling Match Enquiry, page 27, April RADEX. While I cannot verify the source of the program, this may throw light on the subject. Wrestling by 10-minute rounds is common in many parts of the British Empire—England, South Africa, New Zealand, Australia (and we have also had some of it here). The short periods and rests give faster and more varied action when the wrestlers are used to the system. Therefore it is safe to assume that it was an Empire station, and from the time of reception, to select New Zealand (or perhaps Australia) but wrestling is more popular in the former."

#### Some Station Affinities

"Alfred H. Bacon, New Westminster, B. C., writes for help about stations who almost absolutely block various kilocycles," writes Miss C. A. Brinkerhoff, 317 Clinton Ave., Oak Park, Ill. "Now I have never been able to tune in KGFJ on 1200 kcys., though I do get KERN and KWG. It seems to me that various radios have super-sensitiveness, for if I bring in a station once that special one is almost always in evidence. On 570 kcys. WEAO and WNOX are always there in full force, and only in specially good DX weather can other stations cut in. On 580 I can sometimes cut through WIBW. On 600 WMT, Waterloo, Iowa, day and night is never silent it seems to me. 620 gives WTMJ; 660 WEFM; 880 WSUI; 910 XEW; 960 XEAW; 1200 WWAE; 1210 WSBC or WEDC; 1300 KFJ; 1310 WCLS or WKBC spoils all DX usually until after 11:00 p. m. KFJZ is ever evident on 1370; WHFC drowns out everything on 1420 until early morning. These are a few stations which bother me for early DX. Perhaps after 1 or 2 a. m. it would be better and locals would be off also, but it is marvelous how a fine selective radio can act so strangely at times."

Our good friend, Raoul Karman of

CMCF, Havana, Cuba, helps us materially in bringing our Cuban data up to the moment. He thinks there will be three or four new stations in that country soon. Senor Karman adds: "I must congratulate you on your campaign for better reports which has already given splendid results. The percentage of doubtful reports in two late programs I gave this season, was almost Zero—only two or three 'stamp-collectors' in 140 reports."

"May I make a suggestion?" inquires Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio. "In your list by frequencies, instead of listing the Mex's as being in Juarez, Mexico; Morelia, Mexico; N. Laredo, Mex., etc., why not list them by their states? We know that since their calls begin with 'X' they are in Mexico, but in order to find the state, have to look in the list by states. Would it be possible to list them as Juarez, Chih.; Morelia, Mich.; N. Laredo, Tams.; Mexico City, D. F., etc.?"

This suggestion is well made and there is no reason at all why it should not be put into effect.

#### Converter Brought Zealand

W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va., reports that he has just brought in his first really distant broadcast station. Says he: "Received my RADEX Map and Time Converter a few days ago and have certainly put it to use. I surely do urge those other DXers who have not as yet sent for theirs, to do so immediately. It has enabled me to bring in ten new stations on the short waves and is responsible for my first New Zealand long-waver."

"Early on the morning of April 23rd, I received a station on 1170 kcys. with the call letters of WJKY, Sandusky, Ohio," reports George R. Schneider, 3148 Yorkshire Road, Cleveland Heights, Ohio, who wants to know what this station was doing on the broadcast band. Who knows WJKY?

Sufficient data for a DX Club Di-



Presenting the "Men About Town" who provide the vocal harmonies for B. A. Rolfe and his Terraplane Orchestra on the Saturday Night Dancing Party over the NBC Red network at 10:00 p. m. EST. Will Donaldson and Frank Luther (top) and Phil Dewey and Jack Parker (bottom).

rectory will not reach us in time for this issue. We hope secretaries of the clubs will send us the information requested in the May issue, so that we may have a complete roster of the leading DX Clubs of North America in our September issue.

"May I draw your attention to the fact that station WKAU, Laconia, N. H., mentioned in the April RADEX, has been off the air for at least two months?" complains B. B. Bosworth, 50 Clymer St., Burlington, Vt.

"I listened to a DX program over XEFV, Juarez, Mexico, on March 26," writes Charles Meyer, Jr., 411 Blake St., St. Joseph, Mo., and I distinctly heard them say that XEFV was the greatest little 50-watt station in the world, while in the April RADEX you list them at 100 watts."

# SHORT STORIES of your FAVORITES

• • • By "Betty"

**A** RUNAWAY boy from New York, hungry and broke, leaped at the chance to make fifty cents by appearing in an amateur night show at the Bowdoin Square theatre in Boston.

Years later that boy became the first \$5,000 a week headliner and master-of-ceremonies in the great picture-and-vaudeville houses of America.

Now the boy, Phil Baker, is starring on the Armour program, heard every Friday night over a coast-to-coast NBC (Blue) network at 9:30 p.m. EDST.

The story of Phil's stage career, from that amateur night in Boston, covers well over twenty years.

Returning to his New York home after the runaway to Boston, he eventually became secretary to Carl Laemmle in the old IMP Film Company. Mary and Lottie Pickford and King Baggot were the company's stars. Bored by a secretary's chores, young Phil spent all his leisure moments at a movie house around the corner from his home. He almost lived there, he says, sitting down front and watching with envy the nimble fingers of the girl pianist. One hot night the girl was taken ill and had to leave. The picture was continuing without music when Phil, without invitation, slipped down to the piano and began to play. He could only play three tunes, among them "Hearts and Flowers," but the manager gave him a job, and he was really started on his career.

## And Then to Vaudeville

Phil's first real stage venture was in vaudeville, accompanying a violinist on the piano. Later he formed the team of Bernie and Baker with Ben

Bernie, the "Old Maestro" of today. By that time Phil had deserted the piano in favor of his accordion. When the team split, each became a star in his own right. When America entered the World War, Phil joined the Navy. "That did wonders for me," he declares. "I never had the nerve to speak a line on the stage until I put on that uniform. And now, well, even Beetle can't keep me quiet."

A flash at Phil's career since the war years brings in the names of some of the most successful musical comedies and revues the American stage has seen. He was starred in



With Myrtle Vail out of "Myrt and Marge" by reason of an automobile accident, Bobby Brown, director of the series, is a busy man. In addition to directing, he now writes the script, a task formerly performed by Myrt. Here's Brown conferring with Marge on the new plot which, by reason of necessity, revolves about the question, "Where is Myrt?"

"Greenwich Village Follies," and in the "Passing Show." He was a leading factor in the two-year run of "Artists and Models." He was the star in the "Music Box Revue." His comedy and his accordion helped a "Night in Spain" to its successful run of two years.

Only a little more than a year ago, Phil, teamed with Fanny Brice and Ted Healey in "Crazy Quilt," astounded the theatrical world by carrying that production to every key city and every likely one-night-stand in the country.

Outstanding in Phil's record is a run of twelve consecutive weeks in the Palace Theatre in New York. That was the achievement that made him the first \$5,000 a week headliner in history. Phil acted as master-of-ceremonies in addition to producing his own act.

Strange as it may sound, Phil doesn't relish the idea of being called a comedian. Every time he begins rehearsal for a new show, he extracts a promise from the management that he be given one classical solo on his accordion, and he has carried that idea into his radio programs.

## The Rise of "Myrt"

Once upon a time there was a beautiful chorus girl who fell in love with the tenor lead. The girl was Myrtle Vail, known to several millions of radio listeners as "Myrt." The tenor lead is George Damerel, famous as the "Prince" during the long run of "The Merry Widow."

Myrtle stepped into the theatrical picture at the age of fifteen, in the back row of the chorus in the then-current show, "The Umpire." From her isolated position she took one long look at the rising star, Damerel, and fell in love. Damerel was so busy with the make-believe love-making on the stage that more than a year passed before he realized the real thing was going on back stage. Then came a prompt marriage and one of those story-book types of stage partnerships.



Phil Baker and his Accordion

They have two children—the daughter, christened Donna, is now better known as "Marge," her mother's partner in the "Myrt and Marge" show. The son, George, Jr., is now 14 years old, a student in a California military academy.

Two years after their marriage the Damerels were playing opposite one another in "The Merry Widow." When Franz Lehar wrote the first condensed version for vaudeville presentation this couple grabbed the rights and toured the big-time circuits with the piece, as "Damerel and Vail." In eight years they crossed the continent eleven times in the two-a-day. Then young Donna was placed in a private girls' school in Chicago, with instructions that anything pertaining to the stage be omitted from her curriculum. Myrt went into temporary retirement, and George, Jr., appeared on the scene.

A year later she was back with her husband in vaudeville. This time she was writing the acts.

When Donna was fifteen, she served notice on the family that she was joining their act, or some other act—this in spite of the private school influence. The show became Damerel, Vail & Company," Donna being the "& Company." For two years she toured with mother and dad. Then they bought a chicken farm, and took up real-estate as a sideline, and a sub-division was soon flourishing.

When the stock market took its famous nose-dive, dragging real estate values along with it, Myrt remembered those vaudeville skits she once wrote. She remembered all of the real-life tragedies and comedies behind the scenes, often far more vividly than those before the foot-lights—and "Myrt and Marge" was born. Of course, there were a few difficulties in getting those first sample scripts before P. K. Wrigley, but a girl who'd spent some sixteen years fighting for success could hardly be stopped by a half-dozen secretaries. And in radio Myrtle Vail has attained a success greater than that afforded by musical comedy, vaudeville, chicken-farming, or real estate.

#### The Official Weeper

Most young ladies can get along with their weeping with the aid of a small hankie, but earning a living by crying requires more equipment. And any time you hear a baby crying on NBC programs, you can be pretty sure it is Sally Belle Cox, aged twenty-five.

The beginning of Miss Cox's unusual professional career was described in a recent issue of the New Yorker magazine. "Miss Cox seemed destined for a tearless life when, five years ago, she got a job at an orphan asylum in Cleveland," the New Yorker said, and told how she amused the children by imitating a wailing child. "It brought down the house, and the squawler shut up and let somebody squawl that could squawl. One day she read in the paper that the one sound the radio people had had no



Sally Belle Cox

success in imitating was the wailing of a baby. Miss Cox put on her hat and went right up to the National Broadcasting Company. She cried for several officials, and was solemnly hired."

She uses the pillow to help her cry in various ages, from an hour to fourteen years old. She laughs and coos, too, and her varied imitations are heard on many NBC programs, including the Maxwell House Show Boat, on Thursdays at 9:00 p.m. EDT, over an NBC (Red) network, on which she has the important role of Henry Maxwell.

\* \* \*

You can't tell these radio artists by their names—particularly after the numerologist has been working on them. Latest to fall under the spell of the "number lady" are the Neil Sisters, that trio of blonde blues singers. In the home town of Indianapolis, Lucille, Ann and Gwyneth are known as the Neal girls. But they were told that luck, fame and fortune awaited them if they put an "i" in their name.

## THIS SUMMER on the SHORT WAVES

• • • By PAGE TAYLOR

MANY of our readers who are constructing the converter described in Mr. Dashiell's department are probably wondering just what they will be able to hear on it before "good DX commences again in the winter." These persons who have tuned exclusively in the broadcast band may be surprised to learn that the greatest distances are more easily accomplished on short waves during sultry summer weather than during the winter months. Many stations are very difficult to tune during the winter while they are heard with tremendous volume in the summer. This is particularly true of the Australian stations.

On completing the converter the builder should confine a few days to becoming familiar with it, following the procedure outlined in the article "Breaking into the Short Waves" in the May number of RADEX. After the required fundamentals have been acquired, if the tuner will confine his efforts to the ten best stations mentioned this month he will avoid many pitfalls usually encountered by the beginner. Perhaps of greatest interest among the stations listed are the two Australian stations.

#### The Friendly Australians

These friendly stations are among the oldest short wave stations in the world, VK2ME having broadcast the first British Empire Program on September 5, 1927, on a wavelength of 28.5 meters. Since that time Amalgamated Wireless has pioneered in many radio activities, adding immeasurably to our store of radio knowledge. Their efforts to please by transmitting interesting and instructive programs are earning for them the reputation once held by PCJ, that of being the station with the largest audience in the world.

The present series of World Wide

Broadcasts was inaugurated on July 5, 1931, and continues to hold the interest of thousands of fans. These programs are transmitted every Sunday morning and may easily be heard by anyone with the most simple kind of receiver. The schedule of 2ME is changed slightly each month so as to obtain optimum results in each zone to which the various parts of the program are addressed. The schedule for the next three months will be as follows, time in EST.

June: 12 to 2 a. m.; 5 to 9 a. m.; 11:30 a. m. to 1:30 p. m.

July: 12 to 2 a. m.; 4:30 to 8:30 a. m.; 11:30 a. m. to 1:30 p. m.

August: 12 to 2 a. m.; 4:30 to 8:30 a. m.; 10:30 a. m. to 12:30 p. m.

VK3ME is heard on Wednesday mornings from 5 to 6:30 and on Saturdays from 5 to 7 a. m., EST. De-



Permit us to present the distinguished Lieutenant Commander Rudy Vallee in his pretty new uniform. Rudy enters the navy via the staff of the Governor of Maine. The Lieutenant Commander still directs the Fleischmann Hour on the NBC-WEAF net each Thursday night at 8:00 EDT.



spite the fact that 3ME uses only 4000 watts as compared with 2ME's 12,000 watts, the volume and quality of the two stations is about equal.

Amalgamated Wireless is very anxious to receive reports of reception and always acknowledges them. They may be addressed as follows:

VK2ME: Amalgamated Wireless (A/sia), Ltd., 47 York St., Sydney, Australia.

VK3ME: Amalgamated Wireless (A/sia), Ltd., Box No. 1272L, Elizabeth St. P. O., Melbourne, Australia.

### Ten For Practice

Following are the ten stations most often reported to us by readers. These are recommended especially to beginners as the most dependable and most easily tuned of the stations broadcasting musical programs regularly.

- 6.050 49.56, GSA, Daventry, England.
- 6.119 49.00, YV1BC, Caracas, Venezuela.
- 6.618 45.31, PRADO, Riobamba, Ecuador.
- 9.503 31.55, VK3ME, Melbourne, Australia.
- 9.510 31.53, GSB, Daventry, England.
- 9.585 31.28, VK2ME, Sydney, Australia.
- 9.862 30.40, EAQ, Madrid, Spain.
- 11.711 25.60, Pontoise, France.
- 11.753 25.51 DJD, Zeesen, Germany.
- 11.800 25.40, I2RO, Rome, Italy.

### The T-P Phones

We have been advised that the stations owned by Transpacific Communications, Ltd., located at Dixon, California (KWO, KWU, KWV and KWX) have been licensed to add Manila as a point of communication, while KEE at Bolinas is now authorized to communicate with Shanghai, Manila and Honolulu. These circuits are not yet in operation, but the trans-Pacifics will be as follows:

The stations of the Radio Corpora-

tion of the Philippines, Plaza Moraga, Manila: KAX, 19.980; KAY, 14.980; KAZ, 9.990; KBI, 21.140; KBJ, 13.240; KBK, 6.680; KTO, 16.240; KTP, 8.120; KTR, 10.910; KUS, 18.220; KUV, 12.280; KUW, 9.110. The frequencies are given in megacycles. Of these, KAY and KAZ have been heard testing by readers.

Whether new stations will be built at Shanghai is not known, but it is believed that the stations of the Chinese Government Radio Administration will be brought into use. These stations are, XGK, 18.692; XGL, 7.963; XGN, 16.383, and XGO, 7.575 megacycles. They may be addressed at Sassoon House, Jinkee Road, Shanghai, China.

Mr. E. N. Luken, a RADEXER in Crooks, S. Dak., reports station WXH at Ketchikan, Alaska, on 45 meters or 6.662 megs., testing with WBD or WVD, Seattle, Wash., on 45.3 meters or 6.618 megs. It appears that the long awaited Alaskan radiotelephone circuit is now in operation.

### Airways and Police

Of particular interest are the new Canadian Airways stations. CJU, Winnipeg, Manitoba, operates on 86.9 and 97.7 meters (3.450 and 3.068 megs.). The other stations are UYO, Echo Bay, Northwest Territories; CGK, Ft. Chipewyan, Alberta; UYN, Ft. McMurray, Alta., and UYM, Fort Rae, N. W. T. These four stations transmit on 2.481 megs. (120.8 meters); 3.450 (86.9); 4.751 (63.1); 8.353 (35.89), and 12.951 (23.15).

Several new police stations have recently been licensed, the first of these not yet having call letters assigned. It is located at Asheville, N. C., and uses the 2458 kcs. frequency with 100 watts. Others are:

- WPEL — W. Bridgewater, Mass., 1574 kcs., 500 watts.
- WPFI — Columbus, Ga., 2414 kcs., 50 watts.
- WPOF — Knoxville, Tenn., 2470 kcs., 100 watts.

Station WPEY at Chattanooga, Tenn., has been deleted.

Hialeah, Florida, station WNC, has been heard working with several South American countries in addition to the formerly chronicled Pan-Americans. All the stations which have so far been heard talking with WNC are listed here: Argentina, LSR; Bahamas, VPN; Chile, CEC; Colombia, HJB and HJP; Costa Rica, TIR; Guatemala, TGA; Nicaragua, YNA; Panama, RXF; Peru, OCI, and Venezuela, YVQ. CEC, OCI and LSR are usually heard near 3-4 p. m., EST. and TGA and YNA near 5-6 p. m. The others are on the air at various times during the day from 10 a. m. to 6 p. m.

### From the Other Side

One of our overseas correspondents reports some stations that may interest readers who like to fish for those hard-to-get ones. Mr. H. N. Walker of Brisbane, Australia, reports that VK6AG at Perth, Western Australia, has returned to the air on 40 meters, transmitting at a time that is hardly favorable for general reception in the United States. Readers on the Pacific Coast may be able to hear it near 6 a. m. on Sundays, Pacific Time. The station of the Kuala Lumpur Radio Society located at Kuala Lumpur, Federated Malay States, broadcasts several mornings each week on 49.1 meters with the call sign ZGE. It has been heard a few times in the U. S. A. near 7 a. m., EST. A station that should be received here is VWZ at Kirkee, Poona, India, working duplex telephony with London. VWZ is on 17.3 meters. From 6 to 8 a. m., EST. should be the most favorable time for reception. Quoting from Mr. Walker's letter, "On Thursday between 2:30 and 3 a. m., EST., I heard KOR calling GMBJ, the Empress of Britain, on 40-41 meters and on Friday heard KOO, 38-39 meters working the same boat. KOO and KOR are at Dixon, Calif. KAY, Manila, has been on a lot lately, gen-



Dolores Gillen, attractive young NBC dramatic actress, plays the part of Alice Dudley, daughter of the newspaper editor in "Northwestern Chronicle" on the Blue net Sundays at 2:30 p. m. EDST.

erally between 5 and 8 a. m., EST., on 14,980 kcs., working with Berlin. VK2ME has been testing with VJDY, the S. S. Katoomba, which plys between Sydney and Perth. A few nights ago on about 32 meters, heard Mukden, Manchuria. The call here seems to be accepted as ZILY."

### S.W. DX Chat

We are printing this month a short article on station TI-4-NRH of Costa Rica, which was written especially for RADEX by Sr. Amando Cespedes M., the operator of the station. This will be found on another page and we are sure readers will find it highly interesting, being written by the man who has done more than any other person to spread the fame of that little Central American Republic.

"All you short-wavers who want to get a really elaborate verification from a pretty hard-to-get station, try for TI-4-NRH on 31 meters, suggests W. T. R. Morris, Jr., 3219 Gar-



land Ave., Richmond, Va. He continues, "They sent me one and it's surely the best looking veri I've ever received. NRH takes pride in the fact that it is the only amateur station in the world providing programs for the short wave listener."

Doyle E. Carpenter, Emmetsburg, Iowa, comments on his reception of PHI, Huizen, Holland, at noon, announcing in English. He writes: "I have also heard PCK this week. They were working with Bangkok near 2 p. m., EST. DIQ was on Wednesday p. m., at about 8 o'clock with music, and also heard DJC the same night. Have been getting Radio Coloniale well on all three freqs. Its address is 103 Rue de Grenelle, Paris. I get their new broadcast in English best near 8:45 a. m., on 15,234 kcs."

"GSF has become my best 19-meter station," writes Geo. K. Glass, 1320 Cadillac Blvd., Detroit, Mich. "I received a card from VK2ME verifying my log just 9 weeks after the reception. I also got quite a booklet from YV1BC replete with photos and even a Lucky Strike ad." Mr. Glass lists 19 new stations received in the past month . . . says he is able to hear YV1BC with W2XE on top of it . . . and expresses his satisfaction with the promptness and courtesy with which the BBC verifies the Daventry station reports.

J. F. Maney, Spring Lane, Stoneham, Mass., says he "can't understand how those fellows with 11-tube sets fail to get foreigners. Have a National SW5AC and aside from Java, Japan and Russia have heard everywhere else. PHI came in with terrific volume last Saturday." Mr. Maney would like to hear from owners of the National FB7.

A reader who wishes his name withheld reports a Colombian station near 42 meters at 9 p. m., announcing their location as an island possession of that country.

The schedule of VE9GW as given in the lists this month was contributed by Alf Raymond, Avon, Ill. He also reports fine reception from EAQ



*Carveth Wells, traveler, explorer and naturalist, who makes the truth sound like a terrible whopper. He turns natural history into a "believe-it-or-not." On a split NBC Red network from Chicago at 10:30 p. m., Wednesday, EDST.*

and GSA on his Philco converter.

With a good log of stations in Australia, Europe, Africa and Asia, Bartlett Bemister, 522 Clifton St., Winnipeg, Man., is unable to hear anything in South America, Guatemala City, station TGX being the closest he has gotten. He is 16 and would be pleased to hear from other 16 year old readers.

"Patience probably plays about 50 per cent of a good DX record," advises Clarence Sargent, Dansville, N. Y. "I was tuning in the 20 meter band for about 2 hours and was about to give up when OA1B, Negritos, Peru, came in. Tuned in EAR262, a Spanish amateur, after listening an hour to all those 41 meter codes."

"I have been an ardent short wave DX'er for the past two months," advises Henry King, Jr., 743 Simpson St., Atlanta, Ga. "I have such foreigners as DJD in Germany, which signs off daily near 4 o'clock, I2RO in Rome, EAQ, Madrid, like a local, YV1BC, Caracas, which I can hear

in spite of W2XE, Daventry, on three wavelengths, VK2ME early Sunday mornings with their laughing Kookaburra, and the travel talks about Australia, and, best of all, NRH in Costa Rica. As I work nights my listening during the week is confined to the day time. I would like to hear from anyone else who gets good daylight reception."

Richard Zorn of Tucson, Ariz., tells us that he logged EAQ on the loudspeaker every day for a month. He has heard stations on every continent, not to mention numerous ocean liners, airplanes and police stations.

"Although I have no television set, I enjoy the television sound stations," advises Frank W. Pollitt, 1427 Reisterstown Road, Pikesville, Md. "I think W2XAR, Long Island, on 1550 kcs. and W1XAU, Boston, on 1550 present very good sound programs."

"I haven't seen many reports in RADEX regarding reception of ship to shore transmissions, so here's some dope that may be of value to the fans," contributes K. P. Williamson, of Montreal. "For the last few months I have been listening quite

frequently between 6 and 9 p. m., EST., on and around 4 megacycles, to ships talking to WOO on 4.75 megs. I have heard DDAS, DDNY, IBLI, VTSX, VPTG, WBSN, GLRZ and GMBJ and can be sure of one of the Bermuda ships almost any night. My best catch is the 'Empress of Britain', 1800 miles off New York. The 'Monarch' and 'Queen of Bermuda' can also be heard talking to VRT-ZFA in the early evening, the Bermuda phone having a very strong signal.

"Regarding the Empire's stations GSA, GSB, etc.," adds Mr. Williamson, "it may be of interest to readers to know that they merely acknowledge reports with a printed card which says: 'We regret that we do not issue specific verifications of reception.'"

#### His First Results

"Although several others here have had this same converter and could get no satisfaction with it, I am very much pleased with the Philco s. w. converter which I purchased a week or so ago," reports Eugene L. Beebe, 210 Franklin St., West, Jackson, Mich. "I am using it in connection with a



*Authors of "Somebody Loves You" and other song hits, May Singhi Breen and Peter de Rose (otherwise Mr. and Mrs.) are heard in piano and ukulele melodies each morning at 10:00 EDST excepting Tuesdays, Thursdays and Sundays.*

Sparton 7-tube super. I am on the second floor of a three-story building, four blocks from downtown district, and have only a picture-moulding antenna and a ground to a steam pipe and consequently have much man-made static to contend with.

"The first night or two I received nothing but U. S. and Canadian stations including some 35 police, a few airport and airplane stations, and, of course, quite a number of amateurs. However, on the third day, which was Sunday, I received GSE and GSF with good loud speaker volume. A few evenings after that I received a station announcing as HJ-4-ABB at Manzanillas, Colombia. Later I received HJB at Bogota, Colombia, with quite a long broadcast which I held for sometime or until man-made static stopped my activities. All my listening is necessarily done before 10:30 p. m. as I have not yet adapted a set of headphones to my set.

"Whether fate was kind to me or whether I was more careful in tuning for foreign stations than the average new s. w. fan, I do not know. I feel that if I had a real good antenna, a

good location away from local interference and a good ground, I could pile them up quite fast for a time at least.

"As a result of my last letter in RADEX I have acquired several new friends in different parts of the country and I would be glad to hear from others particularly those who are using Sparton sets or Philco converters."

From Benigno Contreras, Box 74, Marina Station, Mataguez, Porto Rico, comes this report: "Although static has been more bothersome than ever this season and I am disappointed in my b. c. band reception, on the short waves I have had better luck. I have added Hawaii, Holland, Jave, Portugal, Costa Rica and Switzerland to my list of countries heard which now totals twenty-five."

"My log shows 543 stations, both long and short wave," advises C. C. Bargen, Box 224, Mountain Lake, Minn. "On the short waves, I have GSA, GSC, GSD, DGT, YV11BMO, YVQ, I2RO, PLV, VK2ME, VK3ME, FYA, HKC, and VE9GW, the latter in daytime as clear as W8XK."

## FINAL Reports on Closing Season

... From the Radexers

**E**ITHER radio is permanently improving due to the activities of the engineers, or the season of 1932-1933 has been an unusually favorable one and the pendulum may swing backward another year. There is no doubt that more and farther stations have been reported this season than in any that have preceded it. Scores of our readers who have fished in vain for those elusive T-P's in the past, have this year brought them in. And more of them have been reported from the Middle West and even from the Atlantic Seaboard than ever before. No longer are they confined to reports from the Pacific Coast division of the fraternity.

### Has Ten T-P's

"I operate a 1932 Lucerne 7-tube TRF Northern Electric set," declares William Ansell, 168 Wascana St., North Regina, Sask., "and on November 15, 1932, my log stood at 137 stations, and then I commenced DXing, and to date my log has reached 369 stations, an increase of 232 this winter. I have logged 43 states and in addition the District of Columbia, KGBU, WKAQ, and KGU; 7 provinces in Canada; 5 Cuban and 19 Mexican. My trans-Pacific log to date is 2CO, 3AR, 5CK, 2YA, 4QG, 3LO, 2BL, 4RK, 3HA and 4BC. Have also heard one Chinese and several Jap stations, but have been unable to log them. My log consists in part of 110 stations operating on 250 watts power and under, including 81 100-watters, but, with the exception of trans-Pacific stations, I consider my greatest catches to be CKIC, Wolfville, N. S., and CHGS, Summerside, P. E. I., 50 and 100-watters respectively. I can use from 90 to 400 feet of antenna including lead-ins as conditions require, and have often used the maximum in order to

log some of the Australians first, having found through experiments that directional aerials give me greater reception in the direction I am searching.

"Following is a quotation from my verification from 4BC: 'Your two most interesting letters of the 17th and 19th December, '32, reporting reception of 4BC programmes to hand with thanks, and we wish to congratulate you on your very excellent reception. The programme accurately reported in your letter of the 17th December was a relay from 200 miles away in the Australian bush of a real Aboriginal Corroboree, which was relayed to every Australian state and from station 3ME, Melbourne, on short waves for European reception. Your letter of the 19th December is practically a



Introducing H. V. Kaltenborn, expert commentator on world affairs, whose program, "Current Events" is heard each Sunday at 7:00 p. m. EDST and Thursdays at 6:00 p. m. EDST, over WABC and the Columbia network.

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word by word report of our programme and the session featuring the Kelly family is a serial comedy drama presented one episode per week, entitled 'On Enterprise Farm,' and is a feature presented on behalf of United Metal Industries of Brisbane, Queensland."

#### Spokane Gets News via Japan

"Had a rather interesting experience this morning while listening to the Japanese," writes S. S., R. No. 4, Spokane, Wash. "This morning DX seemed to be in the doldrums so decided to listen to the Japs awhile, and at 2:45 tuned in JOIK and heard a fellow say in English, 'So she said to Walter,' followed by a minute's talk in Jap, when this sentence was repeated, some more Jap, then, 'And he made her queen of the Broadlands.' This was also repeated after a little more Jap explanations, then more English sentences, followed by more Jap. After about



Meet the "Greek Grocer" with Fred Waring and his Pennsylvanians on the Old Gold program, Wednesdays at 10:00 p. m. EDST. Take our tip and listen to him murder the good King's English. In humdrum, every-day life he is George Givot, of the Omaha Givots.

ten minutes of this the whole story was read in English, sentence after sentence. Very evidently this was a lesson in English, with a fairy tale as the practice theme. At 2:55 a man with an English accent took the air and read news cables of world interest. The first news was of the Jap situation in Manchuria. Then a cable from Washington regarding prohibition here, followed by a report that Mayor Cermak was dangerously wounded by the assassin. Then a few New York stock exchange quotations. Then a cable from Ottawa and one from London. This news was broadcast from 2:55 to 3:00 a. m. PST, over the entire Japanese network of 10kw stations, as were the English lessons. While this is the first time I have heard this, it is probably a regular nightly feature. This was the first time I have listened to a Jap for any length of time. The Japs have been coming in here very well this winter, and it was no more difficult to hear every word in their English program than in a news report from nearby domestic stations. As a coincidence with the news report, we have been snowed in here all this month (February) and our last mail delivery came a week ago. I live ten miles from the city. But here I am getting the latest news from Japan."

#### Europe From Santa Barbara

"Having become interested in the DX game only a short time ago," writes E. B. Martin, Deane School, Santa Barbara, Calif., "I cannot boast of long use of RADEX, but the two issues I have used have afforded me every possible advantage in getting distance. I have been DXing for three weeks with my new Scott All-Wave and am very pleased with its performance. Please find for me, either through your readers or through Washington, the address of EAJ1, in Barcelona, on 860 kcys. I have a very nice program received from them last Tuesday and have been trying frantically to find their

address, because I wish to verify this, my best catch. Europe from Santa Barbara! I failed to understand their Spanish, but have the music, time, etc. I am buying a phonograph hook-up to take records of my more distant stations. Now for the statistics. In those three weeks, by rather concentrated effort, I have logged 308 long-wave stations and 120 short-wave, making a total of 428 stations. Among the long wave are the following: 32 in Australia, 17 in Japan, 4 New Zealand, 2 Tasmania, 4 Cuba, 2 Hawaii, 2 Alaska, 1 Formosa, EAJ1, and of course XGOA, and 18 in Canada and 14 in Mexico. This makes 97 foreign stations or 57 trans-Pacific, and 211 U. S. stations. The latter record is rather poor because I spent most of my short time on the foreign ones. On short wave I have the usual Europeans and 7 in South America. Lots of police and airport stations bring the total to 428. Your magazine has been the deciding factor in bringing out what I believe is a good record from a superb radio."

#### Take Your Choice

"In your April issue, I notice some of your readers have received verifications from 4RK in Rockhampton on reports about the recent cricket matches played in Australia," remarks Clyde W. Ham, 1002 S. Lafayette St., Shelby, N. C. "I would like to say that the following Australian stations broadcast the matches: 5CL, 5CK, 2FC, 2BL, 3LO, 3AR, 4QG, 4RK, 2CO, 7ZL, 6WF, 2GB, 5KA, 2UW, 5DN, 3UZ, 4BH. All of the class A stations gave the scores at the fall of each wicket. Talks were given from other stations by the following: Don Bradman, W. Woodfull, and Stan McCabe. I am of the belief that your readers who received veris from Rockhampton did not really hear 4RK, but did hear Poste Parisien. Some of your readers will want to know what I mean by this. Well 4RK was broadcasting the matches as explained, as was the French station, both at practical-

ly the same time, so naturally if a report was sent to 4RK he would verify it because he was really broadcasting the matches, but still they could have been coming from Parisien, and again it was really too early for reliable trans-Pacific reception. This is the reason I think it was not 4RK, but Poste Parisien."

#### His Year's Report

"Well the DX season is all over the shouting, so I will do mine now," exclaims Lee F. Blodgett, 917½ W. Montgomery St., Creston, Iowa. "I have never had an article about my DXing in print except for the local paper news items. As I live in a small town I have a lot of my good verification news published in the local newspaper. I now have 545 stations in my log from 11 countries of the world. I have 10 countries verified to date. My best foreign stations are: 2YA, 2BL, 4QG, 4BC, 5CK and KGU. Of this list 4BC, 2YA and KGU verified, as well as JOIK and JOCK of course. I also have WKAQ and YV1BC verified. I now have 331 verified in 44 states of the U. S. A., 6 provinces of Canada verified, but I have heard 7. I have 7 states in Mexico heard and 7 verified. My set is an Earl Model 21-22, using none of the screen-grid tubes. The antenna, which I intend to junk for a cage type next season, runs N-W by S-W on the first 100 feet and S-W by N-E on the last 50 feet, with a lead-in directional on Australia. I would appreciate receiving any information on a cage antenna that anyone who has tried one can give me."

#### Verifies 100 Per Cent

"After reading of the numerous DX catches by many readers," comments C. Hesterman, 506 Fourth Ave. N., Saskatoon, Sask., "I, with many misgivings, submit my own list. I have verifications from some of the stations and the others should come within the next two weeks. Not one



Pearl Pickens is registering something or other as she listens to Carson Robison in the Friday night series "Triple Bar X Days and Nights" on the CBS at 8:30 p. m. EDT.

of the stations has failed to send verification to date. Therefore I am very optimistic regarding those yet to come. I make it a set rule never to ask for verification until I have heard at least two station identifications and thirty minutes of the program. Class me with the 'Baron' or 'Ripley' if you will. Nevertheless I have sent to most of the Australians and New Zealanders a log of reception that encompasses from two to three and a half hours of their programs, with very few blank spaces due to fade-outs, static, etc. Now follows a list of my star catches. Don't forget all these stations were heard for more than an hour and a half at least: 2CO, 7ZL, JOAK, 3AR, 5CK, 4YA, 2YA, 5CL, 4QG, 3LO, 1YA, JOIK, 2BL, JOBK, 4RK, 2GB, 5DN, 3YA, 2UE, 4BC, WKAQ, KGU, YV1BC, CMX, CMBY, CMCD and CMCI. I must thank RADEX for them all, as it showed me just where to go for them."

"Concerning the publicity on those remarkable catches of five and ten-

watters half way around the globe, while I don't question their authenticity, my sympathies are all with the anonymous agnostic," complains Arthur L. Robb, Topeka, Kans. "My claim to recognition lies in the fact that I have never heard Japan, Hawaii, New Zealand, Australia, or cricket matches. The only station I have heard off of the North American continent was HJN on the morning of February 26th. While countless, other listeners had 'enormous volume' and 'heard call and location 15 times' I had a hard time holding a faint signal long enough to hear one station identification. Here are some questions: Does XER use the call XEF any more? I haven't heard it now for about a year. Also, has anyone heard XEPN since it left 885 for 585?"

#### Logs Italy On B.C. Band

"I just want to tell you what I have been doing with my 2-tube battery receiver," writes Charles H. Peterson, W2CFW, 168 Beacon Ave., Jersey City, N. J. "Have had the set about a month and have heard 37 states and 5 countries. My best catch is IMI in Milan, Italy. I heard them on the morning of March 25th and was listening to them from 2:30 to 4:00 a. m. EST., on 905 kcs. They were coming in fairly well, but managed to get enough of their broadcast to send for a verification. Perhaps some of your readers heard this station also. I think that the morning of March 27th was about the best morning I ever heard. All the west coast stations were coming in as loud as Chicago. Some of the stations I heard were KPO, KGO, KHJ, KFI, KGER, KSL, KDYL, KECA, KEX, KNX, KGB, KFPY and finally finished the evening with KERN, the little 100-watter in Bakersfield. I built the receiver, using the old Ambassador coil to kill time while I'm not using my amateur transmitter. I operate an amateur station and operate on the 20 meter band, but DX has been so poor down there

lately that I built this little outfit."

"Have a DX log of 533 stations, all verified by either card or letter and am a member of the Buffalo News DX Club," advises Joseph B. Reilly, 5 Forest Park, Jamestown, N. Y. "Am a make-up man on our morning newspaper here and get home about 2:30 a. m. just in time to DX. All my verifications but ten are verified from stations heard after 2:30 a. m. and are all real verifications. Have all our states verified, all the provinces of Canada (never have had Newfoundland), have a dozen from Cuba, the same number from Mexico, WKAQ in Porto Rico, YV1BC in Venezuela, HIX in Santo Domingo, and expect one from HJN in Bogota soon. In the summer of 1931 I received \$5.00 in gold from the Buffalo News DX Club for logging the longest distance, smallest powered station during June, which, as you know, is about the noisiest month of the year for DX, and the station was KFPN in Greenville, Texas, using 15 watts, and have a verified letter of ten consecutive records, verified by the owner himself, which I think is the most valuable verification in my collection."

#### Revises Log Monthly

"In the six months since October 1st, I have logged 365 stations on the b.c. band, including 329 in the U. S., 22 in Canada, 7 in Mexico, one in Porto Rico, and one in South America," reports Alf Raymond, Avon, Ill. "I have logged stations on all of the 97 channels, and 44 states. My log is on the same plan as that of A. L. Long, Oklahoma City, in that I never log a station unless I hear the call letters and I am DXing for my own pleasure. I revise my log every month with the latest copy of RADEX, and the stations logged, as numbered above, are all active stations and are listed in the new copy of RADEX. Here are some stations to illustrate my plan. I did not add another station to my log when the call XED was changed to XEAW, or when

WTSL was changed to WAML. Neither did I again count XEPN when they changed their wave from 885 to 585 kcs."

"Although I have been a Radexer since November, 1931, this is my first letter to you," greets Wilkins B. Green, 63 Thyra Ave., Toronto, Ont. "I have a Kolster CK66 model, which I have had since last May, and since then I have managed to log 494 stations, of which 84 are 100 watts, 8 fifties, 4 twenty-fives, 2 fifteen, and one lone ten. I have logged 84 over 2000 miles away. Some of my best catches are 2YA, KGU, YV1BC, HJN, KXO, KPCB, CKMO, KFPN and several others. In regard to the records claimed by some of your listeners, I would like to say that in radio reception almost anything is possible. Take the incident of my reception of KFPN, a 15-watt station over 1500 miles away. At the time of the reception it came in a great deal louder than WEBR, a 100-watt station on the same band, but only 40 miles, and it was as loud as



And this is the one-man radio show—Smiling Ed McConnell—who is heard each Sunday at 2:00 p. m. EDT from Cineinatti over the Columbia net.



WBBM, Chicago, was that night. So why not anything!"

### Best In Four Years

Guy B. Welch, 114 Brown Street, Reynoldsville, Pa., thinks "there is no doubt that this year has been the best for reception in the four years past. This is indicated by the fact that I can pick up Australian and New Zealand stations which I have tried to hear in other years ever since I started and this in spite of the fact that my old 8-tube Philco is now in its last stages. I'm sure that with a new set similar to mine I could have logged at least 20 foreigners." Guy reports the following "outlaws" now rampant in his state and wonders what the FRC is doing: WJAE, 1030 kcs., in Brookville, Pa., on daily; XYZ, 1010 kcs., Dubois Pa., daily; WRT, 800 kcs., Indiana, Pa., daily; have other readers logged these?

"After reading other readers' reports in DXing, I thought I would tell you about mine, since I am rather proud of it," comments C. Albin Johnson, 561 Trenton Ave., Wilkinsburg, Pa. "I have only been DXing since last October and to date I have received 222 stations. I have only recently started writing for verifications. Included are stations from Mexico, Canada, Cuba and Porto Rico. I have not had such good luck with the far western states. I have logged quite a number in California, but that is the only state in the far west where I have logged more than one. The best I have received are KABC, KDB and WKAQ, Porto Rico. Am using an American Bosch Model 200. Am not using any aerial as it works better when I attach the aerial connection to my ground."

"RADEX started me DXing," blames J. Dickenson, 2109 Winnipeg St., Regina, Sask. "Being a policeman I can tune in when I get home in the morning at 4:00 a. m. My log stands at present at 171 stations, all of which are listed in RADEX and are operating at present. I am using a Philco Model 20 Baby Grand TRF.

On the morning of April 9th I received the surprise of my life when I tuned in 2CO, 2YA, 4QG, 3LO, 4BC, and on April 11th and 12th I again tuned in 4QG. I noticed something which I have not seen in print in your magazine and that is the wave band is very narrow. In other words, it requires finer tuning for Australia. Those who have been trying for Australia better take note. No one would believe me when I told them what I received on a Baby Grand, so I am getting them verified, if I can. I received KGU also on March 25th."

### Regarding CMQ

"I have just received my verification from CMQ," announces Francis E. Andrew, 96 22nd St., Warwood, Wheeling, W. Va. "They write in English and have changed power to 500 watts. They inform me that they are on the air every Sunday from 2 to 3 a. m. with special programs dedicated to radiofans in foreign countries, which we hope you will enjoy. I have been logging stations since March 17 and have 151 to date. Have sent to about 70 for verification and have received 29 to date. I know that most of these are commonplace, but I really am proud of WLBC. My radio is four years old and has very little selectivity. I am about 250 feet from a street car line. There is also a leaky transformer across the street which, despite numerous protests, is still interfering."

