**DECEMBER 1938** 

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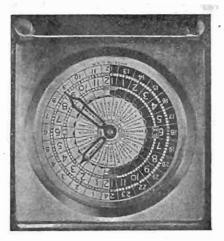


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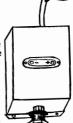


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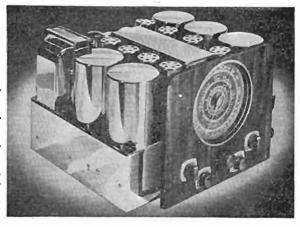
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## **DECEMBER 1, 1938**



# RADIO INDEX



FIFTEENTH YEAR

Reg. U. S. Patent Office

Number 124

PAGE TAYLOR

Editor

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CARLETON LORD
Broadcast

RAY LAROCQUE Shortwave

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PRINTED IN THE U.S.A.

FOR SALE AT YOUR NEWSSTAND

## TURNER DIAL Meets Some LOUD SPEAKER Problems

••• By B. Francis Dashiell

TURNER Dial was at work in the service department of Higrade Radio Sales and Service when Bill Wood, his young assistant, returned from an errand. "Say!" called Bill, "I just met Mr. West and he wants us to put a loud speaker upstairs in his house and run it from the radio down on the first floor!"

Turner laid down the test prods he had been using on a set that had a broken connection. "What did you tell him?" he asked. "You know there are several ways of doing that kind of job."

"Sure," said Wood. "But I told him you could do it. At least, I hope you can, 'cause I promised we'd fix it up right away." Without further concern in the ability of Turner Dial to solve any and all speaker problems, Bill turned toward an unfinished job on the work bench. "What sort of extra-speaker hook-up is best?" he optimisticaly inquired.

"Well," answered Turner, "as far as I can remember, they have a fine set with good, high fidelity reception. You probably didn't think of it, but an additional loud speaker placed upstairs calls for concealed wiring and some sort of speaker cabinet. That means a little more expense!"

Bill Wood looked up from his work. "I thought he'd rather have another radio upstairs, so I told him about our new 'Lightweights,' but there wasn't a chance. They could be independent of the set downstairs and hear different programs,"



But Dial was searching his desk for a service bulletin which described the circuit in the all-wave set that he had sold to Mr. West last Christmas. "No," Turner said, "he wouldn't buy another set, even though it's a swell idea. A good many people like extra speakers, but don't always get them to work as nicely as they should."

Wood leaned against Turner's desk. "Mr. West said for us to go ahead if you could do the job and get the same tone he now has in the big receiver."

Turner Dial leaned back in his chair. "In that case," he said, "we'll have to give him a speaker that is identical to the one now in his set. Then there'll have to be some replacements and alterations in the receiver." Turner picked up the circuit diagram. "But it's all simple, and since Mr. West is anxious about it you better go out there and get his set right away."

The November air had the chill of winter to it, and Bill Wood pulled on

his overcoat as he reached for the keys to the light truck that was used by the store. "On the way I'll deliver that set which had the speaker cone recentered in order to stop it from rattling all the time," he said.

Before he had finished talking Turner Dial was greeting a customer who had just entered the store. "I want a good radio!" declared the man. Turner could see he was agitated. "Of course, I have a set, but it's no good. I got it last year from a wholesale place. It has been back to the factory and still it's as bad as ever." With a disgusted wave of his hand the customer turned his attention to the long row of new 1939 receivers on display.

But Turner Dial was a service man with an inquisitive mind. When confronted with a problem he never gave up. "I'd like to make a sale," he said, "but that set of yours is a very good make. What's wrong with it? We've been able to service most everything that has come to this

shop."

"That set cost enough to be good!" exclaimed the man. "It worked fine until it developed a hum. I complained, and the firm mailed me a set of tubes. They didn't help a bit so I shipped the set to the factory for repairs. The hum came back. It's been going on for six months and I guess I'm stuck good and proper."

Turner was doing some quick thinking. "I feel that you are mistaken," he commented. "Those people sell good sets. Is the hum constant but not so very loud?"

"That's right!" the man said.
"It's not loud on strong stations, but
the hum won't tune out, and we sim-

ply can't put up with it any longer."

Turner picked up pencil and paper. "Let me send for that radio," he said. "I think it can be fixed so it'll be good as new. I wouldn't throw out a good radio just because it hums!"

When the customer had given his address and departed, Turner picked up the telephone and made a call. "Hello!" he commenced. "This is Higrade Radio. When the man comes in to get Mr. West's radio will you please ask him to go to 289 Taylor Avenue and pick up another receiver?

It was some time before Bill Wood returned to the shop. "Why must you have Mr. West's radio?" he asked. "It seems to me that we could have hooked the speaker on out at the house." Then he gazed at the other set. "What's wrong with this baby? It looks like it's in pretty good shape."

"Hum in the speaker," replied Turner. "At least that's what I think. Suppose you go to work on it while I look over the West job. Turn it on and let's see how it sounds."

Wood plugged in the set, and after it was warmed up, tuned to a station A steady, deep hum began and continued although the volume was turned up and down and different stations tuned in. "The Boss would call that 'non-tunable hum'," thought Bill to himself.

"Humph!" grunted Turner. "It's just as I thought, but it could be worse. Now listen to me, Bill!" And Turner began to point, as he always did when trying to impress his instructions on anyone. "Take a short piece of insulated wire and clean the ends for a fraction of an inch."

Wood did as he was told, but won-

dered what Turner Dial had in his mind. "There it is," he said. "What now?"

But Turner was removing the chassis from Mr. West's receiver. the output transformer terminals and leads to the loud-speaker voice coil," Dial instructed without glancing up. "Bend the piece of wire into an 'U' shape, and short circuit it across the two leads from the voice coil. But tune in a station good and loud."

Bill quickly located the pair of flexible voice-coil leads coming from the tiny coil attached to the apex of the paper cone. He shorted them where soldered to the lugs of the output audio transformer. Instantly the station that was broadcasting ceased to be heard, but the steady hum persisted. "Say!" called Wood excited-"That hum is still there even when the speaker is short circuited and dead! What on earth makes that happen?"

"Just as I expected," answered Turner, who did not share Wood's excitement. He laid down his tools and walked over toward Bill and the receiver. "Now I think you'll find all the trouble here." And he laid a fin-"Test out the ger on the power pack. condensers and filter units."

"But how did you know that?" asked Bill Wood in a puzzled tone of voice.

Turner Dial leaned on the bench. "You know all about speakers," he said. "They have large electro-mag nets that are magnetized by a flow of direct current through the field windings. The current is steady and the strength of the magnet is steady. The little voice coil is supported freely between the poles of the magnet, and it is free to float around a bit as the cone of the speaker vibrates."

"But," Wood objected, "all speakers are like that, and when the voice coil is dead the cone simply cannot vibrate and reproduce sound. why the hum in a speaker that has its voice coil deadened by a short circuit?"

"It's this way," continued Turner. "The direct current flowing in the field magnet creates a steady magnetic field, and the voice coil stands perfectly still until a radio signal passes through. The magnetic field around the voice coil attracts and repels the permanent magnetic field flowing between the pole pieces of the electro magnet. The latter cannot move, so the coil must move, and this transmits vibrations to the cone which then creates sound waves in the air. When you shorted the voice coil it could no longer respond to the audio signals and the broadcast ended."

"But the hum lingered on," interrupted Wood.

"That was because the magnetic field surrounding the voice coil was not steady as it should be," Turner Dial said. "That magnetic field was vibrating the same as the alternating current operating the receiver, or at 60 cycles a second. That was the pitch of the hum we heard." Turner picked up a screw driver and held it close to the speaker field magnet. "Here," he said to Bill, "Feel how this vibrates. If everything was right you would not hear hum or feel this magnetic vibration!"

"Now, here's what's wrong," Turner continued. "The current flowing though this speaker field winding is not a steady direct current as it

should be. It's a pulsating current having breaks in it equal to the alternations in the house current. That's because the current is not being rectified and filtered as it should. vibrations or breaks in the magnetic field cause alternating currents to be set up in the voice coil, and these create vibrations in the cone. Shorting the voice coil still does not prevent the currents from being induced in the winding. Of course, hum can also be caused by defective tubes and units, but it would stop instantly when the voice coil is shorted out." Turner touched the filter condensers and power transformer. "Your trouble is here, Bill," he said. "The current for the speaker magnet is not being rectified properly."

Both men worked silently, but soon Bill Wood spoke. "It must be this filter condenser—it's bad." He made the replacement, and the set was turned on. All trace of hum was gone! "Say, that's great!" Bill exclaimed. "It didn't take much time to fix it either."

"If this speaker had a 'hum-bucking' coil," remarked Turner, "we could have looked for a broken or shorted winding. Hum-bucking coils turn away any hum voltage that is set up in a voice coil when the field current is poorly filtered. It's a little coil wound at one end of the voice coil, in case you ever have to look for it."

"That's over," sighed Bill Wood to himself. He turned to Dial and said: "Well, what next? Want some help on that extra speaker? How are you planning to do that job?"

"We could hook up a magnetic speaker by attaching two wires to the

plates of the output tubes through bypass condensers. Lots of service men do it that way 'cause it saves some figuring and replacement work. But we'll have to do differently in order to keep the good tone Mr. West insists on having. We can't use an electro-dynamic speaker like the one you just repaired, for that means two extra wires to carry the field current from the set, and I don't think the set would stand that overload." Turner stepped back to the stock room, and Wood followed. "So we must use a permanent-magnet dynamic speaker. It has no field winding and has a strong, permanent magnet in-It operates in precisely the same manner as the speaker in the set."

"Then," continued Turner, as he searched the shelves, "the speaker must be attached to a baffle board. It helps the low notes for it acts as a wall or fence between the front and rear of the speaker. Otherwise the sound waves from the front would come around the edge and cause sound interference. In most receivers the cabinet and side walls act as a baffle."

"If Mr. West knew all this," said Bill Wood, "he would realize that installing an extra speaker is not so easy."

"Now that you understand," suggested Turner, "you can tell him about it yourself." Dial reached for a small carton that was on the shelf. "That's not all," he remarked. "Here is the most important job of all."

Wood saw that the box contained a transformer, and immediately he understood why Turner had to have Mr. West's receiver down at the shop. He was going to put in another transformer! "What's the matter with the transformer now in the set," he eager ly asked.

Turner Dial removed the transformer from the box. "Loud speakers," he said, "are matched to the resistance of the transformer winding that supplies the voice coil with cur-The primary winding, too, is matched to the tube or tubes providing the audio power signal. All radio tubes have certain loads attached to their plates. This load is measured in ohms, and is an alternating-current resistance or *impedance*. The load or resistance in the plate circuit of a power tube must be equal to the load recommended by the tube manufacturer. If a tube requires 7,000 ohms plate load, then the A. C. resistance or impedance of the transformer primary winding must also be 7,000 ohms. The secondary resistance of the same output transformer is much lower, as it matches the resistance of the voice coil in the speaker. When a speaker has 15 ohms impedance then the transformer secondary also has 15 ohms impedance. That is why any change in loud speakers may affect the load on the secondary, and the load on the secondary automatically changes the load on the primary wind-Then the transformer will not match up with the tubes, and distortion and poor tone are the result. That's what service men and radio experimenters must guard against."

"I see," said Wood. "Then you take out the old transformer and replace it with one that will match the two new speakers and still not change the proper load on the audio tubes of the set?"

Turner smiled. "It's even easier

than that," he said. "This transformer has an universal output secondary with a large number of taps, but its primary has the 7,000-ohm impedance of the original transformer. That makes it match perfectly."

The old transformer by now had been removed. Turner set the new one in place and soldered the two leads from the primary to the same terminals used by the original transformer. Then he measured off a long piece of double cord. "I think this is enough to run upstairs to the new speaker," he commented to Bill Wood. He attached the speaker to one end and carried it to the front of the store with the wire trailing along on the floor. "Now, we've got to hook the two speakers to the secondary of the transformer so as not to throw any additional load on the primary and cause a mismatch, and yet have the two speakers match the section of the secondary to which they are connected." Turner studied the printed sheet which accompanied the transformer.

Wood stood by with the hot soldering iron in his hand. "The old speaker has an impedance of 8 ohms, and the new one only 6 ohms," said Turner. "The length of wire should be considered, and it figures to about That means the new speaker and wire have an alternatingcurrent resistance of 12 ohms in all. Each speaker must be attached to a pair of taps having a value of one-half of the total impedance of its voice coil. So, from the table on this circular, we find that taps 1 and 3 are for 4 ohms, or one-half of the old speaker, and that taps 2 and 5 are

(Please turn to page 95)



## DIALING The Foreign Stations

PART THREE

RECEPTION of foreign stations on the broadcast band, as most DXers have learned, is definitely a seasonal matter. With the first cool nights of fall, stations in the Antipodes and South America commence to push their carriers into the United States. Towards the end of November, the Europeans make their initial appearance of the year—and in December, Asiatic stations come over the horizon.

In the past two issues of RADEX, this section has followed the seasonal cycle closely, paying particular attention to the problems attending reception of the stations best heard during those months. The October issue showed an accent on stations in South America, New Zealand and Australia, while in November, European reception was spotlighted. December finds Asiatic reception approaching its peak, and so our attention swings to yet another point of the compass.

For North American DXers, Asia must rank fourth behind South America, Australia and Europe in the reliability with which its medium-wave signals are received. While virtually all DXers in the United States and

Canada can report stations from the first two continents, and a large majority of the listeners in the East and Middle West have some success with Europe, reception of stations in Asia is confined largely to the midnight marauders on the Pacific. Coast. Of all the continents, only Africa is received with less success.

On the surface, it would appear that Asiatic transmitters should be received throughout the United States at least as well as broadcasters of equal power in Australia and New Zealand. At any given point in the United States or Canada, the Japanese stations are from one to two thousand miles closer than the frequently-heard stations in the Antipodes. While signals from Australia and New Zealand must cross a tropic region and are held up accordingly, carriers from Japan follow a path through the arctic wastes of the North Pacific, Alaska and the Northwest Territories Canada. The difference in time assures an hour or more every winter morning when total darkness covers the entire route of the signal.

But while all these favorable factors would seem to indicate satisfac-

tory reception of Japanese stations throughout the North American continent, such is not the case. DXers in the Pacific Time Zone report satisfactory results, but the signals lose strength rapidly as they travel East. Infrequent success is claimed by listeners in the Mountain Time Zone. A few, favorably-located Central DXers hear an occasional Jap. And among the Eastern night owls, the Asiatic stations are rarely heard. Even the veteran dial twister, with an impressive log of Aussies and Zedders, can seldom boast of more than one Japanese verie to show for many years of DXing, and those who have still to hear their first Nipponese station are legion.

An attempt to explain this phenomenon would be merely a conjecture, and most listeners are content to let it go as one of the vagaries of reception. Perhaps the answer lies in the fact that the Great Circle path of the signal approaches the magnetic North Pole and the carrier suffers some form of interference. Perhaps there is some other explanation. But whatever the reason for this peculiar behavior, DXers are obliged to accept it as inevitable and adjust their DX activities accordingly.

Any attempt by this writer to expound upon Asiatic reception would be futile. While the fundamentals of good tuning technique, as outlined in detail in the October issue, will hold true for reception from any point of the compass, it would be useless to offer tips and suggestions for reception which has not as yet been accomplished. Fifteen years of DXing in Ohio and Pennsylvania have yet to produce a single Japanese catch, so



This card from JBCK has to be seen to be fully appreciated. The photograph of the aerial towers is framed in gold, and the rays are light lilac in color. The call letters are printed in black, and spangled with many golden dots. (Courtesy of Anthony C. Tarr).

there is nothing concrete to be had from this source.

However, among the vast RADEX family, there are countless DXers who have had no little success in logging and verifying Asiatic stations, and two of these have been invited to round out the list of continents by giving their tips on the how's and when's and where's of reception from Asia.

First to accept this invitation is Mrs. Dora Newcomb, Oxnard, Calif., vice-president of the Newark News Radio Club and a veteran of many a midnight battle with the DX elements.

"After listening to the radio for the past 12 years," she writes, "I have found that there is no particular season for the Japanese stations. Usually they will be found to be coming through all winter.

They start to come in here about 1 a. m., PST, and increase in strength until they sign off. Sometime during the program, they may give the call letters in English. I usually listen for about an hour, and make a record of

the time of announcements, type ofmusic, talking and so forth. The report, together with an international reply coupon, is always sent direct to the station. So far, I have always had a reply from every station I have written to, and so there is no complaint to make.

"There isn't much I can tell about the Chinese stations, as I only have XGOA verified and it is the only one to whom I have written. I have heard another one or two, but haven't taken the trouble to try to identify enough of the program for a report. That is one of the reasons I am also a bit short on the Japanese verifications. Every morning when they are coming in good, I promise myself to work on them the next morning. And so it goes. Hence I should have at least 30 of them verified, whereas I only have 19."

Anthony C. Tarr, Seattle, Wash., vice-president of the Universal DX Club and a regular contributor to RADEX columns, goes into more detail with tips on tuning and reporting.

"It is practically impossible to identify a Jap other than by its frequency," he advises. "As far as I know, the only time they announce is right at sign-off, and since this is usually around 9 a. m., EST, you can see that reception at that time is impossible in the East. In fact, it is very poor even here in the West. And so the only solution is to have a correct list of calls and frequencies, and go by that. Off hand, I recall only one instance—JORK and JFBK on 720—where two stations are on one frequency.

"Last season, it was very easy to report to the Japanese stations, because from 4.30 to 4:55 a. m., EST, many of them presented a program intended to teach English to Japanese students. And at 4:55 came a five-minute period of news in English. My observations showed that many of the 10 KW stations had these programs daily, while a few seemed to join the chain only occasionally.

"About the earliest I have ever heard a Japanese here is 1:15 a. m., PST, although I have a personal friend who once heard one at 11:30 p. m., PST. As a rule, when the Japanese are coming in well, the VK's are not as good as usual, and vice versa. However, when reception conditions are particularly favorable, the whole band will be full of signals, and in some cases a J- and a VK- on the same frequency will take turns fading in and out. In fact, last season, I secured a report on 4RK and JOLK, both on 910 kcys, simultaneously. So you see it is next to impossible to forecast what may take place, as practically anything can—and probably will—happen.

"I have found the best time for the Japanese to be between 2 and 4 a. m., PST; although as I said before, the 1:30-2:00 English program was frequently heard last year on eight or more stations at one time, with four or five others coming in with a different program. While my records for last year show that most of my reports were secured in September and November, the stations are heard pretty well throughout the winter.

"When taking down a report for a verification, particularly when native music or language is heard, it should be sufficient to list what actually is heard, as per the following example:

| 4:03:00 a.m. | Announcement by      |
|--------------|----------------------|
|              | man in Japanese.     |
| 4:03:30 a.m. | Solo by man with     |
|              | accompaniment of     |
|              | stringed instru      |
|              | ments.               |
| 4:07:00 a.m. | Announcement by      |
|              | man in Japanese.     |
| 4:05:30 a.m. | Soprano solo with    |
|              | piano accompani      |
|              | ment.                |
| 4:15:15 a.m. | Announcement by      |
|              | man in Japanese.     |
| 4:17:00 a.m. | Japanese dance mu-   |
|              | sic by typical Japa- |
|              | nese orchestra.      |
| 1 6          |                      |

And so on for as long as one cares to listen.

"Too much emphasis cannot be laid upon the fact that the *correct* time is essential—to the quarter minute, if at all possible. I happen to know of a New Zealand listener who was refused a verie because his reported time of a sign-off was a half-minute incorrect!

"Courtesy also demands that the abbreviation 'Jap' be not used for 'Japanese.' In fact, the proper name for Japan is Nippon, and the inhabitants are known as Nipponese. Also, do not refer to their selections as 'native music,' for it is quite as familiar to them as the fox trot is to Americans.

"When addressing a report, the call letters and city are quite sufficient. While I have only six Jap veries, I did report to 13 of them last season. The reason I secured no more replies was due to the fact that I was erroneously informed that the Japanese stations were insulted if they received an IRC. Later my New Zealand correspondent backed down and admitted that he

was wrong. In every case so far, when stations use the same call letters with the numerals 'one' and 'two' as a suffix, they have used the same verification card with no indication as to which transmitter was being verified.