"I never did any DXing until three months ago," confesses Theo. Emmons, 88 River St., Niles, Mich., "and since then have logged several 100, 250 and 500-watt stations on the west coast and Canada. Some of them are KXA, KGDM, KFVD, KMPC, KFWI, CHGS and 10-BP, a 25-watter. My two best catches are HJN and 2YA. I logged an hour of HJN's DX program on Sunday morning, February 26. This program was announced in English, the call letters being given after every musical selection. I received them on 685

(Continued on page 75)

## FAN CHAT from the Pacific Coast

● ● ● By CHARLES C. NORTON, Vice-President Transcontinental Radio DX Club

TOM WALLACE was born in Bisbee, Arizona, about 32 years ago; is 5 feet 10 inches tall, weighs 170 pounds, has blue eyes, light brown hair, athletic shoulders and clear-cut features. At high and college he excelled in sports: football, baseball, basketball, track. Also, he sang in the University of Arizona Glee Club, played in the campus band, went in for dramatics, held various offices, was president of his fraternity, Kappa Sigma, during his senior year, and upon graduation in 1922 operated a tire business in Oklahoma for about a year. From that he went into real estate in Long Beach, California, and then came an opportunity to act as instructor in physical education and athletic coach for the Long Beach High School. Radio opened new avenues; he sang over KFI for 3 years, switched to KNX and has been more than active announcing sports, appearing in dramas and writing ever since. There is an attractive Mrs. Thomas Jay Wallace, and three children, two boys and a little girl, complete the happy family.

Rob Roberts, after an absence of a year, has returned as the General Manager of KTAB. He resigned from that job last year to enter his own radio advertising business which he still maintains. Roberts was largely responsible for building up KTAB to the top of the medium class stations in the San Francisco Bay area at that time. He has many new plans for the growth of the station and is busy formulating them. KTAB is now located in the Kohler-Chase Building in San Francisco, to which it recently moved from Oakland.

The Mauna Keans (KQW), specializing in native Hawaiian music, were originally the Mauna Kea Trio.

Three American girls (Lei Lani, Lei Aloha and Lei Nani) started out with a "big idea." Seeing great possibilities in these girls, Kimo Haulani joined them, forming the troupe of Mauna Keans. Kimo is native Hawaiian. He has played in all the larger radio stations on the Pacific Coast. The Mauna Keans are one of the most popular groups playing over the air on the Pacific Coast. Their fan mail has reached tremendous proportions.

Eddie Holden, the inimitable Japanese house boy of "Frank Watanabe and the Honorable Archie" (KNX), was born in San Francisco and still readily admits it. He spent most of his boyhood playing with Japanese youngsters on the sand lots of the Bay district, absorbing the colloquialisms of the language that are so much a part of his radio dialect. Holden now numbers his friends among the Japanese by the hundreds.

Monroe Upton was born in Bandon, Oregon, in 1898, finished school in Marshfield, went to seas as a ship's radio operator, spent a year with a radio station in Shanghai, saw more travel, landed in San Francisco and began broadcasting 6 years ago. Although he is best known as a comedian—(his "Lord Bilgewater" on Associated Spotlight has them in stitches)—he is a successful writer and has turned out several books. Six feet tall, blonde, blue eyes, married.

Joe Wright, whose orchestra has been heard over KYA until a recent fire destroyed the cafe from which they played, is mourning the loss of a Stradivarius violin destroyed by the fire. He says that during the entire time that the valuable instrument was in his possession this was the only oc-

casion upon which he left it anywhere overnight. He is now heard with his orchestra over KFWI broadcasting from the New Lido Cafe.

\* \* \*

Claude Sweeten is now musical director of KFRC. He directed the orchestra at the RKO-Golden Gate Theatre in San Francisco for 10 years and previous to that was concert master of the Salt Lake Symphony orchestra. Sweeten succeeds Walter Kelsey.

\* \* \*

The Emporium, one of San Francisco's larger department stores, is sponsoring a program over KYA from 8 to 9 a. m., daily except Sunday. Barbara Lee conducts the program which consists of chats on styles, beauty, household hints, coupled with a good round of music.

\* \* \*

Jack Hall's "Keep Smiling Revue" on KTAB is featuring a thirty-piece accordion orchestra every Wednesday afternoon, under the direction of Danti Barsi, one of the "Chile Peppers."

\* \* \*

After a lay-off of several months KOL's Mid-Week Jubilee has returned to the air. Wen Niles is the new master of ceremonies.

\* \* \*

The "Goldbergs" are now heard only over KPO on the Pacific Coast.

## He Tried to Prove DX Claims Impossible By JOHN DE MYER\*

AWAY back about 1922, in the days of the one-tube "Blooper" receiver, I was a DXer. In those days our stations were few and of low power, and it was a real thrill to tune in a station out on the Pacific Coast. In fact, it was an event to proudly tell all your friends about. As time marched on, our station list increased, also power was increased to many thousands of watts, and most of our

broadcast stations were taken over, or at least the programs were sponsored, by commercial advertisers. Their sole aim seemed to be dedicated to the task of impressing us with our possible social handicap if we did not use a certain brand of tooth paste or cold cure, etc. It was about this time that I lost my enthusiasm for DXing.

Last fall, as I was looking over some radio magazines on the news stand, I ran on to RADEX. The station listing in RADEX looked very impressive, also the DXers' comments. I purchased a copy and in it I read several "preposterous claims" of trans-Pacific reception on the broadcast band. After giving this trans-Pacific business some careful consideration, I decided to try it myself. I designed and installed the most efficient aerial and ground system that I could think of and had room for, and in this installation I decided to spare no expense.

Well, sir, the installation was soon made to my satisfaction and I selected a good clear night in December, set the alarm for 3:30 a.m. and was all set for my initial test to definitely prove to myself that 10,000-mile broadcast reception was impossible. I tuned in first on 750 kcys. for KGU, and of all things impossible, I heard him, very clearly. Then I tuned in on 720 kcys. and heard a man announcing the next portion of his program. His accent was very distinctly English. Could this possibly be Zealand? It was—ZL2YA.

Following I shall list a few foreign stations that I have since heard on the broadcast band: ZL1YA, KGMB, RUS, HIX, HHK, TICR, WKAQ, KGBU, VOWR, YV1BC, HJN, VK5CK, VK6WF, VK5CL, VK4QG, VK3LO, VK2BL, VK4RK, VK4BC, VK4TO, JOBK, JOHK, JOGK, JOCK, JOIK, JOFK, JOAK and XGOA. In addition to this list I have heard many Canadian, Mexican and Cuban stations. Incidentally, I do some short-wave DXing. My shortwave log consists of over 100 foreign phone stations, located in 35 countries in every

continent on earth.

My receivers are a Model No. 111 A. C. Philco (11 tubes) and a Model No. 4 Philco converter (3 tubes). My aerial is a 2" copper tube mounted vertically on a weather-proof insulator on top of the house. Also I have an 8" copper ball on this tube and it looks very much like a tall flag pole. My ground is made of 40 feet of one-half inch copper tube wound into a six-foot coil and sunk into the ground. I filled in, with the earth around it, about fifty pounds of rock salt. Well, with this outfit, again I am a DXer, and you and your magazine are to blame for it.

\*545 Baker Street, Lansing, Mich.

## Verifying Under Difficulties

By IRVING VAN ZANDT, JR.\*

ONLY in one case out of over two dozen, have I succeeded in getting my report to the mail within 48 hours after reception, and never within the 24-hour limit that many stations are adopting. I live 18 miles from town on a road that, from Christmas until Easter, only a horse can get through. The nearest telephone is five miles away and it rarely works in winter. There is no mail delivery up this way and we venture to town but once every five weeks or so in winter. Mail delivery and collection is made by neighbors, and this service varies from once a week to once every three or four weeks. I have destroyed numerous reports that have been in the mail bag for over a week. A few stations have been generous enough to accept my explanation, but the vast majority, I fear, merely raise one eyebrow. The 24-hour deadline is a good idea, but it drives me crazy. I should greatly appreciate any suggestions from you or from readers of RADEX.

I have been DXing since last November with a Philco 35, after having been out of the DX game since 1923. Due to a remarkable location, results

have been most satisfactory. When my log began to include a few real good catches, I started to seek verifications, writing only to 3000-milers, and 2000-milers if less than 1000 watts. I have been most careful, writing only after having logged definitely at least 15 consecutive minutes of reception, and I never even log a station whose call I have not unquestionably heard.

I heartily endorse any fight that you may make towards the rapid and complete extinction of "channel hogs." I wish to add KXL to this list. They seem to be on the air indefinitely every Saturday morning, playing records for Gertie and Joe and for the Broadway Cab Co., and announcing most infrequently. Once I listened to them for an hour and twenty minutes without their giving the slightest indication of who or where they were. Perhaps the F.R.C., if it functions at all, could work out a ratio between time on the air and power. Or perhaps the ax is the sole solution.

\*Forsythe Range, Bozeman, Montana.

## A Phone Receptor

(Continued from page 6)

or tubes. The bias thus thrown on the tubes renders them inoperative although the filaments remain lighted. The box with jack may be placed in any convenient location.

Any signal that can be heard with the speaker can be heard on the phones. The volume of sound is pleasing, and stations that cannot be identified on the speaker due to the high noise level, can be heard with the phone receptor.

The "Phone Receptor" is manufactured and sold by the Amplivox Laboratories, 82 East 95th Street, Brooklyn, N. Y.

Would you like a fine world-globe?  
See back cover.

# STATIONS CAUGHT *and* Those That GOT AWAY

HERE would be very little fun in DX or in any other hobby, for that matter, if we couldn't brag a bit to others about our progress and talk over our triumphs and disappointments. So here we are at the regular monthly meeting of the greatest radio club on earth—the RADEX family. Our first speaker is a new member of the tribe.

"I have just discovered RADEX and like it very much," comments Maxwell Hall, 806 Fifth St., Marietta, Ohio. "It seems to me that your idea of having certain minimum requirements for counting DX reception is an excellent one. When we report receiving a certain number of stations it should be generally understood just what we mean. This is more important than verification. At our house we have been interested in seeing how large a portion of the stations licensed by the F.R.C. we can get. Counting only stations listed in the F.R.C. bulletin of January 1, 1933, we have listed since December 1, 1931, 507 out of 608 stations, and including all stations listed in 12 states, Puerto Rico and D. of C., all but one in 17 states, and at least half the stations in all other states. We have also identified 23 stations in Canada, 16 in Cuba, 14 in Mexico, and one in Colombia. The above includes one or more stations on every standard frequency in the regular broadcast band between 540 and 1500 keys."

## Added 151 New Ones

"For lack of space and other reasons I am unable to erect a really efficient aerial, an aerial suited to real distant reception," writes Rudolph Kuré, 3633 Vine St., Clifton, Cincinnati, Ohio. "In spite of this handicap and the bad location I am dwelling in, with my rejuvenated

RCA 60—although the number of stations logged then was pretty high and the higher the number the harder it is to add new ones—I managed to log 151 new stations from October 1, 1932 to March 13, 1933. And good stations, too, such as KPJM, Prescott, Ariz., 100 watts; CKOV, Kelowna, B. C., 100 watts; KFXM, San Bernardino, Calif.; 10-BQ, 10-AB, CKIC, WAGM, CHGS, CHRC, KREG, KFIO, YV1BC and HJN, giving me a total of 836 stations."

"I have now received 550 stations, 218 veris," comments George E. Lowrey, David St., Brampton, Ont. "All the states and provinces logged, but not Newfoundland. One in France, YV1BC and HJN in South America; 2BL and 4QG in Australia, and 2YA in New Zealand; KGU logged and verified. 15 100-watters on the west coast; 31 stations in California logged. Connecticut, D. of C., New Hampshire, North Carolina, Porto Rico, Tennessee, Utah, West Virginia, Wyoming and Manitoba completed. CKIC, a 50-watter, was logged and verified at 7:00 p. m., also CHNS of Nova Scotia, after 6:00 p. m. My best is KFPM rating 75.3 with 10-BI, 10-AB and CMJH coming close. WHBC is my lowest powered station, having 10 watts, logged with lots of volume on April 1st."

## Can't Get Over Seas

"I have been much interested in letters from other DXers published in your magazine," comments F. Herbert Peters, Woodbury, N. J., "but so far have hesitated to write to you because my record must seem rather small beside some of those published. However, if you are interested, here goes: I have logged 279 stations since October on a Philco 9-tube baby

(Continued on page 71)

## WHAT'S ON THE AIR TONIGHT?

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

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

Call	Dial	Call	Dial

Call	Dial	Call	Dial

Call	Dial	Call	Dial

TIME: ED Eastern Daylight; E Eastern; C Central; M Mountain.

For Pacific Time subtract one hour from Mountain.

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

While these programs are correct at the time of going to press changes are made from time to time.

## MONDAY

ED-5:45 p.m., E-4:45, C-3:45, M-2:45  
B—Little Orphan Annie  
CKGW KDKA WBAL WBZA WCKY  
WGAR WHAM WIS WJAX WJR  
WJZ WRVA WNNC

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

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

C—Reis and Dunn

CFRB CKOK KFAB KFH KLZ  
KMBC KSCJ KSL KTRH KFOR  
WAAB WADC WBCM WBIG WBRC  
WBT WCAO WDAE WDBO WDOD  
WDSU WEAN WFAN WGR WHCC  
WIP WISN WJAS WJSV WKBH  
WLBW WLBZ WNAZ WOKO WORC  
WQAM WSBT WSFA WSJS WSPD  
WTAQ WTAZ WTCO

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

R—Richard Himber's Ensemble  
KFYR KGO KGW KHQ KOA KOMO  
KPRC KSD KTBS KTHS KVOO  
WDAF WEAF WFBZ WIBA WIS  
WMAQ WMC WOAI WSB WSMB  
C—Happy Wonder Bakers  
WAAB WABC WHEC WKBW WMAS  
WORC

B—Tastyest Jesters

KDKA WBAL WBZ WBZA WGAR  
WHAM WJR WJZ

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

R—Countess Olga Albani  
KFSD KGO KGW KOMO WBEN  
WCAE WEAF WFBZ WHO WIS  
WJAR WJAX WMAQ WMC WOC  
WOW WRC WSAI WSB WSM WTAG  
WNNC

C—Just Plain Bill

CKOK WAAB WABC WCAO WCAU  
WHK WJSV WKBW

B—Lowell Thomas

CKGW KDKA WBAL WBZ WBZA  
WGAR WHAM WJR WJZ WLW

B—Little Orphan Annie

KFYR KOIL KPRC KSO KSTP  
KTBS KWCR KWK WBAF WDAY  
WBCB WENR WKY WBAI WREN

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

B—Amos 'n' Andy

CKGW KDKA WBAL WBZ WBZA  
WCKY WLW WGAZ WIOD WJAX  
WJZ WLW WMAL WPTF WRVA

C—Theo. Karle, Tenor

CFRB KFH KLZ KMBC KSE KFOR  
WABC WACO WBBM WBIG WBRC  
WCAH WCAO WCAU WDAE WDBJ  
WDOD WDOD WDRC WDSU WEAN  
WFBL WFEA WGR WGST WHK  
WHP WISN WLAC WLWB WMBG  
WMT WNAZ WODX WOKO WORC  
WQAM WSFA WSJS WSPD WTAQ

R—Southernaires Male Quartet

KDYL KOA KOMO KSTP KTBS  
WBEN WCAE WDSH WDAF WEAF  
WFBZ WGY WHO WIBA WMAQ  
WOC WOW WRC WSAI WTAM

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

C—Buck Rogers—Year 2433

CKOK KMOX WABC WBBM WCAU  
WCCO WGR WHAS WHK

B—Everett Marshall, Baritone

KDKA WBAL WBZ WBZA WCKY  
WJR WJZ WMAL WSYR

R—Century of Progress

CFCF CKGW KFSB KFYR KGO  
KOMO KPRC KSD KTHS WBEN  
WCAE WDSH WDAF WEAF WEEI  
WFBZ WGY WHO WIBA WIOD WIS  
WJAR WKY WLIT WMAQ WMC  
WOAI WOC WOW WRC WRVA  
WSAI WSB WSM WSMB WTAG  
WTAM WTIC WWJ WNNC

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

B—Five Star Theatre

KDKA KTBS WBAL WBZ WBZA  
WHAM WIS WJZ WMAL WMC  
WPTF WRVA WSAZ WSMB WNNC

C—Dolph Martin's Orchestra

WABC WCAO WCAU WDRC WEAN  
WFBL WFEA WGR WHEC WHP  
WJAS WJSV WLBZ WNAZ WOKO  
WORC

R—Elvia Allman

WCKY WDSH WDAF WEAF WEEI  
WENR WFBZ WGY WJAR WSAI  
WTAG

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

R—The Goldbergs

KFYR KPRC WBEN WCAE WDSH  
WDAF WEAF WEEI WENR WFAA  
WFBZ WGY WJAR WKY WLIT  
WOAI WOW WRC WSAI WTAG  
WTAM WTMJ WWJ

C—Boake Carter, News Flashes

CKOK KMBC KMOX WABC WBBM  
WBT WCAO WCAU WCCO WGR  
WHAS WHK WJSV WNAZ

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

C—Singer Sam

CKOK KMBC KMOX WABC WADC  
WCAO WCAU WDRC WEAN WFBL  
WFBZ WGN WGR WHK WJAS

WJSV WKRC WNAC WOKO WSPD  
R—Soconyland Sketches  
WBEN WDSH WEAF WEEI WGY  
WJAR WTAG WTIC  
B—Cluquet Club Eskimos  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJZ WLS WREN

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

C—Carson Robison and Buckaroos

CFRB KFH KLRA KMBC KTRH  
KFOR WABC WBIG WCAH WCAO  
WCCO WDAE WDBJ WDOD WDOD  
WDRC WDSU WEAN WFBL WFBM  
WFEA WGR WGST WHEC WHK  
WHP WISN WJAS WLAC WLWB  
WMBG WNAZ WODX WOKO WORC  
WQAM WSFA WSJS WSPD WTAQ  
WVVA

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

R—Sizzlers Trio

CFCF CKGW KSD WBEN WCAE  
WCKY WDSH WEAF WEEI WFBZ  
WGY WHO WJAR WLIT WMAQ  
WOC WOW WRC WSAI WTAG  
WTAM WTIC WWJ

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

R—Famous Brands—Ranny Weeks

WBEN WCAE WDSH WDAF WEAF  
WEEI WGY WJAR WLIT WLW  
WMAQ WRC WTAG WTAM WTIC  
WWJ

B—Phil Cook-Andy Sanella

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WGAR  
WJAX WJR WJZ WLS WMAL WREN  
WSYR

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

R—A. & P. Gypsies

KSD WBEN WCAE WDSH WDAF  
WEAF WEEI WGY WHO WJAR  
WLIT WMAQ WOC WOW WRC  
WSAI WTAG WTAM WTIC WWJ

B—Sinclair Minstrels

KDKA KFYR KOIL KPRC KSO  
KSTP KTBS KTHS KVOO KWCR  
KWK WAPI WBAL WBZ WBZA  
WDAY WEBC WFAA WFLA WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKY WLW WMC  
WOAI WREN WRVA WSB WSM  
WSMB WTMJ WNNC

C—Eton Boys, Do Re Mi Girls

CFRB KLRA KLZ KMBC KRLD  
KTRH KFOR WABC WBIG WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDOD WDOD WDRC WDSU WEAN  
WFBL WFBM WFEA WGST WHEC  
WHK WHP WIBW WICC WISN

# MONDAY—(Continued)

WJAS WKBW WLAC WLBW WMBG  
WOKO WORC WQAM WSFA WSJS  
WSPD WTAQ WWVA

ED-9:15 p.m., E-8:15, C-7:15, M-8:15  
C — Street Singer

CFRB KFH KLRA KMBC KTRH  
KTSK KFOR WABC WBIG WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDDO WDRC WDSU WEAN  
WFBL WFBM WFGA WGST WHEC  
WHK WHP WIC WISN WJAS  
WKBW WLAC WLBW WLBZ WMBG  
WMT WNAC WOKO WORC WQAM  
WSFA WSJS WSPD WTAQ WWVA

ED-9:30 p.m., E-8:30, C-7:30, M-8:30  
C — Evening in Paris

CKOK KLZ KMBC KMOX KOMA  
KSL WABC WCAO WCAU WCCO  
WDSU WEAN WGN WGST WHK  
WJAS WJSV WNAC

B — Jack Frost's Melody Moments  
KDKA WBAL WENR WGAR WHAM  
WJR WJZ WLW

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

C — Golden Country Club  
WAAB WABC WCAO WCAU WDRC  
WFBL WHEC WHP WIC WJAS  
WJSV WKBW WLBW WOKO WPG

R — Contented Program  
CFCE CKGW KFYR KPRC KSD  
KSTP WBEN WCAE WDAF WFAF  
WHEC WENR WFAA WFLA WGY  
WHO WIOD WJAX WKY WMC  
WOAI WOC WRVA WSAI WSB  
WSM WTAM WTMJ WWJ

ED-10:30 p.m., E-9:30, C-8:30, M-7:30

C — Edwin C. Hill

CFRB CKOK KLRA KLZ KMBC  
KMOX KSCJ KTRH KTSK KFOR  
WAAB WABC WADC WBCM WBIG  
WBRC WBT WCAH WCAO WCCO  
WDAE WDBJ WDDO WDRC WDSU  
WFAN WFBL WFBM WFGA WGST  
WHAH WHEC WHP WIP WISN  
WJAS WJSV WKBW WKBW WLBW  
WLBZ WMBD WNAX WNOX  
WODX WOKO WORC WQAM WREC  
WSJS WSPD WTOP

R — Neighbors, Drama  
CFCE CKGW KDYL KFI KFSD  
KFYR KGHK KGR KGO KGW  
KHQ KOA KOMO KPRC KSD KSTP  
KTRH KTHS WBEN WCAE WCKY  
WCHS WDAF WDAY WFAE WHEC  
WHEI WFAA WFBW WFLA WGY  
WHO WIBA WIOD WJAR WJAX  
WJDX WKY WLIT WMAQ WMC  
WOC WOV WRC WSAI WSB WSM  
WSMB WTAG WTAM WTOP WWJ  
WVNC

ED-10:45 p.m., E-9:45, C-8:45, M-7:45

C — Howard Barlow's Symphony  
CFRB CKOK KFAB KFH KLZ  
KMBC KSCJ KSL KTRH KFOR  
KFOR WAAB WABC WADC WBCM  
WBRC WBT WCAO WDDO WDRC  
WDSU WEAN WFAN WFBM WHK  
WIBW WICC WIP WISN WJAS  
WJDX WKBW WLBW WLBZ WMBD  
WNAX WODX WOKO WORC WQAM  
WSBT WSJS WSPD WTAQ WWVA

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

B — Amos 'n' Andy  
KDYL KFI KFSD KGO KGW KHQ  
KOA KOIL KOMO KPRC KSTP

KTHS KWK WBAP WDAF WENR  
WHAM WJDX WJR WKY WMAQ  
WMC WOAI WREN WSB WSM  
WSMB WTMJ  
B — Ann Butler, Comedienne  
WBAL WFLA WHAM WIOD WIS  
WJZ WWNC

ED-11:15 p.m., E-10:15, C-9:15, M-8:15

B — Everett Marshall, Baritone  
KDYL KFI KFYR KGO KGW KHQ  
KOA KOIL KOMO KPRC KSO KSTP  
KTHS KFOR KWK KYW WDAY  
WHEC WFAA WIBA WJDX WKY  
WMC WOAI WREN WSB WSM  
WSMB WTMJ

C — William O'Neal Tenor  
CFRB CKOK WAAB WABC WADC  
WCAU WDRC WEAN WFBL WFAE  
WHEC WHK WIC WJAS WJSV  
WKBW WLBW WLBZ WOKO  
WORN WPG WSPD

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

C — Ted Lewis and Orchestra  
CFRB CKOK KFAB KFH KLRA KLZ  
KMBC KMOX KSCJ KSL KTRH  
KFOR WAAB WABC WADC WDAE  
WCAH WCAO WCAU WCCO WDAE  
WDBJ WDBO WDDO WDRC WDSU  
WEAN WFBL WFBM WGST WHEC  
WHP WIBW WIC WISN WJAS  
WKBW WLBW WLBZ WMBD  
WMT WNAX WNOX WOKO WORC  
WPG WQAM WREC WSBT WSJS  
WSPD WTOP

B — Phantom Gypsy  
CFCE KFYR KPRC KSO KSTP  
KTHS KTHS KWCW KWK WBAL  
WBAP WCKY WDAY WHEC WENR  
WGAR WHAM WIBA WJZ WKY  
WMAL WMC WOAI WREN WSB  
WSMB WSYR

ED-12:00 p.m., E-11:00, C-10:00, M-9:00

C — Leon Belasco and Orchestra  
CKOK KFAB KLRA KLZ KMBC  
KRLD KSCJ KTRH KFOR WABC  
WACO WCAH WCAO WCAU WCCO  
WDDO WDSU WEAN WFBL WGST  
WHP WIBW WIC WISN WJAS  
WJSV WKBW WLAC WLBW WMBD  
WMT WNAC WNOX WOKO WREC  
WSBT WSPD WTOP

# TUESDAY

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

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

C — Reis and Dunn See Monday  
R — Waldorf-Astoria, See Monday

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

C — Ozzie Nelson and Orchestra  
CFRB KFH KLRA KLZ KTRH  
KFOR WAAB WABC WACO WBIG  
WBRC WCAH WDAE WDBJ WDBO  
WDDO WDRC WDSU WFGA WGR  
WGST WHK WHP WIBW WIP WISN  
WJAS WLAC WLBW WMBG WMT  
WODX WOKO WORC WQAM WSBT  
WSFA WSJS WSPD WTAQ WWVA

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

B — Three X Sisters  
KSO KWCW KWK WCKY WJZ  
WLW WMAL WREN WSYR

R — Mid-Week Hymn Sing  
KFYR KGO KOA KOMO KTHS  
KTHS KVOO WBN WDAF WFAF  
WFBW WFI WIS WMAQ WMC  
WOAI WPTA WSB WSMB WTAG  
WWNC

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

R — James Melton, Tenor  
KOA WFAF WFBW WFI WHO WIS  
WJAR WMAQ WOC WOW WRC  
WSAI WSM WTAG

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

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

B — Amos 'n' Andy, See Monday  
R — Three Keys  
WEAF WEEI WFBW WFI WJAR  
WRC WTAG

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

C — Buck Rogers, See Monday  
B — Radio in Education  
KDKA KDYL KECA KEX KFSD  
KFYR KGA KGR KJR KOA KOIL  
KPO KTB KVOO KWCW WBB  
WDBA WENR WFLA WIBA WIS  
WJDX WJZ WMC WOAI WPTA  
WREN WSB WSM WSMB WWNC  
R — Century of Progress, See Monday

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

C — Jack Dempsey's Gymnasium  
CFRB WABC WCAO WCAU WHK  
WKBW WKRC

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

B — Irene Borden  
CFCE CKGW KDKA KFYR KOIL  
KPRC KSO KWCW KWK KYW  
WBAL WBB WDBA WCKY WDAY  
WHEC WGAR WHAM WIBA WIOD  
WIS WJR WJZ WKY WMAL WMC  
WOAI WREN WRVA WSB WSM  
WSMB WSYR

C — Boake Carter, See Monday  
R — The Goldbergs, See Monday

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

R — Blackstone, Sanderson-Crumit  
KSD KSTP KYW WBEN WCAE  
WCHS WDAF WFAE WHEC WHEI  
WFI WGY WHO WJAR WOC WOW  
WRC WSAI WTAG WTAM WWJ  
B — Eno Crime Club  
KDKA KOIL KSO KWCW KWK  
WBAL WBB WDBA WGAR WHAM  
WJZ WLW WMAQ WREN

C — Mary Eastman, Soprano  
CFRB KFH KLZ KMBC KRLD KSL  
KTRH KFOR WABC WBBM WBIG  
WBRC WCAH WCAU WDAE WDBJ  
WDBO WDDO WDRC WDSU WEAN  
WFBL WFGA WGR WGST WHEC  
WHK WHP WISN WJAS WLAC  
WLBW WMBG WMT WNAC WODX  
WOKO WORC WPG WQAM WSFA  
WSJS WSPD WTAQ WWVA

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

C — Magic Voice  
CKOK KMBC KMOX WABC WADC  
WCAU WCAU WDRC WEAN WFBL  
WFBM WGN WGR WHAS WHK  
WJAS WJSV WKRC WNAC WOKO  
WSPD

# TUESDAY—(Continued)

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

C — Kate Smith  
CKOK KMBC KMOX WABC WADC  
WBCM WCAH WCAU WCCO WCCO  
WFBL WFBM WGN WGR WHAS  
WHEC WHK WISN WJAS WJSV  
WKBW WKRC WOKO WOV WSPD

R — Wayne King and Orchestra  
KSD KSTP WBEN WCAE WCKY  
WCHS WFAE WHEC WHEI WFBW  
WFI WGY WHO WIBA WJAR  
WMAQ WOC WOW WRC WSAI  
WTAG WTAM WTMJ WWJ  
B — Horlick-Health Talks  
KDKA KOIL KWCW KWK WBAL  
WBZ WBZA WGAR WHAM WJZ  
WLS WLW WREN

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

C — Abe Lyman and Orchestra  
CKOK KMBC KMOX WABC WADC  
WCAU WCAU WDRC WEAN WFBL  
WFBM WGN WGR WHAS WHK  
WJAS WJSV WKRC WNAC WOKO  
WOW WSPD

B — Herman Hupfeld, Songs  
KDKA KDYL KFSD KOA KOIL  
KPO KPRC KSO KTRH KTB KWCW  
KWK KYW WBAL WBAF WCKY  
WFLA WGAR WHAM WIOD WIS  
WJR WJZ WKY WMAL WMC WOAI  
WREN WSB WSM WSMB WSYR  
WWNC

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

C — Easy Aces  
CKOK KMBC KMOX WABC WADC  
WCAU WCAU WCCO WDRC WEAN  
WFBL WFBM WGN WGR WHAS  
WHK WJAS WJSV WKRC WNAC  
WOKO WSPD

R — Ben Bernie and Orchestra  
KFYR KOA KPRC KSTP WBAF  
WBEN WCAE WCKY WCHS WDAF  
WDAY WFAE WHEI WFBW WFI  
WGY WHO WJAR WKY WLS WMC  
WOAI WOC WOW WRC WRVA  
WSAI WSB WSM WSMB WTAG  
WTAM WWJ

B — Willard Robison and Orchestra  
CFCE CKGW KDKA KOIL KSO  
KWCW KWK WBAL WBZA WGAR  
WJR WJZ WMAQ WREN WSYR

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

C — Threads of Happiness  
CKOK KDB KERN KFBK KFH  
KFYR KFCR KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOMA  
KRLD KSL KTRH KTSK KVI KWG  
WABC WADC WBRC WBT WCAO  
WCAU WCCO WDAE WDBO WDDO  
WDRC WDSU WEAN WFBL WFBM  
WGN WGST WHAS WHEC WHK  
WJAS WJSV WKBW WKRC WLAC  
WNAC WOKO WOV WQAM WREC  
WSPD WTAQ WTOP

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

R — Ed Wynn-Don Voorhees  
CFCE KDYL KFI KFSD KFYR  
KGLH KGR KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTRH  
KTHS KTHS KVOO WBAF WBEN  
WCAE WCHS WDAF WDAY WFAE  
WHEC WHEI WFBW WFI WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMAL WOC WOW WRC WRVA  
WSB WSM WSMB WTAG  
WTAM WTMJ WWJ WWNC

C — Nino Martini, Tenor  
CFRB KFH KLRA KLZ KMBC  
KRLD KTRH KFOR WABC WBBM  
WBIG WBRC WCAH WCAO WCCO  
WDAE WDBJ WDBO WDDO WDRC  
WDSU WEAN WFBL WFBM WFGA  
WGST WHEC WHK WHP WIBW  
WIC WIP WISN WJAS WKBW  
WLAC WLBW WMBG WMT WNAC  
WOKO WORC WQAM WSFA WSJS  
WSPD WTAQ

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

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

C — Five Star Theatre  
KLRA WABC WBIG WBT WCAO  
WCAU WDBJ WDDO WDRC WDSU  
WEAN WFBL WFGA WHP WOC  
WJAS WJSV WKBW WLAC WMBG  
WNAC WNOX WOBW WOKO WORC  
WREC WSJS WTAG

R — Lives at Stake, Drama  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTHS  
KTHS KYOO WAPI WBAF WBEN  
WCAE WCHS WDAF WFAE WHEC  
WHEI WENR WFBW WFI WGY  
WHO WJAR WJDX WKY WLW  
WMC WOAI WOC WRC WRVA WSB  
WSMB WTAG WTAM WTMJ WWJ  
B — Household Musical Memories  
KDKA KSO KWK WBAL WBZ  
WBZA WHAM WJR WJZ WMAQ  
WREN WSYR

ED-10:30 p.m., E-9:30, C-8:30, M-7:30

C — Edwin C. Hill, See Monday  
B — Miss Lilla, Southern Drama  
KDKA KSO KWCW WBAL WCKY  
WHAM WJR WJZ WMAQ WREN  
WSYR

ED-10:45 p.m., E-9:45, C-8:45, M-7:45

C — Howard Barlow See Monday

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

B — Amos 'n' Andy, See Monday

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

C — Abe Lyman and Orchestra  
CFRB CKOK KFAB KFH KLRA  
KLZ KMBC KSCJ KSL KTRH  
KFOR WAAB WABC WACO WADC  
WCAH WCAO WCAU WCCO WDAE  
WDBJ WDBO WDDO WDRC WDSU  
WEAN WFBL WFBM WGST WHK  
WHP WIBW WIC WISN WJAS  
WKBW WLBW WLBZ WMBD  
WMT WNAC WODX WORB WQAM  
WSFA WSJS WSPD WTAQ

R — Talkie Picture Time, Drama  
KPRC KSD KTHS KTHS WBEN  
WCAE WCHS WDAF WFAE WHEI  
WFAA WFBW WFI WHO WJAR  
WKY WMAQ WOAI WOC WOW  
WRC WSAI WTAG WTAM WWJ  
B — Phantom Gypsy, See Monday

ED-12:00 p.m., E-11:00, C-10:00, M-9:00

C — Glen Gray and Orchestra  
KFH KLRA KLZ KMBC KSL KTRH  
KFOR WABC WACO WBCB WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDDO WDSU WEAN WFBL  
WFBM WGST WHEC WHP WIBW  
WICC WISN WJAS WKBW WLAC  
WLBW WMBD WMBG WMT WNAC  
WODX WOKO WQAM WSBT WSJS  
WSPD WWVA

ED-12:30 a.m., E-11:30, C-10:30, M-9:30  
R — Ben Bernie and Orchestra  
KFI KFSD KGO KHQ KOMO KSD  
KTRH

# WEDNESDAY

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

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

R — Waldorf-Astoria, See Monday  
C — Art Cogan and Orchestra  
CFRB KFH KLRA KLZ KMBC KSL  
KTRH KTSK KFOR WAAB WABC  
WACO WBBM WBIG WBCB WCAH  
WCAO WCAU WDAE WDBJ WDBO  
WDDO WDRC WDSU WFBL WFGA  
WGST WHAS WHK WHP WIBW  
WIP WISN WJAS WKBW WLAC  
WLBW WLBZ WMBG WMT WODX  
WOKO WORC WQAM WSBT WSFA  
WSJS WSPD WTAQ WWVA

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

C — Happy Wonder Bakers, See Monday  
B — Three X Sisters, See Tuesday  
R — Back of the News—Wm. Hard  
KECA KEX KFYR KGA KJR KOA  
KPO KSD KTHS KTHS WBEN  
WCKY WDAF WFAF WFBW WIBA  
WIOD WIS WJAR WMAQ WMG  
WOAI WSB WTAG WWNC

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

R — John Pierce, Tenor  
KFSD KPO WBEN WCAE WFAE  
WFBW WOC WOV WSAI WTAG  
WMC WOC WOW WSAI WTAG  
C — Just Plain Bill, See Monday  
B — Lowell Thomas, See Monday  
B — Orphan Annie, See Monday

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

B — Amos 'n' Andy, See Monday  
C — Mildred Bailey, Songs  
CFRB KFH KLZ KMBC KSL KTSK  
KFOR WABC WACO WBIG WBRC  
WCAH WCAU WDAE WDBJ WDBO  
WDDO WDRC WDSU WEAN  
WFBL WFGA WGR WGST WHAS  
WHK WHP WISN WJAS WJSV  
WKBW WLBW WLBZ WMBG  
WMT WNAC WODX WORB WQAM  
WSFA WSJS WSPD WTAQ

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

R — Century of Progress, See Monday  
B — Everett Marshall, See Monday  
C — Buck Rogers, See Monday

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

B — String Symphony  
KDKA KOIL KWCW WBAL WCKY  
WIOD WIS WJDX WJZ WMAL  
WMC WREN WSBM WSYR WWNC  
R — Elvia Allman See Monday  
C — Jack Dempsey See Tuesday

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

C — Boake Carter, See Monday  
R — The Goldbergs, See Monday

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

C — Voice of Experience  
KMBC KMOX WABC WCAO WCAU  
WDRC WEAN WGR WHAS WHK  
WJAS WJSV WKRC WNAC  
B — Eno Crime Club, See Tuesday  
R — George Olsen-Fanny Brice  
KSD WBEN WCAE WCHS WDAF  
WFAE WHEI WFBW WGY WHO  
WJAR WLIT WLS WOC WOW WRC  
WSAI WTAG WTAM WTOP WWJ



# WEDNESDAY—(Cont'd)

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
**C — Boswell Sisters**  
 CFRB KMBC KRLD KTRH KTSK  
 KFOR WABC WBIG WCAH WDBJ  
 WDBO WDOO WDSU WEAN WFBL  
 WFEA WGR WGST WHEC WHK  
 WHP WISN WJWS WJVS WLAC  
 WLWB WLWZ WMBG WNCN WOKO  
 WORC WQAM WSFA WSJS WSPD  
 WTAQ WTVB

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**R — Woodbury—Donald Novis**  
 KSD KTHS KTHS KVOO WAPI  
 WBEN WCAE WCHS WDAF WFAE  
 WEEI WFAA WFBZ WGY WHO  
 WJAR WJDX WKY WLIT WMAQ  
 WMC WOAI WOC WOW WRC WSB  
 WSM WSMB WTAG WTAM WTIC  
 WWJ

**B — Tastyest Jesters**  
 KDKA WBAL WBZ WBZA WCKY  
 WHAM WJZ  
**C — Kate Smith, See Tuesday**

**ED-8:45 p.m., E-7:45, C-6:45, M-5:45**  
**B — Phil Cook, See Monday**  
**C — Abe Lyman, See Tuesday**

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — Irvin S. Cobb**  
 CFRB CKOK KFH KLRA KLZ  
 KMBC KRLD KSCJ KTRH KTSK  
 KFOR WABC WADC WBIG WCAH  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDOO WDRS WDSU WEAN  
 WFBL WFBM WFEA WGST WHEC  
 WHK WHP WIBW WICC WISN  
 WJWS WJVS WKBW WLAC WLWB  
 WLWZ WMBD WMT WNCN WNAK  
 WNOX WOKO WORC WPG WQAM  
 WREC WSBT WSJS WSPD WTCO  
**R — Famous Brands—Ranny Weeks**  
 KSD WBEN WCAE WCHS WDAF  
 WFAE WEEI WGY WJAR WLIT  
 WMAQ WRC WTAG WTAM WTIC  
 WWJ

**B — Sherlock Holmes**  
 CFCF CKGW KDKA KOIL KWCR  
 KWK WBAL WBZ WBZA WGAR  
 WHAM WJR WJZ WLS WLW WREN

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**  
**C — Street Singer, See Monday**

**R — Vic Erwin and Band**  
 KDYL KFI KFSD KFJR KGO KGW  
 KHQ KOA KOMO KPRC KSD KSTP  
 KTHS KVOO WBEN WCAE WCKY  
 WCHS WDAF WDAY WFAE WFCB  
 WEEI WFBZ WFLA WGY WHO  
 WIBA WIOD WIS WJAR WJAX  
 WJDX WKY WLIT WMAQ WOAI  
 WOC WOW WRC WRVA WSAI WSB  
 WSM WTAG WTIC WWJ WWCN

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — Guy Lombardo—Burns and Allen**  
 CKOK KMBC KMOX KOMA KRLD  
 KTRH KTSK KABC WABC WCAO  
 WCAU WCCO WDRS WEAN WFBL  
 WFBM WGN WHK WJAS WJVS  
 WKBW WKBC WNCN WOKO WOWO  
 WSPD

**R — Mischa Levitzki, Pianist**  
 CFCF CKGW KDYL KFI KGO KGW  
 KHQ KOA KOMO KSD WBEN  
 WCAE WCKY WCHS WDAF WFAE  
 WEEI WFBZ WFLA WGY WHO  
 WIS WJAR WJAX WLIT WMAQ  
 WOC WOW WRC WRVA WSAI  
 WTAG WTAM WTIC WWJ WWCN

**B — Conrad Thibault, Baritone**  
 KDKA KOIL KPRC KSO KSTP  
 KTHS KTHS KVOO KWRK KWK  
 WBAL WBZ WBZA WENR WFAA  
 WGAR WHAM WJDX WJZ WKY  
 WLW WMC WOAI WREN WSB  
 WSM WSMB

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C — Old Gold—Fred Waring**

CKOK KDB KERN KFBK KFPY  
 KFOR KGB KHJ KLRA KLZ KMBC  
 KMJ KMOX KOIN KOL KOMO  
 KSL KAT KTRH KTSK KVI KWG  
 WAAB WABC WADC WBRB WBT  
 WACH WCAO WCAU WCCO WDAE  
 WDBO WDOO WDRS WDSU WFBL  
 WFBM WGN WGST WHAS WHEC  
 WHK WIBW WJAS WJVS WKBW  
 WKRC WODX WOKO WOWO WQAM  
 WREC WRR WSPD

**R — Corn Cob Pipe Club**  
 KDYL KFI KGHK KGIR KGO KGW  
 KHQ KOA KOMO KSD WBEN  
 WCAE WCHS WDAF WFAE WEEI  
 WENR WFBZ WGY WHO WJAR  
 WLIT WLW WOC WOW WRC WRVA  
 WTAG WTAM WTIC WWJ

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**B — Irene Franklin, Songs**

KSO KTHS KWCR KWK KYW WAPI  
 WBAL WCKY WFAA WFLA WGAR  
 WIOD WIS WJAX WJR WJZ WKY  
 WMAL WMC WOAI WREN WSMB  
 WSYR WWCN

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
**B — Century of Progress**

CKGW KOIL KSO KWCR KWK  
 KYW WAPI WBAL WFLA WGAR  
 WHAM WIOD WIS WJAX WJR  
 WJZ WMAL WMC WREN WSB  
 WSMB WSYR WWCN

**C — Edwin C. Hill, See Monday**  
**R — Dance Hits of Yesteryear**  
 WAPI WBEN WCAE WCKY WCHS  
 WFAE WEEI WGY WJAR WMC  
 WSB WSMB WTAG WTAM WWJ

**R — Carveth Wells**  
 KDYL KFJR KGHK KGIR KOA  
 KPRC KSD KSTP KTHS KTSK  
 WDAF WDAY WFCB WFAA WFBZ  
 WHO WIBA WKY WMAQ WOAI  
 WOC WOW WRVA WTMJ

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**C — Light Opera Gems**

CFRB CKOK KFH KLZ KMBC  
 KRLD KSCJ KSL KTSK KFOR  
 WABC WADC WBCM WBIG WCAH  
 WCAO WCAU WDAE WDBJ WDBO  
 WDOO WDRS WDSU WEAN WFBL  
 WFBM WFEA WGR WGST WHEC  
 WHK WHP WIBW WISN WJAS  
 WLAC WLWB WLWZ WNCN WNAK  
 WNOX WOKO WORC WQAM WREC  
 WSFA WSJS WSPD WTAQ WTCO  
 WWVA

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**B — Ames 'n' Andy, See Monday**

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**B — Everett Marshall, See Monday**

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**C — Freddie Martin and Orchestra**  
 CFRB KLRA KLZ KMBC KSL KTRH  
 KTSK KFOR WABC WADC WDBJ  
 WDBO WDOO WDRS WDSU WEAN  
 WFBL WFEA WGR WGST WHAS  
 WHK WHP WISN WJAS WJVS  
 WKBW WLAC WLWB WMBG WMT  
 WMT WNAK WODX WOKO WORC  
 WQAM WREC WSFA WSJS WSPD  
 WTAQ WTCO

WFLB WFBM WGST WHAS WHEC  
 WHK WHP WIBW WICC WISN  
 WJAS WJVS WKBW WLAC WLWB  
 WLBZ WMBG WMBG WMT WNCN  
 WODX WOKO WORC WPG WQAM  
 WSBT WSJS WSPD

**B — Sixteen Male Voices**  
 KSO KWCR KWK WBAL WBZ  
 WBZA WCKY WENR WGAR WHAM  
 WJZ WREN

**ED-12:00 p.m., E-11:00, C-10:00, M-9:00**  
**C — Eddie Duchin and Orchestra**

CKOK KFBK KLZ KMBC KSCJ  
 KTRH KFOR WABC WBRB WBT  
 WACH WCAO WCCO WDAE WDOO  
 WDSU WEAN WFBL WGST WHAS  
 WHK WHP WICC WISN WJAS  
 WJVS WKBW WLWB WMBD WMT  
 WNAK WNAK WNOX WOKO WORC  
 WPG WREC WSBT WSPD WTCO

**ED-12:15 a.m., E-11:15, C-10:15, M-9:15**  
**B — Sherlock Holmes**  
 KDYL KFI KFSD KGHK KGIR  
 KGO KGW KHQ KOA KOMO KTRH

# THURSDAY

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

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**R — Waldorf-Astoria, See Monday**

**C — H. V. Kaltenborn**  
 CFRB CKOK KFBK KFH KLZ  
 KSCJ KFOR WABC WADC WDBJ  
 WDBO WDOO WDRS WDSU WEAN  
 WFAE WFBM WFEA WGST WHEC  
 WHK WHP WIBW WICC WISN  
 WJVS WJWS WKBW WLAC WLWB  
 WLWZ WMBD WMT WNCN WNAK  
 WNOX WOKO WORC WPG WQAM  
 WREC WSBT WSFA WSJS WSPD  
 WTAQ WTCO

**ED-5:15 p.m., E-5:15, C-4:15, M-3:15**  
**C — Ozzie Nelson and Orchestra**

CFRB CKOK WABC WABC WACO  
 WBIG WBRB WCAO WDAE WDBJ  
 WDBO WDOO WDRS WDSU WFAE  
 WGST WHEC WHP WLWB WLWZ  
 WNOX WODX WOKO WORC WQAM  
 WREC WSBT WSFA WSJS WSPD  
 WTAQ WTCO

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**  
**R — Three Keys**

KECA KEX KFSD KFJR KGA  
 KJR KOA KPO KSD KTHS KTSK  
 WAPI WDAF WDAY WFAE WFBZ  
 WFI WIBA WIS WJAR WMAQ  
 WMC WOAI WSAI WSB WSMB  
 WTAG WWJ WWCN

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**R — Olga Albani, See Monday**

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

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**B — Ames 'n' Andy, See Monday**

**C — Charles Carlie, Tenor**  
 CFRB CKLW KFH KLZ KMBC KSL  
 KTSK KFOR WABC WADC WBIG  
 WBRB WCAO WCAU WCCO WDAE  
 WDBJ WDBO WDOO WDRS WDSU  
 WEAN WFBL WFEA WGR WGST  
 WHAS WHK WHP WISN WJAS  
 WJVS WKBW WLAC WLWB WMBG  
 WMT WNAK WODX WOKO WORC  
 WQAM WREC WSFA WSJS WSPD  
 WTAQ WTCO

# THURSDAY—(Continued)

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**C — Buck Rogers, See Monday**  
**R — Century of Progress, See Monday**

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**C — Jack Dempsey, See Tuesday**

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**B — Morie Thorpe, Talks**

KDKA KECA KFSD KGA KGIR  
 KGW KJR KOA KOIL KSO KWCR  
 KWK WJR WAPI WBAL WGAR  
 WHAM WIOD WIS WJDX WJZ  
 WMAL WMC WREN WSB WSM  
 WSYR WWCN

**C — Boake Carter, See Monday**  
**R — The Goldbergs, See Monday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**C — Evan Evans, Do Re Mi**

CFRB CKOK KFH KLRA KMBC  
 KSCJ KTRH KTSK KFOR WABC  
 WACH WCAH WCAU WCCO WDAE  
 WDBJ WDBO WDOO WDRS WDSU  
 WEAN WFBL WFBM WFEA WGR  
 WGST WHAS WHEC WHK WHP  
 WIBW WIP WISN WJAS WJVS  
 WKBW WLAC WLWB WMBG WNCN  
 WNOX WOKO WPG WQAM WREC  
 WSE WSJS WSPD WTAQ WTCO  
 WTVB

**R — Rudy Vallee and Orchestra**

CFCF CKGW KDYL KFI KFJR  
 KGO KGW KHQ KOA KOMO KPRC  
 KSD KSTP KTRH KTSK KFOR  
 WBEN WCAE WCKY WCHS WDAF  
 WDAY WFAE WFCB WEEI WFBZ  
 WFI WFLA WGY WHO WIOD WJAR  
 WJAX WJDX WKY WMAQ WMC  
 WOAI WOC WOW WRC WRVA  
 WSAI WSB WSM WSMB WTAG  
 WTAG WTMJ WWJ

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Kate Smith, See Tuesday**

**B — Rin Tin Tin Thriller**  
 KDKA KOIL KWK WBZ WBZA  
 WGAR WHAM WJZ WLS WLW  
 WREN

**ED-8:45 p.m., E-7:45, C-6:45, M-5:45**  
**C — Abe Lyman, See Tuesday**

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**R — Maxwell House Show Boat**

KPRC KSD KSTP KTHS WAPI  
 WBAP WBEN WCAE WCKY WCHS  
 WDAF WFAE WEEI WFBZ WFI  
 WFLA WGY WHO WIOD WIS WJAR  
 WJAX WJDX WKY WMAQ WMC  
 WOAI WOC WOW WRC WRVA  
 WSAI WSB WSM WSMB WTAG  
 WTAG WTMJ WWJ WWCN

**C — Easy Aces, See Tuesday**

**B — Death Valley Days**

KDKA KOIL KWK WBAL WBZ  
 WBZA WGAR WHAM WJR WJZ  
 WLS WLW WREN

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**  
**C — Fray and Braggiotti**

CFRB CKOK KFH KLRA KLZ  
 KMBC KSCJ KTRH KTSK KFOR  
 WABC WADC WBIG WCAH WCAO  
 WCAU WDAE WDBJ WDBO WDOO  
 WDRS WDSU WEAN WFBL WFEA  
 WGST WHEC WHP WIBW WICC  
 WISN WJAS WKBW WLAC WLWB  
 WLWZ WMT WNAK WNAK  
 WNOX WOKO WORC WPG WQAM  
 WREC WSBT WSJS WSPD WTCO

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — Col. Stoenagle and Budd**

CKOK KDB KERN KFBK KFH  
 KFPY KFRC KGB KHJ KLRA KLZ  
 KMBC KMJ KMOX KOIN KOL  
 KOMA KSCJ KSL KTRH KAT  
 KTSK KVI KWG WABC WADC  
 WBRB WBT WCAH WCAU WCAU  
 WCCO WDAE WDBO WDRS WDSU  
 WEAN WFBL WFBM WGN WGST  
 WHAS WHEC WHK WJAS WJVS  
 WKBW WKRC WLAC WNAK WOKO  
 WOWO WQAM WREC WRR WSPD  
 WTAG

**B — Wayne King and Orchestra**

KDKA KOIL KSO KWCR KWK  
 WBAL WBZ WBZA WENR WJZ  
 WREN

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**R — Lucky Strike—Jack Pearl**

KDYL KFI KFSD KFJR KGO KGW  
 KHQ KOA KOMO KPRC KSD KSTP  
 KTRH KTHS KTHS KVOO WBAF  
 WBEN WCAE WCHS WDAF WDAY  
 WFAE WFCB WEEI WENR WFBZ  
 WFI WFLA WGY WHO WIBA WIOD  
 WIS WJAR WJAX WJDX WKY  
 WLW WMC WOAI WOC WOW WRC  
 WRVA WSB WSM WSMB WTAG  
 WTAG WTMJ WWJ WWCN

**C — John Henry—River Giant**

CFRB CKLW KFH KLRA KLZ  
 KMBC KSL KTRH KTSK KFOR  
 WABC WABC WBBM WBIG WBRB  
 WCAH WCAO WCAU WCCO WDAE  
 WDBJ WDBO WDOO WDRS WDSU  
 WEAN WFBL WFEA WGST WHAS  
 WHK WHP WIBW WICC WISN  
 WJAS WJVS WKBW WKBW WLAC  
 WLWB WLWZ WMBD WMBG WMT  
 WODX WOKO WORC WPG WQAM  
 WREC WSBT WSJS WSPD

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**C — California Melodies**

CFRB CKLW KFH KLRA KLZ  
 KMBC KSL KTRH KTSK KFOR  
 WABC WABC WBBM WBIG WBRB  
 WCAH WCAO WCAU WCCO WDAE  
 WDBJ WDBO WDOO WDRS WDSU  
 WEAN WFBL WFBM WFEA WGST  
 WHAS WHEC WHK WHP WIBW WICC  
 WJAS WJVS WKBW WKBW WLAC  
 WLWB WLWZ WMBD WMBG WMT  
 WODX WOKO WORC WPG WQAM  
 WREC WSBT WSJS WSPD WTCO

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**C — Howard Barlow, See Monday**

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**B — Sizzlers Trio**

WBAL WFLA WGAR WHAM WIS  
 WJAX WJZ WMAL WRVA WSYR  
 WWCN

**R — James Melton, Tenor**

KSD WCAE WCKY WFAE WFBZ  
 WRC WSAI WTAG WWJ

**B — Ames 'n' Andy, See Monday**

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**C — Ted Lewis, See Monday**

**ED-1:00 a.m., E-12:00, C-11:00, M-10:00**  
**R — Maxwell House Show Boat**

KDYL KFI KFSD KGO KGW KHQ  
 KOA KOMO KTRH

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**R — Waldorf-Astoria, See Monday**

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**  
**R — Betty Boop—Mae Questel**

KFSD KFJR KOA KPO KSD KTSK  
 KTHS WBEN WDAF WFAE WFBZ  
 WGY WIBA WIS WJDX WOAI  
 WSB WSMB WWCN

**B — Tastyest Jesters, See Monday**

**C — Happy Wonder Bakers, See Monday**

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**C — Just Plain Bill, See Monday**

**B — Lowell Thomas, See Monday**

**B — Orphan Annie, See Monday**

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**B — Ames 'n' Andy, See Monday**

**C — Mildred Bailey, See Wednesday**

**R — Borrah Minevitch, Harmonica**

WAPI WFAE WFBZ WJAR WMC  
 WRC WSAI WSB WSM WWJ

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**R — Century of Progress, See Monday**

**C — Buck Rogers, See Monday**

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

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**C — Boake Carter, See Monday**

**R — The Goldbergs, See Monday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**R — Cities Service Concert**

CKGW KDYL KOA KPRC KSD  
 KSTP KTHS KYW WBEN WCAE  
 WCHS WDAF WFAE WFCB WEEI  
 WFAA WFBZ WGY WHO WJAR  
 WKY WLIT WOAI WOC WOW WRC  
 WSAI WTAG WTAM WTIC WTMJ  
 WWJ

**B — Nestle's Program**

KDKA KOIL KWK WBAL WBZ  
 WBZA WGAR WHAM WJR WJZ  
 WLS WREN

**C — Nine Martini, Tenor**

CFRB CKLW KMBC KTRH KTSK  
 KFOR WABC WBIG WBRB WCAH  
 WCAO WCAU WCCO WDBJ WDBO  
 WDOO WDRS WDSU WEAN WFBL  
 WFEA WGR WGST WHEC WHK  
 WHP WISN WJAS WJVS WLAC  
 WLWB WLWZ WMBG WMT WODX  
 WOKO WORC WPG WQAM WREC  
 WSFA WSJS WSPD WTAQ WTCO

**B — Herlick Program, See Tuesday**

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Foreign Legion**

CFRB CKLW KLRA KMBC KSL  
 KTRH KTSK KFOR WABC WBIG  
 WCAH WCAO WCAU WCCO WDAE  
 WDBJ WDBO WDOO WDRS WDSU  
 WFBL WFEA WGR WGST WHAS  
 WHEC WHK WHP WISN WJAS  
 WJVS WLAC WLWB WLWZ WMBG  
 WMT WOKO WORC WQAM WREC  
 WSBT WSFA WSJS WSPD WTAQ  
 WTCO

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**B — Archer Gibson, Organist**

KDYL KFSD KFJR KGO KGW  
 KHQ KOA KOMO KPRC KSD KSTP  
 KTHS KTHS KVOO WBAF  
 WBEN WCAE WCHS WDAF WDAY  
 WFAE WFCB WEEI WENR WFBZ  
 WFI WFLA WGY WHO WIOD WJAR  
 WJAX WJDX WKY WMAQ WMC  
 WOAI WOC WOW WRC WRVA  
 WSAI WSB WSM WSMB WTAG  
 WTAG WTMJ WWJ

# FRIDAY

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

## FRIDAY—(Continued)

**C — Irvin S. Cobb, See Wednesday**  
**R — Musical Groovy Store**  
 KSD WBEN WCAE WCHS WDAF WFAE  
 WEEI WFBW WGY WJAR WLIT  
 WMAQ WRC WTG WTAM WTC

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**  
**C — Street Singer, See Monday**

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**R — Pond's Program**  
 KSD WBEN WCAE WCHS WDAF  
 WFAE WENR WFBW WGY WHO  
 WJAR WLIT WOC WOW WRC WSAI  
 WTG WTAM WWJ  
**C — Edwin C. Hill, Inside Story**  
 CKOK KFH KLRA KMBC KMOX  
 KOMA KRLD KTRH KTSK KVCB  
 WADC WBCM WCAE WCAO WCAU  
 WCCO WDRD WEAN WFLB WFBM  
 WGN WHAC WHAS WHK WHP  
 WIBW WJAS WJVS WKBB WLWB  
 WKRC WLWB WLWB WMBD WNAE  
 WOKO WORC WOWO WRC WSPD  
**B — Armour Program—Phil Baker**  
 KDCA KDYL KFI KGO KGW KHQ  
 KOA KOIL KPO KPRC KSO KSTP  
 KWK WAPI WBAL WBZ WBSZ  
 WBBB WFAA WJAR WHAM WIOD  
 WJAX WJR WJZ WKY WMAQ  
 WMC WMOI WREN WRVA WSB  
 WSM WSMB WTMJ WWNC

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**R — Chevrolet—Jack Benny**  
 KDYL KFI KFSB KFYR KGH  
 KIDL KGO KGW KHQ KOA KOIL  
 KPRC KSD KSTP KTRT KTSB  
 KTHS KVOO WBEN WCAE WCHS  
 WDAF WDAY WFAE WFBW WEEI  
 WENR WFAA WFBW WFLA WGY  
 WHO WIBA WIOD WIS WJAR  
 WJAX WKY WLIT WLW WMC  
 WMOI WOC WOW WRC WRVA WSB  
 WSM WSMB WTG WTAM WTC  
 WTMJ WWJ WWNC  
**C — Chesterfield—Lou Holtz**  
 CKLW KDB KERN KFBK KFPY  
 KPRC KGB KHL KLRA KLZ KMBC  
 KMJ KMOX KOL KOLN KOMA  
 KRLD KSL KTRH KTSK KVI KWG  
 WABC WADC WBRB WBT WCAH  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDRD WDSU WEAN WFLB  
 WFBM WGN WGST WISN WJVS  
 WKRC WLAC WLWB WMBG WMT  
 WNAE WOC WORC WOWO WPG  
 WQAM WREC WSPD WTAQ WTC

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**B — Irene Franklin, See Wednesday**

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
**R — Richfield Country Club**  
 WBEN WCAE WFAE WEEI WFBW  
 WGY WJAR WLIT WRC WTC  
**C — Little Jack Little**  
 CFRB CKLW KFH KLRA KLZ  
 KMBC KRLD KSL KTSK KVCB  
 WAAB WABC WBBM WBIG WBRB  
 WCAH WCAO WCAU WDAE WDBJ  
 WDBO WDRD WDRS WDSU WEAN  
 WFLB WFBM WFEA WGST WHAS  
 WHEC WHK WHP WIBW WJAS  
 WJVS WKBB WLAC WLWB WLWB  
 WMBD WMBG WMT WODX WOKO  
 WORC WPG WQAM WREC WSBT  
 WSJS WSPD WTAQ  
**B — First Nighter, Drama**  
 KDCA KDYL KFI KFSB KGO KGW  
 KHQ KOA KOIL KMO KPRC

KSTP KTAR KWK WAPI WBAL  
 WBZ WBZA WCKY WECB WGAR  
 WHAM WJR WJZ WKY WLS WMAI  
 WREN WSB WSM WSMB WTMJ

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**B — Amos 'n' Andy, See Monday**

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**C — Do Re Mi Girls**  
 CFRB CKLW KLRA KLZ KMBC  
 KSL KTSK KVCB KVRB WABC  
 WBIG WBRB WCAH WCAO WCCO WDAE  
 WDBJ WDBO WDRD WDRS WDSU  
 WEAN WFLB WFBM WFEA WGST  
 WHAS WHEC WHP WIBW WIP  
 WJAS WJVS WKBB WLAC WLWB  
 WLWB WMBD WMBG WMT WNAE  
 WODX WOKO WORC WPG WQAM  
 WSBT WSJS WSPD WTAQ WTVB  
**B — Dorothy Fialde—Jimmy McHugh**  
 KSO KWCR KWK WBAL WENR  
 WGAR WHAM WJR WJZ WMAL  
 WREN

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**R — Musical Grocery Store**  
 KDYL KFI KFSB KGO KGW KHQ  
 KOA KOMO KTAR WDAF  
**C — Abe Lyman, See Tuesday**  
**B — Phantom Gypsy, See Monday**

**ED-12:00 p.m., E-11:00, C-10:00, M-9:00**  
**C — George Hall and Orchestra**  
 CKOK KFBK KLZ KMBC KRLD  
 KSCJ KSL KTRH KVCB WABC  
 WBRB WBT WCAU WCCO WDAE  
 WDBO WDRD WDSU WISN WJVS  
 WLWB WMBD WNAE WNAE WOKO  
 WPG WSBT WSPD WTC

## SATURDAY

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

**ED-8:00 p.m., E-5:00, C-4:00, M-3:00**  
**B — Don Bestor and Orchestra**  
 KDCA KOIL KSO KWCR KWK  
 WBAL WENR WHAM WJR WJZ  
 WMAL WREN WSYR  
**C — America's Grub Street**  
 CFRB CKOK KFBK KFH KSCJ KSL  
 KTRH KVRB WAAB WABC WADC  
 WBBM WBCM WBIG WBRB WBT  
 WCAO WCAU WCCO WDAE WDBO  
 WDRD WDRS WDSU WEAN WFEA  
 WHEC WICC WISN WJVS WKBB  
 WLWB WLWB WNAE WNAE WOKO  
 WORC WQAM WSBT WSAF WSJS  
 WSPD WTAQ WTC WTVB  
**R — Waldorf-Astoria, See Monday**

**ED-8:15 p.m., E-5:15, C-4:15, M-3:15**  
**C — Art Coogan and Orchestra**  
 CFRB CKLW KFH KLRA KLZ  
 KMBC KSL KTRH KTSK KVCB  
 WAAB WABC WACO WBIG WBRB  
 WCAH WDAE WDBJ WDBO WDRD  
 WDRS WDSU WFLB WFEA WGR  
 WGST WHAS WHK WHP WIBW  
 WICC WIP WISN WJVS WKBB  
 WLWB WLWB WMBG WMT WODX  
 WOKO WORC WQAM WSBT WSAF  
 WSJS WSPD WTAQ WTC WTVB

**ED-8:30 p.m., E-5:30, C-4:30, M-3:30**  
**C — Billy Burton and Orchestra**  
 CFRB CKOK KTRH WAAB WABC  
 WACO WADC WBIG WCAO WCAU  
 WDAE WDBJ WDBO WDRD WDRS  
 WDSU WEAN WFEA WGR WGST  
 WHEC WHP WICC WJVS WLAC  
 WLWB WLWB WNOX WODX WOKO

WORC WQAM WREC WSBT WSFA  
 WSPD WTC  
**B — Laws That Safeguard**  
 KDYL KEX KFSB KFYR KGA KGR  
 KJR KOA KOIL KPO KPRC KSO  
 KSTP KTAR KTSB KTSB KWCR  
 KWK WBAL WBZ WBZA WCKY  
 WECB WFLA WIBA WIOD WIS  
 WJAX WJR WJZ WKY WMAQ  
 WMC WMOI WREN WRVA WSB  
 WSMB WWNC

**ED-8:45 p.m., E-5:45, C-4:45, M-3:45**  
**B — Orphan Annie, See Monday**  
**R — Pickens Sisters**  
 CKGW KDYL WBEN WCAE WFAE  
 WFBW WGY WHO WIOD WIS WJAR  
 WJAX WMC WOC WOW WSAI  
 WTG WWNC  
**B — Vincent Lopez and Orchestra**  
 WBAL WGAR WHAM WJR WJZ  
 WSYR

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**R — Bert Lown and Orchestra**  
 CFCF WBEN WDAF WFAE WFBW  
 WFI WGY WJAR WMAQ WSAI  
 WTG WTAM  
**B — American Taxpayers' League**  
 KDCA KDYL KFSB KGA KJR KOA  
 KPO KSO KTSB KWCR WBAL  
 WBBB WFLA WHAM WIBA WJR  
 WJZ WMAL WMC WSB WSMB  
 WSYR WWNC  
**C — Frederic William Wile**  
 KMBC KRLD KTRH WABC WADC  
 WBBM WBCM WBIG WBRB WBT  
 WCAO WCAU WDAE WDBO WDRD  
 WDRS WDSU WEAN WFBM WFEA  
 WGR WHEC WHK WICC WJAS  
 WJVS WLWB WLWB WNAE WNAE  
 WQAM WSFA WSPD WTAQ WTVB

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**C — Gypsy Nina**  
 CFRB CKLW KFH KLZ KMBC  
 KTRH KTSK KVCB KVRB WABC  
 WACO WBBM WBIG WBRB WCAH  
 WCAU WCCO WDAE WDBJ WDBO  
 WDRD WDRS WDSU WEAN WFEA  
 WGR WGST WHK WHP WIBW  
 WISN WJAS WJVS WKBB WKBB  
 WLWB WLWB WMT WNAE WNOX  
 WODX WOKO WORC WOWO WQAM  
 WREC WSPD WTAQ WTC

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**C — Glen Gray and Orchestra**  
 CFRB CKLW KFH KLZ KMBC  
 KTRH KTSK KVCB KVRB WABC  
 WACO WBBM WBIG WBRB WCAH  
 WCAU WCCO WDAE WDBJ WDBO  
 WDRD WDRS WDSU WEAN WFEA  
 WGR WGST WHK WHP WIBW  
 WISN WJAS WJVS WKBB WKBB  
 WLWB WLWB WMT WNAE WNOX  
 WODX WOKO WORC WOWO WQAM  
 WREC WSPD WTAQ WTC  
**R — Century of Progress, See Monday**  
**B — Everett Marshall, See Monday**

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**R — The World Today**  
 KFYR KTSB WBEN WDAF WFAE  
 WENR WFBW WFLA WGY WHO  
 WIBA WIS WJAR WJAX WKY  
 WMOI WOC WOW WPTF WRC  
 WSAI WTG WTAM WWJ WWNC  
**B — Irene Bordini, See Tuesday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**R — Ortiz Tirado, Mexican Tenor**  
 CKGW KFYR KOA KPO KPRC KSD

## SATURDAY—(Continued)

KSTP KTSB WBEN WCKY WCHS  
 WDAF WDAY WFAE WFBW WEEI  
 WFI WGY WHO WIBA WIOD WIS  
 WJAR WMAQ WMC WMOI WOC  
 WRC WSAI WSMB WTG WTAM  
 WWJ WWNC

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
**C — Magic Voice, See Tuesday**

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Leon Bolasco and Orchestra**  
 CFRB CKOK KFH KLRA KLZ  
 KMBC KSCJ KSL KTRH KTSK  
 KVCB KVRB WABC WADC WBIG  
 WCAH WCAO WCAU WCCO WDAE  
 WDBJ WDBO WDRD WDRS WDSU  
 WEAN WFLB WFBM WFEA WGST  
 WHAS WHEC WHK WHP WIBW  
 WICC WISN WJAS WJVS WKBB  
 WLWB WLWB WMT WNAE WNOX  
 WODX WOKO WORC WQAM WREC  
 WSBT WSFA WSPD WTAQ WTC  
**R — Economic World Today**  
 KDYL KFSB KFYR KGA KFH  
 KGR KJR KOA KPO KPRC KSD  
 KSTP WAPI WBAP WBEN WCHS  
 WDAF WDAY WFAE WFBW WEEI  
 WFBW WFI WFLA WGY WHO WIBA  
 WIOD WIS WJAR WJDX WKY  
 WMAQ WMC WMOI WOC WOW  
 WRC WSAI WSMB WTG WTAM  
 WWJ WWNC

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — Easy Aces, See Tuesday**  
**R — Ranny Weeks, See Wednesday**

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**  
**C — Boswell Sisters**  
 CFRB CKOK KFH KLRA KLZ  
 KMBC KMOX KRLD KSCJ KSL  
 KTRH KTSK KVCB KVRB WABC  
 WACO WADC WBBM WBCM WBIG  
 WBRB WBT WCAH WCAO WCCO  
 WDAE WDBJ WDBO WDRD WDSU  
 WEAN WFLB WFBM WFEA WGST  
 WHAS WHEC WHK WHP WIBW  
 WICC WISN WJAS WJVS WKBB  
 WKBB WLWB WLWB WMT WNAE  
 WNOX WODX WOKO WORC WOWO  
 WQAM WREC WSPD WTAQ WTC

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**R — K-7, Drama**  
 KSD WBEN WCAE WCHS WDAF  
 WFAE WENR WFBW WFI WGY WHO  
 WJAR WMAQ WOC WOW WRC  
 WSAI WTG WTAM WWJ

**ED-9:45 p.m., E-8:45, C-7:45, M-6:45**  
**C — Saturday Frivolities**  
 CFRB CKOK KFH KLRA KLZ  
 KMBC KMOX KSCJ KSL KTRH  
 KTSK KVCB KVRB WABC WBBM  
 WBIG WBRB WCAH WCAO WCCO  
 WDAE WDBJ WDBO WDRD WDSU  
 WEAN WFLB WFBM WFEA WGST  
 WHK WHP WIBW WICC WJAS  
 WJVS WKBB WLAC WLWB WLWB  
 WMBD WMT WNAE WNAE WNOX  
 WODX WOKO WORC WPG WQAM  
 WREC WSBT WSJS WSPD WTC

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**B — Gilbert and Sullivan Gems**  
 KDCA KOIL KSO KWCR KWK  
 WBAL WBZ WBZA WCKY WFLA  
 WGAR WHAM WIS WJAX WKY  
 WJR WMAL WREN WRVA WSYR  
 WWNC

**R — B. A. Rolfe and Orchestra**  
 CFCF CKGW KDYL KFI KGO  
 KOA KSD KSTP WBAP WBEN  
 WCAE WCHS WDAF WFAE WEEI  
 WFBW WFI WGY WHO WJAR  
 WLW WMAQ WOC WOW WRC  
 WSB WSMB WTG WTAM WWJ

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**C — Public Affairs Institute**  
 KFH KLZ KSCJ KTRH KTSK KVCB  
 KVRB WAAB WABC WADC WBBM  
 WBCM WBIG WBRB WBT WCAO  
 WCAU WCCO WDAE WDBO WDRD  
 WDRS WDSU WEAN WFBM WFEA  
 WHEC WICC WJAS WJVS WKBB  
 WLWB WLWB WMBD WNAE WNOX  
 WODX WOKO WORC WQAM WREC  
 WSBT WSJS WSPD WTAQ WTC  
 WTVB

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

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**C — Gertrude Niesen**  
 CFRB CKOK KFH KLRA KLZ  
 KMBC KSCJ KTRH KTSK KVCB  
 KVRB WAAB WABC WBIG WCAO  
 WDAE WDBJ WDBO WDRD WDRS  
 WDSU WEAN WFEA WGST WHAS  
 WHEC WHK WHP WICC WIP WISN  
 WJAS WJVS WKBB WLAC WLWB  
 WLWB WMBD WMT WNAE WNOX  
 WODX WOKO WORC WPG WQAM  
 WREC WSBT WSJS WSPD WTAQ  
 WTC WTVB

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**B — The Buccaneers Vocal Trio**  
 KDCA KDYL KFSB KFYR KGH  
 KOA KOIL KPO KPRC KSO KSTP  
 KTSB KWCR KWK WBAL WBZ  
 WBZA WCB WFAA WFLA WGAR  
 WHAM WIBA WIOD WIS WJDX  
 WJR WJZ WKY WLW WMAQ WMC  
 WREN WSB WSMB WSYR WWNC  
**C — Freddie Martin and Orchestra**  
 CFRB CKOK KFBK KLRA KLZ  
 KMBC KSCJ KSL KTRH KVCB  
 KVRB WAAB WABC WACO WADC  
 WCAH WCAO WCAU WCCO WDAE  
 WDBJ WDBO WDRD WDSU WEAN  
 WFBM WGR WGST WHEC WHK  
 WHP WIBW WICC WIP WISN WJAS  
 WJVS WKBB WLAC WLWB WMBD  
 WMT WNAE WNOX WODX WOKO  
 WORC WQAM WREC WSBT WSJS  
 WSPD WTAQ WTC

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**B — Everett Marshall, See Monday**

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**C — Ben Pollack and Orchestra**  
 CFRB CKLW KFH KLRA KLZ  
 KMBC KTRH KTSK KVCB KVRB  
 WABC WBBM WBIG WBRB WCAH  
 WCAO WCCO WDAE WDBO WDRD  
 WDRS WDSU WEAN WFBM WFEA  
 WGST WHAS WHEC WHK WHP  
 WIBW WICC WIP WISN WJAS  
 WJVS WKBB WLAC WLWB WLWB  
 WMBD WMT WNAE WNOX WODX  
 WOKO WORC WQAM WREC WSBT  
 WSJS WSPD WTAQ WTC

**B — The Witching Hour**  
 KDCA KDYL KEX KFSB KFYR  
 KGA KGH KJR KOIL KPO KPRC  
 KSO KSTP KTSB KWCR KWK  
 WBAL WBZ WBZA WDAY WECB

WFLA WGAR WIBA WIOD WIS  
 WJR WJZ WKY WLW WMAL WMC  
 WREN WRVA WSB WSMB WSYR  
 WWNC

**R — Harold Stern and Orchestra**  
 KSD WBEN WCAE WCKY WCHS  
 WDAF WFAE WEEI WFBW WFI  
 WGY WHO WJAR WMAQ WOC  
 WRC WSAI WTG WTAM WWJ

**ED-12:00 m., E-11:00, C-10:00, M-9:00**  
**R — Johnny Johnson and Orchestra**  
 KSD WCAE WCKY WDAF WFAE  
 WFBW WFI WGY WHO WJAR  
 WMAQ WOC WRC WTG WTAM  
**B — Mark Fisher's Orchestra**  
 KOIL KSO KWCR KWK KYW  
 WGAR WJZ WLW WRC WREN

## SUNDAY

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

**ED-11:30 a.m., E-10:30, C-9:30, M-8:30**  
**C — Salt Lake Tabernacle Choir**  
 CFRB CKOK KFBK KLZ KSCJ KSL  
 KTRH KTSK KVCB KVRB WABC  
 WADC WBBM WBIG WBT WCAO  
 WCAU WCCO WDAE WDBO WDRD  
 WDRS WDSU WEAN WFEA WGR  
 WHEC WHK WHP WISN WJAS WJVS  
 WKBB WKBB WLWB WLWB WMBD  
 WMT WNAE WNOX WODX WOKO  
 WORC WPG WQAM WSBT WSJS  
 WSPD WTAQ WTC WTVB

**ED-12:15 p.m., E-11:15, C-10:15, M-9:15**  
**B — Radio City Concert**  
 CFCF CKGW KDCA KDYL KPCA  
 KEX KFSB KFYR KGA KJR KOA  
 KOIL KPO KPRC KSTP KTRT  
 KTSB KWCR KWK WAPI WBAL  
 WBZ WBZA WDAY WECB WFAA  
 WFLA WGAR WHAM WIBA WIOD  
 WIS WJAX WJR WJZ WKY WLW  
 WMAQ WMOI WOC WREN WRVA  
 WSB WSM WSMB WSYR WWNC

**ED-12:30 p.m., E-11:30, C-10:30, M-9:30**  
**R — Walter Logan Pop Concert**  
 CFCF CKGW KDYL KFYR KOA  
 KPRC KSTP KTSB KVOO WAPI  
 WBEN WCAE WCKY WCHS WDAF  
 WDAY WFAE WFBW WEEI WFA  
 WFBW WFI WGY WHO WIBA  
 WIOD WIS WJAR WJZ WKY  
 WMOI WOC WRVA WSAI WSB  
 WSM WSMB WTG WTAM WWJ WWNC

**ED-12:45 p.m., E-11:45, C-10:45, M-9:45**  
**C — Street Singer**  
 CFRB CKOK KFBK KLZ KMBC  
 KSCJ KSL KTRH KTSK KVCB  
 KVRB WAAB WABC WBCM WBIG  
 WBT WCAO WCCO WDAE WDBO  
 WDRD WDSU WGR WHEC WHK  
 WHP WISN WJAS WJVS WKBB  
 WKBB WLWB WLWB WMBD WNAE  
 WNOX WODX WOKO WPG WQAM  
 WREC WSBT WSJS WSPD WTAQ  
 WTC WTVB

**ED-1:06 p.m., E-12:00, C-11:00, M-10:00**  
**C — Columbia Church of the Air**  
 CFRB CKOK KLZ KSCJ KSL KTRH  
 KTSK KVCB KVRB WABC WADC  
 WBCM WBIG WCAO WCCO WDAE

# SUNDAY—(Continued)

WDBO WDOO WDRC WDSU WGR  
WHCC WJWB WJAS WJSV WKBB  
WLWB WLWB WNAW WODX WOKO  
WPG WQAM WSBT WWSJ WSPD  
WTAQ WTAR WTOG WWVA

**ED-1:15 p.m., E-12:15, C-11:15, M-10:15**  
**B — Cook Travelogues**  
KDKA WBAL WBZ WBZA WCKY  
WGR WHAM WJR WJZ WMAL  
WMAQ WSYR

**ED-1:30 p.m., E-12:30, C-11:30, M-10:30**  
**C — Lazy Dan, Minstrel Man**  
CKOK KMBC KMOX WAAB WABC  
WBBM WCAW WCAU WCOO WCCO  
WHAS WJAS WJSV WKRC WMBG

**R — Folks from Dixie**  
CFCH CKGW KFI KFSD KFYP KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSTP KTBS KVOO WAPI WBBN  
WCAE WCKY WDAF WDAF WDAF  
WEEB WEEB WFAA WFBW WFI  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WKY WMAQ WOA WOC  
WOW WRC WRVA WSAI WSB WSM  
WSMB WTAT WTAM WWJ WNNC

**ED-2:00 p.m., E-1:00, C-12:00, M-11:00**  
**C — Smiling Ed McConnell**  
CKOK KERN KFBK KFFY KPRC  
KGB KHJ KLZ KMBC KMOX KOIN  
KOL KSL KVI KGW WABC WBBM  
WBT WCCO WDSU WGR WGST  
WHAS WHEC WJAS WJSV WKRC  
WLAC WNAW WONO WQAM WRR

**B — Monarch Mystery Tenor**  
KDKA KDYL KFI KFYP KGO KOA  
KOIL KSO KSTP KWCR KWG WBZ  
WBZA WCKY WDAY WEEB WGR  
WHAM WIBA WJAR WJAX WJR  
WJZ WMAQ WREN WTMJ WNNC  
**R — Pilgrims Mixed Chorus**  
CFCH KSD KTBS KTHS KYW WAPI  
WBBN WCAE WCKY WCHS WDAF  
WEEB WFAA WGY WJAR WJDX  
WMC WOA WOV WSAI WSM  
WSMB WTAT WTAM WWJ

**ED-2:15 p.m., E-1:15, C-12:15, M-11:15**  
**B — International Radio Forum**  
KDKA KOIL KSO KWCR KWK  
WBAL WJZ WMAL WMAQ WREN  
WSYR

**C — Albert Bartlett Tango King**  
CKOK KMBC KMOX WABC WBBM  
WCAU WCAU WGR WHEC WHK  
WJAS WJSV WKRC WNAW WOKO  
WOWO

**ED-2:30 p.m., E-1:30, C-12:30, M-11:30**  
**R — Joe Green's Marimba Band**  
CFCH CKGW WBBN WCAE WCKY  
WDAF WDAF WFBW WGY WJAR  
WMAQ WOV WRC WTAT WTAM

**B — Northwest Chronicle, Drama**  
KDKA KDYL KFI KFSD KFYP  
KGHL KGIR KGO KGW KHQ KOA  
KOIL KOMO KPRC KSO KSTP  
KTAR KTHS KVOO KWCR KWK  
KYW WAPI WBAL WBZ WBZA  
WDAY WEEB WFAA WFLA WGR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKY WLW WMAL  
WMC WOA WOV WSAI WSM  
WSMB WSM WTAT WTAM WWJ

**C — Victor Arden and Orchestra**  
CKOK KMBC KMOX WABC WBBM  
WCAU WCAU WGR WHEC WHK  
WJAS WJSV WKRC WNAW WOKO  
WOWO

**ED-2:45 p.m., E-1:45, C-12:45, M-11:45**  
**C — Armida, Songstress**  
CKLW KMBC KMOX WABC WBBM  
WCAU WCAU WGR WHEC WHK  
WJAS WJSV WKRC WNAW WOKO  
WOWO

**ED-3:00 p.m., E-2:00, C-1:00, M-12:00**  
**B — National Opera Concert**  
CFCH KDKA KOIL KSO KWCR  
KWK WBAL WBZ WBZA WCKY  
WHAM WJZ WMAL WMAQ WREN  
WSYR

**R — Wayne King and Orchestra**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTBS  
KTBS KVOO KYW WBBN WCAE  
WCKY WCHS WDAF WDAF WEEB  
WEEB WFAA WFBW WGY WHO  
WIBA WJAR WKY WLIT WOA  
WOC WOV WRC WSAI WTAT  
WTAM WTMJ WWJ

**ED-3:15 p.m., E-2:15, C-1:15, M-12:15**  
**C — Howard Barlow, Symphony**  
CFRB KFH KLRA KLZ KMBC  
KTRH KVR WABC WACO WBIG  
WCAH WCAU WCCO WDAE WDBJ  
WDBO WDOO WDRC WDSU WEAN  
WFBM WFEA WGR WGST WHEC  
WHK WHP WJBW WJCC WJIS  
WJAS WLAC WLWB WMBD WMBG  
WMT WNAW WODX WOKO WORC  
WQAM WSBT WWSA WWSJ WSPD  
WTAT

**ED-3:30 p.m., E-2:30, C-1:30, M-12:30**  
**R — Radio Pulpit**  
KDYL KFI KFSD KFYP KGHL  
KGIR KGO KGW KHQ KOA KOMO  
KPRC KSD KTHS KVOO WBBN  
WCAE WCHS WDAF WDAF WEEB  
WEEB WFBW WFLA WGY WHO  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WLIT WMC WOA  
WOC WOV WPTF WRC WRVA  
WSAI WSB WSM WSMB WTAT  
WTAM WWJ WNNC