"As to the stations best heard, I would place JOAK-1, Tokio, 590 kcys, at the top of the list. Second best would be JOHK at Sendai, 770 kcys, while JBCK, Seishin, 850 kcys, would rank third. JOAK-1 uses 150 KW, while JOHK and JBCK use 10 KW. From there on, perhaps my complete Japanese log would be an indication of those most likely to be heard. As a rule, the 10 KW stations are about on a par, while the 500watters are somewhat erratic and a 'catch-as-catch-can' proposition.

"Following is my complete log of Japs heard here; with frequency in kilocycles and power in kilowatts:

JOAK-1 150 Tokio 590 JOBK-1 10 Osaka 690 730 JOCK-1 10 Nagoya JOHK 10 Sendai 770 JOPK .5 Shizuoka 780 10 Kumamoto 790 JOGK JOIK 10 Sapporo 810 10 Hiroshima 830 JOFK 10 Seishin JBCK 850 870 JOBK-2 10 Tokio JOLK .5 Fukkuok 910 920 JOQK .5 Niigata 940 JOBK-2 10 Osaka .5 unknown 980 JOXK 990 JOCK-2 10 Nagoya .5 Kagoshima 1050 JOJG JOIG .5 Toyama 1060

"Other Asiatic stations I have heard are:XGOA, Nanking, China, 660 ksys, 75KW (probably off the air now): MTCY, Shinkyo, China, 560 kcys, 10 KW; RW-54 Khabarovsk, U. S. S. R., 540 kcys, 10 K.W.; and RW-32,

Vladivostock, U. S. S. R., 655 kcys, 10 KW.

'The title of 'friendliest station' should go to JBCK, Seishin, Korea, 850 kcys. The chief engineer, Haruhika Kakigi, has written me several letters and sent me some stamps. One of his letters is worth quoting:

"'From 6:30 to 6:55 p. m. (4:30 to 4:55 a.m., EST) we usually spend this period for foreign language lecture, trying to aid high school students in foreign language studies. In your country hardly no student understands or reads Japanese language, but Japanese students are taught to read English language, and though not in practical use, they can comprehend English. So ability to read English language aids students in understanding English speaking people and countries. If you keep patient to hold your dial until 6:55 p. m. (4:45 a. m., EST) you can hear current topics broadcast in English for five minutes. . . . I try to correspond our radio friends as promptly as possible, so encourage your friends also to catch our wave. . . . We are located at Manchukuo border line and about 30 minutes beautiful highway drive from Seishin City will bring you to the station. You will find here 60 meters towers standing on cliff. . . . Besides reception reports, we welcome personal letters, so write to us if you have any news or otherwise."

As previously stated, any attempt by the writer to give further tips on reception of Asiatic stations would be futile. However, it stands to reason that the fundamentals of good tuning procedure, as described in detail in the October issue, will be equally effective when dialing stations at any point of the compass.

Here again, the advantages of "spottuning" cannot be over-emphasized. Using the list of Nipponese stations stressed by Mr. Tarr and choosing the proper time, DXers in any locality should concentrate their attention on, say, the three "best-heard" stations which he mentioned—JOAK-1 on 590, JOHK on 770 and JBCK on 850. As usual, it is wise to "park" on those frequencies for at least five minutes, allowing ample time for the stations to fade in if they are not heard at first. And once a station is coming in well, it is always a good idea to take down a complete and comprehensive report before going after another catch. As Mrs. Newcomb pointed out, it is always too easy to postpone the actual logging until another time.

If the first group of "selected stations" cannot be heard, another group may be tried—and so on for the duration of the period when the Japs should be heard.

Pacific Coast Dxers probably will have little difficulty dialing a goodly crop of Asiatic stations during the winter season, but listeners in the Middle West and the Eastern states will have to remember the old adage about patience and perseverance being the prime essentials for DX success. is possible to hear Japs in the Eastern Time Zone, as not a few DXers can testify, but it may take careful attention for many a morning before an intelligent report can be made out. If a Nipponese verie is worth having, it should be worth the effort necessary to secure it.

(Please turn to page 95)

## HIGH FREQUENCY GLOBE TROTTING

● ● ● By RAY LA ROCQUE

STRETCHING hundreds of miles to the southward from the mighty Himalaya Mountains are the ancient and vast plateaus and valleys of British India. All India Radio, a new and fast-growing network of short and medium wave stations is bringing to the world the music and customs of the Hindu people via its many broadcasters.

We are not going to try to convey the impression that India is a new country on the shortwaves, for there are many of us who remember-not so long ago -about 1935, we believe, when shortwave addicts were hearing (when conditions were good and the set was working properly) VUB on 9565 kcs. before W1XK came on the air Sunday mornings. Then there were the two wavelengths of the Calcutta station— VUC. However, in those days, India was just a station on the pages of a log book for most of us were unable to hear VUB—even under the most ideal DX conditions.

Now, as will be noted in this month's review, listeners are hearing India on assorted frequencies with apparently not too much difficulty. Stations in Delhi, Bombay, Calcutta, and Madras on the 4, 6, and 9 megacycle bands are being heard more and more consistently with the advent of colder weather. All India Radio is not standing still—it is moving forward and many new transmitters will continue to spring into operation for months to come.

#### India

VUD-3 on 15160 kcs. in Delhi is heard daily from 8:30-10:30 p. m.



Z1K2, the government station in Belize, British Honduras, issue this three color card. The land surface is white, and the water light blue. The location of British Honduras on the map is in red and the printing in black. A notation on the back of the card tells us that the principal products of this country are mahogany, chicle, bananas, coconuts and citrus fruits. (Courtesy of A. M. Hankins).

with a very good signal. It is now possible to hear the entire transmission. The signal holds up and the news which is given in English from 10:10-10:20 p. m. is clearly and entirely audible. (Marion-La. and Herz-Ill.)

VUD-2 on 9590 kcs. at Delhi is heard in the mornings as late as 8 a.m. There is usually a little QRM from VK6ME or 2ME. (Skyten-Måss.)

VUC-2 on 4880 kcs. at Calcutta is heard on the west coast from about 8:30 to 9:45 a. m. A station announcement may sometimes be heard at 8:55, but for the most part, station identifications are few and far between. VUB-2 on 4905 kcs. at Bombay is heard at approximately the same time as VUC-2. VUM-2 on 4950 kcs. at Madras on same schedule as VUB-2 and heard equally as

well. VUD-2 on 4995 kcs. at Delhi is another of the 4 megacycle stations which is being heard on the west coast. (R274—Wash.)

#### HELPFUL REPORTS

We are grateful for every letter and report from our followers. Most particularly desirable are reports on new stations, changes in frequency, location, call letters, or schedule. Next in the line of desirable reports are those on reception of stations not commonly heard.

How to go about reporting these stations? First you should always show the call letters, location, and exact frequency (when known) of the station. The time the station is heard is very impartant and, when possible, mention the time that reception reaches its peak. Be sure to mention any and all particulars that you may note when listening-particulars that may aid the other fellow in identifying, such as chimes, cuckoo calls, or other identification signals; peculiar announcements or slogans, languages used, male or female announcers, and the programs that are broadcast most frequently!

Basing our ratings on the above desired items we will, next month, in-augurate our "Report-o-meter". The "Report-o-meter" will register the first report received on any new station or change in present station. It will also register for succeeding reports which contain facts missing from previous reports.

By reporting in the manner outlined in previous paragraphs you will be assisting your fellow DXer to increase his log. Of course, he will want to reciprocate and repay you the favor. So what say? Do you want to help us to help you help yourself?

#### **MEGACYCLE BREVITIES**

Out of the west coast, according to Tony Tarr, they are hearing a new Java station on 3100 kcs. between 9-10 a.m. Particulars regarding call letters and location are lacking. . . And Tony says that some fellows out on the coast are hearing TAP on 9465 kcs. in Ankara, Turkey from 7-7:30 a.m. TAQ is also reported—they're heard around 2 p.m. on 15195 kcs. These reports will bear confirmation, however . . . Press Wireless has authority to move transmitter from Hicksville to Little Neck, Long Island and operate on the following frequencies: WHJ on 17440 kcs., WCW on 15850, WPK on 13840, WJQ on 10010, WBS on 7615, WEE on 6920 kcs., WBX on 5345 kcs. All with a power of one kilowatt.

A new and different field of DX is proving to be very good fishing for one of our most consistent reporters, Chet Roman of Chicago. His activities center on the bands "in between" the standard broadcast band and the shortwave broadcast bands. His is not, however, an interest in the hams or the police calls, but in the numerous other commercial and emergency service stations that are found on those bands. He has in his log many odd calls belonging to air bases, for estry stations coast guard, and border

patrol stations among the many others. Chet would like to see more space devoted to these stations, but lack of interest on the part of others makes it unwise to devote more space to these bands at present.

There are reports that a Capetown, So. Africa, station is operating on 9625 kcs... Although we have yet to see reports on any of these, the N.N.R.C. has official information that the following are or will be operating soon: YV5RM on 5010 kcs. in Caracas, YV6RU in Ciudad Bolivar, YV2RN in San Cristobal, and YV3RN in Barquisimeto.

#### QUOTE AND UNQUOTE

F. J. Fraser, Ottawa, Ontario: believe the station reported as 'Radio Turkey' to be Tokyo, and heard what I described in a note at the time as 'primitive race song, accompanied by clappers and pipe instruments.' This was 8:30 p. m. September 1st and 2nd and it came through on subsequent dates, reception becoming more unstable as time went on during the evening: Now, many mornings this Spring and Summer I have listened to Tokyo (7-7:30 a. m.) and I am quite familiar with the program, but could never catch it at any other time in the morning. Occasionally, I was sure I heard Tokyo during the evening and on the 9th and 10th of this month (October) I heard JZK give its usual half hour program. On these programs about 8:20 p. m. there were curious 'Radio Turkey' renderings that I had heard previously at the same

time and at exactly the same place on the dial—i. e. very close to GSO!" Chester Roman, Chicago, Illinois: "I'd appreciate it if anyone could supply me with the following information. Location of the station WWOO on 3410 kcs., WWXA on 3410 kcs., and WNI on 9170 kcs., somewhere in Missouri."

Kenneth D. Morey, 14 Lawndale St., Easthampton, Mass.: "Will you please put notice in RADEX that anyone in this district who desires to join our Hampshire Radio Signal Survey League Chapter can do so by contacting me."

I. I. Kolibonso, Batavia, Java: like tuning the shortwaves-I have been tuning shortwaves for four years, never the BCB stations as I seldom hear \*them. We are dependent on the shortwaves, especially for European reception. I also hear the U.S. A. stations, but they come in here not so loud as the Europeans. The best are GSG, GSH, DJB, GSB, IRF, CSW3, PHI. Their signals are regularly R8-9. From U. S. A. I hear W2XE, W3XAL, W8XK, W2XAF, with R5 and then not regularly. Many South American stations are heard on the 42-50 meter band, but it is not easy to log these stations as they always use announcements in Spanish, which I cannot understand. from this their music is very good, tangos, and rumbas-which I like very much! On these bands the QRM is like machine gun fire, and to top it off we have the interference from automobiles that go by."

#### **ULTRA HIGH**

Very reliable conditions prevailed on the ultra high bands during the month and on several occasions the bands were "wide open" and good foreign reception was enjoyed on the ten meter amateur band. However, foreign countries have yet to start broadcasting, either experimentally or otherwise on these bands and until they do listeners will have to be content with domestic DX.

W1XCS on 100000 kcs. in Storrs, Connecticut is a new experimental broadcast station operated by the Connecticut State College. The station will use 250 watts and will also have available the following frequencies: 110000 kcs., 200000 kcs., and 300000 kcs. (RX)

W2XDG on 38650 kcs. in New York City is still being operated by the N.B.C. on a temporary license pending definite arrangements by the FCC of these ultra high frequency assignments.

W9XA on 26450 kcs. in Kansas City, Mo. has started broadcasting. They are heard on an irregular test schedule at present, coming in best here about the middle of the afternoon. Their programs are mostly relays from KITE, although they do transmit some programs of their own. (RL—Mass.)

W9XJL on 26100 kcs. in Superior, Wisconsin is again being heard in this section after not having been audible for many months. Programs are mainly relays of WEBC. (RL)

W9XTC on 26050 kcs. in Minneapolis, Minn. is still one of the best heard stations on the band in the afternoon. It is without a doubt the

most consistently heard station. (RL)

W9XUP on 25950 kcs. in St. Paul, Minnesota was heard during a freak reception period from 12-1 a. m. Reception of any station on these channels at this hour is very unusual, but the mere fact that they were heard once leads us to tell you to be on the lookout at all hours for unexpected reception on the ultra high frequencies! (RL)

## SHORTWAVES IN REVIEW Angola

CR6AA on 7177 kcs. in Lobito is heard Wednesday and Saturday from 2:45-4:30 p. m. They are also said to be using 9666 kcs., and 13000 kcs. irregularly. (RL)

#### Australia

VLR-3 on 11380 kcs. at Melbourne, Australia will operate daily until 3 a. m. for the benefit of listeners in this country, according to announcement over VLR—9580 kcs. At 3 a. m. VLR will replace VLR-3 and will continue for the rest of the transmission. (Davis—Texas)

VK8SK on 6690 kcs. is reported to be a new Australian shortwave broadcasting station. Exact location not known. (N.N.R.C. Bulletin)

#### **British Guiana**

VP3BG on 6130 kcs. in Georgetown is now being heard with two transmissions daily. Schedule is Mon., Wed. and Fri. from 4:15-6 p. m. and 6-9 p. m. On Tues., Thurs. and Sat. they broadcast from 11:30-12:30 a. m. and 4:15-9 p. m. Sundays from 8-10 a. m. and 3:30-5 p. m. Time is given in British Guiana Time. (RX)

Cuba

CLX on about 7000 kcs. Their correct address is Observatorio Nacional, Casa Blanca, La Habana, Cuba. Guanabacoa is another municipality in Havana Province and is a town near the city of Havana but not the capital. The Observatory is near the Morro Castle, overlooking the city. (Hidalgo-Cuba)

Czechoslovakia

OLR4A on 11840 kcs. in Prague is now carrying all programs directed to the United States. They no longer shift to the 15 megacycle channel. (Marion—La.)

Curacao

PJC-2 on 9100 kcs. at Willemstad are heard very well till around 8:30 p. m. (RL)

French Indo China

"Boy Landry" on 11710 and 9750 kcs. at Saigon usually broadcast simultaneously. The latter is not on regularly, but when being used is much more easily heard than the former frequency. (RA—New Zealand)

Germany

DJZ on 11801 kcs. at Berlin replaces DJP on the North American transmission from 7:15-10:50 p. m. (Herz—Ill.)

#### Guatamala

TG3 on 2340 kcs. in Guatamala City is a new station in that city broadcasting on the same network and in parallel with TG1, TG2. The three Guatamala stations along with the two in Quetzaltenango (TGQ and TGQA) are on the air until 3:00 a. m. on Sundays. Programs broadcast by these stations contain only the best musical entertainment. The crack marimba bands of Guatamala and select recorded music offer a

splendid relaxation from the swing jam and jitterbug sessions broadcast over our own stations. Don't get us wrong, we like swing music—but in moderation! (Sekach-Mich. and Bruder-Mass.)

Japan

JZJ on 11800 kcs. replaces JZK on the morning program to the United States between 7-7:30 a.m. (Skyten-Mass.)

JZK on 15160 kcs. in Tokyo is now used on the Japanese program to the United States at 8 p. m., replacing JZL. (Skyten-Mass.) JZK is on the air from 8-8:30 a. m. for the east coast of the United States. (Herz-Ill.)

Java

YDA on 3040 kcs. in Batavia is heard on the west coast from 8:30 to a fade out around 9:30 a. m. Another Java station on 3100 kcs. is being heard around the same time, but the call and city is unknown. (R274—Wash.)

Martinique

"Radio Martinique" on 9700 kcs. is heard very well on Sunday afternoon. They signed with "La Marseillaise" at 4 p. m. (Skyten-Mass.)

Mexico

XEXA on 6174 kcs. in Mexico City broadcasts a half hour program in English every Friday evening from 11 to 11:30 p. m. They relay XEDP, not XEXM! (Parfitt-Ohio)

Mozambique

CR7BH at Lourenzo Marques on 11718 kcs. is being heard occasionally in the afternoons between 3 and 4 p. m. (R220—Mass.)

New Zealand

NEW on 6960 kcs. at Wellington, a station relaying broadcast band 2ZB. They operate daily from noon to 6

a. m. EST. Power is 200 watts and address, 2ZB Radio Station, Wellington, N. Z. (NNRC Bulletin)

#### Nicaragua

YNRS on 6760 kcs. in Managua is a new station announcing as "Radio Nicaraguense" and heard very well every evening. (Bruder-Mass.)

#### New Caledonia

FK8AA is the call of the station known as "Radio Noumea" on 6100 kcs. reported here last month. The call, however, is seldom heard. (RL)

#### **Panama**

HP5G on 11780 kcs. again after trying 11895 kcs. for a period. (RL)

#### Pitcairn Island

VR6AY was heard recently and among the many remarks was the one that postage rates had gone up on the island and are now equivalent to about five cents in American money. (R140—Conn.5)

#### Siam

HS6PJ on 15770 kcs. at Bangkok announced the use of this new frequency for the Monday 8-10 a.m. transmission. (NNRC Bulletin)

#### Spain

EAJ-43 on 7500 kcs. is heard each night from 8-9 p. m. The program consists of talks and news in Spanish and very good music. The announcements are in Spanish until the end of the program at about 8:55 p. m. when the following is spoken in English: "Hello United States, Canada and all English speaking people. This is Radio Club Tenerife, EAJ-43. We broadcast every day from 1 to 2 a. m. GMT on 40 meters, 7500 kcs." Then, there sounds a gong and a short news period in English. They close down



The Red Square in Moscow. This card was sent as a verification of reception of station RKI, 15080 kcs. The postage stamps used on Soviet verifications are usually very attractive commemoratives. (Photo by courtesy of J. R. Hahn).

saying that QSL cards will be sent to each person submitting a correct report. Their address is P. O. Box 225. (Marion-La.)

"Radio Nacional" on 10370 kcs. at Salamanca, Spain comes on the air at 6:30 p. m. in parallel with the station on the low frequency end of the 20 meter band. The 20 meter station is by far the strongest signal of the two! (R7-Pa.1)

#### Straits Settlements

ZHO on 6170 kcs. at Singapore is a good catch in anyone's home town. The station signs off at 9:40 a. m. with "God Save the King," which is preceded by "Good night, everybody, good night!" (R274—Wash.)

#### Union of South Africa

Capetown on 9620 kcs. is being heard on the west coast from 10-11 a. m. with time pips at 10. No doubt they have a longer schedule, but the time given is the time during which they are heard best. (R274—Wash.)

#### **United States**

W2XJI on 26300 kcs. at Newark,

N. J. will broadcast programs twice weekly for the Newark News Radio Club. The programs, of special interest to all DXers, will be conducted every Tuesday at 8 p. m. and every Friday at midnight. The first program of the series was transmitted on Friday evening, November 11. (NNRC Bulletin)

W3XAL on 9670 kcs. is now being heard on this new frequency in the evening with programs in Spanish and Portuguese directed to a Latin American audience. (Sekach-Mich. and Bruder-Mass.)

W3XL on 17780 kcs. is the call of the new construction permit granted the NBC for an international broadcast station at Boundbrook, N. J.

#### U. S. S. R.

"Kazan" on ,7350 kcs. at Moscow is heard at 3:30 a. m. Announced frequency is 7500 kcs., but they are far off frequency. All announcements are in Russian and programs consist mostly of operatic music. (UDXC Bulletin)

RV-96 on 15180 kcs. is the call of the station reported here last month. They are heard very well early in the afternoon. (RL)

#### Vatican City

HVJ on 15121 kcs., the Papal station, is transmitting a program consisting of Catholic news and religious music each Sunday afternoon from 1-1:30 p. m. It is coming in QSA5, R9! Broadcasting starts at 12:55 with a signal note—25 per minute. The program is entirely in English and directed to America. (Barker-Me.)