**ED-4:00 p.m., E-3:00, C-2:00, M-1:00**  
**R — Fiddlers Three**  
CFCH CKGW KDYL KFI KFSD  
KFYP KGO KGW KHQ KOA KOMO  
KPRC KTAR KTBS KTHS KVOO  
WAPI WBAF WBBN WCAE WDAF  
WDAF WEEB WEEB WFBW WFLA  
WGY WIOD WIS WJAR WJAX  
WJDX WKY WLIT WMAQ WMC  
WOAI WOV WRC WRVA WSAI WSB  
WSM WSMB WTAT WTAM WNNC

**C — Cathedral Hour**  
CFCH KDKA KFH KLZ KMBC  
KRDL KSCJ KSL KVR WAAB  
WABC WADC WBBM WBCM WBIG  
WBRC WBT WCAU WCAU WCCO  
WDAE WDBO WDOO WDRC WDSU  
WFBM WFEA WHEC WIBW WICC  
WISN WJAS WJSV WKBB WKBN  
WKBW WLWB WLWB WNAW WNOX  
WOC WOV WRC WRVA WSAI WSB  
WSM WSMB WTAT WTAM WNNC

**ED-4:15 p.m., E-3:15, C-2:15, M-1:15**  
**B — Symphonette**  
CFCH CKGW KDKA KOIL KPRC  
KSO KTBS KWCR KWK WBAL  
WBAF WCKY WFLA WHAM WIOD  
WJAX WJZ WMAL WMC WOA  
WREN WRVA WSB WSM WSMB  
WSYR WNNC

**R — Wildroot—Vee Lawnhurst**  
KDYL KFI KGO KGW KHQ KOA  
KOMO WBBN WCAE WCHS WDAF

WEAF WEEL WFBR WGY WJAR  
WLIT WMAQ WOV WRC WSAI  
WTAG WTAM WWJ

**ED-4:30 p.m., E-3:30, C-2:30, M-1:30**  
**R — Temple of Song**  
WBBN WCAE WCHS WDAF WDAF  
WEEB WFBW WFI WGY WJAR  
WMAQ WOV WRC WSAI WTAT  
WTAM WWJ

**ED-5:00 p.m., E-4:00, C-3:00, M-2:00**  
**R — Impressions of Italy**  
WBBN WCAE WCHS WDAF WDAF  
WEEB WFBW WFI WGY WJAR  
WMAQ WOV WRC WSAI WTAT  
WTAM WWJ

**B — World of Religion**  
KDYL KFSD KFYP KGHL KGIR  
KGO KGW KHQ KOA KOIL KOMO  
KSTP KTAR KTBS KVOO KWCR  
KWK WBAL WBAF WBZ WBZA  
WFLA WCKY WEEB WFLA WGR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJZ WKY WMAL WMC  
WOAI WPTF WREN WRVA WSB  
WSM WSMB WTMJ WNNC

**ED-5:30 p.m., E-4:30, C-3:30, M-2:30**  
**C — Sanderson and Grumit**  
CKLW KFAB KFH KMBC KMOX  
KOMA WAAB WABC WADC WCAH  
WCAU WCAU WDCR WDSU WEAH  
WFBM WFBM WGR WHAS WHEC  
WHK WICC WJSV WOKO WORC  
WSPD WTAR WWVA

**R — Clyde Doerr's Saxophone Octet**  
KSD WBBN WCAE WCHS WDAF  
WDAF WEEB WENR WFBW WFI  
WFLA WGY WHO WIOD WIS WJAR  
WMC WOV WRC WSAI WSB  
WSM WSMB WTAT WTAM WWJ  
WNNC

**B — Pages of Romance, Drama**  
KDKA KOIL KSO KWCR KWK  
KYW WBAL WBZ WBZA WGR  
WJR WJZ WLW WREN

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**B — L'Heure Exquise**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZ WCKY WGR  
WHAM WJR WJZ WMAQ WREN  
WSYR

**R — Catholic Hour**  
KDYL KEX KFYP KGHL KGIR  
KJR KOA KPRC KSD KTAR KTBS  
KVOO WAPI WBAF WBBN WCAE  
WCKY WCHS WDAF WDAF WDAF  
WEEB WEEB WENR WFBW WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJDX WJZ WKY WLIT WMC  
WOAI WOV WRC WRVA WSAI WSB  
WSM WSMB WTAT WTAM WNNC

**C — The Lawyer and Public**  
CFRB KFAB KFH KLZ KRDL  
KSCJ KSL KVR WAAB WABC  
WACO WBCM WBIG WBRW WCAU  
WCCO WDAE WDBJ WDOO WDOO  
WDRC WDSU WEAN WFEA WGST  
WHAS WHP WJBW WJCC WJIS  
WKBH WLWB WLWB WNAW WNOX  
WODX WOV WRC WRVA WSAI WSB  
WSM WSMB WTAT WTAM WNNC

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**  
**C — Roses and Drums**  
CKOK KMBC KMOX KRDL WAAB  
WABC WADC WCAU WCCO WDSU  
WGN WGR WHAS WHK WJAS  
WJSV WKRC

# SUNDAY—(Continued)

**R — Our American Schools**  
KDYL KEX KFYP KGHL KGIR  
KGA KOA KPO KPRC KSD KSTP  
KTBS KVOO WBAF WBBN WCAE  
WCHS WDAY WDAF WEEB WEEB  
WENR WFBW WFLA WGY WIBA  
WIOD WJAR WKY WLIT WMC  
WOAI WOV WPTF WRC WRVA  
WSAI WSM WSMB WTAT WWJ  
WNNC

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**B — Dick Darling, Children's Sketch**  
KDKA KOIL KSO KWCR WBAL  
WBZ WBZA WCKY WENR WGR  
WHAM WJZ WMAL WREN WSYR

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**B — Borrah Minevitch, Harmonica**  
KDYL KFYP KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTBS  
KVOO KWK WBAL WCKY WDAY  
WEEB WFLA WIBA WIOD WIS  
WJZ WKY WLS WOA WREN WRVA  
WSMB WNNC

**R — James Melton, Tenor**  
KDYL KFYP KGO KPRC KSD  
KSTP KTBS KVOO WBBN WDAF  
WDAF WEEB WEEB WFBW WFLA  
WFLA WGY WIBA WIOD WIS  
WJAR WMAQ WOA WRVA WSAI  
WSMB WTAT WWJ WNNC

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**R — Joe Moss and Orchestra**  
WCHS WDAF WJAR WTAT WTIC  
**C — Great Moments in History**  
KDKA KDYL KFI KFSD KFYP  
KGO KGW KHQ KOA KOIL KOMO  
KPRC KSTP KTAR KVOO KWCR  
KWK WBAL WFLA WGR WDAY  
WEEB WFAA WFLA WGR WHAM  
WIBA WIOD WJAX WJDX WJR  
WJZ WKY WLS WLW WMC WOA  
WPTF WREN WRVA WSB WSM  
WSMB WTMJ WNNC

**C — Fray and Braggiotti**  
CKOK KFAB KFH KLZ KMBC  
KSCJ KSL KTRH KVR WABC  
WACO WADC WBRW WCAH WCAU  
WDAE WDBJ WDOO WDOO WDOO  
WDSU WEAN WFBM WFEA WGST  
WGST WHAS WHEC WHP WJBW  
WISN WJAS WJSV WLWB WLWB  
WMT WNAW WNOX WOKO WORC  
WQAM WSPA WWSJ WSPD WTAR  
WTOG WWVA

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

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**R — Chase and Sanborn**  
CFCH CKGW KDYL KFI KFSD  
KFYP KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KATR KVOO  
WBBN WCAE WCHS WDAF WDAY  
WDAF WEEB WFAA WFBW WFLA  
WGY WHO WIOD WIS WJAR WJDX  
WKY WLIT WLW WMAQ WMC  
WOAI WOV WRC WRC WSB WSM  
WSMB WTAT WTAM WTMJ WTMJ  
WWJ WNNC

**C — The Gauchos**  
CKOK KFAB KFH KLZ KSCJ KTRH  
KVR WAAB WABC WADC WBCM  
WBRW WBT WCAU WDAE WDOO  
WDOO WDCR WDSU WEAN WFAH  
WFBM WGR WHEC WIBW WICC

WIP WISN WJAS WJSV WKBN  
WLWB WLWB WMBD WNAW WODX  
WOKO WPG WQAM WWSJ WSPD  
WTAR WTOG

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Chicago Variety Program**  
KPH KLRA KLZ KMBC KSL KTRH  
KVR WABC WACO WBBM WBIG  
WBRW WCAH WCAU WCCO WDAE  
WDBJ WDOO WDOO WDOO WDSU  
WEAN WFBM WFBM WFEA WGR WGST  
WHEC WHK WHP WISN WJAS  
WKBH WLWB WLWB WNAW WNOX  
WOKO WORC WRC WSPA WWSJ  
WSPD WWVA

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — Columbia Dramatic Guild**  
CFRB KLRA KLZ KMBC KSL KTRH  
KTRH KTRH KVR WAAB WABC  
WBIG WBRW WCAH WCAU WCAU  
WCCO WDAE WDBJ WDOO WDOO  
WDOO WDSU WFBM WFBM WFEA  
WGR WGST WHEC WHP WJBW  
WICC WISN WJAS WKBW WLAC  
WLWB WMBD WMT WODX WOKO  
WORC WPG WQAM WSBT WWSJ  
WSPD WTAT WWVA

**B — Will Rogers**  
KPRC KTBS KTHS WAPI WBAL  
WBZ WBZA WFAA WFLA WGR  
WHAM WIS WJAX WJDX WJR  
WJZ WLW WMAL WMC WOA  
WPTF WRVA WSB WSM WSMB  
WSYR WNNC

**R — Manhattan Merry-Go-Round**  
KSD WDAF WDAF WENR WFBW  
WFI WGY WHO WJAR WOC WOV  
WRC WSAI WTIC WWJ

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**R — Album of a Family Must**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTBS  
WAPI WBBN WCAE WCKY WCHS  
WDAF WENR WFAA WFBW WFI  
WFLA WGY WHO WIOD WJAR  
WJAX WJDX WKY WMC WOA  
WOC WOV WRC WRVA WSAI WSB  
WSM WSMB WTAT WTAM WTMJ  
WWJ

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

**C — Andre Kostelanetz Presents**  
CKOK KLZ KMBC KMOX KVR  
KSCJ KSL KTRH KTRH KTRH  
WABC WADC WBBM WBCM WBRW  
WBT WDOO WDOO WDOO WDAE  
WDBO WDOO WDOO WDOO WDAE  
WFBM WFEA WGR WHEC WHK  
WIBW WISN WJAS WJSV WKBH  
WLWB WLWB WNAW WNOX WOKO  
WORC WSBT WSPA WWSJ WSPD  
WTAR WTOG WWVA

**ED-9:45 p.m., E-8:45, C-7:45, M-6:45**  
**B — Pickens Sisters**  
CFCH CKGW KDKA KOIL KSO  
KWCR KWK KYW WBAL WHAM  
WJR WJZ WREN WSYR

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**R — David Lawrence**  
KDYL KFI KFSD KFYP KGO KGW  
KHQ KOA KOMO KPRC KSTP  
KTBS WBBN WCAE WCKY WCHS  
WDAF WDAY WDAF WEEB WEEB  
WFBW WFI WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJZ WKY  
WMC WOA WOV WRC WRVA WSAI  
WSB WSM WSMB WTAT WTAM WNNC

**B — Phil Dewey, Fireside Songs**  
KDKA KOIL KSO KWCR KWK

WBAL WBZ WBZA WCKY WGR  
WHAM WJR WJZ WMAQ WREN  
WSYR

**C — John Henry—River Giant**  
CKOK KLRA KLZ KMBC KRDL  
KSCJ KSL KTRH KTRH KTRH  
WABC WACO WADC WBBM WBCM  
WBRW WBT WCAH WCAU WCCO  
WDAE WDBJ WDOO WDOO WDSU  
WFBM WFBM WFEA WGR WGST  
WHEC WHK WHP WISN WJAS  
WKBH WLWB WLWB WNAW WNOX  
WOKO WORC WRC WSPA WWSJ  
WSPD WWVA

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**C — Columbia Revue**  
CFRB KLRA KLZ KMBC KRDL  
KSL KTRH KTRH KTRH KTRH  
WABC WACO WADC WBBM WBCM  
WBRW WBT WCAH WCAU WCCO  
WDAE WDBJ WDOO WDOO WDSU  
WFBM WFBM WFEA WGR WGST  
WHEC WHK WHP WISN WJAS  
WKBH WLWB WLWB WNAW WNOX  
WOKO WORC WRC WSPA WWSJ  
WSPD WWVA

**R — Highlights and Shadows**  
CKGW KYW WBBN WCAE WCKY  
WCHS WDAY WDAF WEEB WFBW  
WFLA WGY WIOD WIS WJAR WOV  
WRC WSAI WTAT WTAM WWJ  
WNNC

**B — Vincent Lopez; Pratt-Sherman**  
KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KPRC KSTP  
KTBS KWK WBAL WBAF WBZ  
WBZA WGR WIBA WJDX WJR  
WJZ WKY WLW WMAQ WOA  
WREN WSB WSM WSMB WTMJ

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**R — Sunday at Seth Parker's**  
CFCH CKGW KDYL KFSD KFYP  
KGHL KGIR KGO KGW KHQ KOA  
KPRC KSTP KTAR KTBS KTHS  
KYW WAPI WBAF WBBN WCAE  
WCKY WCHS WDAF WDAY WDAF  
WEEB WEEB WFBW WFI WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WMC WOA WOC  
WOW WRC WRVA WSAI WSB WSM  
WSMB WTAT WTAM WTMJ WWJ  
WNNC

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

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**C — Eddie Duchin and Orchestra**  
CKOK KFAB KFH KLRA KLZ  
KMOX KSCJ KTRH KTRH WAAW  
WABC WBCM WBRW WCAU WCAU  
WCCO WDAE WDBJ WDOO WDOO  
WDOO WDSU WEAN WGST WHK  
WHP WJBW WICC WISN WKBH  
WLWB WLWB WMBD WMT WNAW  
WNOX WNOX WOKO WPG WQAM  
WRC WSBT WWSJ WSPD WTAR  
WTOG

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**R — Don Hall Trio**  
KFYP KSTP WCAE WCKY WCHS  
WDAF WDAY WDAF WEEB WENR  
WFBW WFI WGY WHO WIBA WOC  
WRC WSAI WTAT WTIC

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**C — Abe Lyman, See Tuesday**  
**B — Minneapolis Symphony Orchestra**  
KDKA KSO KWCR KWK KYW  
WBAL WBZ WBZA WGR WHAM  
WJR WJZ WMAL WREN WSYR



## CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Daylight Saving*

### CONCERTS

Howard Barlow, 3:15 p.m., Sun.; 10:45 p.m., Mon., Tues., Thurs., C.  
Gauchos, 8:00 p.m., Sunday, C.  
Gilbert and Sullivan Gems, 10 p.m., Saturday, B.  
Impressions of Italy, 5:00 p.m., Sunday, R.  
L'Heure Exquise, 6:00 p.m., Sunday, B.  
Walter Logan, 12:30 p.m., Sunday, R.  
Minneapolis Symphony, 11:30 p.m., Sunday, B.  
National Opera, 3:00 p.m., Sunday, B.  
Orchestral Gems, 11:30 p.m., Sunday, R.  
Radio City Symphony, 12:15 p.m., Sunday, B.  
Riesensfeld's Viennese, 8:00 p.m., Sunday, B.  
String Symphony, 7:30 p.m., Wednesday, B.  
Symphonette, 4:15 p.m., Sunday, B.  
Waldorf-Astoria, 6:00 p.m., daily, ex. Sunday, R.

### DANCE BANDS

Victor Arden, 2:30 p.m., Sunday, C.  
Albert Bartlett, 2:15 p.m., Sunday, C.  
Ben Bernie, 9:00 p.m. and 12:30 a.m., Tuesday, R.  
Don Bestor, 6:00 p.m., Saturday, B.  
Frank Black, 10:00 p.m., Friday, R.  
Art Coogan, 6:00 p.m., Wed.; 6:15 p.m., Sat., C.  
Clyde Doerr, 5:30 p.m., Sunday, R.  
Eddie Duchin, 11:00 p.m., Sun.; 12 mid., Wed., C.  
Vic Erwin, 9:15 p.m., Wednesday, R.  
Glen Gray, 12 mid., Tuesday; 7:30 p.m., Sat., C.  
Richard Humber, 6:30 p.m., Monday, R.  
Johnny Johnson, 12 mid., Saturday, R.  
Wayne King, 3:00 p.m., Sun.; 8:30 p.m., Tues., R.; 9:30 p.m., Thurs., B.  
Ted Lewis, 11:30 p.m., Mon. and Thurs., C.  
Guy Lombardo, 9:30 p.m., Wednesday, C.  
Vincent Lopez, 10:15 p.m., Sun.; 6:45 p.m., Sat., B.  
Bert Lown, 7:00 p.m., Saturday, R.  
Abe Lyman, 11:30 p.m., Sun., Tues., Fri.; 8:45 p.m., Tues., Wed., Thurs., C.  
Dolph Martin, 7:30 p.m., Monday, C.  
Freddie Martin, 11:30 p.m., Wed.; 11:00 p.m., Sat., C.  
Joe Moss, 7:30 p.m., Sunday, R.  
Ozzie Nelson, 6:15 p.m., Tuesday, C.  
George Olsen, 8:00 p.m., Wednesday, R.  
Ben Pollack, 12 mid., Sun.; 11:30 p.m., Sat., C.  
Willard Robison, 9:00 p.m., Tuesday, B.  
B. A. Rolfe, 10:00 p.m., Saturday, R.  
Harold Stern, 11:30 p.m., Saturday, R.  
Rudy Vallee, 8:00 p.m., Thursday, R.  
Fred Waring, 10:00 p.m., Wednesday, C.

### DIALOG

Amos 'n' Andy, 7 and 11 p.m., daily, ex. Sat. and Sun., B.  
Phil Baker, 9:30 p.m., Friday, B.  
Jack Benny, 10:00 p.m., Friday, R.  
Burns and Allen, 9:30 p.m., Wednesday, C.  
Ann Butler, 11:00 p.m., Monday, B.  
Phil Cook, 8:45 p.m., Mon., Wed., Fri., B.  
Cuekoo, 10:30 p.m., Saturday, B.  
Easy Aces, 9:00 p.m., Tues., Thurs., Sat., C.  
Lou Holtz, 10:00 p.m., Friday, C.  
Tom Howard, 9:00 p.m. and 11:30 p.m., Friday, R.  
Marx Bros., 7:30 p.m., Monday, B.  
Baron Munchausen, 10:00 p.m., Thursday, R.  
Jack Osterman, 2:30 p.m., Sunday, C.  
Reis and Dunn, 6:00 p.m., Mon. and Tues., C.  
Stoopnagle and Budd, 9:30 p.m., Thursday, C.

### DRAMA

Columbia Dramatic Guild, 9:00 p.m., Sunday, C.  
Dick Daring, 6:45 p.m., Sunday, B.  
Death Valley Days, 9:00 p.m., Thurs., B.  
Eno Crime Clues, 8:00 p.m., Tues. and Wed., B.  
First Nighter, 10:30 p.m., Friday, B.  
Folks from Dixie, 1:30 p.m., Sunday, R.  
Foreign Legion, 8:30 p.m., Friday, C.  
Goldbergs, 7:45 p.m., daily, ex. Sat. and Sun., R.  
John Henry, 10:00 p.m., Sun. and Thurs., C.  
Sherlock Holmes, 9:00 p.m. and 12:15 a.m., Wednesday, B.

K-7, 9:30 p.m., Saturday, R.  
Miss Lilla, 10:30 p.m., Tuesday, B.  
Lives at Stake, 10:00 p.m., Tuesday, R.  
Magic Voice, 8:15 p.m., Tuesday and Saturday, C.  
Neighbors, 10:30 p.m., Monday, R.  
Northwestern Chronicle, 2:30 p.m., Sunday, B.  
Pages of Romance, 5:30 p.m., Sunday, B.  
Rin Tin Tin, 8:30 p.m., Thursday, B.  
Buck Rogers, 7:15 p.m., daily, ex. Sat. and Sun., C.  
Roses and Drums, 6:30 p.m., Sunday, C.  
Soconyland Sketches, 8:00 p.m., Monday, R.

### PIANO AND ORGAN

Fray and Braggiotti, 7:30 p.m., Sun.; 9:15 p.m., Thurs., C.  
Archer Gibson, 9:00 p.m., Friday, B.  
Vee Lawnhurst, 4:15 p.m., Sunday, R.  
Mischa Lebitzki, 9:30 p.m., Wednesday, R.  
Ohman and Arden, 2:30 p.m., Sun., C.; 9:30 p.m., Sun., R.

### POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m., Monday, R.  
Album of Familiar Music, 9:30 p.m., Sunday, R.  
Armour Program, 9:30 p.m., Friday, B.  
Major Bowes' Family, 11:15 a.m., Sunday, R.  
California Melodies, 10:15 p.m., Thursday, C.  
Chase and Sanborn, 8:00 p.m., Sunday, R.  
Chesterfield, 10:00 p.m., Friday, R.  
Chevrolet Program, 10:00 p.m., Friday, R.  
Chicago Variety, 8:30 p.m., Sunday, C.  
Cities Service, 8:00 p.m., Friday, R.  
Clicquot Club, 8:00 p.m., Monday, B.  
Columbia Revue, 10:15 p.m., Sunday, C.  
Contented Program, 10:00 p.m., Monday, R.  
Corn Cob Pipe Club, 10:00 p.m., Wednesday, R.  
Evening in Paris, 9:30 p.m., Monday, C.  
Fiddlers Three, 4:00 p.m., Sunday, R.  
Five Star Theatre, 10:00 p.m., Tues., C.; 7:30 p.m., Mon. and Fri., B.  
Jack Frost's Melody, 9:30 p.m., Monday, B.  
Golden Country Club, 10:00 p.m., Monday, C.  
Happy Wonder Bakers, 6:30 p.m., Mon., Wed., Fri., C.  
Household Musical Memories, 10:00 p.m., Tuesday, B.  
Inside Story, 9:30 p.m., Friday, C.  
Lucky Strike, 10:00 p.m., Thursday, R.  
Manhattan Merry-Go-Round, 9:00 p.m., Sunday, R.  
Maxwell House, 9:00 p.m. and 1:00 a.m., Thursday, R.  
Borrah Minevitch, 7:00 p.m., Sun., B.; 7:00 p.m., Fri., R.  
Nestle's Program, 8:00 p.m., Friday, B.  
Old Gold, 10:00 p.m., Wednesday, C.  
Pond's Program, 9:30 p.m., Friday, R.  
Richfield Country Club, 10:30 p.m., Friday, R.  
Royal Vagabonds, 8:00 p.m., Wednesday, R.  
Saturday Frivolities, 9:45 p.m., Saturday, C.  
Sinclair Minstrels, 9:00 p.m., Monday, B.  
Wildroot Institute, 4:15 p.m., Sunday, R.  
Woodbury Program, 8:30 p.m., Wednesday, R.  
Ed Wynn, 9:30 p.m., Tuesday, R.

### RELIGIOUS

Cathedral Hour, 4:00 p.m., Sunday, C.  
Catholic Hour, 6:00 p.m., Sunday, R.  
Church of the Air, 1:00 p.m., Sunday, C.  
Mid-Week Hymn Sing, 6:30 p.m., Tuesday, R.  
Seth Parker's, 10:45 p.m., Sunday, R.  
Pilgrims, 2:00 p.m., Sunday, R.  
Salt Lake Choir, 11:30 a.m., Sunday, C.  
World of Religion, 5:00 p.m., Sunday, B.

### SINGERS

Countess Olga Albani, 6:45 p.m., Mon. and Thurs., R.  
Frances Alda, 6:00 p.m., Tuesday, R.  
Elvia Altman, 7:30 p.m., Mon., Wed. and Sat., R.  
Armida, 2:45 p.m., Sunday, C.  
Mildred Bailey, 7:00 p.m., Wed. and Fri., C.  
Betty Barthell, 10:30 p.m., Friday, R.  
Irene Bordini, 7:45 p.m., Tuesday and Saturday, B.  
Boswell Sisters, 8:15 p.m., Wed.; 9:15 p.m., Sat., C.  
Fanny Brice, 8:00 p.m., Wednesday, R.

Buccaneers, 11:00 p.m., Saturday, B.  
Charles Carlie, 7:00 p.m., Thursday, C.  
Phil Dewey, 10:00 p.m., Sunday, B.  
Do Re Mi, 9:00 p.m., Mon.; 8:00 p.m., Thurs.; 11:15 p.m., Fri., C.  
Jessica Dragonette, 8:00 p.m., Friday, R.  
Mary Eastman, 9:30 p.m., Sunday; 8:00 p.m., Tuesday, C.  
Eton Boys, 9:00 p.m., Monday, C.  
Evan Evans, 9:30 p.m., Sun.; 8:00 p.m., Thurs., C.  
Fields and McHugh, 11:15 p.m., Friday, B.  
Irene Franklin, 10:15 p.m., Wed. and Fri., B.  
Gypsy Nina, 7:15 p.m., Saturday, C.  
Don Hall Trio, 11:15 p.m., Sunday, R.  
Herman Hupfeld, 8:45 p.m., Tuesday, B.  
Theo Karle, 7:00 p.m., Monday, C.  
Irving Kaufman, 8:45 p.m., Tues., Wed., Thurs., C.  
Jeannie Lang, 9:30 p.m., Thurs., C.; 9:00 and 11:30 p.m., Friday, R.  
Lary Dan, 1:30 p.m., Sunday, C.  
Little Jack Little, 11:15 p.m., Wed.; 10:30 p.m., Fri., C.  
Everett Marshall, 7:15 and 11:15 p.m., Mon., Wed., Sat., B.  
Nino Martini, 9:30 p.m., Tues.; 8:00 p.m., Fri., C.  
Smiling Ed McConnell, 2:00 p.m., Sunday, C.  
Tommy McLaughlin, 9:15 p.m., Tuesday, C.  
James Melton, 7:00 p.m., Sun.; 6:45 p.m., Tues.; 11:00 p.m., Thurs., 10:00 p.m., Fri., R.  
Monarch Mystery Tenor, 2:00 p.m., Sunday, B.  
Frank Munn, 9:30 p.m., Sunday, R.  
Gertrude Nissen, 10:45 p.m., Saturday, C.  
Donald Novis, 8:30 p.m., Wednesday, R.  
William O'Neal, 11:15 p.m., Monday, C.  
Pickens Sisters, 9:45 p.m., Sunday, B.; 6:45 p.m., Sat., R.  
Mae Questel, 6:30 p.m., Friday, R.  
Carson Robison, 8:15 p.m., Monday, C.  
Lanny Ross, 9:00 p.m., Thursday, R.  
Sandserson-Crumit, 5:30 p.m., Sunday, C.; 8:00 p.m., Tues., R.  
Singin' Sam, 8:00 p.m., Monday, C.  
Sixteen Male Voices, 11:30 p.m., Wednesday, B.  
Sizzlers Trio, 8:30 p.m., Mon.; 11:00 p.m., Thurs., B.

Kate Smith, 8:30 p.m., Tues., Wed., Thurs., C.  
Southernaires Male Quartet, 7:00 p.m., Monday, R.  
Street Singer, 12:45 p.m., Sun.; 9:15 p.m., Mon., Wed., Fri., C.  
Tastycast Jesters, 6:30 p.m., Mon., Fri.; 8:30 p.m., Wed., B.  
Conrad Thibault, 9:30 p.m., Wednesday, B.  
Three Keys, 7:00 p.m., Tues.; 6:30 p.m., Thurs., R.  
Three X Sisters, 6:30 p.m., Tues. and Wed., B.  
Ortiz Tirado, 9:30 p.m., Mon.; 8:00 p.m., Sat., R.  
Ranny Weeks, 8:45 p.m., Mon.; 9:00 p.m., Wed. and Sat., R.  
Witching Hour, 11:30 p.m., Saturday, B.

### TALKS

America's Grub Street, 6:00 p.m., Saturday, C.  
American Taxpayers' League, 7:00 p.m., Saturday, B.  
Boake Carter, 7:45 p.m., daily, ex. Sat. and Sun., C.  
Century of Progress, 7:15 p.m., daily, ex. Sun., R.; 10:30 p.m., Wed., B.  
Irvin Cobb, 9:00 p.m., Wed. and Fri., C.  
Cook Travelogue, 1:15 p.m., Sunday, B.  
Jack Dempsey, 7:30 p.m., Tues., Wed., Thurs., C.  
William Hall, 6:30 p.m., Wednesday, R.  
Edwin C. Hill, 10:30 p.m., Mon., Tues., Wed.; 9:30 p.m., Fri., C.  
Horlick's Health, 8:30 p.m., Tues. and Fri., B.  
David Lawrence, 10:00 p.m., Sunday, R.  
Laws that Safeguard, 6:30 p.m., Saturday, B.  
Lawyer and Public, 6:00 p.m., Sunday, C.  
Alex Morrison on Golf, 10:00 p.m., Mon., C.; 10:30 p.m., Fri., R.  
Angelo Patri, 7:45 and 11:15 p.m., Sunday, C.  
Radio Pulpit, 3:30 p.m., Sunday, R.  
Will Rogers, 9:00 p.m., Sunday, B.  
Sigmund Spaeth, 9:30 p.m., Tuesday, B.  
Lowell Thomas, 6:45 p.m., daily, ex. Sat. and Sun., B.  
Merle Thorpe, 7:45 p.m., Thursday, B.  
Voice of Experience, 8:00 p.m., Wednesday, C.  
Carveth Wells, 10:30 p.m., Wednesday, R.  
Frederic William Wile, 7:00 p.m., Saturday, C.  
Walter Winchell, 9:30 and 11:15 p.m., Sunday, B.

## THE MONTH'S CHANGES

*(Continued from page 1)*

1100 CRCV Vancouver, B. C., from 1030  
1210 CFCC Chatham, Ont., from 1010  
1260 KUOA Fayetteville, Ark., from 1390  
1310 CHCK Charlottetown, P. E. I., from 960  
1310 CKCV Quebec, Que., from 880  
1340 KGNU Dodge City, Kans., from 1210  
1410 CKFC Vancouver, B. C., from 730  
1410 CKMO Vancouver, B. C., from 730  
1430 CFCT Victoria, B. C., from 630

### POWER

580 CKCL Toronto, Ont., 500 to 100  
580 CRCA Moncton, N. B., 700 to 500  
630 CMQ Havana, Cuba, 250 to 500  
680 KPO San Francisco, Calif., 5000 to 50000  
690 HJN Bogota, Colombia, 2000 to 1000  
880 CJRW Fleming, Sask., 1000 to 500  
940 WAAT Jersey City, N. J., 300 to 500  
1000 WHO Des Moines, Iowa, 5000 to 50000  
1000 WOC Davenport, Iowa, 5000 to 50000  
1010 CKOC Hamilton, Ont., 1000 to 100  
1030 CKNC Toronto, Ont., 500 to 100  
1120 CFCA Toronto, Ont., 500 to 100  
1210 CFCC Chatham, Ont., 250 to 100  
1310 WTRC Elkhart, Ind., 50 to 100  
1340 KGNU Dodge City, Kans., 100 to 250

### OWNERS

580 CRCA Moncton, N. B., to Canadian Radio Broadcasting Commission  
680 WPTF Raleigh, N. C., to WPTF Radio Co.  
880 CRCA Ottawa, Ont., to Canadian Radio Broadcasting Commission  
1100 CRCV Vancouver, B. C., to Canadian Radio Broadcasting Commission  
1290 KFUL Galveston, Texas, to Southwest Broadcasting Co.  
1310 WFDF Flint, Mich., to Flint Broadcasting Co.  
1390 KUOA Fayetteville, Ark., to KUOA, Inc.  
1440 WSN Allentown, Pa., to WSN, Inc.

### CALLS

540 CKLW Windsor, Ont., formerly CKOK  
580 CRCA Moncton, N. B., formerly CNRA  
880 CRCA Ottawa, Ont., formerly CNRO  
1100 CRCV Vancouver, B. C., formerly CNRV  
1400 WARD Brooklyn, N. Y., formerly WCGU

### DELETED

595 CJGC London, Ont.  
1200 KGEW Fort Morgan, Colo.  
1420 WERE Erie, Pa.



# INDEX BY FREQUENCIES AND DIAL NUMBERS

## 520 kcs. 576.6 m.

250	Freiburg, Germany
700	522 Hamar, Norway
7000	522 Ljubljana, Yugo.

## 530 kcs. 565.7 m.

LKH	700	536	Hamar, Norway
OFE	1000	536	Tampere, Finland
RW24	2000	531	Smolensk, USSR
	250	536	Augsburg, Germany
	2000		Grenoble, France
	250		Hanover, Germany
	1500	536	Kaiserslautern, Germany
	16000	533	Wilno, Poland

## 540 kcs. 555.2 m.

CKLW	5800		Windsor, Ont.
HAL-2	20000	545	Budapest, Hungary
	700		Tamnersfors, Finland
KEY	105	546	Merida, Yucatan

## 550 kcs. 545.1 m.

IPA	3000	558	Palermo, Italy
KFDY	1000		Brookings, S. Dak.
KFUO	1000		St. Louis, Mo.
KFYR	1000		Bismarck, N. Dak.
KOAC	1000		Corvallis, Ore.
KSD	500		St. Louis, Mo.
RW48	1200	554	Romsk, USSR
SBD	10000	554	Sundsvall, Sweden
WDEV	500		Waterbury, Vt.
WGR	1000		Buffalo, N. Y.
WKRC	1000		Cincinnati, Ohio

## 560 kcs. 535.4 m.

KFDM	500		Beaumont, Texas
KLZ	1000		Denver, Colo.
KTAB	1000		San Francisco, Calif.
RW41	1200	563	Sykytykar, USSR
WFI	500		Philadelphia, Pa.
WIBO	500		Chicago, Ill.
WLIT	500		Philadelphia, Pa.
WNOX	1000		Knoxville, Tenn.
WPCG	500		Chicago, Ill.
WQAM	1000		Miami, Fla.
XEAO	7.5		Mexicali, B. C.
2CO	7500		Corowa, Australia
	120000	563	Makhatch, USSR
	60000	563	Munich, Germany

## 570 kcs. 526.0 m.

FQN	250		St. Pierre, Miquelon
KGKO	250		Wichita Falls, Texas
KMPR	500		Hollywood, Calif.
KVI	500		Tacoma, Wash.
WEAO	1000		Columbus, Ohio
WKBN	500		Youngstown, Ohio
WMCA	500		New York, N. Y.
WNAX	1000		Yankton, S. Dak.
WPCH	500		New York, N. Y.
WSYR	250		Syracuse, N. Y.
WWNC	1000		Asheville, N. Car.
YLZ	15000	571	Riga, Latvia
	10000	571	Nagmitogorsk, USSR

## 580 kcs. 516.9 m.

CHMA	250		Edmonton, Alta.
CJOC	100		Lethbridge, Alta.
CKCL	100		Toronto, Ont.
CKUA	500		Edmonton, Alta.
CRCA	500		Moncton, N. B.
KMJ	500		Fresno, Calif.
KSAC	500		Manhattan, Kans.
ONARB	3600	589	Brussels, Belgium
RW35	10000	589	Astrakhan, USSR

RW38	1200		Alexandrovsk, USSR
WDBO	250		Orlando, Fla.
WIBW	1000		Topeka, Kans.
WOBW	250		Charleston, W. Va.
WTAG	250		Worcester, Mass.
XEPN	100000	585	Podras Negras, Coah.
ZTB	750	588	Bloemfontaine, S. Africa
	15000	581	Vienna, Austria
7ZL	3000		Hobart, Australia

## 590 kcs. 508.2 m.

IFI	20000	598	Firenze, Italy
JOAK-2	10000		Tokyo, Japan
KHQ	1000		Spokane, Wash.
LP6	1500		Buenos Aires, Argentina
RW42	10000	598	Gorki, USSR
WCAJ	500		Lincoln, Neb.
WEEI	1000		Boston, Mass.
WKZO	1000		Kalamazoo, Mich.
WOW	1000		Omaha, Neb.
No. 1	15000		Brussels, Belgium
	10000	598	Nijni-Novgorod, USSR

## 600 kcs. 499.7 m.

CFCF	500		Montreal, Que.
CMW	1400		Havana, Cuba
KFSD	1000		San Diego, Calif.
LKT	1200	608	Trondelag, Norway
TISO	50		San Jose, Costa Rica
WCAC	250		Storrs, Conn.
WCAO	250		Baltimore, Md.
WICC	250		Bridgeport, Conn.
WMT	500		Waterloo, Iowa
WREC	500		Memphis, Tenn.
2ZK	120		Wanganui, N. Z.
	1750		Colombo, Ceylon
	1200	605	Trondheim, Norway

## 610 kcs. 491.5 m.

JODEK-1	1000		Keijo, Korea
KFRC	1000		San Francisco, Calif.
KZRM	50000	618.5	Manila, P. I.
OKP	120000	614	Praha, Czech.
RW22	10000	617	Ufa, USSR
TIXA	7.5	614	San Jose, C. R.
WDAP	1000		Kansas City, Mo.
WIP	500		Philadelphia, Pa.
WJAY	500		Cleveland, Ohio
XETR	1000		Mexico City, D. F.
3AR	5000		Melbourne, Australia

## 620 kcs. 483.6 m.

CE62	1000	625	Santiago, Chile
JOTK	500	625	Matsuy, Japan
KGW	1000		Portland, Ore.
KTAR	500		Phoenix, Ariz.
LV3	350		Cordova, Arg.
NR	50000	625	Manchester, G. B.
OFD	500	622	Pori, Finland
RW31	10000	625	Ivanovo, USSR
RW40	1000	621	Gomel, USSR
WFLA	1000		Clearwater, Fla.
WLBZ	500		Bangor, Maine
WSUN	1000		St. Petersburg, Fla.
WTMJ	1000		Milwaukee, Wis.
XOTN	500	624	Tientsin, China

## 630 kcs. 475.9 m.

CFCY	500		Charlottetown, P. E. I.
CJGX	500		Yorkton, Sash.
CKTB	1000	635	St. Catharines, Ont.
CMCU	150		Havana, Cuba
CMQ	500		Havana, Cuba
HIX	1000		Santo Domingo, D. R.
JODG	500	635	Hamamatsu, Japan
KFRU	500		Columbia, Mo.
KGFX	200		Pierre, S. Dak.
LU3	4500		Buenos Aires, Arg.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

RW28	700	635	Vladivostok, USSR
RW52	4000		Simferopol, USSR
WGBF	500		Evansville, Ind.
WMAL	250		Washington, D. C.
WOS	500		Jefferson City, Mo.
XETF	500		Veracruz, Ver.
XFG	2000	638.3	Mexico City, D. F.
12H	45		Hamilton, N. Z.
5CK	7500	635	Crystal Brook, Australia
	60000	635	Langenberg, Germany

## 640 kcs. 468.5 m.

CHRC	100	645	Quebec, Que.
CKCI	100	645	Quebec, Que.
CKCR	100	645	Waterloo, Ont.
JOUK	300	645	Akita, Japan
JQAK	500	645	Dairen, Manchuria
KFI	50000		Los Angeles, Calif.
RW17	10000	644	Kazan, USSR
RW56	1200		Penza, USSR
WAIU	500		Columbus, Ohio
WOI	5000		Ames, Iowa
YN	3000	644	Lyons, France
	500	644	Tartu, Estonia

## 650 kcs. 461.3 m.

JOCC	300	655	Asahikawa, Japan
KPCB	100		Seattle, Wash.
RW33	1000		Krasnodar, USSR
RW46	10000	653	Karaganda, USSR
WSM	50000		Nashville, Tenn.
4YA	500		Dunedin, N. Z.
	60000	653	Beromunster, Switz.

## 660 kcs. 454.3 m.

EAJ8	600	662	San Sebastian, Spain
EAJ22	1000	662	Salamanca, Spain
LKD	500	662	Bodo, Norway
LKM	110	662	Tromsø, Norway
LKP	700	662	Porsgrund, Norway
RUS	500	664	San Salvador, Salvador
RW13	10000	662	Odessa, USSR
SCT	1000	662	Upsala, Sweden
TIGP	75	666	San Jose, C. R.
WAAW	500		Omaha, Neb.
WEAF	50000		New York, N. Y.
XEM	500000		Matamoros, Tams.
2FC	5000	665	Sydney, Australia
ZTJ	15000	667	Johannesburg, S. Africa
	500	662	Bjorneborg, Finland
	500	662	Bodo, Norway
	500	662	Danzig, Danzig
	500	662	Klagenfurt, Austria
	15000	667	Madonna, Latvia
	700	662	Porsgrund, Norway
	500	662	Radio-Agen, France
	100	662	Tromsø, Norway

## 670 kcs. 447.5 m.

FPTT	1000	671	Paris, France
JFAK	10000		Taihou, Formosa
LKA	350	671	Aalesund, Norway
LKN	50	671	Notodden, Norway
LKR	180	671	Rjukan, Norway
LP4	1000		Buenos Aires, Arg.
RW23	1200	678	Grosny, USSR
WMAQ	5000		Chicago, Ill.

## 680 kcs. 440.9 m.

CMAF	500		Havana, Cuba
CMB	1000	681	Canton, China
IIRO	50000		Rome, Italy
JOLK	500		Fukuoka, Japan
JOVK	500		Hakodate, Japan
KFEQ	2500		St. Joseph, Mo.
KFO	50000		San Francisco, Calif.
RW27	1200	689	Makhatch, USSR

RW46	1200	686	Karaganda, USSR
RW74	1200		Tchekboksary, USSR
SBA	75000	689	Stockholm, Sweden
SCN	250	689	Malmberget, Sweden
VAS	2000	685	Glace Bay, N. S.
WPTF	1000		Raleigh, N. Car.
XGOA	15000	681	Nanking, China

## 690 kcs. 434.5 m.

CFAC	500		Calgary, Alta.
CFRB	10000		Toronto, Ont.
CJGJ	500		Calgary, Alta.
HJN	1000		Bogota, Colombia
JODK	1000		Keijo, Korea
NAA	1000		Arlington, Va.
XET	500		Monterrey, N. L.
6WT	5000		Perth, Australia
	2800	697	Belgrade, Yugo.
	1500	696	Parade, Portugal

## 700 kcs. 428.3 m.

CE70	1000	705	Santiago, Chile
EAJ2	750	708	Madrid, Spain
EAJ7	2000	707	Madrid, Spain
JOKK	500		Okayama, Japan
PRAG	3000	706	Porto Alegre, Brazil
RW39	100000	707	Moskva-Stalina, USSR
WLW	50000		Cincinnati, Ohio

## 710 kcs. 422.3 m.

JOJK	3000		Kanazawa, Japan
KMPC	500		Beverly Hills, Calif.
LSI	5000		Buenos Aires, Arg.
TIFB	30	714	San Jose, C. R.
WOR	5000		Newark, N. J.
XEN	1000	711	Mexico City, D. F.
	1500	715	Berlin, Germany
	500		Cairo, Egypt

## 720 kcs. 416.4 m.

JFBK	1000		Tainan, Japan
JORK	500		Kochi, Japan
RW28	10000	725	Vladivostok, USSR
RW52	10000	725	Simferopol, USSR
WGN	25000		Chicago, Ill.
2RN	1500	725	Dublin, Ireland
2YA	5000		Wellington, N. Z.
	60000	725	Athlone, Ireland
	6000	721	Rabat, Morocco

## 730 kcs. 410.7 m.

CHLS	100		Vancouver, B. C.
CHYC	5000		Montreal, Que.
CJCA	500		Edmonton, Alta.
CKAC	5000		Montreal, Que.
CMK	3150		Havana, Cuba
CMX	1000		Montevideo, Uruguay
JOSK	1000	735	Kokura, Japan
LVI	1500		San Juan, Arg.
XEF	75000	735	Villa Acuna, Coah.
ZTD	1000	731	Durban, S. Africa
5CL	5000		Adelaide, Australia
	16000	734	Katowice, Poland
	2200	735	Tartu, Estonia

## 740 kcs. 405.2 m.

CE74	1000	745	Santiago, Chile
KMMJ	1000		Clay Center, Neb.
RW51	1200	748	Nalchik, USSR
SBF	600	747	Ostersund, Sweden
WHEB	250		Portsmouth, N. H.
WSB	5000		Atlanta, Ga.
	10000	743	Mourmansk, USSR.
	25000	743	Sottens, Switz.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

750 kcs. 399.8 m. [ ] [ ] [ ] 810 kcs. 370.2 m. [ ] [ ] [ ]

JOBK-1 10000 ..... Osaka, Japan.  
KGU 2500 ..... Honolulu, Hawaii  
LR7 1000 ..... Buenos Aires, Arg.  
MR 25000 752 Davenport, G. B.  
PRAA 2000 ..... Rio de Janeiro, Brazil.  
RW64 10000 752 Vladikavkaz, USSR.  
VQWR 500 ..... St. John's, Nfld.  
VQ7LO 1000 ..... Nairobi, Kenya.  
WJR 10000 ..... Detroit, Mich.  
XEAN 5000 ..... Juarez, Chih.  
..... 250 ..... Mont-de-Marsan, France.

760 kcs. 394.5 m. [ ] [ ] [ ]

JQAK 1000 ..... Dairen, Manchuria.  
KXA 250 ..... Seattle, Wash.  
LT4 170 ..... Mendoza, Arg.  
WBAL 10000 ..... Baltimore, Md.  
WEW 1000 ..... St. Louis, Mo.  
WJZ 50000 ..... New York, N. Y.  
4QG 5000 ..... Brisbane, Australia.  
..... 12000 761 Bucharest, Rumania.

770 kcs. 389.4 m. [ ] [ ] [ ]

CX12 500 ..... Montevideo, Uruguay.  
JOHK 10000 ..... Sendai, Japan.  
KFAB 5000 ..... Lincoln, Neb.  
RW26 10000 779 St. Louis, Mo.  
VUM 200 ..... Madras, India.  
WBBM 25000 ..... Chicago, Ill.  
..... 120000 ..... Leipzig, Germany.  
..... 500 ..... Rheims, France.  
..... 8000 779 Toulouse, France.

780 kcs. 384.4 m. [ ] [ ] [ ]

CE78 1000 785 Santiago, Chile.  
CHWK 100 ..... Chilliwack, B. C.  
CKPR 100 ..... Fort William, Ont.  
CMBS 150 ..... Havana, Cuba.  
CMCQ 1000 ..... Havana, Cuba.  
JOPK 500 ..... Shizuoka, Japan.  
KELW 500 ..... Burbank, Calif.  
KTM 500 ..... Los Angeles, Calif.  
LT1 4500 ..... Rosario, Arg.  
PRAJ 200 789 Juiz de Fora, Brazil.  
PRAN 8 789 Curitiba, Brazil.  
PRAY 50 789 Mogi das Cruzes, Brazil.  
WEAN 500 ..... Providence, R. I.  
WMC 500 ..... Memphis, Tenn.  
WPOR 500 ..... Portsmouth, Va.  
WTAR 500 ..... Norfolk, Va.  
XEP 1000 ..... Mexico City, D. F.  
..... 200 ..... Alexandria, Egypt.  
..... 300 ..... Cairo, Egypt.  
..... 16000 788 Lwow, Poland.  
..... 50 785 Valparaiso, Chile.  
..... ..... Vienna, Austria.

790 kcs. 379.5 m. [ ] [ ] [ ]

CMHC 250 ..... Tuinucu, Cuba.  
CMJK 300 ..... Camaguey, Cuba.  
JOGK 10000 ..... Kumasoto, Japan.  
KGO 7500 ..... San Francisco, Calif.  
LR1 500 ..... Buenos Aires, Arg.  
OAX 5000 ..... Lima, Peru.  
RW37 1000 792 Moskva, USSR.  
SR 50000 797 Falkirk, G. B.  
WGY 50000 ..... Schenectady, N. Y.

800 kcs. 374.8 m. [ ] [ ] [ ]

LU2 500 ..... Bahia Blanca, Arg.  
WBAP 50000 ..... Fort Worth, Texas.  
WFAA 50000 ..... Dallas, Texas.  
3LO 500 ..... Melbourne, Australia.  
..... 1500 806 Hamburg, Germany.

CNRH 500 815 Halifax, N. S.  
CX14 1000 ..... Montevideo, Uruguay.  
EAX5 1500 815 Seville, Spain.  
IBZ 1000 815 Bolzano, Italy.  
JOCK-1 10000 ..... Nagoya, Japan.  
LKF 700 815 Fredrikstad, Norway.  
LL 1200 ..... Paris, France.  
OFA 10000 815 Helsinki, Finland.  
RW20 10000 815 Kharkov, USSR.  
VOAS 75 ..... St. John's, Nfld.  
VUC 3000 ..... Calcutta, India.  
WCOO 50000 ..... Minneapolis, Minn.  
WNYC 500 ..... New York, N. Y.  
XFC 350 ..... Aguascalientes, Ags.  
XFI 1000 818 Mexico City, D. F.  
ZTC 1000 ..... Capetown, S. Africa.

820 kcs. 365.6 m. [ ] [ ] [ ]

CE82 1000 825 Santiago, Chile.  
CMGC 30 ..... Matanzas, Cuba.  
F8GC 1500 825 Paris, France.  
LKB 1000 824 Bergen, Norway.  
LV7 200 ..... Tucuman, Arg.  
RW68 1500 824 Tcheljabinsk, USSR.  
RW69 4000 825 Ijevsk, USSR.  
WHAS 25000 ..... Louisville, Ky.  
1YA 500 ..... Auckland, N. Z.  
..... 13000 824 Algiers, Algeria.  
..... 700 ..... Fredrikstad, Norway.

830 kcs. 361.2 m. [ ] [ ] [ ]

CMGA 100 834 Colon, Cuba.  
JOIK 10000 ..... Sapporo, Japan.  
KOA 12500 ..... Denver, Colo.  
LR5 1600 ..... Buenos Aires, Arg.  
RW57 4000 838 Tiraspol, USSR.  
TIEA 7.5 833 San Jose, C. R.  
WEEU 1000 ..... Reading, Pa.  
WHDH 1000 ..... Boston, Mass.  
WRUF 5000 ..... Gainesville, Fla.  
XETW 500 ..... Mexico City, D. F.  
..... 60000 832 Stuttgart, Germany.

840 kcs. 356.9 m. [ ] [ ] [ ]

CHNC 5000 ..... Toronto, Ont.  
CKGW 5000 ..... Toronto, Ont.  
CKLC 1000 ..... Red Deer, Alta.  
CMC 500 ..... Havana, Cuba.  
CFRY 5000 ..... Toronto, Ont.  
F3ICD 12000 ..... Saigon, Indo China.  
LR 50000 843 London, England.  
LT8 350 ..... Rosario, Arg.  
VUB 3000 ..... Bombay, India.  
XETH 100 ..... Puebla, Pue.  
XETM 150000 845 Matamoros, Tams.  
ZBW 12000 845 Hong Kong, China.

850 kcs. 352.7 m. [ ] [ ] [ ]

CX6 1000 ..... Montevideo, Uruguay.  
CX16 ..... Montevideo, Uruguay.  
HSP1 2500 857 Bangkok, Siam.  
JOFK 10000 ..... Hiroshima, Japan.  
KIEV 100 ..... Glendale, Calif.  
KWKH 10000 ..... Shreveport, La.  
PRAC 500 857 Rio de Janeiro, Brazil.  
PRAI 10 857 Ribeirao Preto, Brazil.  
WFL 10000 ..... New Orleans, La.  
XEFB 2500 855 Tijuana, B. C.  
2BL 5000 855 Sydney, Australia.  
2HZ 350 857 Rangoon, India.  
..... 7000 852 Graz, Austria.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

860 kcs. 348.6 m. [ ] [ ] [ ] 910 kcs. 329.6 m. [ ] [ ] [ ]

CE86 1000 865 Santiago, Chile.  
EAX1 8000 ..... Barcelona, Spain.  
LV10 350 ..... Lae Heras, Arg.  
RW30 3000 869 Dnepropetrovsk, USSR.  
RW70 10000 ..... Leningrad, USSR.  
SPTT 6000 867 Strasbourg, France.  
TIVL 30 ..... San Jose, C. R.  
WABC 50000 ..... New York, N. Y.  
WHB 500 ..... Kansas City, Mo.  
XFX 500 ..... Mexico City, D. F.

870 kcs. 344.6 m. [ ] [ ] [ ]

JOAK-1 10000 ..... Tokyo, Japan.  
LR6 2100 ..... Buenos Aires, Arg.  
OKB 36000 878 Brno, Czech.  
WENR 50000 ..... Chicago, Ill.  
WLS 50000 ..... Chicago, Ill.  
XEAD 250 875 Mexico City, D. F.

880 kcs. 340.7 m. [ ] [ ] [ ]

CE88 100 ..... Valparaiso, Chile.  
CJCB 100 ..... Sydney, N. S.  
CJRM 500 ..... Moose Jaw, Sask.  
CJRW 500 ..... Fleming, Sask.  
CRCO 500 ..... Ottawa, Ont.  
CT1GL 150 885 Lisbon, Portugal.  
HJ3ABD 20 881 Bogota, Colombia.  
KFKA 500 ..... Greeley, Colo.  
KLX 1000 ..... Oakland, Calif.  
KPOF 500 ..... Denver, Colo.  
TIC 15 882 San Jose, C. R.  
VUL 100 882 Lahore, India.  
WCOO 500 ..... Meridian, Miss.  
WGBI 250 ..... Scranton, Pa.  
WQAN 250 ..... Scranton, Pa.  
WSUI 500 ..... Iowa City, Iowa.  
YV2BC 100 882 Caracas, Venezuela.  
6PR 200 ..... Perth, Australia.  
No. 2 15000 887 Brussels, Belgium.

890 kcs. 336.9 m. [ ] [ ] [ ]

CFQC 500 ..... Saskatoon, Sask.  
CHML 50 ..... Hamilton, Ont.  
CMCF 250 ..... Havana, Cuba.  
CMX 750 ..... Havana, Cuba.  
CX18 250 ..... Montevideo, Uruguay.  
KARK 250 ..... Little Rock, Ark.  
KFNF 500 ..... Shenandoah, Iowa.  
KSEI 250 ..... Pocatello, Idaho.  
KUSD 500 ..... Vermilion, S. Dak.  
VOGY 100 ..... St. John's, Nfld.  
WGST 250 ..... Atlanta, Ga.  
WILL 250 ..... Urbana, Ill.  
WJAR 500 ..... Providence, R. I.  
WMMN 250 ..... Fairmont, W. Va.  
XETU 100 ..... Pachuca, Hdo.  
XHO 50 ..... Hobart, Australia.  
..... 5500 896 Cadix, Spain.  
..... 1900 896 Poznan, Poland.

900 kcs. 333.1 m. [ ] [ ] [ ]

CE90 1000 905 Santiago, Chile.  
IMI 50000 905 Milan, Italy.  
JOCK-2 10000 ..... Keijo, Korea.  
KGBU 500 ..... Ketchikan, Alaska.  
KHJ 1000 ..... Los Angeles, Calif.  
LV9 500 ..... Rosario, Arg.  
WBEN 1000 ..... Buffalo, N. Y.  
WJAX 1000 ..... Jacksonville, Fla.  
WKY 1000 ..... Oklahoma City, Okla.  
WLBL 2500 ..... Stevens Point, Wis.  
ZILY 1500 ..... Hosen, Manchuria  
ZIF 105 ..... Wairoa, N. Z.

CFRC 50 915 Kingston, Ont.  
CKY 5000 ..... Winnipeg, Man.  
LR2 5500 ..... Buenos Aires, Arg.  
PP 50000 914 Paris, France  
TICR 50 911 San Jose, C. R.  
XEW 5000 ..... Mexico City, D. F.  
XFF 500 915 Chihuahua, Chih.  
4RK 2000 ..... Rockhampton, Australia.

920 kcs. 325.9 m. [ ] [ ] [ ]

CMBW 150 925 Havana, Cuba.  
CMCN 250 925 Havana, Cuba.  
HHK 1000 ..... Port-au-Prince, Haiti.  
JOQK 500 ..... Niigata, Japan.  
KFEL 500 ..... Denver, Colo.  
KFXF 500 ..... Denver, Colo.  
KOMO 1000 ..... Seattle, Wash.  
KPRC 1000 ..... Houston, Texas.  
LV2 500 ..... Cordoba, Arg.  
PRAD 50 ..... Pelotas, Brazil.  
PRAE 1000 921 Sao Paula, Brazil.  
WAAF 500 ..... Chicago, Ill.  
WBSO 500 ..... Babson Park, Mass.  
WWJ 1000 ..... Detroit, Mich.  
..... 60000 923 Breslau, Germany.

930 kcs. 322.4 m. [ ] [ ] [ ]

CFCH 100 ..... North Bay, Ont.  
CFLC 100 ..... Prescott, Ont.  
CKPC 100 ..... Preston, Ont.  
CKX 500 ..... Brandon, Man.  
CMJF 200 ..... Camaguey, Cuba.  
CT1BO 150 936 Lisbon, Portugal.  
CX20 2000 ..... Montevideo, Uruguay.  
JOAG 500 ..... Nagasaki, Japan.  
KFWI 500 ..... San Francisco, Calif.  
KGBZ 500 ..... York, Neb.  
KMA 500 ..... Shenandoah, Iowa.  
KROW 500 ..... Oakland, Calif.  
PRAB 500 937 Rio de Janeiro, Brazil.  
SBB 10000 932 Goteborg, Sweden.  
WBRC 500 ..... Birmingham, Ala.  
WDBJ 250 ..... Roanoke, Va.  
WIBG 25 ..... Glenside, Pa.  
3UZ 500 ..... Melbourne, Australia.

940 kcs. 319.0 m. [ ] [ ] [ ]

CE94 1000 945 Santiago, Chile.  
INA 1500 941 Naples, Italy.  
JONK 500 ..... Nagano, Japan.  
KGIN 1000 ..... Portland, Ore.  
WAAT 500 ..... Jersey City, N. J.  
WCSH 100 ..... Portland, Maine.  
WDAY 1000 ..... Fargo, N. Dak.  
WFIW 1000 ..... Hopkinsville, Ky.  
WHA 1000 ..... Madison, Wis.  
XETO 5000 ..... Mexico City, D. F.  
..... 2500 941 Dresden, Germany.  
..... 1000 941 Sofia, Bulgaria.

950 kcs. 315.6 m. [ ] [ ] [ ]

CMHD 250 ..... Caibarien, Cuba.  
CT1DH 10 952 Lisbon, Portugal.  
IGE 10000 959 Genoa, Italy.  
KFWB 1000 ..... Los Angeles, Calif.  
KGHL 1000 ..... Billings, Mont.  
KMBC 1000 ..... Kansas City, Mo.  
LR3 7500 ..... Buenos Aires, Arg.  
RW55 1000 959 Engels, USSR.  
WRC 500 ..... Washington, D. C.  
XOPP 100 952 Paiping, China.  
2GB 3000 ..... Sydney, Australia.  
..... 250 ..... Bremen, Germany.  
..... 1500 959 Cracow, Poland.  
..... 2500 ..... Marseilles, France.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

## 960 kcs. 312.3 m.

CMBD	150	965	Havana, Cuba.
CMCW	150	965	Havana, Cuba.
CMJL	50	965	Camaguey, Cuba.
JOKK	300	965	Kyoto, Japan.
ORC	2500	965	Jacobstad, Finland.
PRAP	300	967	Pernambuco, Brazil.
RW75	10000	968	Vinnitsa, USSR.
XEAW	10000	965	Reynosa, Tams.
YV1BC	5000	965	Caracas, Venezuela.
SDN	1000	965	Adelaide, Australia.
.....	1000	968	Cardiff, G. B.

## 970 kcs. 309.1 m.

CX22	250	977	Montevideo, Uruguay.
JOGB	500	977	Machabshi, Japan.
KJR	5000	977	Seattle, Wash.
SCC	500	977	Falun, Sweden.
WCFL	1500	977	Chicago, Ill.
XGOD	1000	973	Hangehow, China.
3BO	200	977	Bendigo, Australia.
.....	750	977	Zagreb, Yugo.

## 980 kcs. 303.9 m.

CE98	1000	985	Santiago, Chile.
CMGF	100	987	Matanzas, Cuba.
CNO	25	983	Casablanca, Morocco.
JOXK	500	985	Tokushima, Japan.
KDKA	50000	985	Pittsburgh, Pa.
3YA	500	985	Christchurch, N. Z.
.....	13000	986	Bordeaux, France.
.....	250	985	Santiago, Chile.

## 990 kcs. 302.8 m.

JOFG	300	999	Fukui, Japan.
LR4	20000	995	Buenos Aires, Arg.
NN	50000	995	Manchester, England.
TITV	7.5	999	San Jose, C. R.
WBZ	25000	999	Boston, Mass.
WBZA	1000	999	Springfield, Mass.
XEK	100	999	Mexico City, D. F.

## 1000 kcs. 299.8 m.

KFVD	250	1006	Los Angeles, Calif.
PRAR	500	1006	Sao Paula, Brazil.
WHO	50000	1006	Des Moines, Iowa.
WOC	50000	1006	Davenport, Iowa.
WORK	1000	1006	York, Pa.
XEA	100	1006	Guadalajara, Jal.
XEC	50	1006	Toluca, D. F.
XEFE	100	1006	Nuevo Laredo, Tams.
XEFI	100	1006	Chihuahua, Chib.
XEFJ	100	1006	Monterrey, N. L.
XEPS	40	1006	Queretaro, Qro.
XEL	10	1006	Saltillo, Coah.
ZP3	300	1006	Asuncion, Paraguay.
ZTP	50	1006	Pretoria, S. Africa.
4GR	50	1006	Toowoomba, Australia.
.....	350	1006	Hague, Holland.
.....	11000	1004	Tallin, Estonia.

## 1010 kcs. 296.9 m.

CHWC	500	1004	Regina, Sask.
CKCD	100	1004	Vancouver, B. C.
CKCK	500	1004	Regina, Sask.
CKCO	100	1004	Ottawa, Ont.
CKIC	50	1004	Wolfville, N. S.
CKOC	100	1004	Hamilton, Ont.
CKWX	100	1004	Vancouver, B. C.
CMBZ	150	1004	Havana, Cuba.
CX24	1000	1004	Montevideo, Uruguay.
KGGF	500	1004	Coffeyville, Kans.
KQW	500	1004	San Jose, Calif.

PFBI	20000	1013	Hilversum, Holland.
PHG	6400	1013	Amsterdam, Holland.
TIGA	30	1014	Cartago, C. R.
WHN	250	1013	New York, N. Y.
WIS	500	1013	Columbia, S. Car.
WNAD	500	1013	Norman, Okla.
WPAP	250	1013	New York, N. Y.
WQAO	250	1013	New York, N. Y.
WRNY	250	1013	New York, N. Y.
XEJ	500	1015	Juarez, Chih.
XEU	100	1015	Veracruz, Ver.
3HA	200	1015	Hamilton, Australia.

## 1020 kcs. 293.9 m.

CE102	100	1025	Santiago, Chile.
KYW	10000	1025	Chicago, Ill.
OKK	2600	1022	Kosice, Czech.
WRAX	250	1022	Philadelphia, Pa.
XEFC	10	1022	Merida, Yuc.
2UE	1000	1025	Sydney, Australia.
.....	700	1022	Limoges, France

## 1030 kcs. 291.1 m.

CFBO	500	1034	St. John, N. B.
CFNC	10000	1034	Calgary, Alta.
CKNC	100	1034	Toronto, Ont.
CMHI	30	1034	Santa Clara, Cuba.
CMKC	500	1034	Santiago, Cuba.
LR9	5000	1034	Buenos Aires, Arg.
OFH	13200	1031	Viborg, Finland.
XEB	10000	1031	Mexico City, D. F.
YR	500	1031	Lyons, France.

## 1040 kcs. 288.3 m.

CMGH	15	1041	Matanzas, Cuba.
KRLD	10000	1041	Dallas, Texas.
KTHS	10000	1041	Hot Springs, Ark.
SN	50000	1041	Falkirk, G. B.
WESG	1000	1041	Elmira, N. Y.
WKAR	1000	1041	East Lansing, Mich.
5PI	50	1041	Port Pirie, Australia.
.....	1000	1041	Bournemouth, G. B.
.....	800	1049	Montpellier, France.
.....	20	1045	Valparaiso, Chile.

## 1050 kcs. 285.5 m.

CHNS	500	1055	Halifax, N. S.
CMJG	50	1055	Camaguey, Cuba.
CT1AA	2000	1056	Lisbon, Portugal.
CT1AN	10	1056	Lisbon, Portugal.
CT1BM	50	1056	Lisbon, Portugal.
CT1DS	10	1058	Lisbon, Portugal.
CT1EB	50	1056	Lisbon, Portugal.
CX26	2000	1055	Montevideo, Uruguay.
KFB1	5000	1055	Abilene, Kans.
KNX	25000	1055	Hollywood, Calif.
XES	250	1055	Tampico, Tams.
2CA	50	1055	Camberra, Australia.
2ZF	150	1055	Palmerston N., N. Z.
2ZO	200	1055	Palmerston N., N. Z.
.....	500	1058	Berlin, Germany.
.....	500	1058	Innsbruck, Austria.
.....	500	1058	Magdeburg, Germany.
.....	500	1058	Stettin, Germany.

## 1060 kcs. 282.8 m.

CT1GK	50	1062	Lisbon, Portugal.
KWJJ	500	1062	Portland, Ore.
LT9	100	1062	Rosario, Arg.
WBAL	10000	1062	Baltimore, Md.
WJAG	1000	1062	Norfolk, Neb.
WTIC	50000	1062	Hartford, Conn.
4MB	50	1067	Maryborough, Australia.
.....	750	1067	Copenhagen, Denmark.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

## 1070 kcs. 280.2 m.

CMBG	225	1075	Havana, Cuba.
CMCB	150	1075	Havana, Cuba.
KJBS	100	1075	San Francisco, Calif.
OKR	14000	1075	Bratislava, Czech.
WCAZ	50	1075	Carthage, Ill.
WDZ	100	1075	Tuscola, Ill.
WTAM	50000	1075	Cleveland, Ohio
XEG	500	1075	Mexico City, D. F.
2KY	1500	1075	Sydney, Australia.

## 1080 kcs. 277.6 m.

JOBK-2	10000	1085	Osaka, Japan.
LKO	60000	1083	Oslo, Norway.
LT3	250	1085	Rosario, Arg.
WBT	25000	1085	Charlotte, N. Car.
WCBD	5000	1085	Zion, Ill.
WMBI	5000	1085	Chicago, Ill.
3SH	50	1085	Swan Hill, Australia.
4ZB	20	1085	Dunedin, N. Z.
4ZF	10	1085	Dunedin, N. Z.
4ZM	45	1085	Dunedin, N. Z.
4ZO	40	1085	Dunedin, N. Z.
4ZW	50	1085	Dunedin, N. Z.
.....	500	1085	Alexandria, Egypt.
.....	200	1085	Caen, France.
.....	60000	1085	Heilsberg, Germany.
.....	500	1085	Konigsberg, Germany.
.....	500	1085	Port Said, Egypt.

## 1090 kcs. 275.1 m.

IITO	7000	1096	Turin, Italy.
KMOX	50000	1096	St. Louis, Mo.
XEAT	100	1096	Mexico City, D. F.
XGOB	250	1096	Loyang, China.
1ZR	80	1096	Auckland, N. Z.
.....	250	1091	Angers, France.
.....	1500	1098	Poznan, Poland.

## 1100 kcs. 272.6 m.

CRCV	500	1103	Vancouver, B. C.
KGDM	250	1103	Stockton, Calif.
WLWL	5000	1103	New York, N. Y.
WPG	5000	1103	Atlantic City, N. J.
7LA	300	1103	Launceston, Australia.
.....	1300	1103	Rennes, France.
.....	1105	1105	Santiago, Chile.

## 1110 kcs. 270.1 m.

CMJO	50	1112	Ciego de Avila, Cuba.
11BA	20000	1112	Bari, Italy.
KSOU	1000	1112	Sioux Falls, S. Dak.
LS 5	5000	1112	Buenos Aires, Arg.
PAZ	50	1112	Brasilia, Brazil.
WRVA	5000	1112	Richmond, Va.
XENT	150000	1115	Nuevo Laredo, Tams.
2HD	200	1112	Newcastle, Australia.
.....	250	1112	Bremen, Germany.
.....	1500	1112	Kaiserslautern, Germany.
.....	.....	1112	Thessalonik, Greece.

## 1120 kcs. 267.7 m.

CFCA	100	1125	Toronto, Ont.
CFJC	100	1125	Kamloops, B. C.
CHGS	100	1125	Summerside, P. E. I.
CHLP	100	1125	Montreal, Que.
CMHJ	40	1125	Cienfuegos, Cuba.
EAJ3	1500	1121	Valencia, Spain.
EAJ19	700	1121	Oviedo, Spain.
KFO	100	1125	Spokane, Wash.
KFSG	500	1125	Los Angeles, Calif.
KRKC	500	1125	Los Angeles, Calif.
KRSC	100	1125	Seattle, Wash.
KTRH	500	1125	Houston, Texas.
LV5	500	1125	San Juan, Arg.

WDEL	250	1125	Wilmington, Del.
WHAD	250	1125	Milwaukee, Wis.
WISN	250	1125	Milwaukee, Wis.
WTAW	500	1125	College Station, Texas.
2UW	1500	1125	Sydney, Australia.
2ZW	400	1125	Wellington, N. Z.

## 1130 kcs. 265.3 m.

CX30	250	1132	Montevideo, Uruguay.
KSL	50000	1132	Salt Lake City, Utah.
WJJD	20000	1132	Chicago, Ill.
WOV	1000	1132	New York, N. Y.
XEH	250	1132	Monterrey, N. L.
ZP1	1000	1135	Asuncion, Paraguay.
6ML	300	1135	Perth, Australia.
.....	1300	1137	Lille, France.
.....	11000	1137	Moravska, Czech.

## 1140 kcs. 263.0 m.

CMBJ	150	1147	Havana, Cuba.
CMCD	250	1147	Havana, Cuba.
CW30	.....	1147	Tucumano, Uruguay.
KVOO	5000	1147	Tulsa, Okla.
LN	50000	1147	London, G. B.
WAPI	5000	1147	Birmingham, Ala.
XETA	250	1147	Mexico City, D. F.
3YB	25	1147	Melbourne, Australia.
4BC	600	1145	Brisbane, Australia.
.....	100	1145	Santiago, Chile.

## 1150 kcs. 260.7 m.

CMJH	30	1153	Ciego de Avila, Cuba.
LR8	3000	1153	Buenos Aires, Arg.
PRAK	500	1153	Rio de Janeiro, Brazil.
WHAM	25000	1153	Rochester, N. Y.
XED	500	1155	Guadalajara, Jal.
2WG	50	1155	Wagga, Australia.
2ZJ	75	1155	Gisborne, N. Z.
2ZM	110	1155	Gisborne, N. Z.
10-AT	25	1155	Trail, B. C.
.....	17000	1157	Frankfurt-am-Main, Germany.
.....	7500	1153	Kalundborg, Denmark.
.....	2000	1157	Trier, Germany.
.....	20	1153	Valparaiso, Chile.

## 1160 kcs. 258.5 m.

SBH	10000	1166	Horby, Sweden.
WOWO	10000	1166	Fort Wayne, Ind.
WVVA	5000	1166	Wheeling, W. Va.
4ZI	8	1166	Invercargill, N. Z.
4ZP	125	1166	Invercargill, N. Z.

## 1170 kcs. 256.3 m.

CMJE	50	1175	Camaguey, Cuba.
CX32	200	1175	Montevideo, Uruguay.
JOCK-2	10000	1175	Nagoya, Japan.
MRD	1500	1175	Toulouse, France.
WCAU	50000	1175	Philadelphia, Pa.
4TO	100	1175	Townsville, Australia.

## 1180 kcs. 254.1 m.

CMBN	150	1185	Havana, Cuba.
CMCJ	250	1185	Havana, Cuba.
CE32	30	1185	Salto, Uruguay.
HIJK	15000	1185	Santo Domingo, D. R.
KEX	5000	1185	Portland, Ore.
KOB	20000	1185	Albuquerque, N. Mex.
TICR	30	1185	San Jose, C. R.
WDGY	1000	1185	Minneapolis, Minn.
WINS	500	1185	New York, N. Y.
WMAZ	500	1185	Macon, Ga.
3DB	500	1185	Melbourne, Australia.
.....	14000	1184	Gleiwitz, Germany.
.....	100	1185	Santiago, Chile.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

## 1190 kcs. 252.0 m.

EAJ15	1000	1193	Barcelona, Spain.
EAJ18	1000	1193	Almeria, Spain.
LS2	5500		Buenos Aires, Arg.
VONF	100	1195	St. John's, Nfld.
WOAI	50000		San Antonio, Texas.
WSAZ	500		Huntington, W. Va.
12Q	25		Auckland, N. Z.
4MK	100		MacKay, Australia.
.....	250	1193	Trollhattan, Sweden.

## 1200 kcs. 249.9 m.

CHCH	100		Montreal, Que.
CKOV	100		Kelowna, B. C.
CMGB	30	1205	Matanzas, Cuba.
KBTM	100		Paragould, Ark.
KERN	100		Bakersfield, Calif.
KFJB	100		Marshalltown, Iowa.
KFWF	100		St. Louis, Mo.
KFXD	100		Nampa, Idaho.
KFXJ	100		Grand Junction, Colo.
KGDE	100		Fergus Falls, Minn.
KGGE	100		Yuma, Colo.
KGJF	100		Los Angeles, Calif.
KGHI	100		Little Rock, Ark.
KGVO	100		Missoula, Mont.
KMLB	100		Monroe, La.
KVOS	100		Bellingham, Wash.
KWG	100		Stockton, Calif.
SCI	200	1202	Kalmar, Sweden.
TFA	1200		Reykjavik, Iceland.
WABI	100		Bangor, Maine.
WBBX	100		New Orleans, La.
WBBZ	100		Ponca City, Okla.
WBHS	100		Huntsville, Ala.
WCAT	100		Rapid City, S. Dak.
WCAX	100		Burlington, Vt.
WCLO	100		Janesville, Wis.
WCOD	100		Harrisburg, Pa.
WFAM	100		South Bend, Ind.
WFBC	100		Greenville, S. Car.
WFBE	100		Cincinnati, Ohio.
WHBC	100		Canton, Ohio.
WHBY	100		Green Bay, Wis.
WIBX	100		Utica, N. Y.
WIL	100		St. Louis, Mo.
WJBC	100		LaSalle, Ill.
WJBL	100		Decatur, Ill.
WJBW	100		New Orleans, La.
WKUC	100		Lancaster, Pa.
WLAP	100		Louisville, Ky.
WNBO	100		Washington, Pa.
WNBW	100		Carbondale, Pa.
WORC	100		Worcester, Mass.
WPHR	100		Petersburg, Va.
WRBL	100		Columbus, Ga.
WWAE	100		Hammond, Ind.
YV3BC	50		Caracas, Venezuela.
3ZC	250		Christchurch, N. Z.
5KA	300		Adelaide, Australia.
10-AB	25		Moose Jaw, Sask.
10-AK	15		Stratford, Ont.
10-BI	25		Prince Albert, Sask.
10-BP	25	1199	Wingham, Ont.
10-BQ	15		Brantford, Ont.
10-BU	15		Canora, Sask.
.....	800	1205	Nice, France.
.....	500		Toulon, France.

## 1210 kcs. 247.8 m.

CFGO	100		Chatham, Ont.
CFNB	100		Fredericton, N. B.
CJOR	500		Vancouver, B. C.
CKMC	100		Cobalt, Ont.
CK34	500		Montevideo, Uruguay.
HTR	1000	111	Trieste, Italy.
KASA	100		Elk City, Okla.
KDLR	100		Devils Lake, N. D.
KFTI	100		Klamath Falls, Ore.

KFOR	100		Lincoln, Neb.
KFPW	100		Fort Smith, Ark.
KFVS	100		Cape Girardeau, Mo.
KFXM	100		San Bernardino, Calif.
KGCR	100		Watertown, S. Dak.
KGY	100		Olympia, Wash.
KIEM	100		Eureka, Calif.
KPPC	50		Pasadena, Calif.
KWEA	100		Shreveport, La.
ON4FO	100	1219	Brussels, Belgium
ON4RG	400	1219	Ghent, Belgium.
ON4RW	200	1219	Liege, Belgium.
WALR	100		Zanesville, Ohio.
WBAX	100		Wilkes-Barre, Pa.
WBBL	100		Richmond, Va.
WCBW	100		Springfield, Ill.
WCRW	100		Chicago, Ill.
WEBQ	100		Harrisburg, Ill.
WEBC	100		Chicago, Ill.
WFAS	100		White Plains, N. Y.
WGBB	100		Freeport, N. Y.
WGCM	100		Gulfport, Miss.
WGNV	50		Chester, N. Y.
WHBF	100		Rock Island, Ill.
WHBU	100		Anderson, Ind.
WHET	100		Troy, Ala.
WHBU	100		Poynette, Wis.
WJBI	100		Red Bank, N. J.
WJBU	100		Lewisburg, Pa.
WJBY	100		Gadsden, Ala.
WJEF	100		Hagerstown, Md.
WJW	100		Akron, Ohio.
WKFI	100		Greenville, Miss.
WMBG	100		Richmond, Va.
WOCL	50		Jamestown, N. Y.
WOMT	100		Manitowoc, Wis.
WPAW	100		Providence, R. I.
WQDX	100		Thomasville, Ga.
WWSB	100		Chicago, Ill.
WSEN	100		Columbus, Ohio.
WSIX	100		Springfield, Tenn.
WSOC	100		Gastonia, N. C.
WTAX	100		Springfield, Ill.
XEX	500		Mexico City, D. F.
2CH	1000		Sydney, Australia.
2ZE	10		Eketabuna, N. Z.
.....	100		Hull, Que.

## 1220 kcs. 245.8 m.

CMHK	15	1225	Cruces, Cuba.
CW34	50		Salto, Uruguay.
KFKU	500		Lawrence, Kans.
KTW	1000		Seattle, Wash.
KWSC	1000		Pullman, Wash.
OFG	600		Abo, Finland.
SCB	200		Eskilstuna, Sweden.
SCL	200		Kiruna, Sweden.
SCP	400		Saffle, Sweden.
SCU	300		Varberg, Sweden.
WACD	500		Canton, N. Y.
WCAE	1000		Pittsburgh, Pa.
WDAA	1000		Tampa, Fla.
WREN	1000		Lawrence, Kans.
4ZL	100		Dunedin, N. Z.
4KG	100		Kalgoorlie, Australia.
.....	500	1229	Basle, Switz.
.....	500		Berne, Switz.
.....	400		Bloemendaal, Holland.
.....	250		Cartagena, Spain.
.....	500		Cassel, Germany.
.....	100	1225	Linz, Austria.
.....	120		Santiago, Chile.
.....			Swansea, G. B.

## 1230 kcs. 243.8 m.

CMBY	250		Havana, Cuba.
CMCA	150		Havana, Cuba.
KFQD	250		Anchorage, Alaska.
KGGM	250		Albuquerque, N. Mex.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

KYA	1000		San Francisco, Calif.
LS8	2000		Buenos Aires, Arg.
WFBM	1000		Indianapolis, Ind.
WNAC	1000		Boston, Mass.
WSBT	500		South Bend, Ind.
2YB	100		New Plymouth, N. Z.
.....	1000	1238	Belfast, Ireland.
.....	1236		Liege, Belgium.
.....	10	1239	Rancagua, Chile.

## 1240 kcs. 241.8 m.

CMAB	20	1249	Pinar del Rio, Cuba.
CMJN	50		Camaguey, Cuba.
KGCU	250		Mandan, N. Dak.
KLPM	250		Minot, N. Dak.
KTAT	1000		Fort Worth, Texas.
KTFI	500		Twin Falls, Idaho.
LKS	500	1247	Stavanger, Norway.
PRP1	1500	1249	Oporto, Portugal.
SBE	600	1245	Boden, Sweden.
WACO	1000		Waco, Texas.
WKAQ	1000		San Juan, P. R.
WXYZ	1000		Detroit, Mich.
XEFW	70		Tampico, Tams.
2NC	2000	1245	Newcastle, Australia.
.....	50	1249	Valparaiso, Chile.

## 1250 kcs. 239.9 m.

CK36	250		Montevideo, Uruguay.
KFMX	1000		Northfield, Minn.
KFOX	1000		Long Beach, Calif.
WAAM	1000		Newark, N. J.
WCAL	1000		Northfield, Minn.
WDSU	1000		New Orleans, La.
WGCP	250		Newark, N. J.
WLB	1000		St. Paul, Minn.
WODA	1000		Paterson, N. J.
WRHM	1000		Minneapolis, Minn.
XEFA	500		Mexico City, D. F.
.....	1500		Beziers, France.
.....	500		Nimes, France.
.....	2000	1256	Nurnberg, Germany.

## 1260 kcs. 238.0 m.

CW36	30		Salto, Uruguay.
KOIL	1000		Council Bluffs, Iowa.
KRGV	500		Harlingen, Texas.
KUOA	1000		Fort Smith, Ark.
KVOA	500		Tucson, Ariz.
KWWG	500		Brownsville, Texas.
SCV	200	1265	Orebro, Sweden.
WLBW	500		Eric, Pa.
WNBX	250		Springfield, Vt.
WTOC	500		Savannah, Ga.
12M	10		Auckland, N. Z.
3WR	50		Wangaratta, Australia.
.....	3000	1265	Bordeaux, France.
.....	1000	1265	Nimes, France.
.....	20	1265	Santiago, Chile.

## 1270 kcs. 236.1 m.

CMBC	150		Havana, Cuba.
CT1BP	50	1275	Lisbon, Portugal.
KGCA	100		Decorah, Iowa.
KOL	1000		Seattle, Wash.
KVOR	1000		Colorado Springs, Colo.
KWLC	100		Decorah, Iowa.
LKK	500	1274	Kristiansand, Norway.
LS9	3500		Buenos Aires, Arg.
TUA	500	1275	Tunis, Tunisia.
WASH	500		Grand Rapids, Mich.
WFRB	500		Baltimore, Md.
WJDX	1000		Jackson, Miss.
WOOD	500		Grand Rapids, Mich.
ZP4	150	1275	Asuncion, Paraguay.
2SM	1000		Sydney, Australia.

## 1280 kcs. 234.2 m.

KFBF	1000		Great Falls, Mont.
LU7	200		Putna Alta, Arg.
WCAM	500		Camden, N. J.
WACP	500		Asbury Park, N. J.
WDOD	1000		Chattanooga, Tenn.
WIBA	500		Madison, Wis.
WRR	500		Dallas, Texas.
WTNJ	500		Trenton, N. J.
3TR	50		Sale, Australia.
4GC	20		Otago, N. Z.
.....	2000	1283	Lodz, Poland.
.....	1000	1284	Sao Paula, Brazil.

## 1290 kcs. 232.4 m.

CMHL	20		Cienfuegos, Cuba.
CK38	100		Montevideo, Uruguay.
KDYI	1000		Salt Lake City, Utah.
KFUL	500		Blytheville, Ark.
KLCN	100		San Antonio, Texas.
KTSA	1000		Superior, Wis.
WEBC	1000		Pittsburgh, Pa.
WJAS	1000		Saranac Lake, N. Y.
WNBZ	50		San Luis Potosi, S. L. P.
XEAC	100	1295	Jalapa, Ver.
XFB	500		Napier, N. Z.
2ZB	7.5		Napier, N. Z.
2ZH	65		Brisbane, Australia.
4BK	200		Kiel, Germany.
.....	250	1292	Noorkoping, Sweden.
.....	250	1292	Noorkoping, Sweden.