Join the RADEX Club now! We would like to have every reporter in our list displaying a RADEX Club number after his name, and hope to be pleasantly surprised next month with a list of numbers twice the size of the one below:

#### Reporters for the month

RA Alan I. Breen, Dunedin, New Zealand R7-Pa. 1 A. M. Hankins, Latrobe, Penna. R9-Mo. 1 Walter V. Scholz, Webster

Groves, Mo.
R21-Pa. 3 Edward Lang, Philadelphia,
Penna.

R23-Ill. 4 Richard Wright, Chicago, Ill. R35-Cal. 2 Stanley La Rue, Beverly Hills,
Calif.

R49-D.C. 2 David Hill, Washington, D. C.
 R111 Edward Hirsch, St. Albans, N. Y.
 R140-Conn. 5 J. Herbert Hyde, Elmwood,
 Conn.

R149 Chester Brown, Bradford, Penna.
R220 Albert Pickering, West Medway,
Mass.

R274 A. C. Tarr, Seattle, Wash. Elvyn Barker, Portland, Me. Arthur F. G. Bruder, Allston, Mass H. W. Conrad, Guthrie, Okla. Isaac T. Davis, Elkhart, Texas A. V. Deterly, Baton Rouge, La. F. J. Fraser, Ottawa, Ontario, Canada Leo Herz, Chicago, Ill. Enrique Hidalgo, Cienfuegos, Cuba Virgil Horton, Chicago, Ill. Charles A. Marion, New Orleans, La. Kenneth Morey, Easthampton, Mass. Arthur Parfitt, Cleveland, Ohio Chester Roman, Chicago, Ill. Frank Sekach, Detroit, Mich. Robert Skyten, East Brookfield, Mass. Robert Trubee, Brentwood, N. Y.

## Just Dialing Around • • • By CARLETON LORD

PET peeve of the month concerns the current tendancy of a few orchestra leaders to forget their prime purpose in everyday life and attempt to become personality boys.

The trend might be traced back a dozen years to the days when Rudy Vallee began to announce his own programs. Or perhaps Ben Bernie started it when he laid aside his fiddle at too frequent intervals to kid the public and interview visiting firemen.

But whatever the precedent, the past six months have found an increasing number of bandsmen with battalions of bees in their bonnets. Apparently they believe that no broadcast can be complete without a flood of silly riddles being fired at innocent bystanders.

Once a week Jan Garber has a "Movie Night" and, while his grand band remains silent, dancers are regaled by asinine questions about the stars. The swell Dixieland swing of Bob Crosby is silenced one night each week in favor of a "Candid Camera Club," which is just another name for a musical memory test. The "Makes-You-Want-to-Dance" music of Kay Kyser is interrupted each Wednesday evening in the interests of a sponsor who has the warped notion that a "Kollege of Musical Knowledge" makes good listening.

The cheese cake, however, goes to Horace Heidt, who seems to have the idea that he is the long-awaited Robert Taylor of the air. His devastating personality is thrown into high gear



as, without provocation, he oozes down from the podium to greet the "lovely crowd" gathered to pay tribute. Ah, yes! It is a great evening when Horace salutes the multitude and allows a privileged few to be interviewed before the microphone.

Other lesser-known bandsmen are following the same general idea, but these are notable examples of topranking stars who seem to forget that listeners expect them to furnish music in their own distinctive styles. It may be a great experience for the dancers who are questioned, but there are increasing numbers of dialers who wish the riddles and quizzes would be restricted to the vox poppers.

Before the advent of radio, it took years and sometimes decades for American songs to acquire the status of a tradition in the music culture of this country, Andre Kostelanetz points out. In his opinion, one of the little-realized virtues of radio is the speed by which it establishes many songs in the minds and hearts of listeners.

"Within the last five or six years, several selections rapidly became known to and appreciated by the public," he explains. "Songs that would have required almost ten times that period in the past, have earned a permanent place in American music."

Whether this influence of radio is really beneficial will be something to decide in future years. For every popular song introduced by radio, three or four really excellent tunes are rapidly killed by constant repetition. Those complaints by music publishers against the Hit Parade seem to bear out this contention.

Traditional Strauss, Friml, Lehar and Herbert successes did not require a radio stimulant to become popular. If they had been pushed by every rand in the air, it is not unlikely that they might have suffered the same fate as more recent hits of equal appeal.

TIME MARCHES ON — It could only happen in Hollywood. On one of Jimmy Durante's radio appearances, he got an agent to secure the services of two writers, Arthur Sheekman and Nat Perrin. These two boys turned out an uproariously funny script and Durante showed his appreciation by presenting each of the pair with a fine watch.

This burned up the agent who secured the two script writers, as he felt that he deserved a little something in the way of a commission. Sheekman and Perrin sympathized with him, although they couldn't very well give him part of a watch as his share. So they did the next best thing. They called him on the telephone every ten minutes and told him what time it was.

Radio is infrequently the object of attacks by people who live in the glory of the past. They claim that radio is creating no tradition and will leave no fond memories for posterity to treasure.

They are the persons who will spend hours telling of performances by John Drew, Wilton Lackaye, Jeanne Eagles and other immortals of the theater. Then they will reminisce of the hallowed film achievements of John Bunny, Wallace Reid and Lon Chaney. You are smugly dared to produce radio names from the current crop whose deeds will live in similar fashion.

Broadcasting is, of course, barely 18 years old. Its long pants are still being lengthened to meet the tops of its shoes, and it seldom shaves more than once a week. And while it is hardly fair to compare it with older fields of entertainment, radio makes no apologies and asks no favors.

At this relatively early stage of its history, it has produced some names which will live in the years to come. Walter Damrosch is doing wonderful



The Smoothies, popular radio trio.

work for the musically uninitiated. His intelligent interpretations of the classics have established a new importance for radio.

The Mauve Decade had its Wilson Mizners and Wilton Lackayes, whose brilliant barbs have stood the test of time. But here's a prediction: Fred Allen's salty microphone comments on the current American scene will be remembered years hence as highlights of this time.

Paul Whiteman's air sponsorship of important semi-classical music, as arranged by Ferde Grofe, will recall fend memories in the years to come. The exciting personality of Helen Hayes and the unique programs of Phil Lord will provide plenty of fireside fodder for the old gaffers of a new generation.

\* \* \*

The proving ground for radio comcdians' jokes is full of bumps. If his wife won't laugh at his gag, if it leaves his grandmother cold, if his fellow players greet it with blank expressions of pitying scorn—well, the joke's on him.

Wives, fellow-players and a grandmother are among the hardy souls on whom the CBC comedian tries his jest before springing it on network listeners.

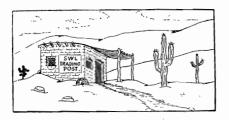
One of Columbia's leading comedians, however, is different. The

very first thought Eddie Cantor gets of an alleged gag is kept quite to himself. "My wife and children," he reports, "are not burdened. When I think of a new joke, I repeat it aloud to myself. By this method, I first judge its effectiveness."

Well known, of course, is Cantor's tested practice of submitting the finished product to invited studio audiences before it goes on the air. It takes the form of a public "dress rehearsal," held in the same studio and under the same conditions as it will be a few hours later before an open microphone. When the gag doesn't get the desired response from the dress rehearsal audience, it gets the hook.

Phil Baker places the whole burden of rating his jokes on his attractive wife, Peggy Cartwright. The worst reward he can look for is a patient smile, which is enough to doom the gem he has uttered. Infinitely more capricious are his little children, Margo, 2, and Stuart, 3. One time he brought his script home, they stole it from his pocket, studied it wonderingly for several minutes, and then ceremoniously tore it into swirling shreds.

It's George Burns' brother—and not Gracie's missing one—who hears the pearl of humor first after George thinks of it. Willy has to laugh at it—and right away.



#### **RAY EVERLY**



DXer Ray Everly of Newton, Ill., is a DXer of nearly ten years standing, having started his tuning activities in March of 1929. His first verification was from CKAC, received on November 5, 1929.

Ray uses two receivers, a 1931 model. 12-tube Scott, and a 1938 Patterson PRI15, but has used many different kinds in the past, including a Scott battery set, Scott AC-10, HFL Masterpiece, RME69, Patterson PR16 and HRO Jr.

His log to date is 1041 stations, with most of them verified. His tuning is confined exclusively to the broadcast band, and the 20 meter amateurs. He considers his diploma from LR5 as his finest verification.

but his favorite sport is logging 100 watters on the west coast.

A RADEX subscriber since 1930, he has a complete file of back issues from Number 38 to the current month. He is a member of The RADEX Club, the Illinois Director of the Newark News Radio Club and a member of the Quixote Radio Club.

Jim C. Moulton, 4912 Quebec St., N. W., Spring Valley, Washington, D. C. (SWL cards).

W. H. Herman, 1622 E. 78th St., Cleveland, Ohio. (SWL cards).

Jack Wells, 100-14th St., Phenix City, Ala. (cards and correspondence).

John Roscoe, 5351 St. Aubin, Detroit, Mich. (SWL cards).

Raymond A. Skidmore, 2311 Pasadena Ave., Detroit, Mich. (cards and correspondence).

Stanley Brus, 1441 Bell Ave., North Braddock, Pa. (SWL cards).

Roy H. Babbitt, Route 1, Killingly, Conn. (SWL cards).

Sam Graham, Box 435, Panhandle, Texas (SWL cards).

Lewis R. Hill, 2138 S. 1th Ave., Maywood, Ill. (SWL cards).

#### **Cuban Frequency Changes**

THE Secretary of Communications of the Republic of Cuba has assigned new frequencies to many of the Havana stations, and granted licenses to two new broadcasters, according to Sr. G. R. Barbarrosa of Radiomania, in Havana. The frequencies of the stations in the interior of the country will also be changed, Sr. Barbarrosa states.

The two new stations are CMCH on 1050 kcs., and CMBH on 1600 kcs., extending the broadcast band from 1500 down to 1600 kcs. Other stations which have been moved to this part of the band are CMC, which is now on 1530, and CMBF, broadcasting on 1560 kcs.

#### QUESTIONS and ANSWERS

W. L. D., Brooklyn, N. Y.: I get high power stations about 20 points off on my dial. How can I correct this?

Answer: The set is not properly aligned or the oscillator circuit is out of adjustment, provided that the dial mechanism has not slipped. Take the receiver to a good service man and have it tested with an oscillator and adjusted and lined up so that all stations come in at their proper points on the dial.

B. O. B., Kingsport, Tenn.: I want to build a metal locator which is similar to a radio receiver. Where can I get plans, and will it locate metal under the surface of the earth?

Answer: Every now and then a metal locator, which is a sort of radio divining apparatus, is invented. Several of the popular magazines publishing scientific articles have described such devices, and we suggest you write the editors for further information. We cannot say whether the instruments are useful, but they are theoretically correct from a radio standpoint.

J. P. B., Vandergrift, Pa.: I travel a lot and carry my radio along. But it is hard to use suitable aerials in hotels and elsewhere. A short wire out of the window does not seem sufficient. What do you suggest?

Answer: For a small receiver a good antenna is almost a necessity. Use a metal battery clip attached to a piece of wire and hook it to the bed spring in your room. Then, an extra piece of wire dropped out of the window will help. This method might give you enough antenna capacity. It is very difficult, as a rule, to obtain enough antenna length in hotel rooms for distant reception on small sets.

M. R., Amherst, Mass.: My broadcast receiver often picks up key-operated tele-

graph stations. How can I keep this form of interference out?

Answer: On the broadcast band it is common to hear code signals if one is located not far from large radio telegraph stations. While the code is not on the same wave-length as your broadcast band, you frequently hear the harmonics. Then, too, the set may be at fault by having some inherent system of harmonics to which it is sensitive. These signals are almost impossible to eradicate, but sometimes a good wave trap is beneficial. The trap can be tuned to reject the unwanted signal on that particular wave length, but it will also hold back broadcast signals on the same wave.

A. E. D., Chicago, Ill.: My Zenith had glass tubes which I replaced with metal tubes. The broadcast band is broad and image frequencies appear on the short waves. What shall I use?

Answer: If the set worked well with glass tubes, it was aligned at the factory for those tubes. The use of metal tubes calls for realignment. But we think the metal-glass tubes would be better than the all metal. We do not believe the reception would be improved, and perhaps it would be best for you to go back to the original tubes.

E. D., Pawnee City, Nebr.: A power line with transformers is behind my house, and interference is so bad on my set that from 20 meters up the set is useless. What can I do?

Answer: We are very sorry, but there is little that you can do. A short antenna, as far away as possible, with noise reducing lead-in and no ground, might improve things. The interference from transformers and wires comes from leakage, which is worse in wet weather, and induction from the magnetic field around the lines.

V. O., Independence, Mo.: I like to hear shore wave stations, but my Philco 116-B does not get many such signals. Will I have to get a regular communications receiver?

Answer: Very few of the earlier allwave receivers will bring in many short wave stations on one band at a time. They usually pick up only the stronger stations if conditions on the bands are right. The modern all-wave sets are better but not as good as a commercial communications receiver. This is quite natural. The communications receiver will crowd all the bands with signals, often so that they are difficult to understand. Tuning, however, is sharp, and there is no trouble receiving hundreds of stations. For real DX work, when tone is not valued too highly, the sharp-tuning communications receivers are hard to beat. Good ones, however, are more costly than all-wave home receivers.

A. F., Toronto, Can.: I have a Radiola 60. Which is the detector tube? How can I hook a phonograph pickup to this set?

Answer: The Radiola 60 has 9 tubes. The first detector is a type 27 tube third from the type 80 in the corner of the chassis. The second detector is a type 27 second from the other end, next to the type 71A audio tube. Connect the phonograph pickup to the second detector by means of an adapter which can be purchased as any large radio supply house.

W. K., Indianapolis, Ind.: How can I attach an R.C.A. speaker to a 1937 R.C.A. receiver so as to use two speakers?

Answer: An article elsewhere in this magazine deals with the installation of an extra speaker. Not knowing the model of your set and the resistances of the two speakers we cannot give you definite details for best operation.

M. S., Oakland, Calif.: I have read much about pre-selectors. I would like to build one, if you can give me the names of some good kits. Answer: Write to the Meissner Mfg. Co., Mt. Carmel, Ill., and the J. W. Miller Co., 5917 So. Main Street, Los Angeles, Calif., for information about their kits. But please mention RADEX.

C. A. Benson, Ill.: I built a two tube battery set and wish to eliminate hum as I expect to use headphones. How is this done? An electric lamp will be close to the receiver.

Answer: A battery set should have no hum in it as hum is the result of poor rectification of house lighting current. Any hum you might pick up will be due to induction from power lines. The low-voltage wires of the nearby electric lamp should not prove troublesome.

W. H., Pittsburgh, Pa.: My Stewart Warner 801 brings in automobile static and 160-meter amateurs on 760 kilocycles. Is this a natural point for interference or images?



From radio station WKAT in Miami Beach, Florida, comes this appropriate card, showing a "kat" at the microphone. In the upper right hand corner, "Today's Temperature" is given, as high, 82, and low, 70 degrees. Russell H. Bennett, the Chiel Engineer, signed the card. (Courtesy of Francis Coradetti).

Answer: It is likely that this frequency is a weak spot in your tuning and that harmonics and image frequencies appear at this point on the dial. We suggest you

have the set aligned and adjusted by a competent service man. A good wave trap tuned against 760 meters should reject some of the interfering signals.

W. J. A., Venice, Calif.: I have a Crosley model 53 Low Boy. Tell me what causes it to fade and have intermittant reception. What is the remedy?

Answer: The volume control may be in need of cleaning or replacing. Tubes, of course, must be in good shape. Sometimes a new 0.5 mfd. condenser that is between the speaker voice coil and type 45 audio output tube grid-bias resistor, is a big help. Check all resistors, condensers and unsoldered contacts, such as the speaker plug.

L. H., Ottawa, Ont.: I have a 6 tube Majestic and get two-point reception of a local station, just 20 points lower than the corect setting where the station also is heard. Why is this?

Answer: This could not be a form of image frequency, unless it comes in the form of a harmonic. There is little you can do, since often the harmonic of a station is picked up the same as its fundamental signal, and this harmonic sets up its own image or double-spot signal. There are many combinations that can be computed for signals, and we think your trouble is one of these. We suggest you try a wave trap tuned to the interfering signal at the incorrect dial reading.

Charles Houde, Managing Director of CHNC, "The Voice of La Baie des Chaleurs," New Carlisle, Quebec, calls our attention to the fact that his station will commence broadcasting on the new frequency of 610 kcs. on January 1st, 1939. CHNC's present assignment is 960 kcs.

#### Amateur Calls Heard

The names and addresses of persons reporting stations shown in this list are indicated by small letters following the call signs. Key to the small letters is given at the end of the column. Stations are listed only if reported by more than one listener.

#### TEN METERS

G2VM (g); G2ZV (g); G5LJ (g); G5SL (g); G8SA (g); HC1FG; (g); HI7G (gi): HR4AF (g); K4EIL (i); K4EJG (d); K4FAB (gi); K4FDG (i); K4SA (gi); K6MVV (i); LU1DJ (gi); LU9BV (i) PAOFB (g); T12FG (i); T13AV ;(gi): VK2GU (gi); VP5IS (i); XE2FC (i); XE2SE (g); YN3DG (d); YV1AP (i); YV1AQ (dgi); ZE1JZ (i); ZS6DW (i); ZS6S (i) ZS6S (i).

#### TWENTY METERS

CO2JJ (ab); CO2WW (ab); CX2CO (ai); EI6G (bi); FA3HC (ej); G2AV (bg); G2DV (bi); G2MF (bi); G2PU (bi); G2UT (bj); G2XV(bi); G5KH(bi); G5ML(dgi); G5NI(bg); G5QN (bi); G6HV (bi); HC1FG (dgi); HC1PZ (aj); HC2HP (bj); HH2B (bdef); HH4AS (bij); HH5PA (dhi); HI3N (bcdij); HI5X (bcgij); HI7G (abei); HK3CG (di); HK3LC (bde); HK4AG (bi); HR5C (bdegj); KA1BH (af); KA7EF (bf); K4EVC (abdh); K4FAY (abdi); K4FKC (bch); K5AH (bi); K6ILW (deg); K6OJI (bdeg); LU1JC (ab); LU4BC (bdij); LU7BK (ej); LU8AC (bi).

OA4C (gj); PK3WI (af); PK6XX (efj); PY1FR (bh); PY2AK (di); TG9BA (bj); TI2AV (di); TI2FG (adegi); TI2LR (bdhi); VK2NS (hdegi); VK2TO (aj); VK3BZ (ij); VK3EH (ab); VK3HG (ij); VK3KX (ab); VK4JP (abeij); VK4JU (dej); VK4VD (ej); VK5BF (ij); VK6MW (ij); VK7CL (aj); VP3AA VP1BA (bdei); (bcfg); (bcdeh); VP7NS (bcdgj); VP7NU (bdgj); VP9G (bj); XE1Q (abci); XE2IK (bg); YN1OP (ij); YV1AQ (bcdfghi); YV4AE (dgi); YV5ABF (bgbi); YV5ABY (bdg); ZS5AW (af); ZS6DW (bd); ZS6H (a).

#### THE REPORTERS

- (a)
- (c) (d)
- C. J. Fern, Jr., Lihue, Kauai, Hawaii. A. M. Hankins, Latrobe, Pa. Lewis R. Hill, Maywood, Ill. Merton T. Meade, Kansas City, Mo. Benjamin Peet, New York, N. Y. Harold Satterthwaite, Los Angeles, Calif. (e) (f)
- Bob Taglauer, Covington, Ky. (g) (b)
- John Tate, Petersburg, Va. Walter E. Welch, Lynn, Mass.
- Jack Wells, Phenix City, Ala.

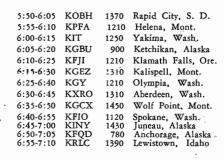
### The Monthly Frequency Checks

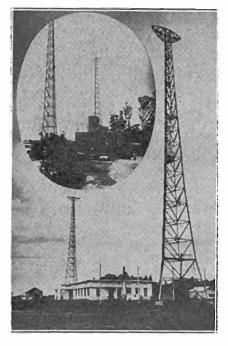
|                        |              | l n          | e Monthly F  | requent                         | .y C.        | CCR          | •   |
|------------------------|--------------|--------------|--|---------------------------------|--------------|--------------|---|
| T300 46                |              | of           | checking the fre-  | 3:40-3:55                       | WAYX         | 1200         | Waycross, Ga.   |
| H'OR TI                | e purpo      | se or        | tations which can  |                                 | WBLY         | 1210         | Lima, Ohio  |
| - quen                 | cies of s    | maii         | stations which can-  | 3:45-4:00                       | WDNC<br>WPAY | 1500         | Durham, N. C.   |
| not be r               | neard sat    | ristact      | orily on their reg-  | 3:50-4:05                       | WAIR         | 1370<br>1250 | Portsmouth, Ohio<br>Winston-Salem, N. C.  |
| ular daily             | y transm     | ission       | s, the Federal Com-  | 3.50-4.05                       | WMBC         | 1420         | Detroit, Mich.  |
| municati               | ons Com      | missi        | on requires month-   | 3:55-4:10                       | KWOC         | 1310         | Detroit, Mich.<br>Poplar Bluff, Mo.<br>Zanesville, Ohio   |
| ly monit               | oring br     | oadca        | sts from a selected  |                                 | WALR<br>WMFR | 1210         | High Point, N. C.   |
| group of               | stations     | . Fol        | lowing is the latest   | 4:00-4:15                       | WHBB         | 1200<br>1500 | Selma, Ala.   |
| available              | schedu       | ıle o        | f the test trans-  | 4.00-4.17                       | WKRC         | 550          | Cincinnati, Ohio  |
| missions.              |              |              | is am., Eastern  | 4:05-4:20                       | WFAM         | 1420         | St. Cloud, Minn.  |
| Standard               |              |              |  | 4.10 4.25                       | WCLE         | 610          | Cleveland, Ohio<br>Alexandria, La.  |
|                        |              |              | Mandan   | 4:10-4:25                       | KALB<br>WLBC | 1210<br>1310 | Alexandria, La.<br>Muncie, Ind.   |
|                        |              |              | Monday   | 4:15-4:30                       | KELD         | 1370         | El Dorado, Ark.   |
| 3:00-3:15              | WABY         | 1370         | Albany, N. Y.  |                                 | WOPI         | 1500         | Bristol, Tenn.  |
| 3:05-3:20              | WMAS<br>WCAX | 1420<br>1200 | Springfield, Mass.<br>Burlington, Vt.  | 4.00 4.26                       | WWAE         | 1200         | Hammond, Ind.   |
| 3:10-3:25<br>3:15-3:30 | WRDO         | 1370         | Burlington, Vt. Augusta, Maine Presque Isle, Maine St. Albans, Vt. Plattsburg, N. Y.   | 4:20-4:35                       | WACO<br>WBCM | 1420<br>1410 | Waco, Tex. Bay City, Mich. Houston, Tex. Ashland, Ky.   |
| 3:20-3:35              | WAGM         | 1420         | Presque Isle, Maine  | 4:25-4:40                       | KXYZ         | 1440         | Houston, Tex.   |
| 3:30-3:45              | WQDM         | 1390         | St. Albans, Vt.  |                                 | KXYZ<br>WCMI | 1310         | Ashland, Ky.  |
| 3:35-3:50              | WMFF         | 1310<br>1220 | Capton Ohio  |                                 | WSIX         | 1210         |   |
| 3:45-4:00<br>3:50-4:05 | WCAD<br>WLNH | 1310         | Laconia, N. H.   | 4:30-4:45                       | KGKL<br>WHBY | 1370<br>1200 | San Angelo, Tex.<br>Green Bay, Wisc.<br>Kosciusko, Miss.  |
| 3:55-4:10              | WIBX         | 1200         | Utica, N. Y.   |                                 | WHEF         | 1500         | Kosciusko, Miss.  |
| 4:00-4:15              | WWRL         | 1500         | Woodside, N. Y.  | 4:35-4:50                       | KCMC         | 1420         | Texarkana, Tex.<br>Cleveland, Ohio  |
| 4:05-4:20              | WMBO         | 1310         | Auburn, N. Y.  |                                 | WHK          | 1390         | Cleveland, Ohio   |
| 4:10-4:25              | KDNT<br>WBRB | 1420<br>1210 | Plattsburg, N. Y. Canton, Ohio Laconia, N. H. Utica, N. Y. Woodside, N. Y. Auburn, N. Y. Denton, Texas Red Bank, N. J. Laredo, Texas | 4.40.4.55                       | WSGN         | 1310         | Birmingham, Ala.<br>Weslaco, Tex.   |
| 4:15-4:30              | KPAB         | 1500         | Laredo, Texas  | 4:40-4:55                       | KRGV<br>WADC | 1260<br>1320 | Akron, Ohio   |
| 4:20-4:35              | KVOX         | 1310         | Moorhead, Minn.  | 4:45-5:00                       | KTOK         | 1370         | Oklahoma City, Okla.  |
| 4:25-4:40              | KFPW         | 1210         | Fort Smith, Ark.   |                                 | WJBK.        | 1500         | Detroit, Mich.  |
| 4:30-4:45              | WMIN         | 1370<br>1420 | St. Paul, Minn.<br>Palestine, Tex.   | 4:50-5:05                       | KGFF         | 1420         | Shawnee, Okla.  |
| 4:35-4:50<br>4:40-4:55 | KNET<br>WBBZ | 1200         | Ponca City, Okla.  | 4:55-5:10                       | KFVS<br>KMAC | 1210<br>1370 | Cape Girardeau, Mo.<br>San Antonio, Tex.  |
| 4:45-5:00              | WFGO         | 1370         | Boone, Iowa  | 5:00-5:15<br>5:05-5:20          | KAND         | 1310         | Corsicana, Tex.   |
| 4:50-5:05              | KRBC         | 1420         | Abilene, Tex.  | 5:10-5:25                       | KLAH         | 1210         | Corsicana, Tex.<br>Carlsbad, N. Mex.  |
| 4:55-5:10              | KGHI<br>KTEM | 1200<br>1370 | Little Rock, Ark.<br>Temple, Tex.  | 5:15-5:30                       | KIUP         | 1370         | Durango, Colo.  |
| 5:00-5:15<br>5:05-5:20 | KABR         | 1390         | Aberdeen, S. Dak.<br>Sterling, Colo.<br>Fort Worth, Tex.   | 5:20-5:35<br>5:25-5:40          | KFXR<br>KDLR | 1310<br>1210 | Okla. City, Okla.<br>Devils Lake, N. Dak.   |
| 5:10-5:25              | KGEK         | 1200         | Sterling, Colo.  | 5:30-5:45                       | KICA         | 1370         | Clovis, N. Mex.<br>Honolulu, T. H.<br>Jonesboro, Ark.   |
| 5:15-5:30              | KFJZ         | 1370<br>1420 | Fort Worth, Tex.   | 5:35-5:50                       | KGMB         | 1320         | Honolulu, T. H.   |
| 5:20-5:35              | WMBH<br>WIL  | 1200         | Joplin, Mo.<br>St. Louis, Mo.  | 5:40-5:55                       | KBTM         | 1200         | Jonesboro, Ark.   |
| 5:25-5:40<br>5:30-5:45 | WOC          | 1370         | Davenport, Iowa  | 5:45-6:00<br>6:05-6:20          | KRMC         | 1370<br>1420 | Jamestown, N. Dak.<br>Eugene, Ore.<br>Marshfield, Ore.  |
| 5:35-5:50              | KABC         | 1420         | San Antonio, Tex.  | 6:10-6:25                       | KORE<br>KOOS | 1200         | Marshfield, Ore.  |
| 5:40-5:55              | KADA         | 1200         | Ada, Okla  | 6:15-6:30<br>6:20-6:35          | KAST         | 1370         | Astoria, Ore.<br>Wentachee, Wash.   |
| 5:45-6:00              | KLUF<br>KHBC | 1370<br>1400 | Galveston, Tex.<br>Hilo, T. H.   | 6:20-6:35                       | KPQ<br>KFXD  | 1500         | Wentachee, Wash.  |
| 5:55-6:10<br>6:00-6:15 | KRE          | 1370         |  | 6:25-6:40<br>6:30-6:45          | KUJ          | 1200<br>1370 | Nampa, Idaho<br>Walla Walla, Wash.  |
| 6:05-6:20              | KXO          | 1500         | El Centre, Calif.<br>Stockton, Calif.<br>Bakersfield, Calif.   | 6:35-6:50                       | KRNR         | 1500         | Roseburg, Ore.  |
| 6:10-6:25              | KWG          | 1200         | Stockton, Calif.   | 6:35-6:50<br>6:40-6:45          | KVOS         | 1200         | Bellingham, Wash.   |
| 6:15-6:30              | KERN         | 1370         | Yuma, Ariz.  | 6:45-7:00                       | KEEN         | 1370         | Seattle, Wash.  |
| 6:20-6:35              | KUMA<br>KVCV | 1420<br>1200 | Redding Calif.   | 6:50-7:05                       | KMED         | 1410<br>780  | Medford, Ore.   |
| 6:25-6:40<br>6:30-6:45 | KLS          | 1280         | Oakland, Calif.  | 6:55-7:10<br>7:00-7:15          | KWLK<br>KRKO | 1370         | Longview, Wash.<br>Everett, Wash.   |
| 6:35-6:50              | KYOS         | 1040         | Redding, Calif. Oakland, Calif. Merced, Calif.   | 7.00-7.17                       |              |              | Wednesday   |
| 6:40-6:55              | KSUN         | 1200         | Lowell, Aliz.  | 3:00-3:15                       | WTEL         | 1310         | Philadelphia Pa   |
| 6:45-7:00              | KGDM         | 1100         | Stockton, Calif.   | 3:05-3:20                       | WNBF         | 1500         | Binghamton, N. Y. Lynchburg, Va.  |
| 6:50-7:05              | KIEM         | 1450<br>1200 | Eureka, Calif.<br>San Luis Obispo, Cal.  | 3:10-3:25                       | WLVA         | 1200         | Lynchburg, Va.  |
| 6:55-7:10<br>7:00-7:15 | KVEC<br>KARM | 1310         | Fresno, Calif.   | 3:15-3:30                       | WSAJ         | 1310         | Grove City, Fa.   |
| 7:05-7:20              | KGLU         | 1420         | Safford, Ariz.   | 3:20-3:35<br>3:25-3: <b>4</b> 0 | WWSW<br>WBAX | 1500<br>1210 | Pittsburgh, Pa.<br>Wilkes-Barre, Pa.  |
|                        | The Se       | cond         | Tuesday  | 3:30-3:45                       | WHAT         | 1310         | Dhiladalahia Da   |
| 3:00-3:15              | wsjs         | 1310         | Winston-Salem, N. C.   | 3:35-3:50                       | WRTD         | 1500         | Richmond, Va.   |
| 3:05-3:20              | WMFJ         | 1420         | Daytona Beach, Fla.  | 3:40-3:55                       | WBBL         | 1210         | Richmond, Va. Richmond, Va. Richmond, Va. Buffalo, N. Y. Hobbs, N. Mex. Bluefield, W. Va. Sunbury, Pa. Altoona, Pa. |
| 3:10-3:25              | WAIM         | 1200         | Anderson, S. C.  | 3:45-4:00                       | WBNY         | 1370<br>1500 | Bullalo, IN. Y.   |
| 3:15-3:30              | WMFD         | 1370         | Wilmington, N. C.<br>Rocky Mt., N. C.  | 3:50-4:05                       | KWEW<br>WHIS | 1410         | Bluefield, W. Va.   |
| 3:20-3:35              | WEED<br>WJNC | 1420<br>1200 | West Palm Beach, Fla.  | 3:55-4:10                       | WKOK         | 1210         | Sunbury, Pa.  |
| 3:25-3:40<br>3:30-3:45 | WRDW         | 1500         | Augusta, Ga.   | 4:00-4:15                       | WFBG         | 1310         | Altoona, Pa.  |
| 3:35-3:50              | WICA         | 940          | Ashtabula, Ohio  | 4:05-4:20                       | KRIC         | 1420         | Beaumont, Tex.<br>Galesburg, Ill.   |
| ,,.                    | WIOD         | 610          | Miami. Fla.  |                                 | WGIL         | 1500         | Galesburg, III.   |
|                        |              |              |  |                                 |              | -            |   |