## 1300 kcs. 230.6 m.

CMKJ	20		Guantanamo, Cuba.
CE38	30		Salto, Uruguay.
KALE	500		Portland, Ore.
KFAC	1000		Los Angeles, Calif.
KFH	1000		Wichita, Kans.
KFJR	500		Portland, Ore.
SCB	1250	1301	Malamo, Sweden.
SCO	250	1301	Noorkoping, Sweden.
SCQ	250	1301	Trollhattan, Sweden.
SCR	50	1301	Uddevalla, Sweden.
VOKW	30		St. John's, Nfld.
WBWR	1000		Brooklyn, N. Y.
WEVD	500		New York, N. Y.
WFAB	1000		New York, N. Y.
WHAZ	500		Troy, N. Y.
WIOD	1000		Miami, Fla.
WOQ	1000		Kansas City, Mo.
3BA	50		Ballarat, Australia.
3ZE	45		Greymouth, N. Z.
3ZR	80		Greymouth, N. Z.
.....	200	1301	Halsingborg, Sweden.
.....	250	1304	Oliveira, Portugal.
.....	20	1305	Santiago, Chile.

## 1310 kcs. 228.9 m.

CHCK	100		Charlottetown, P. E. I.
CKCV	100		Quebec, Que.
KORJ	100		Jerome, Ariz.
KFBK	100		Sacramento, Calif.
KFGQ	100		Boone, Iowa.
KFPL	100		Dublin, Texas.
KPPM	15		Greenville, Texas.
KFXR	100		Oklahoma City, Okla.
KFYO	100		Lubbock, Texas.
KGBX	100		Springfield, Mo.
KGCX	100		Wolf Point, Mont.
KGEZ	100		Kalispell, Mont.
KGFV	100		Kearney, Neb.
KIFH	100		Juneau, Alaska.
KIT	100		Yakima, Wash.
KMED	100		Medford, Ore.
KRMD	100		Shreveport, La.
KTSM	100		El Paso, Texas.



# INDEX BY FREQUENCIES AND DIAL NUMBERS

KXRO	100	.....	Aberdeen, Wash.
SCS	200	.....	Umea, Sweden.
WMAL	100	.....	Laurel, Miss.
WBEO	100	.....	Marquette, Mich.
WBOW	100	.....	Terre Haute, Ind.
WBRE	100	.....	Wilkes-Barre, Pa.
WCLS	100	.....	Joliet, Ill.
WDAH	100	.....	El Paso, Texas.
WEHR	100	.....	Buffalo, N. Y.
WXL	50	.....	Royal Oak, Mich.
WFBG	100	.....	Altoona, Pa.
WFDL	100	.....	Flint, Mich.
WGAL	100	.....	Lancaster, Pa.
WGH	100	.....	Newport News, Va.
WHAT	100	.....	Philadelphia, Pa.
WTAS	100	.....	Ottumwa, Iowa.
WTAC	100	.....	Johnstown, Pa.
WKAU	100	.....	Laconia, N. H.
WKBB	100	.....	Joliet, Ill.
WKBC	100	.....	Birmingham, Ala.
WLBC	50	.....	Muncie, Ind.
WMBO	100	.....	Auburn, N. Y.
WNBH	100	.....	New Bedford, Mass.
WOL	100	.....	Washington, D. C.
WRAW	100	.....	Reading, Pa.
WROL	100	.....	Knoxville, Tenn.
WSAJ	100	.....	Grove City, Pa.
WSJS	100	.....	Winston-Salem, N. Car.
WTFL	100	.....	Philadelphia, Pa.
WTJS	100	.....	Jackson, Tenn.
WTRC	100	.....	Elkhart, Ind.
XEFB	100	1315	Monterrey, N. L.
XEI	150	.....	Morelia, Mich.
5AD	300	.....	Adelaide, Australia.
.....	500	1319	Flensburg, Germany.

## 1320 kcs. 227.1 m.

CMCY	1000	1325	Havana, Cuba.
KGHF	250	.....	Pueblo, Colo.
KGMB	250	.....	Honolulu, Hawaii.
KID	250	.....	Idaho Falls, Idaho.
TGW	250	.....	Guatemala City, Gua.
WADC	1000	.....	Akron, Ohio.
WSMB	500	.....	New Orleans, La.
1ZJ	26	.....	Auckland, N. Z.
2MO	50	.....	Gunnedah, Australia.
.....	10000	1328	Fecamp, France.

## 1330 kcs. 225.4 m.

CMJI	45	1335	Ciego de Avila, Cuba.
CX40	100	.....	Montevideo, Uruguay.
KGB	1000	.....	San Diego, Calif.
KMO	250	.....	Tacoma, Wash.
KSCJ	1000	.....	Sioux City, Iowa.
TITR	75	1333	San Jose, C. R.
WDRG	500	.....	Hartford, Conn.
WSAI	500	.....	Cincinnati, Ohio.
WTAQ	1000	.....	Eau Claire, Wis.
2ZU	15	.....	Hastings, N. Z.
4RO	250	.....	Rockhampton, Australia.
6CK	1500	1337	Cork, Ireland.

## 1340 kcs. 223.7 m.

CW40	30	.....	Paysandu, Uruguay.
KFPY	1000	.....	Spokane, Wash.
KGDY	250	.....	Huron, S. Dak.
KGNO	250	.....	Dodge City, Kans.
LOAA	10000	1344	Luxemburg, Lux.
SCG	200	1346	Helsingborg, Sweden.
WCOA	500	.....	Pensacola, Fla.
WLEC	250	.....	Portland, Maine.
WSPD	1000	.....	Toledo, Ohio.
2XN	50	.....	Lismore, Australia.
4ZR	5	.....	Otago, N. Z.
.....	100	1345	Santiago, Chile.

## 1350 kcs. 222.1 m.

CPX	1000	.....	LaPaz, Bolivia.
JRL	7.5	.....	San Pedro Sula, Hond.
KIDO	1000	.....	Boise, Idaho.
KWK	1000	.....	St. Louis, Mo.
LS6	1500	.....	Buenos Aires, Arg.
SCF	150	1355	Hudeiksvall, Sweden.
WAWZ	250	.....	Zarephath, N. J.
WBNX	250	.....	New York, N. Y.
WCDA	250	.....	New York, N. Y.
WEHC	500	.....	Emory, Va.
WMSG	250	.....	New York, N. Y.
3KZ	200	.....	Melbourne, Australia.

## 1360 kcs. 220.4 m.

CMCR	150	1365	Havana, Cuba.
CMJP	7.5	.....	Moron, Cuba.
KGFR	1000	.....	Long Beach, Calif.
KGIR	500	.....	Butte, Mont.
PRAX	2000	1364	Rio de Janeiro, Brazil.
WCSC	500	.....	Charleston, S. Car.
WFBL	500	.....	Syracuse, N. Y.
WGES	500	.....	Chicago, Ill.
WJKS	1000	.....	Gary, Ind.
WQBC	500	.....	Vicksburg, Miss.
2ZR	50	.....	Nelson, N. Z.
.....	1500	1364	Beziers, France.
.....	250	1364	St. Etienne, France.

## 1370 kcs. 218.8 m.

CMGE	30	1375	Cardenas, Cuba.
CX42	500	.....	Montevideo, Uruguay.
HRB	2300	.....	Tegucigalpa, Hond.
KCRC	500	.....	Enid, Okla.
KFBL	50	.....	Everett, Wash.
KFJM	100	.....	Grand Forks, N. Dak.
KFJZ	100	.....	Fort Worth, Texas.
KFLX	100	.....	Galveston, Texas.
KGAR	100	.....	Tucson, Ariz.
KGDA	100	.....	Mitchell, S. Dak.
KGFG	100	.....	Oklahoma City, Okla.
KGFL	100	.....	Roswell, N. Mex.
KGKL	100	.....	San Angelo, Texas.
KICA	100	.....	Clovis, N. Mex.
KMAC	100	.....	San Antonio, Texas.
KONO	100	.....	San Antonio, Texas.
KOOS	100	.....	Marshfield, Ore.
KRE	100	.....	Berkeley, Calif.
KSO	100	.....	Des Moines, Iowa.
KUJ	100	.....	Walla Walla, Wash.
KVL	100	.....	Seattle, Wash.
KWKC	100	.....	Kansas City, Mo.
ON4GT	100	.....	Brussels, Belgium.
WBTM	100	1375	Danville, Va.
WCBM	100	.....	Baltimore, Md.
WDAS	100	.....	Philadelphia, Pa.
WGL	100	.....	Fort Wayne, Ind.
WGLC	50	.....	Hudson Falls, N. Y.
WHBD	100	.....	Mount Oreb, Ohio.
WHBG	100	.....	Memphis, Tenn.
WHDF	100	.....	Calumet, Mich.
WIBM	100	.....	Jackson, Mich.
WJBK	100	.....	Detroit, Mich.
WJEQ	100	.....	Williamsport, Pa.
WJTL	100	.....	Atlanta, Ga.
WLEY	100	.....	Lexington, Mass.
WLVA	100	.....	Lynchburg, Va.
WMBR	100	.....	Tampa, Fla.
WPBP	100	.....	Hattiesburg, Miss.
WQDM	100	.....	St. Albans, Vt.
WRAK	100	.....	Williamsport, Pa.
WRAM	100	.....	Wilmington, N. Car.
WRDO	100	.....	Augusta, Maine.
WRJN	100	.....	Racine, Wis.
WRSV	50	.....	Buffalo, N. Y.
XEFV	100	.....	Juarez, Chih.
.....	200	1373	Plymouth, G. B.
.....	500	1373	Salzburg, Austria.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

## 1380 kcs. 217.3 m.

CMJC	150	1382	Camaguey, Cuba.
KOH	500	.....	Reno, Nev.
KQV	500	.....	Pittsburgh, Pa.
LU6	50	.....	Mar del Plata, Arg.
ONACE	200	1388	Chatelineau, Belgium.
ON4EX	100	1388	Ottomont, Belgium.
SCK	250	1382	Karlstad, Sweden.
WKBH	1000	.....	LaCrosse, Wis.
WSMK	200	.....	Dayton, Ohio.
XETB	125	.....	Torreon, Coah.
4BH	600	.....	Brisbane, Australia.
.....	500	1382	Konigsberg, Germany.
.....	10	1388	Rancagua, Chile.

## 1390 kcs. 215.7 m.

CMBD	40	1395	Havana, Cuba.
HIH	15	1395	San Pedro, D. R.
KLRA	1000	.....	Little Rock, Ark.
KOY	500	.....	Phoenix, Ariz.
LT10	100	.....	Sante Fe, Arg.
SCE	200	1391	Halmstad, Sweden.
WHK	1000	.....	Cleveland, Ohio.
2GN	50	.....	Goulburn, Australia.

## 1400 kcs. 214.2 m.

CMCH	50	1405	Havana, Cuba.
CMCM	15	1405	Havana, Cuba.
KLO	500	.....	Ogden, Utah.
KOCW	250	.....	Chickasha, Okla.
WARD	500	.....	Brooklyn, N. Y.
WBBA	500	.....	Lafayette, Ind.
WBBC	500	.....	Brooklyn, N. Y.
WFOC	500	.....	Brooklyn, N. Y.
WKBF	500	.....	Indianapolis, Ind.
WLTH	500	.....	Brooklyn, N. Y.
2ZL	20	.....	Hastings, N. Z.
3GL	50	.....	Geelong, Australia.
.....	1000	.....	Aberdeen, G. B.

## 1410 kcs. 212.6 m.

CKFC	50	.....	Vancouver, B. C.
CKMO	100	.....	Vancouver, B. C.
CX44	20	.....	Montevideo, Uruguay.
KFLV	500	.....	Rockford, Ill.
KGRS	1000	.....	Amarillo, Texas.
WAAB	500	.....	Boston, Mass.
WBCM	500	.....	Bay City, Mich.
WDAG	1000	.....	Amarillo, Texas.
WHBL	500	.....	Sheboygan, Wis.
WHIS	250	.....	Bluefield, W. Va.
WOPX	500	.....	Mobile, Ala.
WRBX	250	.....	Roanoke, Va.
WSFA	500	.....	Montgomery, Ala.
2KO	200	1415	Newcastle, Australia.

## 1420 kcs. 211.1 m.

CW44	30	.....	Paysandu, Uruguay.
HAE-2	3000	1428	Magyarovar, Hungary.
KABC	100	.....	San Antonio, Texas.
KBPS	100	.....	Portland, Ore.
KCMC	100	.....	Texarkana, Ark.
KFTZ	100	.....	Fond du Lac, Wis.
KGFF	100	.....	Shawnee, Okla.
KGCC	100	.....	San Francisco, Calif.
KGWV	100	.....	Trinidad, Colo.
KGIX	100	.....	Las Vegas, Nev.
KGKX	100	.....	Sand Point, Idaho.
KICK	100	.....	Red Oak, Iowa.
KIDW	100	.....	Lamar, Colo.
KORE	100	.....	Eugene, Ore.
KUMA	100	.....	Yuma, Ariz.
KWCR	100	.....	Cedar Rapids, Iowa.
KXL	100	.....	Portland, Ore.

QA4M	12	1428	Lima, Peru.
WAGM	100	.....	Presque Isle, Maine.
WAMC	100	.....	Anniston, Ala.
WAZL	100	.....	Hasleton, Pa.
WEHS	100	.....	Ciervo, Ill.
WELL	50	.....	Battle Creek, Mich.
WENC	100	.....	Americus, Ga.
WHDL	100	.....	Tupper Lake, N. Y.
WHFC	100	.....	Ciervo, Ill.
WILM	100	.....	Wilmington, Del.
WJBO	100	.....	New Orleans, La.
WJMS	100	.....	Ironwood, Mich.
WKBI	100	.....	Ciervo, Ill.
WLBK	100	.....	Kansas City, Kans.
WMAS	100	.....	Springfield, Mass.
WMBG	100	.....	Detroit, Mich.
WMBH	100	.....	Joplin, Mo.
WPAD	100	.....	Paducah, Ky.
WSPA	100	.....	Spartanburg, S. Car.
WTBO	100	.....	Cumberland, Md.
1ZB	20	.....	Auckland, N. Z.
1ZS	5	.....	Auckland, N. Z.
3AW	300	1425	Melbourne, Australia.
.....	1000	.....	Newcastle, G. B.

## 1430 kcs. 209.7 m.

CFCT	500	.....	Victoria, B. C.
HAC	1200	.....	Budapest, Hungary.
KECA	1000	.....	Los Angeles, Calif.
KGNF	500	.....	North Platte, Neb.
LP9	1500	.....	La Plata, Arg.
WBAK	1000	.....	Harrisburg, Pa.
WCAH	500	.....	Columbus, Ohio.
WFEA	500	.....	Manchester, N. H.
WHEC	500	.....	Rochester, N. Y.
WHP	500	.....	Harrisburg, Pa.
WNBR	500	.....	Memphis, Tenn.
WOKO	500	.....	Albany, N. Y.
2WL	50	1435	Woolongong, Australia.

## 1440 kcs. 208.2 m.

CMBL	20	1445	Havana, Cuba.
CSIRS	1000	1448	Oporto, Portugal.
KDFN	500	.....	Casper, Wyo.
KLS	250	.....	Oakland, Calif.
KXYZ	250	.....	Houston, Texas.
ONARC	100	1448	Brussels, Belgium.
TIFS	7.5	1441	Cartago, C. R.
WBIG	500	.....	Greensboro, N. Car.
WCBH	250	.....	Allentown, Pa.
WMBD	500	.....	Peoria, Ill.
WSAN	250	.....	Allentown, Pa.
WTAD	500	.....	Quincy, Ill.

## 1450 kcs. 206.8 m.

CX46	100	.....	Montevideo, Uruguay.
KTBS	1000	.....	Shreveport, La.
ON4CE	100	1455	Verviers, Belgium.
ON4EB	50	1455	Antwerp, Belgium.
ON4FG	25	1455	Danpremy, Belgium.
SCA	150	.....	Boras, Sweden.
TIEP	7.5	.....	San Jose, C. R.
WGAR	500	.....	Cleveland, Ohio.
WHOM	250	.....	Jersey City, N. J.
WSAR	250	.....	Fall River, Mass.
WTFI	500	.....	Athens, Ga.
XEAB	7.5	.....	Nuevo Laredo, Tams.
3ZM	100	.....	Christchurch, N. Z.

## 1460 kcs. 205.4 m.

CW46	20	.....	Tucuman, Uruguay.
KSTP	25000	.....	St. Paul, Minn.
SCW	200	.....	Ornskoldsvik, Sweden.
WJSV	10000	.....	Washington, D. C.
ZP5	150	1465	Asuncion, Paraguay.
7UV	200	1465	Ulverstone, Australia.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

1470 kcs. 204.0 m.

KGZ 5000 ..... Spokane, Wash.  
LUG 50 ..... Azul, Arg.  
SCE 200 ..... Gavle, Sweden.  
WLAC 5000 ..... Nashville, Tenn.

1480 kcs. 202.6 m.

CMBK 15 1485 Havana, Cuba.  
CMBR 40 1485 Havana, Cuba.  
KOMA 5000 ..... Oklahoma City, Okla.  
SCM 250 ..... Kristinehamn, Sweden.  
WKBW 5000 ..... Buffalo, N. Y.  
2AY 50 ..... Albury, Australia.

1490 kcs. 201.2 m.

CX48 50 ..... Montevideo, Uruguay.  
SCH 250 ..... Jonkoping, Sweden.  
WCKY 5000 ..... Covington, Ky.

1500 kcs. 199.9 m.

KDB 100 ..... Santa Barbara, Calif.  
KGFI 100 ..... Corpus Christi, Texas.  
KGFK 100 ..... Moorhead, Minn.

KGIZ 100 ..... Grant City, Mo.  
KGKB 100 ..... Tyler, Texas.  
KGKY 100 ..... Scottsbluff, Neb.  
KNOW 100 ..... Austin, Texas.  
KPJM 100 ..... Prescott, Ariz.  
KPK 100 ..... Wenatchee, Wash.  
KREG 100 ..... Santa Ana, Calif.  
KXO 100 ..... El Centro, Calif.  
WFDV 100 ..... Rome, Ga.  
WHEF 100 ..... Kosciusko, Miss.  
WKBV 100 ..... Connorsville, Ind.  
WKBZ 100 ..... Ludington, Mich.  
WKEU 100 ..... LaGrange, Ga.  
WLOE 100 ..... Boston, Mass.  
WMBQ 100 ..... Brooklyn, N. Y.  
WMIL 100 ..... Brooklyn, N. Y.  
WMPG 100 ..... Lapeer, Mich.  
WNBF 100 ..... Binghamton, N. Y.  
WOPI 100 ..... Bristol, Tenn.  
WPEN 100 ..... Philadelphia, Pa.  
WRDW 100 ..... Augusta, Ga.  
WSYB 100 ..... Rutland, Vt.  
WWRL 100 ..... Woodside, N. Y.  
WWSW 100 ..... Pittsburgh, Pa.  
XEFZ 100 ..... Coconino, D. F.  
3AK 50 ..... Melbourne, Australia.  
..... 250 1515 Biarritz, France.  
..... 10000 ..... Riga, Latvia.

# INDEX BY LOCATIONS WITH MAP KEY

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

## ALABAMA

Anniston O-21 tr 100 WAMC 1420  
Birmingham O-21 5000 WAPI N 1140  
..... 500 WBRC C 930  
..... 100 WKBC 1310  
Gadsden O-21 100 WJBY 1210  
Huntsville N-21 c 100 WBHS 1200  
Mobile Q-20 500 WODX C 1410  
Montgomery P-21 500 WSFA C 1410  
Troy P-21 rc 100 WHET 1210

## ALASKA

Anchorage 250 KFOD 1230  
Juneau 100 KIFH 1310  
Ketchikan 500 KGBU 900

## ARIZONA

Jerome M-6 100 KCRJ 1310  
Phoenix N-6 500 KOY C 1390  
..... 500 KTAR N 620  
Prescott M-6 100 KPJM 1500  
Tucson O-7 100 KGAR 1370  
..... 500 KVOA 1260  
Yuma O-5 tl 100 KUMA 1420

## ARKANSAS

Blytheville M-19 100 KLCN 1290  
Fayetteville M-16 1000 KUOA 1260  
Fort Smith N-16 100 KFPW 1210  
Hot Springs N-17 10000 KTHS N 1040  
Little Rock N-17 250 KARK 890  
..... 100 KGGH 1200  
..... 1000 KRLA C 1390  
..... 100 KBTM 1200  
..... 100 KCMC 1420

## CALIFORNIA

Paragould M-18 100 KERN C 1200  
Texarkana O-17 bl 100 KRE 1370  
Bakersfield L-2 br 100 KMPC 710  
Berkeley J-2 500 KELW 780  
Beverly Hills M-3 bl 500 KXO 1500  
Burbank M-3 100 KIEM 1210  
El Centro N-4 500 KMJ C 580  
Eureka H-1 tc 100 KIEV 850  
Fresno K-2 500 KMTR 570  
Glendale M-3 100 KNX 1050  
Hollywood M-3 500 KFOX C 1250  
Long Beach M-3 1000 KGER 1360  
Los Angeles M-3 1000 KECA N 1430  
..... 1000 KFAC 1300  
..... 5000 KFI N 640  
..... 500 KFSG 1120  
..... 250 KFVD 1000  
..... 1000 KFVB 950  
..... 100 KGFJ 1200  
..... 1000 KHJ C 900  
..... 500 KRKD 1120  
..... 500 KTM 780  
..... 250 KLS 1440  
..... 1000 KLX 880  
..... 500 KROW 930  
Pasadena M-3 50 KPPC 1210  
Sacramento J-2 100 KFBK C 1310  
San Bernardino M-3 100 KFAM 1210  
San Diego N-3 1000 KFSD N 600  
..... 1000 KGB C 1330  
..... 1000 KFRC C 610  
..... 500 KFWI 930  
..... 100 KGGC 1420  
..... 7500 KGO N 790  
..... 100 KJBS 1070  
..... 5000 KPO N 680  
..... 1000 KTAB 560  
..... 1000 KYA N 1230

## Oakland J-1

..... 1000 KGB C 1330  
..... 1000 KFRC C 610  
..... 500 KFWI 930  
..... 100 KGGC 1420  
..... 7500 KGO N 790  
..... 100 KJBS 1070  
..... 5000 KPO N 680  
..... 1000 KTAB 560  
..... 1000 KYA N 1230

## Pasadena M-3

..... 1000 KGB C 1330  
..... 1000 KFRC C 610  
..... 500 KFWI 930  
..... 100 KGGC 1420  
..... 7500 KGO N 790  
..... 100 KJBS 1070  
..... 5000 KPO N 680  
..... 1000 KTAB 560  
..... 1000 KYA N 1230

## San Francisco J-1

..... 1000 KGB C 1330  
..... 1000 KFRC C 610  
..... 500 KFWI 930  
..... 100 KGGC 1420  
..... 7500 KGO N 790  
..... 100 KJBS 1070  
..... 5000 KPO N 680  
..... 1000 KTAB 560  
..... 1000 KYA N 1230

San Jose J-1 500 KQW 1010  
Santa Ana M-3 100 KREG 1500  
Santa Barbara M-2 100 KDB C 1500  
Stockton J-7 250 KGDM C 1100  
..... 100 KQW 1200

## COLORADO

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

## CONNECTICUT

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

## DELAWARE

Wilmington J-26 250 WDEL 1120  
..... 100 WILM 1420

## DISTRICT OF COLUMBIA

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

## FLORIDA

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

## GEORGIA

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

## HAWAII

Honolulu 250 KGMB C 1320  
..... 1000 KGU N 750

## IDAHO

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

# REVISED INDEX OF CANADIAN STATIONS BY CALL LETTERS

\*Not in official list; evidently to be deleted.

CFAC 690	Calgary, Alta.	CHRC 645	Quebec, Que.	CKMC 1210	Cobalt, Ont.
CFBO 1030	St. John, N. B.	CHWC 1010	Regina, Sask.	CKMO 1410	Vancouver, B. C.
CFCA 1120	Toronto, Ont.	CHWK 780	Chilliwack, B. C.	CKNC 1030	Toronto, Ont.
CFCH 600	Montreal, Que.	CHYC* 730	Montreal, Que.	CKOC 1010	Hamilton, Ont.
CFCH 930	North Bay, Ont.	CJCA 730	Edmonton, Alta.	CKOV 1200	Kelowna, B. C.
CFCN 1030	Calgary, Alta.	CJCB 880	Sydney, N. S.	CKPC 930	Fresno, Ont.
CFCO 1210	Chatham, Ont.	CJGJ 690	Calgary, Alta.	CKPR 780	St. William, Ont.
CFCT 1430	Victoria, B. C.	CJGX 630	Yorkton, Sask.	CKTB* 635	St. Catharines, Ont.
CFCT 630	Charlottetown, P. E. I.	CJOC 580	Lethbridge, Alta.	CKUA 580	Edmonton, Alta.
CFJC 1120	Kamloops, B. C.	CJOR 1210	Vancouver, B. C.	CKWX 1010	Vancouver, B. C.
CFJC 930	Prescott, Ont.	CJRM 880	Moose Jaw, Sask.	CKX 930	Brandon, Man.
CFNB 1210	Fredericton, N. B.	CJRW 880	Fleming, Sask.	CKY 910	Winnipeg, Man.
CFQC 890	Saskatoon, Sask.	CKAC 730	Montreal, Que.	CNRH* 815	Halifax, N. S.
CFRB 690	Toronto, Ont.	CKCD 1010	Vancouver, B. C.	CPRY* 840	Toronto, Ont.
CFRC 915	Kingston, Ont.	CKCI* 645	Quebec, Que.	CRCA 580	Moncton, N. B.
CHCH* 1200	Montreal, Que.	CKCK 1010	Regina, Sask.	CRCO 880	Ottawa, Ont.
CHCK 1310	Charlottetown, P. E. I.	CKCL 580	Toronto, Ont.	CRCV 1100	Vancouver, B. C.
CHGS 1120	Summerside, P. E. I.	CKCO 1010	Ottawa, Ont.	10-AB 1200	Moose Jaw, Sask.
CHLP 1120	Montreal, Que.	CKCR 645	Waterloo, Ont.	10-AK* 1200	Stratford, Ont.
CHLS* 730	Vancouver, B. C.	CKCV 1310	Quebec, Que.	10-AT* 1158	Trail, B. C.
CHMA 580	Edmonton, Alta.	CKFC 1410	Vancouver, B. C.	10-BI* 1200	Prince Albert, Sask.
CHML 890	Hamilton, Ont.	CKGW 840	Toronto, Ont.	10-BP* 1199	Wingham, Ont.
CHNC* 840	Toronto, Ont.	CKIK 1010	Wolfville, N. S.	10-BQ* 1200	Brantford, Ont.
CHNS 1050	Halifax, N. S.	CKLC* 840	Red Deer, Alta.	10-BU* 1200	Canora, Sask.
		CKLW 540	Windsor-London, Ont.	1210	Hull, Quebec

# TIME CONVERSION TABLE

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

# INDEX BY LOCATIONS WITH MAP KEY

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

## ILLINOIS

	Watts	Keys.
Carthage J-18	50 WCAZ	1070
Chicago I-20	10000 KFKC	1020
	10000 KYW N	1020
	500 WAAF	920
	25000 WBBM C	770
	1500 WCFW R	970
	100 WCRW	1210
	100 WEDC	1210
	50000 WENR N	870
	500 WGES	1360
	25000 WGN C	720
	1000 WIBO	560
	20000 WJJD	1130
	50000 WLS N	870
	5000 WMAQ N	670
	5000 WMBI	1080
	500 WPCC	560
	100 WBSB	1210
	100 WEHS	1420
	100 WHFC	1420
	100 WKBI	1420
	100 WJBL	1200
	100 WEBQ	1210
	100 WCLS	1310
	100 WKBB	1310
	100 WJCB	1200
	500 WMBD C	1440
	500 WTTD	1440
	500 KFLV	1410
	100 WHBF	1210
	100 WCBF	1210
	100 WTAX	1210
	100 WDW	1070
	250 WILL	890
	5000 WCBF	1080

## INDIANA

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

## IOWA

Ames I-17	5000 WOI	640
Boone I-17	100 KFGO	1310
Cedar Rapids I-18	100 KWCR B	1420
Council Bluffs J-16	1000 KOIL B	1260
Davenport I-18	50000 WOC R	1000
Decorah H-18	100 KGCA	1270
	100 KWLC	1270
Des Moines I-17	100 KSO B	1370
	50000 WHO R	1000
Iowa City I-18	500 WSUI	880
Marshalltown I-17	100 KFJB	1200
Ottumwa J-17	100 WIAS	1310
Red Oak J-16	100 KICK	1420
Shenandoah J-16	500 KFNF	890
	500 KMA	930
Sloux City I-15	1000 KSCJ C	1330
Waterloo I-17	500 WMT	600

## KANSAS

Abilene K-15 b1	5000 KFBI	1050
Coffeyville M-15 tr	500 KGGF	1010
Dodge City L-13	250 KGNO	1340
Kansas City K-16	100 WLBF	1420
Lawrence K-16	500 KFKU	1220
	1000 WREN B	1220
Manhattan K-15	500 KSAC	580
Topeka K-16	1000 WIBW C	580
Wichita L-15	1000 KFH C	1300

## KENTUCKY

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

## LOUISIANA

Monroe P-18	100 KMLB	1200
New Orleans R-19	100 WBBX	1200
	1000 WDSU C	1250
	100 WJBO	1420
	100 WJBW	1200
	500 WSMB N	1320
	10000 WWL	850
Shreveport P-17	100 KRMD	1310
	1000 KTBS N	1450
	100 KWEA	1210
	10000 KWKH	850

## MAINE

Augusta F-28	100 WRDO	1370
Bangor F-29	100 WABI	1200
	500 WLBZ C	620
Portland F-28	1000 WCBH R	940
	250 WLEC	1340
Presque Isle D-29 1c	100 WAGM	1420

## MARYLAND

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

## MASSACHUSETTS

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

## MICHIGAN

Battle Creek I-21	50 WELL	1420
Bay City H-22	500 WBCM C	1410
Calumet E-19	100 WHDF	1370
Detroit H-22	100 WJBK	1370
	10000 WJR B	750
	100 WMBG	1420
	1000 WWJ R	920
	1000 WXYZ	1240
East Lansing H-21	1000 WKAR	1040

# INDEX BY LOCATIONS WITH MAP KEY

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

	Watts	Keys.
Flint H-22	100 WFDF	1310
Grand Rapids H-21	500 WASH	1270
	500 WOOD	1270
	100 WJMS	1420
Ironwood F-18 rc	100 WJBM	1370
Jackson I-21	1000 WKZO	590
Kalamazoo I-21 tl	1000 WKZO	590
Lapeer H-22	100 WMPG	1500
Ludington H-20	100 WKBB	1500
Marquette F-19	100 WBEO	1310
Royal Oak H-22	50 WEXL	1310

## MINNESOTA

Fergus Falls F-15	100 KGDE	1200
Minneapolis G-17	50000 WCCO C	810
	1000 WDGJ	1180
	1000 WLB	1250
	1000 WRHM	1500
	100 KGFH	1500
	1000 KFMX	1250
	1000 WCAL	1250
	25000 KSTP N	1460
Moorhead F-15		
Northfield G-17		
St. Paul G-17		

## MISSISSIPPI

Greenville O-18	100 WKFI	1210
Gulfport Q-19	100 WGCN	1210
Hattiesburg Q-19	100 WPFH	1370
Jackson P-19	1000 WJDX N	1270
Kosciusko O-19 bc	100 WHEF	1500
Laurel P-19 br	100 WAML	1310
Meridian P-20	500 WCOC	880
Vicksburg P-18	500 WQBC	1360

## MISSOURI

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

## MONTANA

Billings F-9	1000 KGHL N	950
Butte F-7	500 KGIR N	1360
Great Falls E-8	1000 KFBB	1280
Kalispell D-7	100 KGEZ	1310
Missoula E-7	100 KGVO	1200
Wolf Point E-11	100 KGCC	1310

## NEBRASKA

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

## NEVADA

Las Vegas L-5	100 KGIX	1420
Reno I-3	500 KOH C	1380

## NEW HAMPSHIRE

Laconia G-28 1c	100 WKAV	1310
Manchester G-28	500 WFEA C	1430
Portsmouth G-28 tc	250 WHEB	740

## NEW JERSEY

Asbury Park I-27	500 WCAP C	1280
Atlantic City J-27	5000 WPG C	1100
Camden I-26	500 WCAM	1280
Jersey City I-27	500 WAAT	940
	250 WHOM	1450
Newark I-27	1000 WAAM	1250
	250 WGPC	1250
	5000 WOR	710
Paterson I-27	1000 WODA	1250
Red Bank I-27	100 WJBI	1210
Trenton I-26	500 WTNJ	1280
Zarephath I-27	250 WAWZ	1350

## NEW MEXICO

Albuquerque N-7	250 KGGM	1230
	20000 KOB	1180
Clovis O-11 tr	100 KICA	1370
Roswell M-10	100 KGFL	1370

## NEW YORK

Albany G-27 bl	500 WOKO C	1430
Auburn H-25	100 WMBO	1310
Binghamton H-26	100 WBNF	1500
Brooklyn I-27	500 WARD	1400
	500 WBBB	1400
	1000 WBBR	1300
	500 WFOX	1400
	500 WLTH	1400
	100 WMBQ	1500
	100 WMIL	1500
Buffalo H-24	1000 WBNR R	900
	100 WEBR	1310
	1000 WGR C	550
	5000 WKBW C	1480
	50 WSVS	1370
	500 WCAD	1220
Chester	50 WGNV	1210
Elmira H-25 c	1000 WESG	1040
Freeport I-27	100 WGBB	1210
Hudson Falls G-27	50 WGLC	1370
Jamestown H-24	50 WOCL	1210
New York City I-27	50000 WABC C	860
	250 WBNX	1350
	50000 WBOQ	860
	250 WCD A	1350
	50000 WEAF R	660
	500 WEVD	1300
	1000 WFAB	1300
	500 WINS	1180
	250 WHN	1010
	50000 WJZ B	760
	5000 WLWL	1100
	500 WMCA	570
	250 WMSG	1350
	500 WNYC	810
	1000 WOV	1130
	250 WPAP	1010
	500 WPCB	570
	250 WQAO	1010
	250 WRNY	1010
Rochester G-25	25000 WHAM B	1150
	500 WHEC C	1430

# INDEX BY LOCATIONS WITH MAP KEY

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

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

## NORTH CAROLINA

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

## NORTH DAKOTA

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

## OHIO

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

## OKLAHOMA

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

## OREGON

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

Portland E-3	500	KALE	C 1300
	5000	KEX	N 1420
	100	KBPS	1370
	500	KFJR	1300
	1000	KGW	N 620
	1000	KOIN	C 940
	500	KWJJ	1060
	100	KXL	1420

## PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Erie H-24	500	WLBW	C 1260
Glenside I-26 rc	25	WIBG	930
Grove City I-24	100	WSAJ	1310
Harrisburg I-25	1000	WBAK	1430
	100	WCOD	1200
	500	WHP	C 1430
Hazleton I-26 lc	100	WAZL	1420
Johnstown J-24	100	WJAC	1310
Lancaster I-26	100	WGAL	1310
	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	50000	WCAU	C 1170
Philadelphia I-26	100	WDAS	1370
	500	WFI	R 560
	100	WHAT	1310
	500	WIP	C 610
	500	WLIT	R 560
	100	WPNP	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA	B 980
	1000	KQV	1380
	1000	WCAB	R 1220
	1000	WJAS	C 1290
	100	WWSW	1500
Reading I-26	1000	WEEU	830
Scranton H-26	100	WRAW	1310
	250	WGBI	880
	250	WQAN	880
Washington J-24	100	WNBO	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	100	WRAK	1370
	100	WJEQ	1370
York J-25 tr	1000	WORK	1000

## PHILIPPINES

Cebu	500	KZRC	937.5
Manila	1000	KZKA	1110
	50000	KZRM	618.5

## PORTO RICO

San Juan W-34	1000	WKAQ	1240
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## RHODE ISLAND

Providence H-28	500	WEAN	C 780
	500	WJAR	R 890
	100	WPAW	1210
	100	WPRO	1210

## SOUTH CAROLINA

Charleston O-25	500	WCSC	N 1360
Columbia N-24	500	WIS	1010
Greenville N-23 tc	100	WFBC	1200
Spartanburg N-23	100	WSPA	1420

# INDEX BY LOCATIONS WITH MAP KEY

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

## SOUTH DAKOTA

Brookings H-15	1000	KFDY	550
Huron H-14	250	KGDY	1340
Mitchell H-14	100	KGDA	1370
Pierre G-13	200	KGFX	630
Rapid City H-12	100	WCAT	1200
Sioux Falls H-15	1000	KSOO	1110
Vermillion I-15	500	KUSD	890
Watertown G-15	100	KGCR	1210
Yankton I-15	1000	WNAX	C 570

## TENNESSEE

Bristol L-23	100	WOPI	1500
Chattanooga N-21	1000	WDOD	C 1280
Jackson M-19 br	100	WTJS	1310
Knoxville M-22	1000	WNOX	C 560
	100	WROL	1310
	100	WHBQ	1370
Memphis N-19	500	WMC	N 780
	500	WNRB	1430
	500	WREC	C 600
Nashville M-21	5000	WLAC	C 1470
Springfield M-20	50000	WSM	N 650
	100	WSIX	1210

## TEXAS

Amarillo N-12	1000	KGRS	1410
	1000	WDAG	1410
Austin Q-14	100	KNOW	1500
Beaumont R-17	500	KFDM	560
Brownsville U-15	500	KWWG	1260
College Sta. Q-15	500	WTAW	1120
Corpus Christi S-14	100	KGFI	1500
Dallas P-15	10000	KRLD	1040
	50000	WFAA	N 800
	500	WRR	C 1280
	100	KFPL	1310
Dublin P-14	100	KTSM	1310
El Paso P-9	100	WDAH	1310
	100	KFJZ	1370
Fort Worth P-15	1000	KTAT	1240
	50000	WBAP	N 800
	100	KFLX	1370
	500	KFUL	1290
	15	KFPM	1310
Greenville O-15	500	KRGV	1260
Harlingen T-14	1000	KPRC	N 920
Houston R-16	500	KTRH	1120
	250	KXYZ	1440
	100	KFYD	1310
	100	KGKL	1370
	100	KABC	1420
	100	KMAC	1370
	100	KONO	1370
	1000	KTSA	C 1290
	50000	WOAI	N 1190
	100	KGKB	1500
Tyler P-16 rc	1000	WACO	C 1240
Waco Q-15	250	KGKO	570
Wichita Falls O-14			

## UTAH

Ogden I-7	500	KLO	1400
Salt Lake City I-7	1800	KDYL	N 1290
	50000	KSL	C 1130

## VERMONT

Burlington F-27	100	WCAX	1200
Rutland G-27	100	WSYB	1500
St. Albans F-27	100	WQDM	1370
Springfield G-27	250	WNBX	1260
Waterbury F-27 c	500	WDEV	550

## VIRGINIA

Arlington J-25	1000	NAA	690
Danville L-25	100	WBTM	1370
Emory L-23	500	WEHC	1350
Lynchburg L-25	100	WLVA	1370
Newport News L-26	100	WGH	1310
Norfolk L-26	500	WTAR	C 780
Petersburg L-26	100	WPHR	1200
Portsmouth L-26 tc	500	WPOR	780
Richmond K-26	100	WBBL	1210
	100	WMBG	C 1210
	5000	WRVA	N 1110
	250	WDBJ	C 930
	250	WRBX	1410
Roanoke L-24			

## WASHINGTON

Aberdeen D-2	100	KXRO	1310
Bellingham C-3	100	KVOS	1200
Everett C-3	50	KFBL	1370
Olympia D-3 tl	100	KGy	1210
Pullman E-5	1000	KWSC	1220
Seattle C-3	5000	KJR	N 970
	1000	KOL	C 1270
	1000	KOMO	N 920
	100	KPCB	650
	100	KRSC	1120
	1000	KTW	1220
	100	KVL	1370
	250	KXA	760
Spokane D-5	100	KFIO	1120
	1000	KFPY	C 1340
	5000	KGA	B 1470
	1000	KHQ	N 590
Tacoma D-3	250	KMO	1330
	500	KVI	C 570
Walla Walla E-5	100	KUJ	1370
Wenatchee D-4	100	KPO	1500
Yakima D-4	100	KIT	1310

## WEST VIRGINIA

Bluefield L-24	250	WHIS	1410
Charleston K-23	250	WOBW	580
Fairmont J-24	250	WMMN	890
Huntington K-23	500	WSAZ	1190
Wheeling J-24	5000	WVVA	C 1160

## WISCONSIN

Eau Claire G-18	1000	WTAQ	C 1330
Fond du Lac H-19	100	KFIZ	1420
Green Bay G-19	100	WHBY	1200
Janesville I-19	100	WCLO	1200
La Crosse H-18	1000	WKBH	C 1380
Madison H-19	1000	WHA	940
	500	WIBA	N 1280
	100	WOMT	1210
Manitowoc H-20	250	WHAD	C 1120
Milwaukee H-19	250	WISN	C 1120
	1000	WTMJ	N 620
	100	WIBU	1210
Poynette H-19	100	WRJN	1370
Racine I-20	500	WHBL	1410
Sheboygan H-20	2500	WBLB	900
Stevens Point G-19	1000	WEBC	N 1290
Superior F-17			

## WYOMING

Casper H-10	500	KDFN	1440
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## CANADA