|   |   |  |   |   | w.on.o  |  |   |
|---|---|--|---|---|---|--|---|
|   | WQAN  | 880  | Scranton, Pa.   |   | WGRC  | 1370   | New Albany, Ind.  |
| 4:10-4:25   | KWNO  | 1200   | Winona, Minn.<br>Olean, N. Y.   | 4:50-5:05   | KOTN  | 1500F  | ine Bluff, Ark.   |
|   | WHDL  | 1400   | Olean N V   | 4:55-5:10   |   | 760 8  | t. Louis, Mo.   |
|   |   |  | Olean, IV. I.   | 4.77-7.101  |   |  |   |
| 4:15-4:30   | KRIS  | 1330   | Corpus Christi, Tex.  |   | WJMS  | 1420   | Ironwood, Mich.   |
|   | WEBR  | 1310   | Buffalo, N. Y.  | 5:00-5:15   | KGHF  | 1320   | Pueblo, Colo.   |
|   | WIBM  | 1370   | Jackson, Mich.  |   | WHDF  | 1370   | Calumet, Mich.  |
| 1 00 1 00   |   |  | Di- Carian Tan  |   |   |  |   |
| 4:20-4:35   | KBST  | 1500   | Big Spring, Tex.<br>Parkersburg, W. Va.<br>Des Moines, Iowa   | 5:05-5:20   | KGFI  | 1500   | Brownsville, Tex.   |
|   | WPAR  | 1 <b>4</b> 20  | Parkersburg, W. Va.   |   | WTRC  | 1310   | Elkhart, Ind.   |
| 4:25-4:40   | KSO   | 1430   | Des Moines Iowa   | 5:10-5:25   | KHBG  | 1210   | Okmulgee, Okla.   |
| 4.2)-4.40   |   |  | Janesville, Wis.<br>Rochester, Minn.  |   |   |  |   |
|   | WCLO  | 1200   | janesville, wis.  | 5:15-5:30   | KONO  | 1370   | San Antonio, Tex.   |
| 4:30-4:45   | KROC  | 1310   | Rochester, Minn.  | 5:20-5:35   | KGKB  | 1500   | Tyler, Tex.   |
|   | WEOA  | 1370   | Evansville, Ind.  | 5:25-5:40   | KASA  | 1210   |   |
|   |   |  | Delega Mine   |   |   |  | Elk City, Okla.   |
| 4:35-4:50   | KDAL  | 1500   | Duluth, Minn.   | 5:30-5:45   | KFRO  | 1370   | Longview, Tex.  |
|   | WELL  | 1420   | Battle Creek, Mich.   | 5:35-5:50   | KNOW  | 1500   | Austin, Tex.  |
| 4:40-4:55   | WHBC  | 1200   | Canton, Ohio  | 5:40-5:55   | WMFG  | 1210   | Hibbing Minn  |
|   | WTAW  | 1120   | Canton, Ohio<br>College Sta., Tex.  | 5:45-6:00   | KRLH  | 1420   | Hibbing, Minn.<br>Midland, Tex.   |
|   |   |  | College Sta., Tex.  |   |   |  | Midiand, 1ex.   |
| 4:45-5:00   | KRMD  | 1310   | Shreveport, La.<br>Wausau, Wis.   | 5:50-6:06   | KCRJ  | 1310   | Jerome, Ariz.   |
|   | WSAU  | 1370   | Wausau, Wis.<br>Brady, Tex.   | 5:55-6:10   | KIUL  | 1210 .   | Garden City, Kans.  |
| 4:50-5:05   | KNEL  | 1500   | Brady Tev   |   | KVOA  | 1260   | Tucson, Ariz.   |
| 4.70-7.07   |   |  | Tady, Icx.  | C.0/ (.00   |   |  |   |
|   | WLAP  | 1420   | Lexington, Ky.  | 6:06-6:20   | KHUB  | 1310   | Watsonville, Calif.   |
| 4:55-5:10   | KFDM  | 560  | Beaumont, Tex.  | 6:10-6:25   | KSAN  | 1420   | San Francisco, Calif.   |
|   | WFAM  | 1200   | South Bend, Ind.  | 6:15-6:30   | KGAR  | 1370   | Tucson, Ariz.   |
|   |   |  |   |   |   |  |   |
| 5:00-5:15   | KPDN  | 1310   | Pampa, Tex.   | 6:20-6:35   | KSRO  | 1310   | Santa Rosa, Calif.  |
|   | WHLS  | 1370   | Port Huron, Mich.   | 6:25-6:40   | KTRB  | 740  | Modesto, Calif.   |
| 5:05-5:20   | KPLT  | 1500   | Paris, Tex.   | 6:30-6:45   | KJBS  | 1070   | San Francisco, Calif.   |
|   |   |  |   |   |   |  | Calla Cita IIIa   |
| 5:05-5:20   | WCBS  | 1420   | Springfield, Ill.   | 6:35-6:50   | KSUB  | 1310   | Cedar City, Utan  |
| 5:10-5:25   | KGKO  | 570  | Forth Worth, Tex.   | 6:40-6:55   | KDON  | 1210   | Cedar City, Utah<br>Monterey, Calif.<br>Honolulu, T. H.   |
| 5:15-5:30   | KFPL  | 1310   | Dublin, Tex.  | 6:45-7:00   | KGU   | 750  | Honolulu T. H.  |
| ,,,,,,,,,   | WDWS  | 1370   |   | 6:50-7:05   | KHSL  | 1260   | Chica Calif   |
|   |   |  | Champaign, Ill.   |   |   |  | Chico, Calif.   |
| 5:20-5:35   | KAWM  | 1500   | Gallup, New Mex.  | 6:55-7:10   | KROY  | 1210   | Sacramento, Calif.  |
|   | WPAD  | 1420   | Paducah Ku  |   | 71.   | •  |   |
| 5.25 5.40   | KGLO  | 1210   | Mason City, Iowa  |   | i ne s  | econo  | l Friday  |
| 5:25-5:40   |   |  | Mason City, Iowa  | 3:00-3:15   | WSVS  | 1370   | Buffalo, N. Y.  |
|   | WJBC  | 1200   | bloomington, ills.  | 3:05-3:20   | WILLC   | 1310   | Johnstown, Pa.  |
| 5:30-5:45   | KŘRV  | 1310   | Sherman, Tex.   | 5:05-5:20   | WJAC<br>WJTN  |  | Johnstown, Pa.  |
|   | WGL   | 1370   | Fort Wayne, Ind.  | 3:10-3:25   | WJIN  | 1210   | Jamestown, N. Y.  |
|   |   |  | Cantach luff Nich   | 3:1513:30   | WBLK  | 1370   | Clarksburg, W. Va.  |
| 5:35-5:50   | KGKY  | 1500   | Scottsbiuit, INCD.  | 3:20-3:35   | WLEU  | 1420   | Erie, Pa.   |
| 5:40-5:55   | WIBU  | 1210   | Povnette, Wis.  |   |   |  | 17110, 14.  |
|   |   |  |   |   |   |  |   |
| 5:45-6:00   | KRBA  |  | Lufkin, Tex.  | 3:25-3:40   | WCAP  | 1280   | Asbury Park, N. J.  |
| 5:45-6:00   | KRBA  | 1310   | Fort Wayne, Ind.<br>Scottsbluff, Neb.<br>Poynette, Wis.<br>Lufkin, Tex.   | 3:25-3:40   | WCAP  | 1280<br>1210   | Asburý Park, N. J.<br>Rochester, N. Y.  |
| 5:45-6:00   |   | 1310   |   |   | WSAY  | 1210   | Rochester, N. Y.  |
|   | The Se  | 1310<br>cond   | Thursday  | 3:25-3:40<br>3:30-3:45  | WSAY<br>WDEV  | 1210<br>550  | Rochester, N. Y.  |
| 3:00-3:15   | The Se  | 1310<br>cond<br>1500   | Thursday<br>Miami Beach, Fla.   | 3:30-3:45   | WSAY<br>WDEV<br>WGH   | 1210<br>550<br>1310  | Rochester, N. Y.  |
|   | The Se<br>WKAT<br>WJRD  | 1310<br>cond   | Thursday<br>Miami Beach, Fla.   |   | WSAY<br>WDEV<br>WGH<br>WCNW   | 1210<br>550<br>1310<br>1500  | Rochester, N. Y.<br>Waberbury, Vt.<br>Newport News, Va.<br>Brooklyn, N. Y.  |
| 3:00-3:15<br>3:05-5:20  | The Se<br>WKAT<br>WJRD  | 1310<br>cond<br>1500<br>1200   | Thursday<br>Miami Beach, Fla.   | 3:30-3:45   | WSAY<br>WDEV<br>WGH<br>WCNW   | 1210<br>550<br>1310<br>1500  | Rochester, N. Y.<br>Waberbury, Vt.<br>Newport News, Va.<br>Brooklyn, N. Y.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25   | The Se<br>WKAT<br>WJRD<br>WSOC  | 1310<br>cond<br>1500<br>1200<br>1210   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C.  | 3:30-3:45<br>3:35-3:50  | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS   | 1210<br>550<br>1310<br>1500<br>1420  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30  | The Se<br>WKAT<br>WJRD<br>WSOC<br>WAML  | 1310<br>cond<br>1500<br>1200<br>1210<br>1310   | Thursday<br>Miami Beach, Fla.<br>Tuscaloosa, Ala.<br>Charlotte, N. C.<br>Laurel, Miss.  | 3:30-3:45   | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS   | 1210<br>550<br>1310<br>1500<br>1420<br>1210  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35   | The Se<br>WKAT<br>WJRD<br>WSOC<br>WAML<br>WPRA  | 1310<br>cond<br>1500<br>1200<br>1210<br>1310<br>1370   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55   | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35   | The Se<br>WKAT<br>WJRD<br>WSOC<br>WAML  | 1310<br>cond<br>1500<br>1200<br>1210<br>1310   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55   | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40  | The Se<br>WKAT<br>WJRD<br>WSOC<br>WAML<br>WPRA<br>WPAX  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga.   | 3:30-3:45<br>3:35-3:50  | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45   | The Se<br>WKAT<br>WJRD<br>WSOC<br>WAML<br>WPRA<br>WPAX<br>WQAM  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00  | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO<br>WRAW   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1310  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa.   |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50  | The Se<br>WKAT<br>WJRD<br>WSOC<br>WAML<br>WPRA<br>WPAX<br>WQAM<br>WPRP  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55   | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1310<br>1370  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia. Pa.   |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45   | The Se<br>WKAT<br>WJRD<br>WSOC<br>WAML<br>WPRA<br>WPAX<br>WQAM<br>WPRP<br>WFTC  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1200  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00  | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1310<br>1370<br>1500  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia. Pa.   |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53   | The Se<br>WKAT<br>WJRD<br>WSOC<br>WAML<br>WPRA<br>WPAX<br>WQAM<br>WPRP<br>WFTC  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1200  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05   | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1310<br>1370<br>1500  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia. Pa.   |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:40-3:53<br>3:40-3:53   | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WPAP WFTC WKAQ  | 1310<br>cond<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1200<br>1240  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00  | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB<br>WNBZ   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1310<br>1370<br>1500<br>1290  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia. Pa.   |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:30-3:50<br>3:40-3:53<br>3:45-4:00<br>3:50-4:05   | The Se<br>WKAT<br>WJRD<br>WSOC<br>WAML<br>WPRA<br>WPAX<br>WQAM<br>WPRP<br>WFTC<br>WKAQ<br>WBIG  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1200<br>1240<br>1440  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10  | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WOKO<br>WRAW<br>WDAS<br>WSYB<br>WNBZ<br>WSYR   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1310<br>1370<br>1500<br>1290<br>570   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>3:50-4:05   | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1200<br>1240<br>1440<br>1210  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15   | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB<br>WNBZ<br>WSYR<br>WBRE   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1310<br>1370<br>1500<br>1290<br>570<br>1310   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y. Wilkes-Barre, Pa.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:30-3:50<br>3:40-3:53<br>3:45-4:00<br>3:50-4:05   | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF   | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1240<br>1240<br>1240<br>1370  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10  | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB<br>WNBZ<br>WSYR<br>WBRE<br>WBTM   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1370<br>1500<br>570<br>1310<br>1370   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:30-3:45<br>3:40-3:53<br>3:40-4:05<br>3:50-4:05   | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF   | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1240<br>1240<br>1240<br>1370  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15   | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB<br>WNBZ<br>WSYR<br>WBRE<br>WBTM   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1370<br>1500<br>570<br>1310<br>1370   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>3:50-4:05   | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1240<br>1240<br>1210<br>1210<br>1210<br>1210  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20  | WSAY<br>WDEV<br>WGH<br>WCNW<br>WMBS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB<br>WNBZ<br>WSYR<br>WBRE<br>WBTM<br>WNLC   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1310<br>1500<br>570<br>1310<br>1370<br>1500   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20   | The Se WKAT WJRD WSOC WAMI WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF   | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1240<br>1240<br>1240<br>1370<br>1370<br>1310  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15   | WSAY WDEV WGH WCNW WMBS WFAS WMBG WOKO WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB  | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1310<br>1370<br>1500<br>1290<br>570<br>1310<br>1370<br>1370<br>1210   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:30-3:45<br>3:40-3:53<br>3:40-4:05<br>3:50-4:05   | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WBIG KPLC WFDF WGRM   | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1240<br>1240<br>1440<br>1370<br>1500<br>1310<br>1210  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25   | WSAY<br>WDEV<br>WGH<br>WCNW<br>WFAS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYR<br>WNBZ<br>WSYR<br>WBRE<br>WBTM<br>WNLC<br>WGBB<br>WHEC   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1310<br>1500<br>1500<br>1500<br>1500<br>1210<br>1500<br>1430  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y.   |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20   | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WBIG KPLC WFDF WGRM   | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1240<br>1240<br>1440<br>1370<br>1500<br>1310<br>1210  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25   | WSAY<br>WDEV<br>WGH<br>WCNW<br>WFAS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYR<br>WNBZ<br>WSYR<br>WBRE<br>WBTM<br>WNLC<br>WGBB<br>WHEC   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1310<br>1500<br>1500<br>1500<br>1500<br>1210<br>1500<br>1430  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y.   |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:40-4:05<br>3:50-4:05<br>4:00-4:15<br>4:05-4:20   | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WFTC WKAQ WFOY WAGF KPLC WFDF WGRM WSPD  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1240<br>1240<br>1440<br>1370<br>1500<br>1310<br>1210<br>1310<br>1310<br>1310<br>1310<br>1310<br>1370  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20  | WSAY<br>WDEY<br>WGH<br>WCNW<br>WHAS<br>WFAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB<br>WMBZ<br>WSYR<br>WBTM<br>WBTM<br>WNLC<br>WGBB<br>WHC<br>WGBB<br>WHZL  | 1210<br>550<br>1310<br>1420<br>1210<br>1350<br>1430<br>1370<br>1500<br>1290<br>570<br>1310<br>1370<br>1500<br>12430<br>1430<br>1430<br>1420  | Rochester, N. Y. Waberbury, Vt. Wewport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20   | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WGRM WSPD WCOP  | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1200<br>1240<br>1440<br>1210<br>1370<br>1310<br>1310<br>1310<br>1310<br>1320<br>1340<br>1200<br>1340<br>1200  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30  | WSAY WDEV WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WBTM WNIC WGBB WHEC WAZI WTHI   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1370<br>1500<br>1290<br>570<br>1310<br>1370<br>1310<br>1370<br>1430<br>1430<br>1440<br>1420<br>1200   | Rochester, N. Y. Waberbury, Vt. Wewport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:40-3:53<br>3:50-4:05<br>4:00-4:15<br>4:05-4:20   | The Se WKAT WJRD WSOC WAMI WPAA WPAX WQAM WPAY WFTC WFDC WAGG WFOY WAGF KPLC WFDF WCOP WCOP   | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>1420<br>12200<br>1240<br>1240<br>1210<br>1370<br>1310<br>1210<br>1340<br>1200<br>1370  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25   | WSAY<br>WDEY<br>WGH<br>WCNW<br>WHAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB<br>WNBZ<br>WSYR<br>WBTM<br>WNIC<br>WGBC<br>WGEC<br>WAZL<br>WHEC<br>WAZL<br>WHEC   | 1210<br>550<br>1310<br>1420<br>1210<br>1350<br>1430<br>1310<br>1370<br>1500<br>570<br>1310<br>1370<br>1210<br>1430<br>1420<br>1400<br>1500   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn. Brooklyn, N. Y.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30  | The Se WKAT WJRD WSOC WAMI WPAA WPAX WQAM WPAY WFTC WFDC WAGG WFOY WAGF KPLC WFDF WCOP WCOP   | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>1420<br>12200<br>1240<br>1240<br>1210<br>1370<br>1310<br>1210<br>1340<br>1200<br>1370  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30  | WSAY<br>WDEY<br>WGH<br>WCNW<br>WHAS<br>WMBG<br>WOKO<br>WRAW<br>WDAS<br>WSYB<br>WNBZ<br>WSYR<br>WBTM<br>WNIC<br>WGBC<br>WGEC<br>WAZL<br>WHEC<br>WAZL<br>WHEC   | 1210<br>550<br>1310<br>1420<br>1210<br>1350<br>1430<br>1310<br>1370<br>1500<br>570<br>1310<br>1370<br>1210<br>1430<br>1420<br>1400<br>1500   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn. Brooklyn, N. Y.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:40-3:53<br>3:50-4:05<br>4:00-4:15<br>4:05-4:20   | The Se WKAT WJRD WSOC WAML WPAA WPAX WQAM WPAY WFTC WKAG WFOY WAGF KPLC WFDF WGRM WSPD WCOP WMFO KFIZ   | 1310<br>1500<br>1200<br>1210<br>1310<br>1370<br>1210<br>560<br>1420<br>1200<br>1240<br>1210<br>1370<br>1310<br>1210<br>1340<br>1210<br>1340<br>1210<br>1370<br>1340<br>1210<br>1370<br>1420  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala Fond du Lac, Wis.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35   | WSAY WDEY WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WAZL WTHT WMBQ   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1430<br>1370<br>1500<br>1290<br>570<br>1310<br>1370<br>1430<br>1420<br>1200<br>1500   | Rochester, N. Y. Waberbury, Vt. Wewport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>3:50-4:05<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:10-4:25                           | The Se WKAT WJRD WSOC WAML WPRA WPAX WQAM WFP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WGRM WSPD WCOP WMFO KFIZ WKEU  | 1310<br>1500<br>1210<br>1310<br>1310<br>1370<br>1210<br>1420<br>1420<br>1240<br>1440<br>1310<br>1310<br>1310<br>1210<br>1340<br>1370<br>1370<br>1370<br>1310<br>1310<br>1210<br>1370<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310 | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala Fond du Lac, Wis.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE  | WSAY WDEV WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WBTM WNILC WGBB WHEC WAZI WHEC WAZI WMBQ WTHA   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1310<br>1500<br>1500<br>1500<br>1370<br>1310<br>1370<br>1310<br>1370<br>1210<br>1420<br>1200<br>1500<br>1500<br>1500<br>1500  | Rochester, N. Y. Waberbury, Vt. Wewport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa.   |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30  | The Se WKAT WJRD WSOC WAMI WPAA WPAX WQAM WPAY WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WCOP WCOP WCOP WKFU WKBIG WGBB  | 1310 1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1370 1210 1370 1210 1370 1210 1370 1200 1370 1420 1370 1420 1503   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35   | WSAY WDEY WGH WCNW WMBS WFAS WMSG WOKO WRAW WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WNIC WGBB WTAT WHEQ WRAK N — RA   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1370<br>1370<br>1500<br>1210<br>1370<br>1210<br>1430<br>1420<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1 | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford; Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>3:50-4:05<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:10-4:25                           | The Se WKAT WJRD WSOC WAMI WPAA WPAX WQAM WPAY WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WCOP WCOP WCOP WKFU WKBIG WGBB  | 1310 1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1370 1210 1370 1210 1370 1210 1370 1200 1370 1420 1370 1420 1503   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE  | WSAY WDEY WGH WCNW WMBS WFAS WMSG WOKO WRAW WDAS WSYB WNBZ WSYR WBRE WBTM WNLC WGBB WNIC WGBB WTAT WHEQ WRAK N — RA   | 1210<br>550<br>1310<br>1500<br>1420<br>1210<br>1350<br>1370<br>1370<br>1500<br>1210<br>1370<br>1210<br>1430<br>1420<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1500<br>1 | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford; Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:25<br>4:10-4:25<br>4:10-4:25<br>4:25-4:40                           | The Se WKAT WJRD WSOC WAML WPAX WQAM WPAX WQAM WFTC WKAQ WFOY WAGF KPLC WFDF WGRM WSPD WCOP WMFO WKEU WGBM  | 1310 1500 1210 1310 1310 1310 1210 560 1220 1240 1240 1210 1370 1310 1210 1340 1210 1370 1420 1500 630 1210  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40   | WSAY WDEV WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WNBZ WSYB WNBZ WSYB WNBZ WSYB WHEC WGBB WHEC WGBB WHEC WGBB WHEC WAZL WTHT WMBQ WRAK N — RA WBOW   | 1210<br>550<br>1310<br>1210<br>1210<br>1350<br>1310<br>1370<br>1370<br>1310<br>1370<br>1310<br>1370<br>1430<br>1430<br>1420<br>1200<br>1500<br>1500<br>1210<br>1500<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210  | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y.   |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>3:50-4:05<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:10-4:25                           | The Se WKAT WJRD WSOC WAMI WPAA WPAA WPAX WQAM WPAP WFTC WKAQ WBIQ WFOG KFLC WFDF WGRM WSPD WCOP WCOP WCOP WCOP WGFO KFIZ WKEU WGBF WGCM KFYO   | 1310 1500 1200 1210 1310 1370 1210 560 1420 12200 1240 1210 1370 1500 1310 1210 1340 1210 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1310 1310 1310 1310 1310   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Miss. City, Miss. Lubbock, Tex.  | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40<br>4:30-4:45  | WSAY WDEY WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WBTE WBTE WBTH WHEC WAZL WTHT WMBQ WRAW WGBB WHEC WAZL WHEC WHEC WAZL WHEC WAZL WHEC WAZL WHEC WHEC WAZL WHEC WHEC WHEC WAZL WHEC WHEC WHEC WHEC WHEC WHEC WHEC WHEC  | 1210<br>550<br>1310<br>1210<br>1210<br>1350<br>1430<br>1310<br>1370<br>1500<br>1290<br>1500<br>1210<br>1430<br>1200<br>1200<br>1500<br>DEX<br>1310   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ills.   |
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| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>4:25-4:40              | The Se WKAT WJRD WSOC WAMI WPAA WPAX WQAM WPAY WFTC WKAQ WBIG WFOY WAGE WFOY WAGE WFOY WAGE WFOF WCOP WCOP WCOP WCOP WCOP WCOP WCOP WCOP  | 1310 cond 1500 1210 1210 1310 1370 1210 1240 1440 1210 1370 1310 1310 1310 1310 1310 1310 13   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Miss. City, Miss. Lubbock, Tex. Louisville, Ky. Hattiesburg, Miss. Grand Forks, N. Dk. Memphiis, Tenn.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40<br>4:30-4:45<br>4:35-4:50<br>4:40-4:55  | WSAY WDEY WCHW WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WMBZ WSYR WBRE WBTM WNICC WGBB WHEZL WTHT WAZL WAZL  | 1210<br>1500<br>1210<br>1310<br>1210<br>1310<br>1310<br>1310<br>1310<br>13   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ills. Albert Lea, Minn. Dubugue, Iowa  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>4:25-4:40              | The Se WKAT WJRM WSOC WAMI WPAA WPAA WPAX WQAM WPAP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WGCM KFIZ WKEU WGBF WGCM KFIZ WKEU WGBF WGCM KFIZ WKEU KFIGM   | 1310 d 1500 d 1210 d 12   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Miss. City, Miss. Lubbock, Tex. Louisville, Ky. Hattiesburg, Miss. Grand Forks, N. Dk. Memphiis, Tenn.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40<br>4:30-4:45<br>4:35-4:50   | WSAY WDEV WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WSYR WBTM WNICE WBTM WHEC WTHT WMBQ WRAK N — RA WBOW WGNBL KATE WKBB KARK WJIM WKSKI  | 1210<br>1500<br>1210<br>1210<br>1310<br>1210<br>1310<br>1310<br>1310<br>1290<br>570<br>1310<br>1370<br>1210<br>1420<br>1210<br>1200<br>1200<br>1210<br>1220<br>1420<br>1210<br>1220<br>122   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ills. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Roval Oak, Mich.  |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>4:25-4:40<br>4:30-4:45 | The Se WKAT WJRD WSOC WAML WPAX WQAM WPAX WQAM WFOY WKAG WFOY WAGF KPLC WFDF WGRM WSPD WCOP WMFO WKPO WKFU WGBF KFYO WAVE WFOR | 1310<br>1500<br>1210<br>1210<br>1310<br>1370<br>1210<br>1360<br>1420<br>1240<br>1240<br>1340<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310 | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Miss. City, Miss. Lubbock, Tex. Louisville, Ky. Hattiesburg, Miss. Grand Forks, N. Dk. Memphiis, Tenn.   | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40<br>4:30-4:45<br>4:35-4:50<br>4:40-4:55  | WSAY WDEV WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WSYR WBTM WNICE WBTM WHEC WTHT WMBQ WRAK N — RA WBOW WGNBL KATE WKBB KARK WJIM WKSKI  | 1210<br>1500<br>1210<br>1210<br>1310<br>1210<br>1310<br>1310<br>1310<br>1290<br>570<br>1310<br>1370<br>1210<br>1420<br>1210<br>1200<br>1200<br>1210<br>1220<br>1420<br>1210<br>1220<br>122   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford; Conn. Brooklyn, N. Y. Williamsport, Pa.  Terre Haute, Ind. Newburgh, N. Y. Williamsport, Pa.  Terre Haute, Ind. Newburgh, N. Y. Decatur, Ills. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>4:25-4:40              | The Se WKAT WJRM WSOC WAMI WPAA WPAX WQAM WPAY WFTC WHIG WFOY WAGF WFC WFDF WGCM KFIZ WKEU WGBF WGCM KFIZ WKEU WFOR KFJM WMPS WTMV KGCU   | 1310 d 1500 d 1210 d 1370 d 1310 d 1210 d 1370 d 1210 d 12   | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Miss. City, Miss. Lubbock, Tex. Louisville, Ky. Hattiesburg, Miss. Grand Forks, N. Dk. Memphis, Tenn. E. St. Louis, Ills. Mandan, N. Dak.                | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40<br>4:30-4:45<br>4:30-4:45<br>4:40-4:55<br>4:40-4:55  | WSAY WDEV WGH WCNW WMBS WFAS WMSW WOKO WRAW WOKO WRAW WDAS WSYB WNBZ WSYR WBRE WSYR WBRE WSTH WNIC WGBB WNIC WAZI WTHT WMBQ WRAK N — RA WBOW WGNY WJONS WSYR WBONY WJONS WSYR WHOW WGNY WJUM WKATE WKARK WJIM WEXL  | 1210<br>1500<br>1210<br>1210<br>1210<br>1310<br>1310<br>1310<br>1310<br>13   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford; Conn. Brooklyn, N. Y. Williamsport, Pa.  Terre Haute, Ind. Newburgh, N. Y. Williamsport, Pa.  Terre Haute, Ind. Newburgh, N. Y. Decatur, Ills. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>4:25-4:40<br>4:30-4:45 | The Se WKAT WJRDC WSOC WAML WPAA WPAX WQAM WPAY WFTC WKAG WFOY WAGF KPLC WFDF WGFD WCOP WGFD WGCM KFYO WGEU WGOR KFYO WAVE WFOR KFJM WMPO KFIZ WKEU WGOR KFJM WGCM KFYO WAVE WFOR KFJM WMPO KFIZ WKEU WGOR KFJM WGCM KFYO WAVE WFOR KFJM WMPOR KFJM WGCU KGU KGU KGU  | 1310 d 1500 d 1200 1210 1370 1210 1370 1220 1220 1220 1220 1220 1220 1220 1370 1300 630 630 630 1370 1410 1370 1410 1370 1410 1370 1410 1370 1370 1410 1370 1370 1410 1370 1370 1410 1370 1370 1410 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1380 1380  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Miss. City, Miss. Lubbock, Tex. Louisville, Ky. Hattiesburg, Miss. Grand Forks, N. Dk. Memphis, Tenn. E. St. Louis, Ills. Mandan, N. Dak. Pittsburgh Pa. | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40<br>4:30-4:45<br>4:35-4:50<br>4:40-4:55  | WSAY WDEY WCHW WCNW WMBS WFAS WMBG WOKO WRAW WDAS WNBZ WSYR WBRE WBTM WNICC WGBB WHECL WTHT WMBG WRAK N — RA WBOW WGNY WJBL WKBB KARK WJIM WEXL WHILL | 1210<br>1500<br>1210<br>1310<br>1210<br>1310<br>1310<br>1310<br>1310<br>1290<br>1290<br>1290<br>1210<br>1210<br>1210<br>1200<br>1210<br>1200<br>1210<br>1200<br>1200<br>1200<br>1210<br>1370<br>1210<br>1200<br>1200<br>1210<br>1370<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1370<br>1370<br>1370<br>1370<br>1370<br>1370<br>1370<br>13   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford; Conn. Brooklyn, N. Y. Williamsport, Pa.  Terre Haute, Ind. Newburgh, N. Y. Williamsport, Pa.  Terre Haute, Ind. Newburgh, N. Y. Decatur, Ills. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>4:25-4:40<br>4:30-4:45 | The Se WKAT WIND WSOC WAMI WPAX WPAX WPAX WPAX WPAY WFTC WKAQ WBIG WFOY WAGY WFOK WFUC WFDF WGRM WSPD WMFO KFIZ WGBF WGCM KFYO WAVE WFOM KFYM WMPO WAVE WFOM KFYM WMPO WAVE WFOM KFYM WMPO WAVE WFOM WFOM KFYM WMPO WAVE WFOM WFOM WFOM WFOM WFOM WFOM WFOM WFOM  | 1310 1500 1210 1210 1310 1370 1210 1360 1420 1240 1240 1370 1210 1210 1370 1210 1310 1210 1310 1310 1310 1310 131  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Miss. City, Miss. Lubbock, Tex. Louisville, Ky. Hattiesburg, Miss. Grand Forks, N. Dk. Memphis, Tenn. E. St. Louis, Ills. Mandan, N. Dak. Pittsburgh Pa. | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40<br>4:30-4:45<br>4:30-4:45<br>4:35-4:50<br>4:40-4:55<br>4:45-5:00<br>4:50-5:05 | WSAY WDEV WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WBTM WNIZ WSYR WBED WGBB WHEC WTHT WMBQ WRAK N — RA WBOW WGNK N — RA WBOW WGNK N — WBOW WGNK WHIB KATE WHIB KIUN WOMI   | 1210<br>1500<br>1210<br>1210<br>1310<br>1210<br>1310<br>1310<br>1310<br>1290<br>570<br>1310<br>1370<br>1420<br>1210<br>1210<br>1200<br>1200<br>1200<br>1420<br>1210<br>121   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ills. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Tex. Owensboro, Ky.                         |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:45-4:00<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>4:35-4:50<br>4:30-4:45 | The Se WKAT WIND WSOC WAMI WPAX WPAX WPAX WPAX WPAY WFTC WKAQ WBIG WFOY WAGY WFOK WFUC WFDF WGRM WSPD WMFO KFIZ WGBF WGCM KFYO WAVE WFOM KFYM WMPO WAVE WFOM KFYM WMPO WAVE WFOM KFYM WMPO WAVE WFOM WFOM KFYM WMPO WAVE WFOM WFOM WFOM WFOM WFOM WFOM WFOM WFOM  | 1310 1500 1210 1210 1310 1370 1210 1360 1420 1240 1240 1370 1210 1210 1370 1210 1310 1210 1310 1310 1310 1310 131  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Miss. City, Miss. Lubbock, Tex. Louisville, Ky. Hattiesburg, Miss. Grand Forks, N. Dk. Memphis, Tenn. E. St. Louis, Ills. Mandan, N. Dak. Pittsburgh Pa. | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>3:55-4:10<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40<br>4:30-4:45<br>4:30-4:45<br>4:35-4:50<br>4:40-4:55<br>4:45-5:00<br>4:50-5:05 | WSAY WDEV WGH WCNW WMBS WFAS WMBG WOKO WRAW WDAS WSYB WNBZ WSYR WBTM WNIZ WSYR WBED WGBB WHEC WTHT WMBQ WRAK N — RA WBOW WGNK N — RA WBOW WGNK N — WBOW WGNK WHIB KATE WHIB KIUN WOMI   | 1210<br>1500<br>1210<br>1210<br>1310<br>1210<br>1310<br>1310<br>1310<br>1290<br>570<br>1310<br>1370<br>1420<br>1210<br>1210<br>1200<br>1200<br>1200<br>1420<br>1210<br>121   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Y. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ills. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Tex. Owensboro, Ky.                         |
| 3:00-3:15<br>3:05-5:20<br>3:10-3:25<br>3:15-3:30<br>3:20-3:35<br>3:25-3:40<br>3:30-3:45<br>3:35-3:50<br>3:40-3:53<br>3:45-4:00<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>4:25-4:40<br>4:30-4:45 | The Se WKAT WJRDC WSOC WAML WPAA WPAX WQAM WPAY WFTC WKAG WFOY WAGF KPLC WFDF WGFD WCOP WGFD WGCM KFYO WGEU WGOR KFYO WAVE WFOR KFJM WMPO KFIZ WKEU WGOR KFJM WGCM KFYO WAVE WFOR KFJM WMPO KFIZ WKEU WGOR KFJM WGCM KFYO WAVE WFOR KFJM WMPOR KFJM WGCU KGU KGU KGU  | 1310 d 1500 d 1200 1210 1370 1210 1370 1220 1220 1220 1220 1220 1220 1220 1370 1300 630 630 630 1370 1410 1370 1410 1370 1410 1370 1410 1370 1370 1410 1370 1370 1410 1370 1370 1410 1370 1370 1410 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1370 1240 1380 1380  | Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Chalres, La. Flint, Mich. Grenada, Miss. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Miss. City, Miss. Lubbock, Tex. Louisville, Ky. Hattiesburg, Miss. Grand Forks, N. Dk. Memphis, Tenn. E. St. Louis, Ills. Mandan, N. Dak.                | 3:30-3:45<br>3:35-3:50<br>3:40-3:55<br>3:45-4:00<br>3:50-4:05<br>4:00-4:15<br>4:05-4:20<br>4:10-4:25<br>4:15-4:30<br>4:20-4:35<br>NINETEE<br>4:25-4:40<br>4:30-4:45<br>4:30-4:45<br>4:40-4:55<br>4:40-4:55  | WSAY WDEY WCHW WCNW WMBS WFAS WMBG WOKO WRAW WDAS WNBZ WSYR WBRE WBTM WNICC WGBB WHECL WTHT WMBG WRAK N — RA WBOW WGNY WJBL WKBB KARK WJIM WEXL WHILL | 1210<br>1500<br>1210<br>1310<br>1210<br>1310<br>1310<br>1310<br>1310<br>1290<br>1290<br>1290<br>1210<br>1210<br>1210<br>1200<br>1210<br>1200<br>1210<br>1200<br>1200<br>1200<br>1210<br>1370<br>1210<br>1200<br>1200<br>1210<br>1370<br>1210<br>1210<br>1210<br>1210<br>1210<br>1210<br>1370<br>1370<br>1370<br>1370<br>1370<br>1370<br>1370<br>13   | Rochester, N. Y. Waberbury, Vt. Newport News, Va. Brooklyn, N. Y. Uniontown, Pa. White Plains, N. Y. Richmond, Va. Albany, N. Y. Reading, Pa. Philadelphia, Pa. Rutland, Vt. Saranac Lake, N. Syracuse; N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hazelton, Pa. Hartford; Conn. Brooklyn, N. Y. Williamsport, Pa.  Terre Haute, Ind. Newburgh, N. Y. Williamsport, Pa.  Terre Haute, Ind. Newburgh, N. Y. Decatur, Ills. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. |

| RADEX                                   |                             |                     |  |
|---|-----------------------------|---------------------|--|
|   |                             |                     |  |
| 5:05-5:20                               | WBEO<br>KGIW                | 1310<br>1420        | Marquette, Mich.<br>Alamosa, Colo.   |
| 5:10-5:25                               | WKBV<br>KGDE                | 1500<br>1200        | Fergus Falls, Minn.  |
| 5:15-5:30                               | WHBF<br>KGFL                | 1210<br>1370        | Fergus Falls, Minn. Rock Island, Ills. Roswell, N. Mex. Milwaukee, Wis.                            |
| 5:20-5:35<br>5:25-5:40                  | WEMP<br>KEUB                | 1310<br>1420        | Price, Utah  |
|   | WCAT<br>WEBQ                | 1200<br>1210        | Price, Utah Rapid City, S. Dak. Harrisburg, Ills. Sheridan, Wyo. Lamar, Colo. Grand Junction Colo. |
| 5:30-5:45                               | KWYÒ                        | 1370                | Sheridan, Wyo.   |
| 5:35-5:50                               | KIDW<br>KFXJ                | 1420<br>1200        | Lamar, Colo.<br>Grand Junction, Colo.  |
| 5:40-5:55                               | KGBX                        | 1230                | Carle Gall Ma  |
| 5:45-6:00<br>5:50-6:05                  |                             | 1310                | Santa Fe, N. Mex.<br>El Paso, Texas  |
|   | KRQA<br>KTSM                | 1310                | El Paso, Texas   |
| 5:35-5:30<br>5:55-6:10                  | KOKO                        | 1370                | La Junta, Colo.  |
| 3.33 0.110                              |                             | -5                  | ,,   |
|   | The So                      |                     | •  |
| 3:30-3:45                               | WTOL<br>WKBZ<br>WJW<br>WBNS | 1200                | Toledo, Ohio   |
| 3:35-3:50                               | WKDZ                        | 1500<br>1210        | Muskegon, Mich.  |
| 3:40-3:55<br>3:45-4:00                  | WANS                        | 1430                | Akron, Ohio  |
| 3:50-4:05                               | WGAR                        | 1450                | Cleveland Ohio   |
| 3.30-4.03                               | WGAR<br>WOLS                | 1200                | Columbus, Ohio Cleveland, Ohio Florence, S. C.   |
| 3:55-4:10                               | WCOL                        | 1210                |  |
| •                                       | WLAK                        | 1310                | Lakeland, Fla.   |
| 4:00-4:15                               | WCAZ                        | 1070                | Carthage, Ills.  |
| 4:05-4:20                               | WQBC<br>WIBO                | 1360<br>1120        | Vicksburg, Miss.<br>Baton Rouge, La  |
| ,                                       | WJBO<br>WSMK                | 1380                | Dayton, Ohio   |
| 4:10-4:25                               | WOMT<br>WTAL                | 1210                | Manitowoc, Wis.  |
| 4:15-4:33                               | WNEL                        | 1310                | Tallahassee, Fla.<br>Sun Juan, P. R.<br>Columbus, Ohio   |
| 4:20-4:35                               | WOSU<br>WDZ                 | 570<br>1020<br>1420 | Sun Juan, P. R. Columbus, Ohio Tuscola, Ills. Muscle-Shoals, Ala Wilson, N. C.                     |
| 4:25-4:40                               | WMSD<br>WGTM<br>WHBU        | 1310                | Wilson, N. C.<br>Anderson, Ind.  |
| 4:30-4:45                               | KCMO                        | 1370<br>1200        | Anderson, Ind.<br>Kansas City, Mo.<br>New Orleans, La.<br>Youngstown, Ohio                         |
|   | WJBW<br>WKBN                | 570                 | Youngstown, Ohio   |
| 5:35-4:50                               | WGPC                        | 1420                | Albany, Ga.<br>Norman, Okla.   |
|   | WNAD                        | 1010                | Norman, Okla. Detroit, Mich.   |
| 4:40-4:55                               | WXYZ<br>KOVC                | 1240<br>1500        | Detroit, Mich.<br>Valley City, N. Dak.   |
| 4.40-4.))                               | WTAX                        | 1210                | Valley City, N. Dak.<br>Springfield, Ills.<br>Jackson, Tenn.                                       |
| 4 45 5 00                               | WTJS<br>KLCN                | 1310                | Jackson, Tenn.<br>Blytheville, Ark.  |
| 4:45-5:00                               |                             | 1290                |  |
|   | WMBR                        | 1370                | ,  |
|   | WMPC                        | 1200                | Lapeer, Mich.  |
| 4:50-5:05                               | KGCA                        | 1270                | Decorah, Iowa.   |
| 4:55-5:10                               | KOCA                        | 1210                | Kilgore, Tex.  |
|   | KVOL                        | 1310                | Lafayette, La.   |
| 5:00-5:15                               | KBIX                        | 1500                | Muskogee, Okla.  |
| •                                       | <b>WBNO</b>                 | 1200                | New Orleans, La.   |
| 5:05-5:20                               | KPAC                        | 1260                | Port Arthur, Texas   |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | WHBQ                        | 1370                | Memphis, Tenn.   |
| 5:10-5:25                               | KANS                        | 1210                | Wichita, Kans.   |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | WROL                        | 1310                | Knoxville, Tenn.   |
| 5:15-5:30                               | KMLB                        | 1200                | Montoe, La.  |
|   | KTRH                        | 1290                | Houston, Texas   |
| 5:20-5:35                               | KLPM                        | 1360                | Minot, N. D.   |
| 5:25-5:40                               | KVSO                        | 1210                | Ardmore, Okla.   |
| 5:30-5:45                               | KWLC                        | 1270                | :Decorah, Iowa   |
| 5:35-5:50                               | KTSM                        | 1310                | El Paso, Texas   |
| 5:40-5:55                               | KWTN                        | 1210                | Watertown S. D.  |
| 5:40-5:55                               | WLB                         | 760                 | Minneapolis, Minn.   |

5:45-6:00





In the oval is shown a view of the old 1 kilowatt station used by JOAK. It is now used as a studio only, situated on Mt. Atago, (Atago-Yama), in Tokyo. The large picture shows the newer 10 kilowatt JOAK building and towers, located at Shingo, north of Toklo. These photographs were taken by Hidewo Kikutani, formerly Chief Engineer of the Japanese shortwave experimental station J1AA. (Courtesy of Mrs. Dora Newcomb).



Since the announcement of the formation of the RADEX Club in our September number, we have enrolled members from all the states except Idaho, Nevada, South Dakota and Wyoming, and from all parts of Canada except Prince Edward Island. We also have members in Cuba, Mexico, Newfoundland, Canal Zone, England, Guatemala, Honduras, Haiti, New Zealand, Bahrain Island, and the Union of South Africa.

Originally, membership was extended to our subscribers, but commencing on November 15 all our readers may enjoy the benefits of enrollment in this rapidly-growing Club. There is no charge for membership, and no requirement except an interest in DXing. On receipt of your application, which may be sent on a postal card if you wish, we will send your membership card.

We have designed some attractive ornaments for our readers' radio rooms, to be awarded to club members who succeed in hearing stations on all continents. These awards will not be diplomas, but something new and much more attractive than the usual Verified All Continents citations. We

hope to have some finished within a few weeks so we can illustrate them in our January issue.

#### Shortwave Scoop—Box

IRX on approximately 9650 kcs. comes on the air nightly at 6 p. m. with a strong signal. (Jacobs—Ohio)

ZHO on 6170 cs. at Singapore reported elsewhere has just shifted as we go to press and is no longer heard in the early morning. ZHP on 9690 kcs. replaces ZHO on this transmission. (R274—Wash.)

RV-15 on 4273 kcs. is not to be heard on that frequency at present. There are new unidentified Soviet stations on 6050 kcs. and 6830 kcs. working in parallel. One of these may be RV-15! (R274—Wash.)

KZIB on 9500 kcs. in Manila, Philippine Islands is being reported in the early morning out here on the west coast. (R274—Wash.)

Scoop Box reporters: George Jacobs, Cincinnati, Ohio; and R274—Anthony C. Tarr, Seattle, Wash.

(These scoop box report credits will count in next month's "Report-ometer".)

China's best-known station, XGOA, for merly at Nanking, is now operating from Chungking, in Szechwan Province, on 1450 kcs. It is believed that the 1000 watt transmitter of XGOS is used.

### **TELEVISION**

. . . by E. F. McDonald, Jr. \*

The recent publication in the newspapers of the country of a statement to the effect that television receivers will be put on the market for sale to the public before the opening of the New York World's Fair next spring has brought many inquiries as to the position of Zenith Radio Corporation in the television field.

The offering for sale of television receivers at this time in view of the present state of the art is, in our opinion, unfair to the public, and premature, both for economic and technical reasons. Such premature introduction of television commercially will result in loading the public with undue experimental replacement cost, which, in turn, will result in retarding, instead of furthering development and in unprofitable operations for the companies engaging in such a program.

We do not believe the radio industry should ask the public to pay for its experimentation in television, at least without putting the public on notice that receivers put out at this time are on an experimental basis and may be subject to many costly changes and replacements.

I still feel as I stated at the last stockholders' meeting that "general use of television in the homes is just around the corner for the *stock salesmen only*." On the other hand, when we have overcome all of our difficulties, and when I say we, I mean the radio industry, television will no

\* President, Zenith Radio Corp.

G.

doubt become a glorious new experience and a wonderful new industry. I feel that I am as close to the television picture as the next man and Zenith is prepared at this time to produce and sell television receivers but I am not ready to take the public's money until television is good and ready to provide money's worth to that public.

Television holds the most fascinating possibilities ever envisioned by an eager public but we cannot agree that television receivers are ready for mass production and country-wide distribution on any such basis as even the first radio broadcast sets that were distributed in the early Twenties.

Television is essentially different from anything with which we have had to deal in the past. The first automobiles constructed and sold to the public, unless they have been worn out from use, will still operate on our highways today, and with the gasoline now used. Likewise, the first radio broadcast receivers constructed and sold to the public will still operate and reproduce programs broadcast from the most modern broadcasting stations of today. On the other hand, the television receiving set of one year ago is already obsolete and cannot be operated in the home with the latest television transmitter of today.

What the public should know, and has not been told, about television is that the receivers must be matched to, synchronized with and built on the same standards as the transmitters. Any major change made in the television transmitter will necessitate a change in the receiver. This, of course, is not true of radio receiving sets. It is not only conceivable, but quite possible, that within a year from today the standards of the television transmitter, which, incidentally, have not yet been officially adopted, may again make obsolete all television receivers manufactured and sold today.

No organization is better informed on television today than the Federal Communications Commission, yet within the past two weeks, the Commission has asked this question: "Whether or not we believe that the development of television has reached the stage where the Commission might call formal hearings with respect to the adoption of standards."

Television for the public is not new as the recent announcements might lead one to assume. In Chicago, it was introduced to the public in 1928 by radio station WCFL; in 1929 by the Western Television Company; and in 1930 by radio station WMAQ, then owned by the Chicago Daily News. Television programs were broadcast at that time. Due to the interest then aroused, over 1,000 television receivers were sold to the public in the Chicago area, every one of which is useless today because of the changes which have been made in transmitters.

The Federal Communications Commission has given long and serious consideration to the matter of television. It has, in its wisdom, issued only eighteen television licenses, all of which are experimental and not commercial. Of the experimental transmitting stations constructed under

these licenses, only a few are of the modern high definition type. Not one permit or license has been issued by the Commission for the construction and operation of a commercial television station.

There are many technical problems in television which are still unsolved. Among these is the inability at present to eliminate interference with television reception caused by the operation of automobiles. On the wave lengths now selected for and allocated to television, every spark plug in the twenty-five million automobiles in the United States operates as a transmitter and creates interference in its immediate vicinity. This interference makes impossible satisfactory television reception below the fourth or fifth floor of most buildings facing a street upon which automobiles are operated.