ALBERTA			
Calgary B-7	500	CFAC	690
	10000	CFCN	1030
	500	CJCJ	690



# INDEX BY LOCATIONS WITH MAP KEY

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

	Watts	CHMA	Keys.
Edmonton A-8	250	CHMA	580
	500	CJCA	730
Lethbridge C-8	500	CKUA	580
Red Deer A-8	1000	CJOC	580
		CKLC	840

## BRITISH COLUMBIA

Chilliwack B-3	100	CHWK	780
Kamloops B-5	100	CFJC	1120
Kelowna C-6 tl	100	CKOV	1200
Trail C-6 c	25	10-AT	1155
Vancouver B-3	100	CHLS	730
	500	CJOR	1210
	100	CKCD	1010
	50	CKFC	1410
	100	CKMO	1410
	100	CKWX	1010
	500	CRCV	1100
	500	CFCT	1430

## MANITOBA

Brandon D-14	500	CKX	930
Winnipeg D-15	5000	CKY	910

## NEW BRUNSWICK

Fredericton D-29	100	CFNB	1210
Moncton D-30	500	CRCA	580
St. John D-30	500	CFBO	1030

## NOVA SCOTIA

Glace Bay C-32	2000	VAS	685
Halifax E-31	500	CHNS	1050
Sydney C-32	100	CJCB	880
Wolfville D-31	50	CKIC	1010

## ONTARIO

Brantford H-23 tr	15	10-BQ	1200
Chatham H-22	100	CFCO	1210
Cobalt E-23	100	CKMC	1210
Ft. William E-19 bl	100	CKPR	780
Hamilton H-24	50	CHML	890
	100	CKOC	1010
Kingston G-25	50	CFRC	915
North Bay F-23 c	100	CFCH	930
Ottawa F-25	100	CKCO	1010
	500	CRCO	880
Prescott F-25	100	CFLC	930
Preston H-23	100	CKPC	930
St. Catharines H-24 tl	1000	CKTB	635
Stratford H-23 tc	15	10-AK	1200
Toronto G-24	100	CFCA	1120
	10000	CFRB	690
	5000	CHNC	840
	100	CKKL	580
	5000	CKGW	840
	100	CKNC	1030
	5000	CPRY	840
Waterloo G-23	100	CKCR	645
Windsor I-22 tc	5000	CKLW	540
Wingham G-23	25	10-BP	1199

## PRINCE EDWARD ISLAND

Charlottetown C-31	500	CFCY	630
	100	CHCK	1310
Summerside C-31	100	CHGS	1120

## QUEBEC

Hull	100		1210
Montreal E-26	500	CFCF	600
	100	CHCH	1200
	100	CHLP	1120
	5000	CHYC	730
	5000	CKAC	730

Quebec D-27	100	CHRC	645
	100	CKCI	645
	100	CKCV	1310

## SASKATCHEWAN

Canora B-13 tl	15	10-BU	1200
Fleming C-13	500	CJRW	880
Moose Jaw C-11	500	CJRM	880
	25	10-AB	1200
Prince Albert A-11 rc	25	10-BI	1200
Regina C-12	500	CHWC	1010
	500	CKCK	1010
Saskatoon B-11	500	CFQC	890
Yorkton B-13	500	CJGX	630

## NEWFOUNDLAND

St. Johns A-35	75	VOAS	810
	100	VOGY	890
	30	VOKW	1300
	100	VONF	1195
	500	VOWR	750

## CENTRAL AMERICA

### COSTA RICA

Cartago	7.5	TIFS	1441
	30	TIGA	1014
San Jose	15	TIC	882
	30	TICR	1180
	7.5	TIEA	833
	7.5	TIEP	1450
	30	TIFB	714
	75	TIGP	666
	50	TISO	600
	75	TITR	1333
	7.5	TITV	999
	30	TIVL	860
	7.5	TIXA	614

## GUATEMALA

Guatemala City	250	TGW	1320
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## HONDURAS

San Pedro Sula	7.5	JRL	1350
Tegucigalpa	2300	HRB	1370

## SALVADOR

Salvador CC-19 br	500	RUS	664
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## MEXICO

### AGUASCALIENTES

Aguascalientes W-11 bc	350	XFC	805
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### BAJA CALIFORNIA

Mexicali O-4 tc	7.5	XEAO	560
Tijuana N-3 bc	2500	XEFD	855

### CHIHUAHUA

Chihuahua R-9	100	XEFI	1000
	250	XFF	915
Juarez P-9	5000	XEAN	750
	100	XEFV	1370
	500	XEJ	1015

### COAHUILA

Piedras Negras S-12 tr	100000	XEPN	585
Saltillo, Coah. U-12	10	XEL	1000
Torreón U-11 tl	125	XETB	1380
Villa Acuna R-12 c	75000	XER-XEF	735

### D. F.

Coyoacan Y-13	100	XEFZ	1500
Mexico City Y-13	250	XEAD	875
	100	XEAI	1090
	10000	XEB	1030

# INDEX BY LOCATIONS WITH MAP KEY

	Watts	XEFA	Keys.
	500	XEFA	1250
	500	XEG	1075
	100	XEK	990
	1000	XEN	711
	5000	XEFO	940
	1000	XEP	780
	250	XETA	1140
	1000	XETR	610
	500	XETW	830
	5000	XEW	910
	500	XEX	1210
	2000	XFG	638
	1000	XFI	818
	5000	XFO	940
	500	XFX	860
	50	XBC	1000

## Toluca Y-12

## HIDALGO

Pachuca Y-13 rc	100	XETU	890
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## JALISCO

Guadalajara, Ja. X-10	100	XEA	1000
	500	XED	1155

## MICHOACAN

Morelia, Mich. Y-12	125	XEI	1310
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## NUEVO LEON

Monterrey, N. L. U-13	100	XEFB	1315
	100	XEFJ	1000
	250	XEH	1132
	500	XET	690

## PUEBLA

Puebla Z-13	100	XETH	840
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## QUERETARO

Queretaro X-12 br	40	XEFS	1000
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## SAN LUIS POTOSI

San Luis Potosi W-12 bc	100	XEAC	1295
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## TAMAULIPAS

Matamoros U-14 tr	500000	XEM	660
	150000	XETM	845
	7.5	XEAB	1450
N. Laredo S-13	100	XEFE	1000
	150000	XENT	1115
Reynosa, Tams. T-14	10000	XEAW	965
Tampico, Tams. W-14	70	XEFW	1240
	250	XES	1055

## VERA CRUZ

Jalapa Y-14	500	XFB	1290
Vera Cruz, Ver. Z-14	500	XETF	630
	100	XEU	1010

## YUCATAN

Merida, Yuc. X-19	10	XEFC	1020
	105	XEY	546.8

## WEST INDIES

### CUBA

Calbarien W-25	250	CMHD	950
Camaguey W-26	150	CMJC	1382
	50	CMJE	1175
	200	CMJF	930

### VERA CRUZ

Jalapa Y-14	500	XFB	1290
Vera Cruz, Ver. Z-14	500	XETF	630
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	Watts	Keys.
	50	CMJG 1050
	300	CMJK 790
	50	CMJL 960
	50	CMJN 1240
Cardenas W-24	30	CMGE 1375
Ciego de Avila W-26	30	CMJH 1150
	45	CMJI 1335
	50	CMJO 1110
Cienfuegos W-25	40	CMHJ 1125
	20	CMHL 1290
Colon W-24	100	CMGA 834
Cruces	15	CMHK 1225
Guantanamo X-28 tc	20	CMKJ 1300
Havana W-23	1000	CMAF 680
	150	CMA Y 965
	150	CMBC 1270

# INDEX BY COUNTRIES AND CITIES

## SOUTH AMERICA

### ARGENTINE

Azul	50	LU9	1470
Bahia Blanca	500	LU2	800
Buenos Aires	1000	LP4	670
	1500	LP6	590
	500	LR1	790
	5500	LR2	910
	7500	LR3	950
	20000	LR4	990
	1600	LR5	830
	2100	LR6	870
	1000	LR7	750
	3000	LR8	1150
	5000	LR9	1030
	5000	LS1	710
	5500	LS2	1190
	5000	LS5	1110
	1500	LS6	1350
	2000	LS8	1230
	3500	LS9	1270
	4500	LU3	630
Cordoba	500	LV2	920
	350	LV3	620
LaPlata	1500	LP9	1430
Las Heras	350	LV10	860
Mar del Plata	50	LU6	1380
Mendoza	170	LT4	760
Punta Alta	200	LU7	1280
Rosario	4500	LT1	780
	250	LT3	1080
	350	LT8	840
	500	LV9	900
	100	LT9	1060
San Juan	1500	LV1	730
	500	LV5	1120
Santa Fe	100	LT10	1390
Tucuman	200	LV7	820

### BOLIVIA

La Paz	1000	CPX	1350
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### BRAZIL

Curitiba	8	PRAN	789
Franka	50	PRAZ	1110
Juiz de Fora	200	PRAJ	789
Mogy das Cruzes	50	PRAY	789
Pelotas	50	PRAD	920
Pernambuco	300	PRAP	967
Porto Alegre	3000	PRAG	706
Ribeirao Preto	10	PRAI	857
Rio de Janeiro	2000	PRAA	750
	500	PRAB	937
	500	PRAC	857
	500	PRAK	1153
	2000	PRAX	1364
Sao Paulo	1000	PRAE	921
	500	PRAR	1006
	1000	.....	1284

### CHILE

Rancagua	10	.....	1239
	10	.....	1388
Santiago	1000	CE62	625
	1000	CE70	705
	1000	CE74	745
	1000	CE78	785
	1000	CE82	825
	1000	CE86	865
	1000	CE90	905
	1000	CE94	945
	1000	CE98	980
	100	CE102	1025
	250	.....	985
	.....	.....	1105
	100	.....	1145
	100	.....	1185
	100	.....	1225

### CHILE

Valparaíso	20	.....	1265
	20	.....	1305
	100	.....	1345
	100	CE88	880
	50	.....	785
	20	.....	1045
	20	.....	1153
	50	.....	1249

### COLOMBIA

Bogota	2000	HJN	690
	20	HJ3ABD	881

### PARAGUAY

Asuncion	1000	ZP1	1135
	300	ZP3	1000
	150	ZP4	1275
	150	ZP5	1465

### PERU

Lima	5000	OAX	790
	12	OA4M	1428

### URUGUAY

Montevideo	1000	CX6	850
	1000	CX10	730
	500	CX12	770
	1000	CX14	810
	.....	CX16	850
	250	CX18	890
	2000	CX20	930
	250	CX22	970
	1000	CX24	1010
	2000	CX26	1050
	250	CX30	1130
	200	CX32	1170
	500	CX34	1210
	250	CX36	1250
	100	CX38	1290
	100	CX40	1330
	500	CX42	1370
	20	CX44	1410
	100	CX46	1450
	50	CX48	1490
	30	CW40	1340
	30	CW44	1420
	30	CW32	1180
	50	CW34	1220
	30	CW36	1260
	30	CW38	1300
	30	CW30	1140
	20	CW46	1460

### VENEZUELA

Caracas	5000	YVIBC	960
	100	YV2BC	882
	50	YV3BC	1200

## EUROPE

### AUSTRIA

Graz	7000	.....	852
Innsbruck	500	.....	1058
Klagenfurt	500	.....	662
Linz	500	.....	1220
Salszburg	500	.....	1373
Vienna	15000	.....	581
.....	.....	.....	780

### BELGIUM

Antwerp	50	ON4EB	1455
Brussels	100	ON4FO	1219
	100	ON4GT	1375
	3600	ON4RB	589
	100	ON4RC	1448
	15000	No. 1	590
	15000	No. 2	887
	200	ON4CE	1388
	25	ON4FG	1453
	400	ON4RG	1219
Chatelineau	.....	.....	.....
Dampremy	.....	.....	.....
Ghent	.....	.....	.....

# INDEX BY COUNTRIES AND CITIES

Liege	200	ON4RW	1219	Freiburg	250	.....	527
	.....	.....	1236	Gleiwitz	14000	.....	1184
Ottomont	100	ON4EX	1388	Hamburg	1500	.....	806
Verviers	100	ON4CE	1455	Hanover	250	.....	530

### BULGARIA

Sofia	1000	.....	941	Heilsberg	60000	.....	1085
	.....	.....	.....	Kaiserslautern	1500	.....	536

### CZECHOSLOVAKIA

Bratislava	14000	OKR	1075	Kiel	250	.....	1292
Brno	36000	OKB	878	Konigsberg	500	.....	1085
Kosice	2600	OKK	1022	Langenberg	60000	.....	1382
Moravsko-Ostrava	11000	.....	1137	Leipzig	120000	.....	635
Praha	120000	OKP	614	Magdeburg	500	.....	770
	.....	.....	.....	Munich	60000	.....	1058

### DANZIG

Danzig	500	.....	662	Nurnberg	2000	.....	563
	.....	.....	.....	Stettin	500	.....	1256
	.....	.....	.....	Stuttgart	60000	.....	1058
	.....	.....	.....	Trier	2000	.....	832

### DENMARK

Copenhagen	750	.....	1067	Aberdeen	1000	.....	1400
Kalundborg	7500	.....	1153	Bournemouth	1000	.....	1040

### ESTONIA

Tallinn	11000	.....	1004	Cardiff	1000	.....	968
Tartu	500	.....	644	Falkirk	50000	SN	1040
	2200	.....	735		50000	SR	797

### FINLAND

Bjorneborg	500	.....	662	London	50000	LN	1147
Helsinki	10000	OFA	815		50000	LR	843
Jacobstad	2500	OFC	960		25000	MR	752
Pori	500	OFD	622	Manchester	50000	NN	998
Tampere	700	.....	540		50000	NR	625
Tammarsfors	1000	OFE	536	Newcastle	1000	.....	1420
Turku	600	OFG	1220	Plymouth	200	.....	1373
Viborg	13200	OFH	1031	Swansea	120	.....	1220

### FRANCE

Angers	250	.....	1091	Thesalonik	.....	.....	1110
Beziers	1500	.....	1250		.....	.....	.....
	1500	.....	1364	Amsterdam	6400	PH9	1013
Blarritz	250	.....	1515	Bloemendaal	.....	.....	1220
Bordeaux	13000	.....	986	Hague	350	.....	1000
	3000	.....	1265	Hilversum	20000	PFBI	1013

Caen	200	.....	1080		.....	.....	.....
Fecamp	10000	.....	1328	HUNGARY	.....	.....	.....
Grenoble	2000	.....	530	Budapest	1200	HAE2	1430
Juan-les-Pins	800	.....	1205		20000	HAL2	545
Lille	1300	.....	1130	Magyarovar	3000	HAE2	1428
Limoges	700	.....	1022		.....	.....	.....
Lyon	3000	YN	644	ICELAND	.....	.....	.....

Marseilles	500	YR	1030	Reykjavik	500	TFA	1200
Mont-de-Marsan	2500	.....	950		.....	.....	.....
Montpellier	250	.....	750	IRELAND	.....	.....	.....
Nimes	800	.....	1049	Athlone	60000	.....	725
	500	.....	1250	Belfast	1000	.....	1238

Paris	1000	FPTT	671	Cork	1500	6CK	1337
	1500	F8GC	825	Dublin	1500	2RN	725
	1200	LL	810		1200	.....	725
	60000	PP	914		.....	.....	.....

Radio-Agen	500	.....	662	ITALY	.....	.....	.....
Rennes	1300	.....	1103	Bari	20000	IIBA	1112
Rheims	500	.....	777	Bolzano	1000	IIBZ	815
St. Etienne	250	.....	1364	Firenze	20000	IFI	598
Strasbourg	6000	SPTT	867	Genoa	10000	IGE	959

Toulon	500	.....	1200	Milan	50000	IMI	905
Toulouse	1500	MRD	1175	Naples	1500	INA	941
	8000	.....	779	Palermo	3000	IPA	558
	.....	.....	.....	Rome	50000	IIRO	680
	.....	.....	.....	Trieste	10000	IITR	1211

### GERMANY

Augsburg	250	.....	536	Turin	7000	IITO	1096
Berlin	1500	.....	715		.....	.....	.....
	500	.....	1058	LATVIA	.....	.....	.....
Bremen	250	.....	950	Madonna	15000	.....	667
	250	.....	1112	Riga	15000	YLZ	571

Breslau	60000	.....	923		10000	.....	1510
Cassel	250	.....	1220		.....	.....	.....
Dresden	2500	.....	941	LUXEMBURG	.....	.....	.....
Flensburg	500	.....	1319	Luxemburg	10000	LOAA	1344
Frankfurt-am-Main	17000	.....	1157		.....	.....	.....

# INDEX BY COUNTRIES AND CITIES

## NORWAY

Aalesund	350	LKA	671
Bergen	1000	LKB	824
Bodo	500	LKD	662
Fredrikstad	700	LKF	815
	700		820
Hamar	700	LKH	536
	700		522
Kristianssand	500	LKK	1274
Notodden	50	LKN	671
Oslo	60000	LKO	1083
Porsgrund	700	LKP	662
Rjukan	180	LKR	671
Stavanger	500	LKS	1247
Tromsø	110	LKM	662
Trondelag	1200	LKT	608
Trondheim	1200		605

## POLAND

Cracow	1500		959
Katowice	16000		734
Lodz	2000		1283
Lwow	16000		788
Poznan	1900		896
	1500		1098
Wilno	16000		533

## PORTUGAL

Lisbon	2000	CT1AA	1056
	10	CT1AN	1056
	50	CT1BM	1056
	150	CT1BO	936
	50	CT1BP	1275
	10	CT1DH	952
	10	CT1DS	1058
	50	CT1EB	1056
	50	CT1GK	1062
	150	CT1GL	885
Oliveira de Azmeis	250		1304
Oporto	1000	CSIRS	1448
	1500	PRPI	1249
Paredes	1500		696

## RUMANIA

Bucharest	12000		761
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## SPAIN

Almeria	1000	EAJ18	1193
Barcelona	8000	EAJ1	860
	1000	EAJ15	1193
Cadiz	5500		896
Cartagena	400		1220
Madrid	750	EAJ2	708
	2000	EAJ7	707
Oviedo	700	EAJ19	1121
Salamanca	1000	EAJ22	662
San Sebastian	600	EAJ8	662
Seville	1500	EAJ5	815
Valencia	1500	EAJ3	1121

## SWEDEN

Boden	600	SBE	1245
Boras	150	SCA	1450
Eskestuna	200	SCB	1220
Falun	500	SCC	977
Goteborg	10000	SBB	932
Gavle	200	SCE	1470
Halmstad	200	SCE	1391
Helsingborg	200	SCG	1346
	200		1301
Horby	10000	SBH	1166
Hudiksvall	150	SCF	1355
Jonkoping	250	SCH	1490
Kalmar	200	SCI	1202
Karlstad	250	SCK	1382
Kiruna	200	SCL	1220
Kristinehamn	250	SCM	1480
Malmberget	250	SCN	689

Malmö	1250	SBC	1301
Norrköping	250	SCO	1301
	250		1292
Orebro	200	SCV	1265
Ornskoldsvik	200	SCW	1460
Ostersund	600	SBF	747
Saffle	400	SCP	1220
Stockholm	75000	SBA	689
Sundsvall	10000	SBD	554
Trollhattan	2500	SCQ	1301
	250		1193
Uddevalla	50	SCR	1301
Umea	200	SCS	1310
Uppsala	150	SCT	662
Varberg	300	SCU	1220

## SWITZERLAND

Basle	500		1229
Berne	500		1220
Beromunster	60000		653
Sottens	25000		743

## U. S. S. R.

Alexandrovsk	1200	RW38	580
Astrakhan	10000	RW35	589
Dnepropetrovsk	3000	RW30	869
Engels	1000	RW35	959
Gomel	1000	RW40	621
Gorki	10000	RW42	598
Groznyi	1200	RW23	676
Ijevsk	4000	RW69	825
Ivanovo-Voznesensk	10000	RW31	625
Karaganda	10000	RW46	653
	1200	RW46	686.5
Kazan	10000	RW17	644
Kharkov	10000	RW20	815
Krasnodar	1000	RW33	650
Leningrad	10000	RW70	860
Magnitogorsk	10000		571
Makhatch-Kala	1200	RW27	689
	120000		563
Moskva	1000	RW37	792.5
Moskva Imeni Stalina	100000	RW39	707
Mourmansk	10000		743
Naltchik	1200	RW51	748.1
Nijni-Novgorod	10000		598
Odessa	10000	RW13	662
Oufa	10000	RW22	617
Penza	1200	RW56	640
Simferopol	4000	RW52	630.2
	10000	RW52	725
Smolensk	2000	RW24	531
Stalino	10000	RW26	779
Syktyvkar	1200	RW41	563
Tcheboksary	1200	RW74	680
Tcheliabinsk	1500	RW68	824
Tiraspol	4000	RW57	838
Tomsk	1200	RW48	554
Vinnitza	10000	RW75	968
Vladikavkaz	10000	RW64	752
Vladivostok	700	RW28	635
	10000	RW28	725

## YUGOSLAVIA

Belgrade	2800		697
Ljubljana	7000		522
Zagreb	750		977

## ASIA

### CEYLON

Colombo	1750		600
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### CHINA

Canton	1000	CMB	681.4
Hangchow	1000	XGOD	973.4
Hong Kong	12000	ZBW	845
Loyang	250	XGOB	1090

# INDEX BY COUNTRIES AND CITIES

Nanking	15000	XGOA	681.4
Peiping	100	XOPP	951.8
Tientsin	500	XOTN	624.6

## FORMOSA

Taihoku	10000	JFAK	670
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## INDIA

Bombay	3000	VUB	840
Calcutta	3000	VUC	810
Lahore	100	VUL	882
Madras	200	VUM	770
Rangoon	350	2HZ	857

## INDO-CHINA

Saigon	12000	F31CD	840
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## JAPAN

Akita	300	JOUK	645
Asahikawa	300	JOCC	655
Fukui	300	JOFG	990
Fukuoka	500	JOLK	680
Hakodate	500	JOVK	680
Hamamatsu	500	JODG	635
Hiroshima	10000	JOFK	850
Kanazawa	3000	JOJK	710
Kochi	500	JORK	720
Kokura	1000	JOSK	735
Kumamoto	10000	JOJK	790
Kyoto	300	JOOK	960
Maebashi	500	JOBG	970
Matsuy	500	JOTK	625
Nagano	500	JONK	940
Nagasaki	500	JOAG	930
Nagoya	10000	JOCK-1	810
	10000	JOCK-2	1175
Niigata	500	JOJK	920
Osaka	500	JOJK	700
	10000	JOBK-1	750
	10000	JOBK-2	1085
Sapporo	10000	JOIK	830
Senda	10000	JOHK	770
Shizuoka	500	JOPK	780
Tainan	1000	JFBK	720
Tokushima	500	JOXK	980
Tokyo	10000	JOAK-1	870
	10000	JOAK-2	590

## KOREA

Keijo	1000	JODK-1	690
	10000	JODK-2	900

## MANCHURIA

Dairen	500	JOAK	645
	1000	JOAK	760
Hoten	1500	ZILY	900

## SIAM

Bangkok	2500	HSPI	857
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## AFRICA

Algiers	13000		824
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## EGYPT

Alexandria	200		780
	500		1080
Cairo	500		710
	300		780
Port Said	500		1080

## KENYA

Nairobi	1000	VQZLO	750
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## MOROCCO

Casablanca	25	CNO	983
Rabat	6000		721

## TUNISIA

Tunis	500	TUA	1275
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## UNION OF SOUTH AFRICA

Bloemfontaine	750	ZTB	588
Cape Town	1000	ZTC	810
Durban	1000	ZTD	731
Johannesburg	15000	ZTJ	667
Pretoria	50	ZTP	1000

## OCEANIA

### AUSTRALIA

Adelaide	300	SAD	1310
	5000	SCL	730
	1000	SDN	960
	300	SKA	1200
Albury	50	2AY	1480
Ballarat	50	3BA	1300
Bendigo	200	3BO	970
Brisbane	600	4BC	1145
	600	4BH	1380
	200	4BK	1290
	5000	4QG	760
Canberra	50	2CA	1050
Corowa	7500	2CO	560
Crystal Brook	7500	5CK	635
Geelong	50	3GL	1400
Goulburn	50	2GN	1390
Gunnedah	50	2MO	1320
Hamilton	200	3HA	1010
Hobart	50	7HO	890
	3000	7ZL	580
Kalgoorlie	100	6KG	1220
Launceston	200	7LA	1100
Lismore	50	2XN	1340
Mackay	100	4MK	1190
Maryborough	50	4MB	1060
Melbourne	50	3AK	1500
	5000	3AR	610
	300	3AW	1425
	500	3DB	1180
	200	3KZ	1350
	5000	3LO	800
	500	3UZ	930
	25	3YB	1145
Newcastle	200	2HD	1110
	200	2KO	1415
	2000	2NC	1245
Perth	300	6ML	1135
	200	6PR	880
	5000	6WF	690
Port Pirie	50	5PI	1041
Rockhampton	2000	4RK	910
	250	4RO	1330
	50	3TR	1280
Sale	50	3SH	1080
Swan Hill	50	3SH	1080
Sydney	5000	2BL	855
	1000	2CH	1210
	5000	2FC	665
	3000	2GB	950
	1500	2KY	1070
	1000	2SM	1270
	1000	2UE	1025
	1500	2UW	1125
Toowoomba	50	4GR	1000
Townsville	100	4TO	1170
Ulverstone	200	7UV	1465
Wagga	50	2WG	1155
Wangaratta	50	3WR	1260
Woolongong	50	2WL	1435

NEW ZEALAND			
Auckland	500	1YA	820
	20	1ZB	1420
	26	1ZJ	1320
	10	1ZM	1260
	25	1ZQ	1190
Christchurch	80	1ZR	1090
	5	1ZS	1420
	500	3YA	980
	250	3ZC	1200
	100	3ZM	1450
Dunedin	500	4YA	650
	20	4ZB	1080
	10	4ZF	1080
	100	4ZL	1220
	45	4ZM	1080
Eketahuna	40	4ZO	1080
	50	4ZW	1080
	10	2ZE	1210
	75	2ZJ	1150
Greymouth	110	2ZM	1150
	45	3ZE	1300
	80	3ZR	1300
	45	1ZH	630
	15	2ZI	1330
Hamilton	20	2ZL	1400
	8	4ZI	1160
	125	4ZP	1160
	7.5	2ZB	1290
	65	2ZH	1290
Hastings	50	2ZR	1360
	100	2YB	1230
	20	4ZC	1280
	5	4ZR	1340
	150	2ZF	1050
Invercargill	200	2ZO	1050
	105	2ZP	900
	120	2ZK	600
	5000	2YA	720
	400	2ZW	1120
Napier			
Nelson			
New Plymouth			
Otago			
Palmerston North			
Wairoa			
Wanganui			
Wellington			

## One Hundred Best Short Wave Stations

### By Frequencies and Wave Lengths

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

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

September: Foreign stations arranged by countries.

November: American stations by states.

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

April: Complete list by frequencies and waves.

Stations marked with an asterisk (\*) will not verify.

Broadcast B. Phone P.			
4.174	71.82	British Ships	P
4.174	71.82	German Ships	P
4.283	70.00	Italian Ships	P
4.513	66.43	VPN, Nassau, Bahamas, Phones Hialeah	P
4.753	63.08	*WOO, Ocean Gate, N. J. Phones Ships	P
5.045	59.42	*VRT-ZFA Hamilton, Bermuda. Phones	P
5.766	52.00	WNB-GMBJ nights	P
5.879	51.00	XAM Merida, Yucatan. Tests XDA 10 a.m.-8 p.m. irreg.	P
5.925	50.60	*XDA Mexico City. Tests XAM 10 a.m.-8 p.m. irreg.	P
5.996	50.00	HJ4ABE, Medellin, Colombia. Mon., Wed., Fri., 7:30 to 10:30 p.m.; Tues., Thurs., Sat., Sun., 6-8 p.m.	B
6.005	49.93	RV59, Moscow, USSR. 3-6 p.m.	B
6.017	49.83	HJ1ABB Barranquilla Colombia. 8-10 p.m.	B
6.040	49.64	VE9DR, Montreal, Quebec. Daily, 7:30 a.m.-mid. Sunday, noon-11 p.m.	B
6.050	49.56	DJC, Zeelen, Germany	B
6.057	49.50	WIXAL, Boston, Mass. Irregular	B
6.070	49.39	GSA, Daventry, England. To Canada 6-8 p.m.	B
6.090	49.23	W3XAU, Philadelphia, Pa., irreg.	B
6.092	49.22	VE9CS, Vancouver, B. C., Fri. 12:30-1:45 a.m.; noon to mid.	B
6.095	49.18	VE9BJ, St. John, N. B., 5 p.m. and 11 p.m.	B
6.096	49.17	VE9GW, Bowmanville, Ont. 11 a.m.-3 p.m.; Sun., 7-8 p.m.	B
6.116	49.02	W9XF, Chicago, Ill., 4:30-8 p.m.; 9:30 p.m.-2 a.m.	B
6.119	49.00	W3XAL, Boundbrook, N. J., Sat. 4:30 p.m.-1 a.m.	B
6.121	48.98	W2XE, Wayne, N. J., 6-11 p.m.	B
		YV1BC, Caracas, Venz. Relays 980 kcs. 10:30 a.m.-1 p.m.; 5:15-10 p.m.	B
		VE9HX, Halifax, N. S. Sat. and Sun., 5:30-10:30 p.m.	B
6.140	48.83	W8XX, Pittsburgh, Pa. Relays KDKA 4-11 p.m.	B
6.246	48.00	*HJ3ABF, Bogota, Colombia, 8-11 p.m.	B
6.272	47.80	H11A, Santiago de los Caballeros, S. Domingo, 1:40-4:40 p.m., Sunday	B
6.378	47.00	*HJ5ABB, Cali, Colombia	B
6.618	45.31	PRADO, Riobamba, Ecuador, Thur. 9-11 p.m.	B
6.618	45.30	WVD, Seattle, Wash. Phones Ketchikan, night	P
6.662	45.00	WXH, Ketchikan, Alaska. Phones Seattle, night	P
6.675	44.91	DGK, Nauhen, Germany. Heard 9 p.m. with WEJ	P
6.752	44.41	*WAO, Lawrenceville, N. J. Phones Eng-land	P
6.888	43.54	*KEQ, Kahuku, Hawaii. Phones Cali-fornia nights	P
7.139	42.00	HJ4ABB, Nanizales, Colombia, Sat. 10 p.m.-mid.	B
7.396	40.54	*WEM, Rocky Point, N. Y.	P
7.402	40.50	*HJ3ABD, Bogota, Colombia. 9-11 p.m., daily	B
7.495	40.16	*HJP, Bogota, Colombia. Phones Hialeah	P
7.518	39.89	*KDK-KKH, Kahuku, Hawaii, 9 p.m. and 2 a.m.	P
7.562	39.65	*KWY, Dixon, Calif. Phones Hawaii and Manila	P
7.605	39.42	*KWX, Dixon, Calif. Phones Hawaii and Manila	P
7.685	39.01	TIR, Cartago, Costa Rica. Phones Hialeah	P
7.790	38.49	HBP, Geneva, Switzerland, Sun. 5-5:45 p.m.	B
8.103	37.00	HCB, Quito, Ecuador, 7:30-9:45 p.m. Except Monday.	B
8.328	36.00	German Ships	P
8.464	35.42	DAF, Norden, Germany. Phones Ships	P
8.562	35.02	*WOO, Ocean Gate, N. J. Phones Ships	P

8.566	35.00	Italian Ships	P
8.581	33.95	British Ships	P
9.012	33.27	*KEJ, Bolinas, Calif. Tests irregularly	P
9.273	32.33	GCB, Rugby, England. Phones Canada nights	P
9.290	32.27	Rabat, Morocco. Sun., 2:30-5 p.m.	B
9.340	32.10	CGA, Drummondville, Quebec. Phones England, nights	P
9.410	31.86	PLV, Bandoeng, Java. Irregular	P
9.480	31.63	PLW, Bandoeng, Java. Phones Australia 3-8 a.m. irreg.	P
9.500	31.56	YV3BC, Caracas, Venezuela. 4:30-10 p.m.; Sun., 7:30-9:30 p.m.	B
9.503	31.55	VK3ME, Melbourne, Australia. Wed., 5-6:30 a.m.; Sat., 5-7 a.m.	B
9.510	31.53	GSB, Daventry, England. To S. Africa 1-5:30 p.m. To Canada 6-8 p.m.	B
9.520	31.49	OXY, Skamleback, Denmark, 2-6:30 p.m.	B
9.530	31.46	W2XAF, Schenectady, N. Y., 7 to 11 p.m.	B
9.552	31.38	DJA, Zeecon, Germany, 2 p.m.-6:30 p.m.	B
9.560	31.36	W1XAZ, Springfield, Mass., 7 a.m.-1 a.m.	B
9.580	31.30	HLB, Geneva, Switzerland, Sun., 5-5:45 p.m.	B
9.585	31.28	GSC, Daventry, England, 4:30-6:30 a.m.; 8:30 a.m.-12:30 p.m.; 1-5:30 p.m.; 6-8 p.m.	B
9.585	31.28	W3XAU, Philadelphia, Pa., irregular	B
9.585	31.28	VK2ME, Sydney, Australia. Sun., 12-2 a.m.; 5-9 a.m.; 11:30 a.m.-1:30 p.m.	B
9.592	31.25	CT1AA, Lisbon, Portugal. Tues.-Fri., 5-7 p.m.	B
9.67	31.00	TIANRH, Heredia, Costa Rica. Daily, 5:30-6:30 p.m.	B
9.702	30.90	LQA, Buenos Aires, Argentina.	P
9.862	30.40	EAQ, Madrid, Spain. 5:30-7 p.m.	B
9.895	30.30	LSN, Buenos Aires, Argentina, 8 p.m. and 6 a.m.	B
9.990	30.01	KAZ, Manila, P. I. 3-7 a.m.	P
10.060	29.80	*VRT-ZFB, Hamilton, Bermuda. Phones WNB days	P
10.163	29.50	German Ships	P
10.212	29.35	PSH, Rio de Janeiro, Brazil. Tests W2XBJ evenings	P
10.246	29.26	DIQ, Nauen, Germany	B
10.520	28.50	VK2ME, Sydney, Australia. Irreg.	P
10.830	27.68	*KWV, Dixon, Calif. Phones Hawaii and Manila	P
11.530	26.00	XAM, Merida, Yucatan	P
11.710	25.60	VE9JR, Winnipeg, Manitoba. Tues., 5:30-8:30 p.m.; Fri., to 9 p.m.	B
11.710	25.60	Pontoise, France. 4 p.m.	B
11.725	25.57	PHOH, Eindhoven, Holland	B
11.750	25.51	GSD, Daventry, England. To Oceania 4:30-6:30 a.m.; 1-5:30 p.m.	B
11.753	25.51	DJD, Koenigswusterhausen, Germany. 1-6 p.m.	B
11.760	25.50	*XDA, Mexico City. Tests XAM 1 p.m. and 6 p.m.	P
11.800	25.40	IZRO, Rome, Italy. 11 a.m.-12:30 p.m.; 1-6 p.m.	B
11.823	25.30	W2XE, Wayne, N. J. 3-5 p.m.	B
11.865	25.27	GSE, Daventry, England. To India 8:30 a.m.-12:30 p.m.	B
11.872	25.25	W8XX, Pittsburgh, Pa. Relays KDKA 4-10 p.m.	B
11.898	25.20	Pontoise, France. 11:30 a.m.-2:30 p.m.	B
12.148	24.68	GBS, Rugby, England. Phones N. Y. afternoon	P
12.241	24.41	GBU, Rugby, England. Phones N. Y. nights	P
12.394	24.19	DAF, Norden, Germany. Phones Ships	P
12.820	23.38	CNR, Rabat, Morocco. Sun., 7:30 a.m.-9 a.m.	B
12.839	23.36	WOO, Ocean Gate, N. J. Phones Ships	P
13.035	23.00	German Ships	P
13.219	22.68	British Ships	P
13.296	22.55	CGA, Drummondville, Que. 9 a.m.-2 p.m.	P
13.337	22.48	*YVQ, Maracay, Venezuela. Phones Hialeah, days	P
13.500	22.09	GBB, Rugby, England. Talks Canada daytimes	P
13.816	21.70	SUZ, Cairo, Egypt. 7 a.m. and 3:30 p.m.	P
14.450	20.75	GBW, Rugby, England. 6 a.m. and 6 p.m.	P
14.480	20.70	YMA, Managua, Nicaragua. Phones Hialeah, days	P
14.545	20.69	TIR, Cartago, Costa Rica. Phones Hialeah, days	P
14.545	20.69	RXF, Panama City, Panama. Phones Hialeah, days	P
14.930	20.08	TGA, Guatemala City, Guatemala. Phones Hialeah, days	P
14.980	20.01	*HJB, Bogota, Colombia. Phones Hialeah, days	P
15.055	19.91	KAY, Manila, P. I. 3-7 a.m.	P
15.120	19.83	*WNC, Hialeah, Florida. Phones Pan-American stations, days	P
15.140	19.81	HVJ, Vatican City. 10-10:30 a.m.	B
15.190	19.73	GSF, Daventry, England. 4:30-6:30 a.m. 1-5:30 p.m.; 6-8 p.m.	B
15.204	19.72	DJB, Zeelen, Germany. 8 a.m.-noon	B
15.234	19.68	W8XX Pittsburgh, Pa. Relays KDKA 9 a.m.-4 p.m.	B
15.258	19.65	Pontoise, France. 8 a.m.-11 a.m.	B
15.320	19.57	W2XE, Wayne, N. J. 11 a.m.-1 p.m.	B
15.320	19.57	W2XAD, Schenectady, N. Y. Daily 1-3 p.m.; Sat.-Sun., to 4	B
15.410	19.46	*KWO, Dixon, Calif. Phones Hawaii 2-7 p.m.	P
15.863	18.91	FTK, Ste. Assise, France. Phones Saigon, mornings	P
16.024	18.70	*KKP-KKU, Kahuku, Hawaii. Phones Dixon, days	P
17.512	17.12	DFB, Nauen, Germany. Phones Venezuela, mornings	P
17.770	16.90	GSQ, Daventry, England. To India 9:30-11:30 a.m.	B
17.761	16.88	PHI, Huizen, Holland. 5:40-11:40 a.m.	B
17.772	16.87	DJE, Koenigswusterhausen, Germany B	B
17.830	16.82	W3XAL, Boundbrook, N. J. 8 a.m.-4 p.m.	B
18.116	16.55	PCV, Kootwijk, Holland. 6-9 a.m.	P
18.116	16.55	LSY, Buenos Aires, Argentina	P
18.296	16.39	*YVR, Maracay, Venezuela. Heard about 10 a.m.	P
18.444	16.25	*HJY, Bogota, Colombia. 11 a.m. and 4 p.m.	P
18.611	16.11	GAU, Rugby, England. Phones N. Y., days	P
18.670	16.06	*OCI, Lima, Peru. 2 p.m.	P
18.820	15.93	PLE, Bandoeng, Java. Tues.-Fri., 5:40-10:40 a.m.	P
18.856	15.90	ZSS, Capetown, South Africa. Phones Rondon, mornings	P
18.958	15.82	LSR, Buenos Aires, Arg. 11 a.m. and 4 p.m.	P
19.282	15.55	FTM, St. Assise, France. 10 a.m.-2 p.m.	P
19.678	15.24	*CEC, Santiago, Chile. 11 a.m. and 4 p.m.	P
19.684	15.23	EAQ, Madrid, Spain. Phones	P
19.895	15.07	LSG, Buenos Aires, Argentina. 10:30 a.m.-3:30 p.m.	P
21.020	14.27	LSN, Buenos Aires, Argentina. 8 a.m. and 4 p.m.	P
21.054	14.24	*WKA, Lawrenceville, N. J. 8 a.m.-4 p.m.	P
21.069	14.23	PSA, Rio de Janeiro, Brazil. 8 a.m.	P
21.400	14.01	*WKK, Lawrenceville, N. J. 8 a.m.-4 p.m.	P
21.470	13.96	GSH, Daventry, England	B
21.451	13.93	W8XX, Pittsburgh, Pa. 9 a.m.-2 p.m.	B



## The Hundred Best S. W. Stations by Calls . . .

British Ships	P	GSE Daventry, England	B	LSN Buenos Aires, Arg.	P
13.219 22.68		11.865 25.27	Broadcasts for India	8.995 30.30 6 p.m.-6 a.m.	
8.831 33.95			8:30 a.m.-12:30 p.m.	21.020 14.27 8 a.m.-4 p.m.	
4.174 71.82				LSR Buenos Aires, Arg.	P
*CEC Santiago, Chile	P	GSF Daventry, England	B	18.958 15.82 11 a.m.-4 p.m.	
19.678 15.24 11 a.m.-4 p.m.		15.140 19.81 4:30-6:30 a.m.; 1-		LSY Buenos Aires, Arg.	P
CGA Drummondville, Que.	P		5:30 p.m.; 6-8	18.116 16.55	
13.296 22.55 9 a.m. to 2 p.m.				*OCI Lima, Peru	P
9.340 32.10 Nights		GSG Daventry, England	B	18.670 16.06 2 p.m.	
CNR Rabat, Morocco	P	17.770 16.90	Broadcasts for India	OXY Skamleback, Denmark	B
12.820 23.38			9:30-11:30 a.m.	9.520 31.49 2-6:30 p.m.	
CTIAA Lisbon, Portugal	P	GSH Daventry, England	B	PCV Kootwijk, Holland	P
9.592 31.25 Tues.-Fri. 5-7 p.m.		21.470 13.96		17.830 16.82 6-9 a.m.	
DAF Norden, Germany	P	HBH Geneva, Switzerland	B	PHI Huizen, Holland	B
17.260 17.37 Talks to Ships		9.580 31.30 Sun. 5-5:45 p.m.		17.761 16.88 Irregular	
12.394 24.19		HBP Geneva, Switzerland	B	PHOHI Huizen, Holland	B
8.464 35.42		7.790 38.49 Sun. 5-5:45 p.m.		11.725 25.57	
DFB Nauen, Germany	P	HCBY Quito, Ecuador	B	PLF Bandoeng, Java	P
17.512 17.12 Phones YVQ		8.103 37.0	7:30-9:45 p.m.; except Monday	18.820 15.93 Tues., Fri., 5:40-10:40 a.m.	
DGK Nauen, Germany	P	HIIA Santiago de los Caballeros, Santo Domingo	B	PLV Bandoeng, Java	P
6.675 44.91		6.272 47.80 1:40-4:40 p.m., Sun.		PLW Bandoeng, Java	P
DIQ Nauen, Germany	B	*HJB Bogota, Colombia	P	9.480 31.63	
10.246 29.26		14.930 20.08		Pontoise, France	B
DJA Zeelen, Germany	B	*HJP Bogota, Colombia	P	15.234 19.68 8-11 a.m.	
9.552 31.38 2 p.m.-6:30		7.465 40.16		11.898 25.20 11:30 a.m.-2:30 p.m.	
DJB Zeelen, Germany	B	*HJY Bogota, Colombia	P	11.710 25.60 4-7 p.m.	
15.190 19.73 8 a.m.-noon		18.444 16.25 11 a.m.-4 p.m.		PRADO Riobamba, Ecuador	B
DJC Zeelen, Germany	B	HJABB Barranquilla, Colombia	B	6.618 45.31 Thurs., 9-11 p.m.	
6.017 49.83 Irregular		5.998 50.0 8-10 p.m.		PSA Rio de Janeiro, Brazil	P
DJD Zeelen, Germany	B	*HJABD Bogota, Colombia	B	21.069 14.23 8 a.m.	
11.753 25.51		7.402 40.50 9-11:15 p.m.		PSH Rio de Janeiro, Brazil	P
DJE Zeelen, Germany	B	*HJABF Bogota, Colombia	B	10.212 29.35	
EAQ Madrid, Spain	P	6.246 48.00 8-11 p.m.		Rabat, Morocco	B
9.862 30.40 5:30-7 p.m.; Sat. 1-3 p.m.		HJABB Manizales, Colombia	B	9.290 32.27 Sun., 3-5 p.m.	
19.684 15.23 Phones		7.139 42.00 Sat. 10 p.m.-mid.		RAU Tashkent, USSR	P
FTK Ste. Assise, France	P	HJABE Medellin, Colombia	B	15.104 19.85 Phones Moscow	B
15.863 18.90 Phones Saigon		5.925 50.60 Mon., Wed., Fri., 7:30-10:30 p.m.; Tues., Thurs., Sat. and Sun., 6-8 p.m.		RV59 Moscow, USSR	B
FTM Ste. Assise, France	P			5.996 50.0 3-7 p.m.	
19.282 15.55 10 a.m.-2 p.m.		HJ5ABB Cali, Colombia	B	*RXF Panama City, Panama	P
German Ships	P	6.378 47.00		14.485 20.69	
13.035 23.00		HVJ Vatican City	B	SUZ Cairo, Egypt	P
10.163 29.50		15.120 19.83 10-10:30 a.m.		13.816 21.70 7 a.m.-3:30 p.m.	
8.328 36.00		I2RO Rome, Italy	B	TGA Guatemala City, Guatemala	P
4.174 71.82		11.800 25.40 11 a.m.-12:30 p.m.; 2:30-5:30 p.m.		14.545 20.69	
GAU Rugby, England	P	Italian Ships	P	TIR Cartago, Costa Rica	P
18.611 18.11 Phones N. Y., days		8.566 35.00		14.494 20.7	
GBB Rugby, England	P	4.283 70.00		7.685 39.01	
13.500 22.09		KAY Manila, P. I.	P	TI4NRH Heredia, Costa Rica	B
GBS Rugby, England	P	14.980 20.01		9.670 31.00 5:30-6:30 p.m.	
GBU Rugby, England	P	KAZ Manila, P. I.	P	VE9BJ St. John, N. B.	B
12.241 24.41 Phones N. Y., nights		9.990 30.01		6.090 49.23 5 p.m.-11 p.m.	
GBW Rugby, England	P	*KDK-KKH Kahuku, Hawaii	P	VE9CS Vancouver, B. C.	B
14.450 20.75 6 a.m.-6 p.m.		7.518 39.89 9 p.m.-2 a.m.		6.070 49.39 Daily 8-10 p.m.	
GCB Rugby, England	P	*KEJ Bolinas, Calif.	P	VE9DR Montreal, Que.	B
9.273 32.33 Phones Canada nights		9.012 33.27		6.005 49.93 7:30 a.m.-mid.; Sun. noon to 11:15 p.m.	
GSA Daventry, England	B	*KKP Kahuku, Hawaii	P	VE9GW Bowmansville, Ont.	B
6.050 49.50 Broadcasts for Canada 6-8 p.m.		16.024 18.71		6.092 49.22 11 a.m.-3 p.m.; Sun., 7-8 p.m.	
GSB Daventry, England	B	*KWO Dixon, Calif.	P	VE9HX Halifax, Nova Scotia	B
9.510 31.53 Broadcasts for South Africa 1:00-3:00 p.m.; West Africa 3:00-5:30 p.m.; Canada 6-8 p.m.		15.410 19.46 2-5 p.m.		6.121 48.98 Sat. and Sun., 5:30-10:30 p.m.	
GSC Daventry, England	P	*KWV Dixon, Calif.	P	VE9JR Winnipeg, Man.	B
9.585 31.28 4:30-6:30 a.m.; 8:30 a.m.-12:30 p.m.; 1-5:30 p.m.; 6-8 p.m.		10.830 27.68		11.710 25.00 Tues. 6:30-8:30 p.m. Fri. to 9.	
GSD Daventry, England	B	*KWY Dixon, Calif.	P	VK2ME Sydney, Australia	B
11.750 25.51 Broadcasts for Australasia 4:30-6:30 a.m.; 1-5:30 p.m.		7.562 39.65		19.520 28.50	
		LQA Buenos Aires, Argentina	P	9.585 31.28 Sun., 12-2 a.m.; 5-9 a.m.; 11:30 a.m. 1:30 p.m.	
		9.702 30.90		VK3ME Melbourne, Australia	B
		LSG Buenos Aires, Arg.	P	9.503 31.55 Wed. 5-6:30 a.m.; Sat. 5-7 a.m.	
		19.895 15.07 10:30 a.m.-3:30 p.m.			