Its effect is to put in the picture on the receiver a series of spots having the appearance of a snow storm. This, of course, destroys the picture. The only cure for this condition, at least at present, is to arrange to have all automobile manufacturers shield all new automobiles constructed, and also to have the owners of automobiles now in use do the same. This task, of course, is impossible of achievement. Some other means must be found of removing this difficulty.

The economic problems which must be settled before the public should be asked to buy television receivers are no less serious than the technical difficulties. In the present state of the art, it is not possible to transmit a television program beyond a radius of from thirty to fifty miles, depending upon the height of the transmitting station above the ground, and even in that area buildings and other structures situated between the transmitter and the receiver make good reception extremely difficult. In other words, in order to furnish television programs to purchasers of television receiving sets throughout the United States, it will be necessary to construct more than 2,000 television transmitting stations. Even though we had this multiplicity of television transmitters, no economical means has yet been discovered to connect these transmitting stations to make possible chain transmitting of television.

Another of the economic problems presented is the matter of programs. The stupendous cost of transmitting television naturally sets aside the thought that advertisers and sponsors can possibly maintain advertising budgets sufficiently large to pay the cost of such programs. In England, the public has had television for nearly three years. Fortunately, only from 4.000 to 8,000 television receivers have been sold, and these at prices from \$200.00 to \$400.00 each. I say fortunately because only that many persons have been disappointed. Despite the fact that the English people are apparently satisfied with radio programs which would be unacceptable to the Americans, the English have nevertheless registered disapproval of the type of television programs which the British Broadcasting Corporation (a government subsidy) has been able to present under the present limitations of television operation.

In the opinion of conservative producers, the cost of a single program of the type now transmitted in England, of one hour's duration for each day from one television transmitter, will be one million dollars a year. We feel that this estimated cost is most conservative, as we do not believe the American public will be satisfied for any considerable period of time with television programs that are less entertaining than the present-day movies. In other words, the people of our country will expect and demand the transmission of motion pictures.

The motion picture industry expends over three hundred million dollars per year to produce approximately three hundred feature pictures, each of which represents a little more than one hour's entertainment. This economic load is paid for through the box offices of the moving picture houses. No source of revenue has yet been provided for the more costly television. Certainly, we cannot expect the advertisers of America to pay this bill.



The call letters on this card from JOIG in Toyama, Japan, are printed in yellowish orange, and the printing is black. The small picture shows Mount Tateyama. In the lower right hand corner is a map of the Japanese Islands, showing the location of Toyama. JOCK in Nagoya sends a card which is very similar to this one. (Courtesy of Mrs. Dora Newcomb).

## WHAT'S ON THE AIR TONIGHT

Fill in the calls and frequencies of the stations through which you best receive the network programs. You can then turn quickly to the one that has the feature you want.

| Network           | Stations |
|-------------------|----------|
| Columbia (C)      |          |
| Mutual (M)        |          |
| National Blue (B) |          |
| National Red (R)  |          |

Time: E-Eastern; C-Central; M-Mountain P-Pacific.
While these programs are correct at the time of going to press, changes are made very frequently.

To learn which stations broadcast the various network programs in your locality, look up your own, or neighboring, city, in the Index by Locations, commencing on page 76.

## SUNDAY

E-II:30 am, C-I0:30, M-9:30, P-8:30 E-I0:30 am, C-9:30, M-8:30, P-7:30 C-Major Bowes' Family Entire Network except Pacific Network first half hour; full network last half hour.

E-noon. C-11:00, M-10:00, P-9:00 B-Radio City Music Hall To Blue network and Canadian National network. E-12:30, C-11:30, M-10:30, P-9:30

C-Salt Lake City Choir Available to full network.

E-2:00, C-1:00, M-noon, P-11:00 B-RCA Magic Key
CBF CBL CFCF CMQ KANS
KARK KARK KDKA KDYL KECA KERN KEX KFBK KFDM KFSD KFYR KGA KJR KLO KMA KMFD KOA KOAM KOB KRIS KSEI KSO KMJ KOA KOIL KSOO KTAR KTBS KTFI KTHS KTMS KTSM KVOO KWG KWK KXYZ WABY WAGA WALA WAVE WBAL WROW WBRE WBZ WBZA WCOL WCSC WCSH WDAY WDSU WEAN WEBC WEBR WENR WFAA WFBC WFEA WFIL WLA WGAL WGBF WHAM WHK WIBA WICC WIOD WIRE WIS WJAX WJBO WJDX WJTN WJZ WKY WLEU WLW WMAL WMFF WMPS WMT WOAI WOOD WORK WOWO WPTF WREN WROL WRTD WSAN WSGN WSM WSOC WSPD WSUN WSYR WTAR WTCN WTMJ WWNC WXYZ

E-3:00, C-2:00, M-1:00, P-noon C-Philharmonic Symphony To entire network, and 6 Canadian National and French networks

E-4:06 pm, C-3:00, M-2:00, P-1:00 M—Benay Venuta's Program WOR to Full Network

E-4:30 pm, C-3:30, M-2:30, P-1:30 M—Court of Human Relations WCAE WGN WOR WSAI WSYR

E-5:00 pm, C-4:00, M-3:00, P-2:00

B-Metropolitan Opera Auditions WJZ WBZ WBZA WEAN WI WICC WFIL WBAL WMAL WSYR WHAM WEBR KDKA WHK WSPD WXYZ WOWO WENR KWK WTAR WJAX WIOD WWNC WSB WBRC WIDX WMT WTCN KSO KOIL WCKY WRTD WJTN WSMB WAVE WSM KVOO WKY KTBS KTHS KPRC WOAI KFEL WFLA-WSUN KTHS KLO KGO KECA KJR KEX WBAP KGA

E-5:30 pm, C-4:30, M-3:30, P-2:30 R—Spelling Bee WEAF WNAC WTIC WJAR WTAG WKCSH KYW WDEL WFBR WRC WGY WBEN WCAE WTAM WLW WIRE WMAQ KSD WWJ KSTP WHO WOW WDAF

C—Ben Bernie; Lew Lehr
WABC WADC WOKO WCAO WEEI
WGR WBBM WKRC WGAR KRNT
WJR WDRC WFBM KMBC WHAS
KFAB WCAU WJAS WPRO KMOX
WFEL WJSV WHEC WISN WCCO
KRLD KTRH KOMA WJNO KTSA
KWKH KTUL WGST WAPI WREC
WLAC WWL WBT WRVA WTOC
WMBR WQAM WDBO WDAE

E-6:00 pm, C-5:00, M-4:00, P-3:00 -Silver Theater; Helen Hayes WABC WOKO WCAO WEET WKBW WBBM WKRC WGAR WRBW
KRNT WJR WDRC WFBM KMBC
WHAS KFAB WCAU WJAS WPRO
KMOX WJSV WADC WBNS WHIO WINO WGST WHEC WISN WBT KVI KTRH WREC WWL KRLD KOMA KTSA KTUL WMBR WQAM WDBO WDAE CKAC CFRB WCCO KLZ KSL KNX KOIN KSFO KIRO and Canadian Broadcasting KFPY Corporation.

E-6:30 pm, C-5:30, W-4:30, P-3:30
C—Billy House: Jack Fulton
WABC WOKO WCAO WEEI
WKBW WBBM WKRC WGAR
KRNT WJR WDRC WFBM KMBC
WHAS KFAB WCAU WJAS WPRO
KMOX WFBL WJSV WADC WBNS
WHIO WHEC WORC WLBZ WMMN
WHP WMBD WGBI WMAS WIEW
WJBX WWVA KFH WATM WCHS
WTJWBIG WMAZ WPAR WRYA

WDBJ WTOC WJNO WGST WAPI WDOD WNOX KLRA WREC WCOC WLAC WWL KGGM KRLD WSFA KTRH KOMA KTSA KTUL WMBR WDBO WDAE WOC KDAL WQAM WMFG KGLO WCCO KSCJ WHLB WNAX KVOR KLZKSL KARM KGAR KNX KFBB KOY KROY KSFO KOIN KIRO KEPY KVI KHBC KGMB WPG WNBF WESG WEOA WBRK WSBT WNBX WKRN WRDW WDNC WSJS WKBB WACO WCOA WTAQ WKBH KGVO KOH KWKH

R—A Tale of Today KDKA WEAF WGY WLW WMAQ WRC WTAM

R—Jack Benny; Kenny Baker WEAF WRC WGY KPRC WOAI WSPD WORK WMBG WNAC WTIC WJAR WTAG WCSH KYW WFBR WEEN WCAE WTAM WMAQ WWJ WCOL WDEL KSD WLW WDEL KSD KSTP WIS KARK KVOO WSOC WIAX WPTF WWNC KTBS CBL CBM WEBC WGBF WFLA WGAL WIR WIOD WSAN WIRE WHO WDAF KANS WTMJ WIBA WDAY KFYR WAVE WSM WSB WJDX WSMB KGBX WKY WSYR WHAM WGL WFEA KELO WBOW WCSC WFBC KGNC KRIS WFAA

E-7:30 pm, C-6:30, M-5:30, P-4:30
C—"Passing Parade": Oscar Bradley
WABC WOKO WCAO WEEI WGR
WKRC WGAR WIR WDRC WFBM
WHAS WCAU WIAS WPRO WFBL
WJSV WADC WBNS WHIO WHEC
WORC WPG WLBZ WNBF WHP
WSBT WMAS WIEX WWVA
WKBN WBT WDNC WBIG WRVA
WDBJ WTOC WSJS WGST WDOD
WNOX KLRA WREC WAPI WSFA
WLAC WWL WCOA WJNO KRLD
KTRH KTSA KWKH KTUL WACO
WMBR WQAM WDBO WDAE KLZ

E-8:00 pm, C-7:00, M-6:00, P-5:00 C—Orson Welles—Drama Available to full network R—Charlie McCarthy; Nelson Eddy CECT CRCT KDVI. KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KVOO KYW WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WFAA WFLA WGY WERR WHO WIBA WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WNAC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

E-9:00 pm, C-8:00, M-7:00, P-6:00 C-Ford Symphony Concert

CFRB CKAC KFAB KFBB KFB KFPY KGAR KGLO KGVO KIRO KLRA KLZ KMBC KMOX KNX KOH KOIN KOMA KRNT KSCJ KSFO KOMA KOY KRLD KSFO KSL KTRH KTSA KTUL KVI KVOR KWKH WABC WBBM WBIG WBNS WBRK WABC WBBM WBIG WBNS WBLE WBT WCAO WCAU WCCO WCHS WCOA WCOC WDAE WDBJ WDBO WDOD WDRC WEEL WFBL WFBM WGAR WGBI WGR WGST WHAS WHEC WHIO WHP WIBW WISN WJAS WJNO WJR WJSY WKBH WKBN WKBW WKRC WLAC WLBZ WMBR WMMN WNAX WMBD WNBX WNOX WORO WORC WPRO WQAM WREC WRVA WSBT WSFA WTAQ WTOC WWL.WWVA

R-Manhattan Merry Go-Round CFCF KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD WBEN WCAE WCKY WCSH WDAY
WDAY WEAF WEBC WEEI WFAA
WFBR WFLA WGY WHO WIBA WIS WJAR WIRE WJAX WKY WMAQ WMC WOAI WPTF WRC WRVA WSB W.IDX WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

É-9:30 pm, C-8:30, M-7:30, P-6:30 B-Walter Winchell

WJZ WBZ WBZA WBAL WMAL
WFIL WREN WICC KDKA WHK
WSYR WICN WLW WEAN WENR
WMT WXYZ KSO KWK WOOD KOIL WEBR WHAM WSPD WJTN

## R-Album of Familiar Music

CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRO KSD KSTP KTBS KYW WAPI WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WHO WIRA WIOD WIS WJAR WJAX WKY WMAQ WMC WOAI
WPTF WRC WRVA WSAI WJDX WOW WSB WSM WSMB WSOC WTAG WTAM WTAR WTMJ WWJ WWNC

C-8:45. M-7:45, P-6:45 E-9:45 pm. B-Irene Rich-Drama

WJZ WBZ WBZA WBAL WMAL WEAN WICC WFIL WEBR WXYZ WENR KWK WMT WTCN WHK KSO KOIL WSYR WHAM WREN KDKA WLW WSPD WJTN

E-10:00 pm, C-9:00, M-8:00, P-7:00 R—Horace Heidt's Brigadiers

KECA KEX KFSD WFBR WGY WHO WHO WIBA WIRE JAR WMAQ WNAC WOOD WOW WRC WSAI WTAG WTAM WTIC WTMJ WWJ

WKY WAVE WBRC WJDX WSMB KTBS KPRO WJAX WFLA, WSUN WIOD KOA KDYL KPO KIDO KGW KOMO KHQ KFI KGIR KGHL KTAR KFBK KWG KMJ KFI KGIR KSEI KERN KPFA KVOO KTFI

#### MONDAY

E-6:45 pm, C-5:45, M-4:45, P-3:45 C—Sophie Tuckor and Her Show WCAO WBBM WKRC KRNY WFBM KMBC WHAS KFAB KMOX B—The Voice of Firestone WISW WCHS WMMN WISN WMBD B—The Voice of Firestone WIBW KFH WBT WDNC WBIG WCAF WNAC WTIC WJA WMAZ WRVA WDBJ WGST WAPI WCSH KYW WFBR WDODD WNOX KLRA WREC WCOC WBEN WCAE WTAM WWSFA WLAC WWL KRLD KTRH WIOD WIRE WMAQ KPKOMA KWKH KTUL WDC WKBB CBM CBL WTMJ WEB KDAL WMFG WCOC KSCJ WHLB WOW WDAF WROL WIB.

WJZ WBZ WBZA WBAL WMAL WLW KDKA WXYZ WIOD CBL WJAX WFLA WSUN WTAM WOOD WILAM WEBR WEAN WSYR WRTD WSPD

E-7:00 pm, C-6:00, M-5:00, P-4:00 E-7:300 pm, G-5:300, M-5:300, F-7:300
R—Amos 'n' Andy
WEAF WNAC WITC WJAR WTAG
WCSH WDEL WMBG KYW WFBR
WRC WGY WBEN WCAE WTAM
WWJ KSD KSTP WLW CBL CBM
WWJ KSD KSTP WLW CBL CBM

E-7:15 pm, C-6:15, M-5:15, P-4:15 C-"'Lum and Abner"
WABC WOKO WEEI WGR WBBM
WKRC WJR WDRC KFAB WCAU
WJAS WPRO WFBL WJSV WBNS
WHIO WHEC WBT WRVA WGST
WAMDR WAARR WJROO WMBR WQAM WDBO WDAE WJNO WGAR KRNT WFBM WHAS KMOX KLRA WREC WLAC WAPI KRLD KTRH KOMA KTSA KTUL

WMBG

wcco

E-7:30 pm, C-6:30. M-5:30, P-4:30 C—Eddie Cantor's Camel Caravan WABC WADC WCAO WEEI WGR WKRC WGAR WJR WDRC KMBC WCAU WJAS WPRO WFBL, WJSV WBNS WHIO WHEC WORC WLRZ WNDF WCHS WMMN WHP WGBI WMAS WNBX WIBX WKBN WBT WDNC WBIG WRVA WDBJ WTOC WSIS WMBR WQAM WDBO WDAE WJNO

E-8:00 pm, 7-7:00, M-6:00, P-5:00 C-The Monday Night Show

WKRC WHAS WCAO WALLOW WALL WALL WORDW WHICH WORD WELL WALL WORD WHIG WALZ WOBJ WTOC WGST KLRA KRLD KTRH KTSA WACO KDAL WMFG WCCO WHLB

R—AI Pearce and His Gang
WEAF WNAC WTIC WJAR WTAG
WCSH KYW WDEL WFBR WRC WCSH KYW WDEL WFBR WRC
WGY WBEN WCAE WTAM WWJ
WLW WSPD WMBG WORK WTAR
WPTF WSOC WOAI KPRC WFBC
WGAL WIRE WMAQ KSD KSTP
WHO WOW WDAF WGBF WEBC
KELO KANS WJAX WFLA WIOD

E-II:00 pm, C-I0:00, M-9:00, P-8:00 WMC WSB WBRC WSMB WAVE R—Walter Winchell WSM WROL KFDM KGBX KVOO WBAP KARK WSM WMC WSB WKY KGNC WFAA KTES KARK WKY KGNC WFAA KTBS KARK WTMJ WIBA WDAY KFYR KSOO

C-- Diek and Pat"

WABC WOKO WCAO WEEI WGR
WBBM WKRC WGAR WJR WDRC
KMBC KFAB WCAU WJAS WPRO
WFBL WJSV WADC WHEC WORC
WLBZ WHP WMAS WBT WRVA
WGST KRNT WFBM WHAS KMOX
WAPI WREC WLAC KRLD KOMA KTSA KWKH KTUL WCCO WNAX WIBW

WEAF WNAC WTIC WJAR WTAG WCSH KYW WFBR WRC WGY WBEN WCAE WTAM WWJ WCOL WIOD WIRE WMAQ KPRC WGL WIOD WIRE WMAY REFERENCE WHO WOW WDAF WROL WIBA WFAA WPTF WSOC WTAR WMC WSD WOAI WWNC KVOO WFLA WSUN WKY WSMB WAVE KSD WIS WKY WSMB WAVE KSD WIS
WSM KANS WJAX WFFA WFBC
WMBG WDEL WLW KRIS KARK
KGNC KGBX KSTP WDAY KFYR
WBRC WJDX KRGV KELO KTHS

C-8:00, M-7:00, P-6:00 E-9:00 pm, C-Lux Radio Theater

WARC WADC WOKO WCAO WEEL WABC WADC WOKO WCAO WEEL
WKBW WBBM WKRC WGAR
KRNT WJR WDRC WFBM KMBC
WHAS KFAB WCAU WJAS WPRO
KMOX WFBL WISV WBNS WHIO
WHEC WORC WISN WMED WMAS
WIBX KFH WBT WRVA WDBJ
WGST KJERA WRFC WLAC CFRB
EVIL KEJLD KTJH KOMA KTSA KVI KRLD KTRH KOMA KI KTUL WCCO WNAX KLZ K KNX KOIN KSFO KIRO KF and Canadian Broadcasting Corp. KTSA

R-Hour of Charm

WEAF WNAC WTIE WJAR WTAG WCSH KYW WDEL WBEN WCAE WTAM WWJ WLW WIRE WMAQ KSD KSTP WHO WOW WDAF WTAR WPTF WSOC WWNC WIS WIOD WAVE WSB WSMB WJAX WFLA-WSUN WIAX WFLA-VOU WSM WMC WBRC WSB WSMB WIDX KVOO WKY WFAA KTBS KARK KPRC WOAJ WTMJ KOA KEX KDYL KIDO KGIR KPFA KGA

E-9:30 pm. C-8:30, M-7:30, P-6:30 R—The Pall Mall Program WEAF WNAC WTIC WIAR WTAG
WCSH KYW WDEL WFBR WRC
WGY WBEN WCAE WTAM WWJ
WCKY WIRE WMAQ KSD KSTP
WHO WOW WDAF WMBG WGL WHO WOW WDAF WMBG WGL WOOD WSYR WHAM WEBC WTAR WPTF WSOC WWNC WCSC WJAX WFLA-WSUN WIOD WTMJ WIBA KOA KDYL KPO KFI KGW KOMO WGBF KHQ KFBK KFSD KWG KMJ KERN

E-10:00 pm, C-9:00, M-8:00, P-7:00 B—"True or False" WJZ WBZ WBZA WEAN WICC WFIL WBAL WMAL WSYR WFIL WBAL WMAL WSYR WHAM WEBR DKA WHK WSPD WXYZ WOWO WENR KWK WMT WTCN KSO KOIL WREN WLW WJTN KVOD KLO KGO KECA KFSD KEX KJR KGA CFCF

C—Guy Lombardo's Orchestra
WABC WOKO WCAO WEEI
WKBW WBBM WKRC WGAR
KRNT WJR WDRC WFBM KMBC
WHAS KFAB WCAU WJAS WPRO
KMOX WFBL WJSV WADC WBNS
WHIO WIBW WBT WWL KSL
KNX KOIN KSFO KIRO KFPY
KYI WCOO KLZ

WIAT WOOD WIFE WAR WTAG WEAF WNAC WTIC WAR WTAG WCSH KYW WRC WGY WBEN WCAE WTAM WWJ WMAQ WFBR KOA KDYL KPO KOMO KHQ KD WHO WOW WDAF CEL CEM WTAR WFLA-WSUN WIOD WAVE WSM WMC KARK WSMB WKY WFAA KTBS WCOL WCKY KPRC WOAL KFI KGW WSB WIRE WOOD WMBG KSTP WTMJ WIBA WDEL WFBC WFRC KVOO

E-10:30 pm, C-9:30, M-8:30, P-7:30 C—Eddie Cantor's Camel Caravan WHBM KRNT WFBM WHAS KFAB KMOX WEOA WISN WMBD WSBT WIBW KFFH WAPI WDOD WNOX KLBA WREC WSFA WLAC WWL KRLD KTRH KOMA KTSA KWKH KTUL WOC KDAL WTAQ WMFG WKBH KGLO WCO KSCJ WHLB WNAX KLZ KSL KOY KGAR KNX KOIN KSFO KIRO KFPY KVI KGGM WGST

R—AI Pearce and HIS Gang KOA KDYL KPO KFI KGW KOMO KHQ KTAR KFBK KWG KMJ KOB KERN KGIR KGHL KPFA

E-II:00 pm, C-I0:00, M-9:00, P-8:00
R—Amos 'n' Andy
WHO WOW WDAF WMC WSB
WOAI WKY WSMB WIRE WMAQ
KDYL KPO KFI KGW KOMO KHQ
KPRC KOA KWG WSM KFBK
KMJ KERN WBRC KVOO WBAP
E-II:15 pm, C-I0:45, M-9:15, P-8:15
R—Edwin C. Hill
WDAF WMAQ WMC WSB WBRC

MELEGWII C. HIII
WPDAF WMAQ WMC WSB WBRC
WSMB WSM WKY WBAP KPRC
WOAJ KVOO WJAX WFLA-WSUN
WIOD KOA KDYL KPO KFJ KGW
KOMO KHQ KFBK KWG KMJ
KERN

#### TUESDAY

E-6:45 pm, C-5:45, M-4:45, P-3:45 B—Lowell Thomas See Monday.