VPN Nassau, Bahamas	P	W1XAZ Springfield, Mass.	B	W9XP Chicago, Ill.	B
4.508 66.50 Phones WNC		9.560 31.36 7:00 a.m.-1:00 a.m.		6.095 49.18 4:30-8 p.m.; 9:30-2 a.m.	
*VRT-ZFA Hamilton, Bermuda	P	W2XAD Schenectady, N. Y.	B	XAM Merida, Yucatan	P
5.045 59.42		15.320 19.57 Daily 1-3 p.m.; Sat., Sun. to 4.		5.786 52.00	
*VRT-ZFB Hamilton, Bermuda	P	W2XAF Schenectady, N. Y.	B	11.530 26.00	
10.060 29.80		9.530 31.46 Daily, 7-11 p.m.		*XDA Mexico City	P
*WEM Rocky Point, N. Y.	P	W2XE Wayne, N. J.	B	5.879 51.00	
7.396 40.54		15.258 19.65 11 a.m.-1 p.m.		11.760 25.50	
*WKA Lawrenceville, N. J.	P	11.823 25.36 3-5 p.m.		YMA Managua, Nicaragua	P
21.054 14.24 8 a.m.-4 p.m.		6.116 49.02 6-11 p.m.		14.480 20.70	
*WKK Lawrenceville, N. J.	P	W3XAL Boundbrook, N. J.	B	*YVQ Maracay, Venezuela	P
21.400 14.01 8 a.m.-4 p.m.		6.096 49.17 Sat. 4:30 p.m.-1 a.m.		13.337 22.48	
*WNC Hialeah, Florida	P	17.772 16.87 8 a.m.-4 p.m.		*YVR Maracay, Venezuela	P
15.051 19.92 Phones Pan-American stations		W3XAU Philadelphia, Pa.	B	18.296 16.39	
*WOO Ocean Gate, N. J.	P	9.585 31.28 Irregular		YVIBC Caracas, Venez.	B
12.839 23.36 Phones Ships		6.057 49.50		6.119 49.00 Relays 960 kos.; 10:30 a.m.-1 p.m.; 5:15-10 p.m.	
8.561 35.02		W8XX Pittsburgh, Pa.	B	YV3BC Caracas, Venezuela	B
4.749 63.13		6.140 48.83 Relays KDKA 4-11 p.m.		9.500 31.56 4:30-10 p.m.; Sun., 7:30-9:30 p.m.	
WVD Seattle, Wash.	P	11.872 25.25		ZSS Capetown South Africa	P
6.618 45.30		15.204 19.72 Relays KDKA 9 a.m.-4 p.m.		18.856 15.90 Phones London	
WXH Ketchikan, Alaska	P	6.040 49.64 Irregular			
6.682 45.00					
W1XAL Boston, Mass.	B				
6.040 49.64 Irregular					

## Stations Caught

(Continued from page 34)

grand superhet. I have stations in 42 states and D. of C. Also 21 in Canada, 8 in Mexico, and 3 in Cuba. I cannot understand why I have not as yet been able to receive stations outside of continental North America. Will some reader with a set like mine comment on their success along this line?"

"Just a note to let RADEX know how DXing is in Schenectady now," comments George B. Holland, Jr., 1340 Baker Ave., Schenectady, N. Y. "Pacific 100-wattors are coming in fine. Have KPCB, KJBS, CKWX, KERN, KGFJ, KWG, KFXM, with CKWX, KWG verified, and the others yet to be heard from. My set goes from 540 kcs. to 1725, and the following are my results: 540 to 1500 kcs., 568 with 283 verified; 1500 to 1725 kcs., 8 experimental with 3 verified, 76 amateurs with 13 verified, 18 police with one verified. Where is Z2BA? Heard him calling CQ at 3:37 a. m. EST February 1st. I can't locate anything like it in Call Book. Have had KGU the last two mornings but not good enough for a veri."

ZL2BA is an amateur in Welling-

ton, N. Z. Does anyone know of a Z2BA?

## HJN, Please Verify

"During the last ten months I have logged 275 stations on my 9-tube Radiola," remarks George W. Haskell, Box 58, So. Paris, Maine, "and have verifications from 206. I heard the much discussed HJN, Bogota, Colombia, program on the morning of December 17th and have written them two letters without response so far. I don't know as my record is anything remarkable, as I have logged the most of these stations in the evening, or early morning, and have not 'burned the midnight oil' to any great extent. Among my verifications I have WIOC, WIOD, CHNS, KFI, KNX, WDAE, CFCN, KPO, 10-BP, 10-BQ, CMCY, KTM, WEXL, WCOC, KGRS, WKAQ and WGST."

"Nothing exciting happened in the increasing of my log to 583 stations, nine of which have already been deleted," remarks Luther E. Grim, 505 S. Main St., Red Lion, Pa. "KDB, KXL, KLX, XEJ, KREG and KPJM are the only exceptionally good ones logged. I received my verification from VONF. If anyone else who lives more than 1000 miles from St. John's has logged and verified this

station, I'd like to hear from him or her. Doesn't look like the heavy static will help me boost my log to 600 before the end of April."

"My set is a 5-tube Lafayette, with a 100-foot aerial under the roof," advises Delbert C. Thomas, Triangle Fraternity, State College, Pa. "Have been DXing only a few months, having received my set in September, but so far have a b.c. log of 280 stations, including HJN and YV1BC. Have also received 10-BQ and 10-AK, with 10-BQ verified. Have received 11 California stations with four 500-watters. By transposing my aerial lead-in to the grid of the first detector tube, I can receive short-wave stations and have a log of 39 police and airport stations and 30 amateur stations. Not a bad log for only a few months."

#### His First Year

"This is my first year at DXing," says Kenneth Korstian, 2407 Club Blvd., Durham, N. C. "It began about January 1st. As I have done no DXing after about 11:00 p. m., I have only a list of 125 stations on the b. c. band and ten on the beginning of short wave up to 1750 kcys. My best catch was WAAW, a 500-watter, Omaha, Nebr. Another 500-watter that I can get easily is WCOC of Meridian, Miss. I would like to hear from someone on building a short-wave converter and a transmitter. I am using a Colonial 10-tube superhet."

"I am writing to tell you my results at DXing this season," says Charles Leboeuf, Box 222, North Grosvenordale, Conn. "I have been able to log 167 stations, making a total of 473. My best catches are: WKAQ, 10-BQ, VONF, CMJK, KGEK, HIX, HJN, and XEK, a 100-watt station in Mexico. All verified. I have also logged YV1BC and Poste Parisien, verifications on the way. Besides these stations I have logged and verified 46 states, North Dakota and Wyoming being the exceptions. I logged all 473 on an 8-tube Majestic Model 91."

"Well, I have boosted my log to 541 and 358 verified. My best verified include: 10-BQ, KGfJ, KERN, KJBS, KFXM, WGCN, CMCU, XEN, CHCK, WIBG, VONF, KDFN, KOB, KGEK, KGKL, KFXR, KGCR and CHLP," reports \*Clarence Burnham, 147 East Main St., Gloucester, Mass. "Have requests for verification out to YV1BC, WKAQ, CHCO, KLPM, WSVS, KOH, KGIR, CMJK, and KALE, which I consider good catches. Have also heard HHK, KGFI, KVL, KREG, and VOAS. On my log I have 164 100-watters or less, with 132 verified. Have 28 on the Pacific coast with 14 verified."

"Last night I logged my 800th station, and decided to celebrate by sending a line to RADEX, the thing that started me on this hobby of DXing in January, 1932," declares Ivor Nixon, 265 Pacific Ave., Toronto, Ont. "This total includes 439 shortwave stations (mostly amateurs) and 361 broadcast. The latter includes 35 2000-milers, and among them are such stations as CJOR, KGfJ, KFVD, KXL, KVL, KJBS, YV1BC, KERN, KWG and KPPC. This last I consider my best. The receiver is the same old one-peanut-tuber."

#### From an Arizona Airport

"I started in DXing about last December with a Majestic 11-tube pentode 307 model, which is a product of 1933, very new," comments Henry Castano, Yuma Airport, Yuma, Ariz. "This place where the field is located is about six and a half miles from the city of Yuma, which I think is a very good location for getting real distance. Mr. Redondo, who is the proud owner of this radio, is also manager of this field, and myself, his DXer, have received stations from 50 watters to 100,000 watters."

"On November 20, 1930, I bought a 7-tube battery Crosley radio, and to date have tuned in 399 stations, from 6 provinces, 1 from Newfoundland, from all U. S. states, except Mississippi, Nevada and Washington, WKAQ, Porto Rico, 7 Cubans, 6

Mexicans, HJN and YV1BC from South America," reports K. Hildebrand, Doaktown, N. B. "The three provinces that I still need are Saskatchewan, Alberta and British Columbia. During February added 35 new stations to my log. My best catches are WHBC, 10 watts; 10-BQ, 15 watts; 10-BP, 25 watts; WCAZ, KBTM, KCMC, KGfJ, KMLB, KDFN, XEJ, CMCW, HJN and YV1BC."

"I have had my 11-tube Majestic for two months and have had 247 stations in the U. S., 11 in Canada, 3 in Cuba, 7 in Mexico, and KGU, in Hawaii," reports Wm. McDaniel, The Gazette, Charleston, W. Va. "Of the 247 in the U. S., 27 are on the Pacific Coast and are in 42 states. I also have had 3 police stations, and a station announced as W2XAR, New York. These come in above 1500 kcys., as I have some extra space on my dial. W2XAR is on from 5:00 to 6:00 p. m. on weekdays."

"I have been getting the 'good old reliable' for the last two years," declares \*Frank Frazier, 225 Menomonee St., Chicago, Ill., "and have had 247 stations verified since, including Porto Rico, Mexico and Canada. My best stations are WOCL, 25 watts; KGfJ, WGNV, KRMD, 50 watts; KFPL, KGfF and WJBY, 50 watts. Received verification from WCSC today that they are on from 7:00 a. m. to 2:00 p. m. and 5:00 to 10:00 p. m. CST. I have a Graybar 310."

#### Gets 24 from Oceania

"Through the DX calendar I have been able to pick up close to 40 new stations since the first of January," admits F. L. Biss, Brittmount, Minn. "The first issue I bought was January, 1933. I have picked up 123 new stations this year, 24 of them are in Australia and New Zealand. KGU, KGMB, YV1BC, HJN, CFBO, and scores of others. This certainly has been an excellent season. I would like to correspond with a DXer in Delaware."

"Since my last report I have received 20 more stations, bringing my

total up to 305," remarks L. A. Brodhecker, Box 82, Brownstown, Ind. "In this total are five ship stations at 600 meters, two police calls below the 1500 band, two stations from Mexico City, one from Porto Rico, 24 stations in California. The total also represents 45 states; 15 out of Canada, including 10-AB, 6 stations from Havana, and 7 from Mexico. Am headed now for the 350 mark. My first report was 165 stations."

"I use a little Clarion AC-61 model, 6 tubes, and in less than two years have a log of 529 calls, all at present on the air—deletions don't count with me—only live ones," boasts Stanley A. Schmuck, 94 Otis St., East Cambridge, Mass. "My list includes stations in U. S., Canada, Cuba, Mexico, Porto Rico, Venezuela, and France. Among them are 10-BI, CKOV, YV1BC and Poste Parisien. All heard on the regular b.c. band, and a few a little below 200 meters."

"During a period of less than a month I have received 163 stations in the U. S., Canada, Mexico and Cuba," comments C. E. Bryant, Jr., Booneville, Ark. "I have received 40 states in the U. S. I also have received a station on every kilocycle between 540 and 1500 with some long-wave stations, about 520. We have a 10-tube long-wave Clarion which gives excellent service. I have no trouble at all separating stations on different kilocycles."

#### Completes State Roster

"Since I last wrote you," advises Ralph V. Caldwell, R. D. 1, Clarks-ville, Pa., "I have received a few new stations. Up to the last day of January, I had 572 stations. I added up to February 25th fourteen stations, or a total of 586. Among the best I heard during February were KPJM, KDB, KECA, KID, and XES. My best in January, KGEK, KGIR, WAGM, and KXO, and, thanks to RADEX, I got the one station that I have been hunting for, KDFN, Casper, Wyo., completing my list of the states."

"DX is exceptionally good here in

Baltimore," reports B. L. Ahman, Jr., 3313 Westerwald Ave., Baltimore, Md. "I just listened to HJN (685 kcys.) Bogota, Colombia, on Sunday morning at 3:45 a.m. Their signals were very loud and clear. I am waiting for a verification. I have just received verifications from CKMO, CJRM, WKAQ, CMBY, KFVD, 10-BQ, WELL and WGNV. Also others to raise my veris to 294 to date, with 470 even logged. I logged for four years before verifying."

"I have only been DXing during the past season," admits Raymond A. Mitchell, 921 1/2 Fourth Ave. So., Nashville, Tenn., "and with a Zenith 7-tuber I have heard 265 stations on the 97 channels of the b.c. band. Have heard a station on 95 of the channels. I have 146 of these verified. My best catches are KFPM, a 15-watter, in Greenville, Texas; 10-BP, a 25-watter in Wingham, Ont.; WKAQ, San Juan, P. R., and YV1BC, Caracas, Venezuela, all four of which are verified."

"My log of stations on the broadcast band, at the present time, contains 641 stations," declares Raleigh A. Biss, 129 W. Lake St., Chisholm, Minn., "including 12 Mexicans, 3 Cubans, and WKAQ, San Juan. A few of the best catches are WRAM, KCMC, WOPI, WDRG, WALZ, WINS, KXO, KABC, WAWZ, WJEJ, WKBC, KGGM, WSIX, XEX, XEE, XEJ, KGAR, KGDM, KWSC, CMBD, CKCI, CJOC and CJOR. I have heard all states with the exception of Vermont, New Hampshire, Delaware and South Carolina."

#### Some Brief Reports

"I just started DXing three months ago, and now have 137 stations," writes Cameron Greenleaf, Hewlett, L. I., N. Y. "I am a boy of 13 and therefore can't stay up late. Some of my best catches are: WBAP, WFAA, WOAI, KMOX, KWK, WOWO, WHO, WOC, KSL, KDYL, XER, XEAW, KTHS, KVOR, WMAL, KIDO, KFAB, 6 in Canada and 5 in Florida. I have had short-wave stations W1XAU, W1XAZ,

W1XAL, and police stations WRDS and WMP."

"I have a Silvertone 6-tube superheterodyne," remarks \*Victor Jason, 25 Greenman Ave., N. Y. Mills, N. Y. "I have had it for about a month. So far I have logged about 143 stations and some of my farthest stations are WKAQ, CMK, CMC, CMAF, CMCY, XEW, XEO, XER, XEPM, XEAW, XENT, KFI, KGO, KSL, KOA and WLBC, a 50-watter from Muncie, Ind."

"My present log stands at 370 with 44 of 100 watts or less," reports Clarence Markel, Jr., 622 1/2 N. 7th St., Quincy, Ill. "A few of the best are WJBK, WEXL, CHML, 10-AB, WBHS, KTFI, WWRL, XET and XES. This list includes 43 states with 20 police calls and 24 s. w. My best police calls are WMP, WPED, WPEH, and KGPL."

"I have had good luck with my DeForest Crosley, 8-tube set," reports Oliver Stevens, 1835 Gerrard St. E., Toronto, Ont., "and have received some excellent catches, such as KGKO, KFSD, WBAC, XEK, XEU, KFVD, WBBZ, WABL, KTFI, KDYL, XEM, WSMB, WQBC, KGFG, WSFA, and here's a peach, CKWX, 100 watts, Vancouver, B. C. Try and beat that!"

Mrs. L. P. Ayres, 9 Fern Ave., Carbondale, Pa., reports a total log of 626 stations on her RCA-60 with all states except Wyoming and Nevada. She has 25 stations of from 5 to 50 watts in 15 states and Canada and 150 stations 100-watts in 38 states, Canada, Mexico and Cuba.

"I have a two-tube Crosley receiver and have had 360 broadcasting stations, 80 police calls, and 2 Canadian s. w. stations," comments Charles Muffly, RFD No. 3, Grafton, Ohio. "My best DX is KTFI, Twin Falls, Idaho, using 500 watts. My farthest distance is KGA, Spokane, Wash., using 5000 watts."

#### His Pet "Pestations"

"I have a 5-tube Gloritone receiver," comments Edward Bond, 318

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Power St., Akron, Ohio. "Since May, 1932, I have heard 338 identified stations, including five s.w. heard on the regular b.c. set. My best catch is KFIO. All of these are on the air at the present time or listed in RADEX. I would like to nominate for pestations (pests) such stations as WFIW and WEXL, who are on the air too much of the time."

"I have not written to RADEX for a long time, so here goes," salutes Kazimir Nowotarski, 2484 Thurman Ave., Cleveland, Ohio. "My log has been increased to 611 stations, all of which have been received on my two-tube receiver. My best verified catches are: 2YA, CKMO, KPQ, KXO, KFXM, KPCB, 10-AB, 10-AK, 10-BI, 10-BP, 10-BQ, KGFU, CHGS, WKAQ, KFPM, KFXD and YV1BC. I have 53 stations on the Pacific coast, of which 40 are verified."

"I am only 13 years old and as I go to school I have no time to DX, except on Friday, Saturday and Sunday," comments Don Martinez, 1469 26th Ave., San Francisco, Calif., "but I managed to get around 211 stations in about six months, with 94 verified, which includes 18 Japanese, one Chinese in Nanking; 2CO in Corowa; 2YA in Wellington, KGU in Honolulu, and KGBU, Ketchikan, and a number of Canadians and Mexicans. I am still trying for Europe and South America and hope to get them soon."

"I have 351 stations, but they are darn hard to get now," complains

Clarence Wakefield, Wiarton, Ont. "I only DX some Sunday mornings. I usually get to bed about 10:30 and get up a little after two, but some Sundays I roll over and go to sleep again instead."

Well, maybe the Editor can get a little sleep during the next two months. Cheerio, until September.

\*Names marked with an asterisk would like to hear from other Radexers, particularly those owning the same kind of set.

## Final DX Reports

(Continued from page 30)

kcys. I also logged an hour of 2YA's program on Sunday morning, March 12, from 3:30 to 4:30 CST. This program came in very good through the speaker with very little fading. I have sent for verifications from both of these stations."

"I have been DXing since August, 1932, and in that short time I have heard 319 stations," writes Morton Meehan, 563 Adams Ave., Elizabeth, N. J. "My best are: HJN (awfully loud), KVI, KTM, CMQ, XES, 10-BP, 10-AK, NAA, KGNO, WHET, WKAQ, CKY, WABZ, KOY, WJBW, KMLB, KTFI, KHQ, CMX, CMC, and a flock of others. About 10:00 p. m. when the weather is good for DXing, I have heard CMC between KOA and CKGW. You have them listed as being on CKGW's channel. I heard



WMMN on a test program one morning, by turning the dial up toward 880 kcys. I heard CMX. You have WMMN and CMX both on 890 kcys. CMX was on 885 or 880 kcys. when I heard them. I would like to hear from DXers from the Southern and New England states."

#### Little Radex Clubs

"Three of us, all RADEX readers, have started a little gathering," announces R. E. Moran, 1309 Wellington St., Ottawa, Ont., "and we meet every Sunday afternoon at each other's homes and review the weekend activities in DXing. I have a log around 475. Ernest Ball a log of 500 or more, and Fred Wakerell over 600. The three of us heard a station on 1180 kcys. on Sunday a. m. March 26, playing band selections. I heard it again on Monday, the 27th, at 4:29 a. m. EST, playing band selections again, but no announcements. I wonder if any other RADEX reader has had similar experience. If so, would he please get in touch with me."

"I think that I can consider myself very fortunate during the past month," boasts Charles Meyer, Jr., 411 Blake St., St. Joseph, Mo. "On March 26 I was very agreeably surprised to hear a voice on 720 kcys., state that my station was 2YA, Wellington, New Zealand. I listened to them from 4:00 until they signed off at 4:25 a. m. The reason I was so amazed was because I am not using an aerial but a Muter aerial eliminator, grounded to a pipe driven about two feet in the ground in the furnace room where the ground is as dry as a bone. Among my better catches in 1933 are: KPCB, KFXM, WJEJ, KGFG, KXL and XEFB (100-watters); WSVS, WGNV, XEFV, WEXL and WGLC (50-watters)."

With a three-tube receiver of his own design, Gilbert Van Vranken, Jr., 2230 N. El Molino Ave., Pasadena, Calif., has achieved some remarkable results. His total log of 299 stations, loud-speaker reception, includes stations in Argentine, Colombia, Venezue-

la, New Zealand, Australia, China, Japan, Porto Rico, Alaska, Hawaii, as well as continental North America. He has verifications from 4BH, 2YA, YV1BC, two Honolulu stations and many others. Gilbert says that 2B1, 4RK, 2YA and 4BH come in exceptionally well quite often but that 5CK with more power is very difficult. The set operates on batteries.

#### Verifying Locals

"The following will prove a DXer should verify locals," suggests Karl J. Halpern, 495 E. 3rd St., Brooklyn, N. Y. "WPAP, WHN and WRNY are to be under one call, WHN, transmitter 750 watts. WQAO on Sundays only for church programs. WMSG, WBNX, WCDA, all to WYNN. Yes, good old Ed Wynn, owner. Transmitter 500 watts. WAWZ, early mornings 5:00 to 8:00 a. m. and special Sunday services. WYNN on from 8:00 a. m. to 1:00 a. m. What will a local fan do about WPAP, WHN (500 watts), WRNY, WMSG, WBNX and WCDA? How can he prove he heard those stations when he hasn't a veri?"

"The Australian, New Zealand and Japanese stations have been exceptionally good the past month," records E. N. Luken, Crooks, S. Dak. "4BC, 2BL and 2CO seem to be the best and to put on the best programs although the last few mornings 2UE in Sydney has been real strong. I consider my best catch down that way to be 2GN, Goulburn, Australia, as they claim only 50 watts power though that doesn't seem possible. These stations come in strongest here between 4:00 and 5:00 a. m. CST; however I can usually hold 4BC and 2UE till 6:00 a. m."

"I own a Philco 7-tube set and have a total of 463 stations," informs\* Russell McCoy, 432 Madison St., Gary, Ind. "Although a DXer since early radio, have not done so awfully much DXing this winter, due to illness, but my first night at the set this fall brought me my two prize catches since radioing. They were YV1BC

and WKAQ, the latter with plenty of volume. Although I have this list of stations, have yet to hear from six states: Vermont, Maine, Delaware, New Mexico, Nevada and Wyoming, and would appreciate tip on them."

"On Sunday, April 9th, around 9:30 p. m. EST, I tuned my set below the broadcast band, at about 1530 kcys. and heard chimes being played," remarks Tony Lima, 185 St. Patrick St., Toronto, Ont. "There were three different kinds, each lasting about one to one and a half minutes. I heard the announcer say 'W1X' or some other letters which I did not hear on account of the static. I also heard him say 'Boston' which I think is the location. They signed off at 9:40 p. m. Will you please try to identify this station for me."

#### East Versus West

"I believe that 100-watters on the east coast come in much better than 100-watters on the best coast," thinks Allan E. Knain, Northwood, N. Dak. "I'd like to hear from others in the center line of the U. S. and what they think about it. I would also like to hear from all DX clubs; also Midwest 16-tube owners. My best catch, I believe, is 4BH and 4BC. Also had 2CO, 3AR, 5CK, 6WF, 2YA, 4QG, KGU, YV1BC; CKPR at noon, and 50-watters on both coasts, Canada and Mexico."

"In the April issue of your magazine there was a correspondent from Texas who wanted to know of some Texan who had received a station of some distance," writes Mrs. Oscar Duncan, 531 W. Munson St., Denison, Texas. "On our radio map which my late husband made, I found our farthest stations were CKMO, Vancouver, B. C., 730 kcys., and CNRV, Vancouver, 1030 kcys. From Denison that is a distance over 1600 miles. Hope this will be of interest to the inquirer."

"I've owned two radios and DXing is to me half the pleasure of owning a set," declares Ed Cash, 9915 Yosemite, Detroit, Mich. "On my first ma-

chine, a Brandeis, I logged 118 stations in about a year and a half. With my present radio, a Kennedy, I've logged 210 stations in one year and one month. On the long wave the Kennedy's selectivity is wonderful, at least one station has been logged on every channel. The short wave section has been a disappointment."

Of his Midwest 16-tube set, J. A. Shanks, Box 2, Route 4, Russellville, Tenn., writes: "It has a very low noise level and plenty of power even on the 15-watt Canadians. It is excellent on the short waves also." He reports a grand total of 2309 stations between 14 meters to 200 meters. He has received 606 stations in the broadcast band.

#### Off Frequency

"It was the night of Saturday, April 8th, at about 9:30," remarks John C. Greenleaf, Jr., Meadowview Ave., Hewlett, N. Y., "I was listening to KOIL, Council Bluffs, when in the background I heard, 'This is station WNBW, Carbondale,' or words to that effect. I turned the dial and it suddenly came louder. That was on 1230 kcys., and WNBW is on 1200 kcys. Then it died away and I haven't heard it since."

"JOAK uses two transmitters, one on 590 kcys. and one on 860 kcys.," advises R. R. Rawstron, 296 Main St., Claremont, N. H. "JOCK now has a wave of 810 kcys. and 1180 kcys. So these calls count as two stations or four stations. Personally I lean to the four-station status, as they are really four transmitters, if my information is correct."

"I tuned in a station on about 690 kcys. at 3:15 a.m. EST, April 16th," reports Russel Hicks, 105 Navarre St., Monroe, Mich. "I heard an orchestra playing a symphony. It lasted until 3:41 a.m. and at 3:41 1/2 I heard three blasts from a trumpet and the station signed off. Could it have been HJN?"

"I wish you would print in one of your issues," urges R. S. Seaward, 4650 Post St., Jacksonville, Fla.,

"that I would like to hear from Atwater Kent Model 480 owners and the results and kinds of aeriels they are using."

"Reception has been very freakish the past week," declares Robert Rosenberger, 17 Janssen Place, Kansas City, Mo. "I have pulled in LR8, LS8 Viborg, Finland, and Poste Parisien, also LR2. LR2 is now on 910 and can be caught before XEW comes on strong in the evening."

"About 4 a.m. this morning I heard KGBU after a couple of years' occasional trying for them," remarks J. A. Ringness, Morris, Minn. "Also XEFV, WDRC, WRDW and WEEU."

Editor's Note: When a name is preceded by an asterick (\*) it indicates the writer would like to hear from others, preferably those owning the same kind of set.

#### Some DX Tips

"I have been DXing since the fall of 1929, and have to date logged 478 stations, using a Radiola 18," reports Sidney R. Steele, 3606 Homewood Ave., Toledo, Ohio. "All states, except Nevada, have been logged and I have nine states and the District of Columbia complete. Some of my best catches are KFXM, KGFK, CKPR, KRMD, the last three using 50 watts; KXA, KID, WAGM and KDFN. But the greatest thrill of all was VONF, St. John's, Nfld., received March 15th at 3:57 a.m. Following is from VONF's verification: 'Regular Broadcast Schedule, Newfoundland time 1½ hours later than EST. Daily 12:00 to 2 p.m., except Sunday when the broadcast begins at 12:30 p.m. Daily, except Sunday, 6:00 to 8:00 p.m. continuing some nights until 9:00 p.m. Sunday 8:00 to 9:00 p.m. The latest news concerning Newfoundland's sealing fleet is broadcast daily at 10:00 p.m.'"

"Here is some information on CHGS," advises Stewart Hunter, Box 200, Kensington, P.E.I. "Weekdays 7:30 a.m. to 9:00 a.m. Musical Clock program; 10:30 to 11:30 a.m. Home Hour; 11 to 12:30 Rural Program;

12:30 to 2:00 p.m. other programs; on again at 4:00 p.m. and sign off at 8:00 p.m. They also broadcast all the Canadian Radio Commission programs and hockey matches. Saturday evenings George Wade and his Corn Huskers 9 to 10:00 p.m. Sunday mornings on at 11:00 a.m. church broadcast till 12:00 and recordings until 1:00 p.m. Time and weather reports, sign off. On again at 2:30 p.m. to 8:15 p.m. CFCY, Charlotte-town, has a shortwave transmitter on 49 meters. VE9EH has about 250 watts. Am not sure about the power."

Radio Normandie, Fecamp, France, puts on a special DX every night until 10:30 EST, says Robert Rosenberger, 17 Janssen Place, Kansas City, Mo. He has received one of them on 1345 kcs. FQN on 565 kcs. is on until 8:30 EST Wednesday evenings. Robert recently tuned in 6CK, Cork, Irish Free State.

Gustave Solomon, 404 Bon Accord Block, Winnipeg, Man., gives us some interesting information in regard to CKY. He gives their time on the air as follows: Sundays, 11:00 a.m. to 5:30 p.m. and 7:00 to 11:00 p.m. Weekdays on at 8:30 a.m. until 2:00 p.m. and 3:30 to 11:00 p.m.

Rudolph Kuré of Cincinnati, who thinks that "RADEX is getting more helpful every month and that the May issue is a marvel" gives the time on the air of HJN as follows: 12:45 p.m. until 2:00 p.m. and 7:30 p.m. until 10 p.m. We assume that these times are those of Bogota standard.

"Those listeners in the east who have not heard WSAR, Fall River, Mass., can try for him on Monday nights until 9:00 o'clock, when WHOM comes on," suggests Samuel Klink, 844 So. 16th St., Newark, N. J.

*In September there will be complete new data from broadcasting stations with their time on the air, a new and enlarged DX Calendar, and a new plan for securing short-wave station information. Watch for it.*

## The Most Friendly Station

(Continued from page 11)

defects in modulation. But nevertheless, TI4NRH is working every afternoon on 31 meters, in mid-ocean, hi, hi, or between Schenectady and Madrid. Its power is marvellous, as hundred of reports estate to be like local stations anywhere from Canada to Peru.

The wave is very steady, with little fading, and the music, either recordings or spanish talent, distinguished by bugle calls between numbers, known the world thruout.

#### The Verifications

The station verifies each report, by sending a beautiful certificate printed in five colors, the only and most unique demonstration of its kind, ardently desired by fans.

The station publishes a Magazine in spanish entitled URA, which is sent to Members which also have a beautiful Diploma of Membership and a lapel button in 3 enamel colors. The URA has special stationery and lovely seals to go in accordance with the biggest aim to develop a most friendly Club, already represented in the Madrid last Convention, and having Delegates in all the American Continents. All that, has been the conclusion of pure amateurship in radio, developed with the aim to please in the land of Heredia, a name which was put in the map, by the station TI-4-NRH.

## Fading and Other Troubles

(Continued from page 10)

spects, and you will obtain every bit of efficiency that it is possible to give. The -80 rectifier need not be replaced with a newer type because it now gives as much amperage and poten-

tial as is necessary to run your set.

#### Phones on Kolster

*How shall I attach headphones to my Kolster K-140 receiver, and where are the speaker wires? The maker advises against the operation of this set with the speaker disconnected as it may ruin the receiver.*

Phones are connected to this receiver as shown in Figure 4, of the February issue of RADEX, on page 3. Use two 1.0 mfd. fixed condensers, 500 volt test, and a 50,000 ohm resistor. Two wafer adapters for -47 tubes will be needed.

The manufacturer's caution about operating the set with the speaker disconnected means with the entire speaker cable plug pulled out of its socket. Place your speaker silencing switch in either the green or brown wire leading to the smaller of the dual speakers from the second speaker plug leading to the speaker voice coils. This cuts out the voice coils of both speakers and renders them inoperative, but permits the rest of the speaker field coils and unit to remain in the circuit so as to not damage the power pack of the set. Be careful about your wiring insulation, for the -47 tubes operate on 400 volts, a potential seriously high if carelessly handled.

#### Using Old Tubes

*Can I modernize my Atwater Kent model 40 receiver? I have the original tubes, except the -27, which came in the set in 1930.*

You state you are using the original tubes, except the -27. Old tubes pull down the efficiency of the set, and we are sure that if you retube the receiver the results will be greatly satisfactory. Although the tubes may seem to test well, they are too far gone to be useful further. You might try replacing the -27 with a 56. The -71A can be replaced with a -45 if a suitable voltage reducing adapter is used in the socket for more power and volume. Your present -27 is the

detector tube. The -26s in the set cannot be replaced with newer types.

If this set is noisy it might be well to test the by-pass condenser located on the right-hand side of the volume control. This condenser by-passes the choke of the speaker, the terminals connecting to one speaker post and to the plate of the -71A tube. Frequently this trouble occurs in the AK 40 receiver. And of course, the condenser plates should be cleaned to remove all traces of dust.

### Short-Wave Signals Cut Off

*I have a Pilot Super-Wasp battery model k-110. The set was noisy and I took it apart and resoldered every connection. It now cuts off and on rapidly as if a wire still is loose. The regeneration control will not increase the volume even if pulled down until it falls into oscillation. There is no gradual increase in volume. The position where the set oscillates very loud is where the antenna condenser is set around 50 to 65, and the other around 50 to 90. At other points there is no oscillation. What do you think is wrong?*

It is hardly ever possible to state definitely the cause of signal cut-off. In most cases this has been found due to some defect in a filter or by-pass condenser which shorts for a time and then heals automatically for a short time. Sometimes connections to condensers will open for a time due to some expansion or contraction of the material of which the condenser is made.

Critical performance of the regeneration control is usually due to excessive detector plate potential, too large a plate coil, too large a throttle condenser, too large a choke coil in the detector plate circuit, or failure properly to by-pass the detector plate supply lead. It must be realized that trouble may develop from any combination of these factors. The remedy usually applied to such circuits is to provide a resistance-capacity filter at the detector plate input. This consists of a 1.0 mfd. condenser con-

nected between the plate input lead and the ground or cathode, and a 50,000 to 100,000 ohm resistor in series with the plate lead. Sometimes a  $\frac{1}{4}$  to  $\frac{1}{2}$  megohm resistor across the primary or secondary of the first audio transformer will correct the trouble.

### Wiring Up AK Model 20

*My Atwater Kent model 20 battery set is now being used after a long period of rest. Having lost the wiring hook-up diagram I wish to verify the wiring to the batteries, for the set only brings in nearby stations of great power.*

The red wire of the battery cable connects to the positive A and negative B battery terminals; the black wire to negative A; the blue wire to the  $4\frac{1}{2}$  volt C battery, negative terminal; the yellow wire to the  $22\frac{1}{2}$  volt B battery; the white wire to the  $66\frac{1}{2}$  volt B battery; and the brown wire to the 90-volt B and also one side of the loud speaker. Your tubes should be tested and replaced if weak. Clean the set carefully to free it of all dust, especially between the variable condenser leaves. If it persists being weak test the transformers for burned-out primaries, or open fixed condensers or broken wires in the r.f. coils.

### QUICK INDEX to STATION DATA

Broadcasting Stations	
Verification Information.....	April No. 68
Time on the Air	
Sunday .....	Sept. No. 61
Monday .....	Oct. No. 62
Tuesday .....	Nov. No. 63
Wednesday .....	Dec. No. 64
Thursday .....	Jan. No. 65
Friday .....	Feb. No. 66
Saturday .....	Mar. No. 67
European Time on the Air.....	Mar. No. 67
Trans-Pacific Time on the Air.....	Feb. No. 66
Call Letter Index.....	May No. 69
Slogans, Addresses, etc.....	May No. 69

Short Wave Stations	
Foreign by Countries.....	Sept. No. 61
World by Calls.....	Dec. No. 64
World by Frequencies.....	Apr. No. 68
United States by States.....	Nov. No. 63
Canada by Provinces.....	Dec. No. 64
Police Broadcasters of U. S.....	Mar. No. 67
Sunday on the Short Waves.....	Mar. No. 67
Canadian Police .....	May No. 69

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See our February issue for full details for using phones with adapters.

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