E-7:00 pm. C-6:00, M-5:00, P-4:00 B-Easy Aces WJZ WBZ WBZA WBAL WMAL WFIL WSYR WHAM KDKA WHK WXYZ WCKY WEBR WMT KSO KOIL KWK WENR WICC WEAN WIRE WTCN WSPD KOA KPO

KFI KGW KOMO

KDYL

WADC WERM

R—Amos 'n' Andy
E-7:30 pm, C-6:30, M-5:30, P-4:30
C—Helen Menken Drama
WABC WOKO WCAO WEEI WGR
WBBM WKRC WGAR KRNT WIR
KMBC WHAS KFAB WCAU WJAS
WPRO KMOX WFBL WJSV WHIO
WHEC WORC KLZ KSL KNL
KOIN KSFO KIRO KFPY KVI

E-8:00 pm, C-7:00. M-6:00, P-5:00 C-Ed. G. Robinson; Claire Trevor WABC WADC WOKO WCAO WEEI WGR WBBM WKRC WGAR KRNT WJR WDRC WFBM KMBC WHAS KFAB WCAU WJAS WPRO KMOX WFBL WJSV WBNS WHIO WHEC WORC WISN WMED WMAS WJBW WJBX KFF WBT WRVA WDBJ WGST KLRA WREC WLAC WWL WQAM WDAE WJNO CKAC CFRB KRLD KTRH KOMA KTSA KTUL WCCO WNAX KLZ KSL WAPI and Canadian Broadcasting Corp.

R—Johnny Presents Russ Morgan
WEAF WNAC WTIC WJAR WTAG
WCSH KYW WFBR WRC WGY
WBEN WCAE WTAM WMAQ KSD
WHO WOW WDAF WWJ WDEL
KSTP WPTF WWNC WIS WJAX
WIOD WFLA-WSUN KPRC WLW
WTMJ WSMB WOAI WIRE WSB
WMBG WKY WBAP WTAR KVOO
WEBC WIBA WDAY KFTR WAVE
WSM WMC WBRC WJDX KGBX
KTBS

R—For Men Only
WEAF WTAG WCSH KYW WDEL
WPBR WRC WGY WBEN WCAE
WTAM WWJ WLW WIRE WMAQ
KSD KSTP WHO WOW WDAF
WTAR WJAX WFLA-WSUN WIOD
WAYE WSM WMC WBRC WSB
WSMB WJDX KYOO WKY WBAP
KTBS KARK KPRC WOAI
WTMJ
WIBA WLAK

E-9:00 pm, C-8:00, M-7:00, P-6:00 C-"We, The People"
WABC WADC WOKO WCAO WEEI WKBW WBBM WKRC WGAR KRNT WJR WDRC WFBM KMBC WHAS KFAB WCAU WJAS WPRO KMOX WFBL WJSV WBNS WHIO WHP WISN WMBD WIBW WKBN WRVA WGST WREC WWL WQAM WDB0 WJNO CFRB KRLD KTRH KOMA KTSA KTUL WOC WCCO KSCJ KLZ KSL KOY KGAR KARM KNX KOIN KSFO KIRO KFPY KVI

E-9:30 pm, C-8:30, M-7:30, P-6:30 C-Benny Goodman's Orchestra WABC WOKO WCAO WKRC WBBM WKBW WBBM WKRC WGAR KRNT WJR WDBC WFBM KMBC WHAS KFAB WCAU WJAS WPRO KMOX WFBL WJSV WADC WBNS WHIO WHEC WORC WPG WLBZ WNBF WHP WISN WMBD WSBT WMAS WIBW WIBX KFH WKBN
WBT WDNC WBIG WRVA WDBJ
WTOC WSJS WGST KGAR WDOD WNOX KLRA WREC WSFA WLAC WWL KGGM KRLD KTRH KOMA KTSA KWKH KTUL WMBR WOAM' MUBO WDAE WOC WCCO KSCJ WNAX KLZ KSL KNX KOIN KSFO KIRO KFPY KVI WCHS KOY WMFG

WHLB WGBI KDAL KGLO WKBH WTAQ WNBX WEOA WAPI

R—Fibber McGee and Company
WEAF WNAC WTIC WJAR WTAG
WCSH KYW WFBR WRC WGY
WBEN WCAE WTAM WWJ WRE
WMAQ KSD KSTP WHO WOW
WDAF WIS WMBG WOOD WEBC
WTAR WPTF WSOC WJAX WFLAWSUN WIOD WTMJ WIBA WDAY
KFYR WAVE WSM WMC WBRC
WSB WSMB WKY KVOO WBAP
KTBS KARK KPRC WOAJ KOAF\*\*
KDYL KPO KFI KGW KOMO KHQ
KTAR KFBK KWG KMJ KERN
WLW CFCF WDEL KANS

E-10:00 pm, C-9:00, M-8:00, P-7:00
C-"Dr. Christian," Jean Hersholt
WABC WOKO WCAO WEEI WKBW
WBBM WKRC WGAR KRNT WJR
WDRC WFBM KMBC WHAS
KFAB WCAU WJAS WPRO KMOX
WFBL WJSV WBMS WHEC WORC
WBT WRVA WJNO WGST WMBR
WQAM WDBO WDAE WCCO
WADC WHO WHP WMAS WIBW
WAPI KLRA WREC WLAC WWL
KVI KRLD KTRH KOMA KTSA
KWKH KSCJ KIZ KSL KARM
KNX KOIN KSFO KIRO KFPY

KNX KUIN ASTO MAND ASTA RAPA REPRESENTATION WITCH WAR WTAG WCSH KYW WDEJ. WGY WBEN WCAE WYMW WWIN WINW WING WAVE WSB KSD KSPP WHO WOWN WDAF WMBG WOOD WJAX WSUN WIOD WAVE WSB WSB WSB WSB WID KYOO WKY WBAP WFER WRO KANS WFLA KTBS KTHS KPRC WOAI KGNC WTMJ WIBAP KOOK KON KYTLA KTBS KTHS KPRC WOAI KGNC WTMJ WIBAP KOOK KON KHY WHAM E-10:30 pm. 6-9:30, M-3:30, P-7:30 R-Jimme Fidler's Gossip

M-Jimmle riuler's Gossip
WEAF WNAC WTIC WIAR WTAG
WCSH KYW WFBR WRC WGY
WBEN WCAE WTAM WWJ WIRE
WMAQ KSD WHO WOW WDAF
WLW WOOD WTMJ WIBA WIOD
WAVE WSM WMC WSB WKY
WSMB WRAP KPRC WOAI KOA
KDYL KPO KFI KGW KOMO
KHQ WBRC KSTP KVOO WDEL
E-10:45 pm, C-9:45, M-8:45, P-7:45,

R—Uncle Ezra
WEAF WNAC WTIC WJAR WTAG
WCSH KYW WDEL WFBR WRC
WGY WBEN WCAE WTAM WLW
WIRE WMAQ KSD KSTP WHO
WOW WDAF KVOO WKY WBAP
KTBS KARK KPRC WOAI WTMJ
KOA KDYL KPO KFI KGW KHQ
E-II:00 pm, C-I0:00, M-9:00. P-8:00
R—Amos 'n' Andy
See Monday.

## WEDNESDAY

E-6:45 pm, S-5:45, M-4:45, P-3:45
B—Lowell Thomas
See Monday.
C—Sophie Tucker
See Monday.
E-7:00 pm, C-6:00, M-5:00, P-4:00
B—Easy Aces
See Tuesday.
R—Amos 'n' Andy
See Monday.
E-7:15 pm, C-6:15, M-5:15, P-4:15
C—"Lum and Abner"
See Monday.
R—Edwin C. Hill
See Monday.

-"Ask-It Basket" E-7:30 pm, C-6:30, M-5:00, P-4:30 WABC WOKO WCAO WEEI WGR WBBM WKRC WGAR KRNT WJR WBBM WKRC WGAR KRNT WJR WDRC WFBM KMBC WHAS KFAB WCAU WJAS WPRO KMOX WFBL WISV WADC WBNS WHIO WHEC WORC WLBZ WHP WISN WMBD WIBW WWVA KFH WKBN WBT WRVA WJNO WGST WAPI WREC WWL WNAX KRLD KTRH KOMA KTSA KWKH WMBR WQAM

E-8:00 pm, C-7:00, M-6:00, P-5:00 C--"Gang Busters"

WABC WOKO WCAO WEEI WGR WBBM WKRC WGAR KRNT WJR WBBM WKRC WGAR KRNT WJRW WFBM KMBC WHAS KFAB WCAU WJAS WPRO KMOX WFBL WISV WBNS WHIO WHEC WORC WBLZ WISN KFH WBT WRVA WGST WAPI WREC WWL WCCO KRLD KTRH KTSA KOMA

#### -One Man's Family

WEAF WNAC WTIC WJAR WTAG WCSH KYW WFBR WRC WGY WBEN WCAE WHAM WSYR WWJ WILL WHAM WILL WMY
WITAM KSD WHO WOW WDAF
WWNC WLW WMAQ WIBA WEBC
WKY WMC WSMB WBRC WAVE
KYOO WOAI KOA KDYL WIS
WIOD WMBG WSOC WTAR WSB KPRC WJAX KSTP WTMJ WFLA-WSUN CBL WIRE WDEL WSAN WCOL WSM CBM WFAA

E-8:30 pm, C-7:30, M-6:30, P-5:30 E-8:30 pm, C-7:30, M-0:30, F-0:30
B—Hobby Lobby
WJZ WBZA WEAN WICK
WFIL WBAL WMAL WSYR
WHAM WEBR KDKA WHK WSYD
WXYZ WSAI WJTN WMFF WABY
KOA WLEU WCOL KDYL WBOW
WELL WIBM WJIM KPO KFI KGW KOMO KHQ WFDF

-Paul Whiteman's Orchestra C—Paul Whiteman's Orchestra
WABC WOKO WCAO WEEE WBBM
WKRC WGAR WJR WDBC KFAB
WCAU WJAS WPRO WFBL WJSV
WBNS WHIO WHEC WORC WLBZ
WNBF WHIP WGBI WMAS WIBX
WCHS WBT WBIG WRVA WDBJ
WIND WSIS WGST WMBR WQAM WING WSJS WGST WMBR WQAM WDAE WTOC WDBO WMMN WGR WADC WPG WNBX WGH WAIM WDNC KRNT WFBM WHAS KMOX WISN WMBD WIBW KFH WAPI WDOD WNOX KLRA WREC WCOC WSFA WLAC WWL KMBC KRLD KTRH KOMA KTSA KWKH KTUL WACO WOC KDAL WTAQ WMFG WKBH WCCO KSCJ WHLB

-Tommy Dorsey Orchestra R—Tommy Dorsey Orchestra
WEAF WNAC WTIC WJAR WTAG
WCSH KYW WDEL WSOC WTMJ
WFBR WRC WGY WBEN WTAM
WWJ WMAQ KSD KSTP WHO
WOW WDAF WMBG WOOD WTAR WPTF WWNC WIS WJAX WFLA-WSUN WIOD WAVE WSM WMC WBRC WSB WLW WIRE WSMB WKY WFAA KTBS KPRC KARK E-9:00 pm, C-8:00, M-7:00, P-6:00

C-"Everybody's Music"
Available to full network R-Town Hall; Fred Allen

WEAF WNAC WTIC WJAR WTAG WCSH KYW WFBR WRC WGY BEN WTAM WWJ WMAQ WHO WOW WDAF WLW WCAE KSD

E-9:30 pm, C-8:30, M-7:30, P-6:30 C—Texaco Star Theater WABC WOKO WCAO WEE WEBW WRRM WERC WGAE WKBW WBBM WKRC WKBW WBBM WKRC WGAR KRNT WJR WDRC WFBM KMBC WHAS KFAB WCAU WJAS WPRO KMOX WFBL WJSV WADC WBNS WHIO WHEC WORC WPG WLBZ WNBF WEOA KFPY WHP WISN WALDD WCHI WSPT WMAS WGBI WSBT WMAS WMRD WIBW WIBX KFH WRDW WCHS
WBT WDNC WBIG WRVA WDBJ
WTOC WINO WSIS WGST WAPI
WDOD WNOX KLRA WREC WSFA
WLAC WWL KVI KGGM KRLD WLAC WWL KVI KGGM KRLD KTRH KOMA KTSA KWKH KTUL WMBR WQAM WDBO WDAE WOC WKBB KDAL WTAQ WMFG WKBH WCCO KSCJ WHLB WNAX KVOR KLZ KSL KARM KFBB KGVO KOY KGAR KNX KOIN KDAL KSFO KIRO

E-10:00 pm, C-9:00, M-8:00, P-7:00 R-Kay Kyser's Klass
WEAF WHN WNAC WJAR WTAG
WCSH KYW WFBR WRC WGY
WBRC WBEN WCAE WTAM WFEA KTHS KGBX KDYL KSEI KTSM
WMBG KOB KOA WWJ WLW
WMAQ KSD WHO WOW WDAF
KSTP WTMI WIBA WEBC WDAY
KFTR WPTF WOOD WWNC WIS
WIAX WIOD WAVE WSM WMC
KGU WSB WIDX WSMB WMC
KGU WSB WIDX WSMB WSFAA
KTBS KPRC WOAI KGIR
KPO KGHI, KFI KTAR WSOC
WFLA-WSUN WCSC KHQ WGL
WDEL WORK KFFK KWG WFBC
WTAR WIRE KGW KOMO KMJ
KERN KPFA KIDO WTIC WSYR
WALA KARK KVOO KANS WGAL FTHS KGBX KDYL KSEI KTSM KTFI

E-10:30 pm, C-9:30, M-8:30, P-7:30 C---"It Can Be Done" C—"It Can Be Jone"
WABC WOKO WEEI WKBW
WBBM KRNT WJR WDRC WFBM
KMBC WHAS KFAB WCAU WJAS
WPRO KMOX WFBL WBNS WHIO
WHEC WORC WNBF WMAS WIEX
WCIES WOO WKBO WGAO WCHS WOC WKRC WCAO

E-11:00 pm, C-10:00, M-9:00, P-8:00 R-Amos 'n' Andy See Monday.

E-11:15 pm, C-10:15, M-9:15, P-8:15 R—Edwin C. Hill See Monday.

#### THURSDAY

E-6:45 pm, C-5:45, M-4:45, P-3:45 B-Lowell Thomas

See Monday. E-7:00 pm, C-6:00, M-5:00, P-4:00 B-Easy Aces

See Monday. R—Amos 'n' Andy See Tuesday.

E-7:30 pm, C-6:30, M-5:30, P-4:30

C-Joe Penner
WABC WOKO WCAO WEEI WGR
WBBM WKRC WGAR KRNT WJR
WFRM KMBC WHAS WDRC WFBM KMBC WHAS KFAB WCAU WJAS WPRO KMOX WFBL WJSV WADC WBNS WHIO WHEC WORC WHP WISN WMBD

WIBW KFH WKBN WCHS WBT WRVA WINO WGST WAPI WNOX WREC WIAC WWL WMAS KRLD KTRH KOMA KTSA KTUL WMBR WQAM WDBO WDAE WOC WCCO KSCJ WNAX WGBI

E-8:00 pm, C-7:00, M-6:00, P-5:00 E-8:00 pm, C-7:00, M-6:00, P-5:00 C—Kate Smith Hour WABC WOKO WCAO WEEL WGR WBBM WKRC WGAR KRNT WJR WDRC WFBM KMBC WHAS KFAB WCAU WJAS WPRO KMOX WFBL WJSV WADC WBNS WHO WHEC WORC WLBZ WEOA WHP WISN WMBD WIBW KFF WKBN WBT WRYA WDBJ WINO WGST WAPI WDOD WNOX KIRA WREC WDOD WNOX KLRA WREC WSFA WLAC WWL WNAX KRLD KTRH KOMA KTSA KWKH KTUL WACO WMBR WQAM WDBO WDAE WOC KDAL WTAG WKBH

WEGW Vallee Hour
WEAF WNAC WTIC WJAR WBEN
WEBC WCSH WTAG WRC WGY
WKY WFBR KDYL KSTP WTMJ
KOA KFI KPO KGW KOMO WLW
KHQ KYW KPRC WOAI KSD
WHO WOW WDAF WMC WIBA
WMAQ WJAX WFLA WIOD WAYE
WIRE WSB WSMB WTAM WWJ
KYOO WBAP WSM WMEG WCAE
WDEL WBRC

WCCO KSCJ

E-8:30 pm, C-7:30, M-6:30, P-5:30 C—Joe Penner; Ben Pollack KLZ KSL KARM KNX KOIN KSFO KIRO KFPY KVI

KSFO KIRO KFPY KVI

E-9:00 pm, C-8:00, M-7:00, P-6:00
C-Major Bows' Amateur Hour
WABC WOKO WCAO WEEL
WKBW WBBM WKRC WGAR
KRNT WJR WDRC WFBM KMBC
WHAS KFAB WCAU WJAS WPRO
KMOX WFBL WJSV WADC
WHO WHEC WORC WLBZ
WHP WISN WMBD WGBI WMAS
WHP WISN WMBD WGBI WMAS
WHP WISN WHED WGAN
WHEW WIEX KFH WKBN WCHS
WHT WHEO WNOX KLRA WREC
KGAR WLAC WTOC KRLD KTBH
KOMA KTSA KWKH KTUL WJNO
WMBR WQAM WDAE CKAC CFRB
KOOY WTAQ WKBH KIRO KNX
KOIN KSFO KFPY KVI WWL
KOY WFOA WCCO KSCJ WNAX
KLZ KSL KFBB KLZ KSL KFBB

R—Good News of 1939
WEAF WHN WNAC
WTAG WCSH KYW WFBR WRC
WGY WBEN WCAE WTAM WWJ
WIRE WMAQ KSD KSTP WHO
WOW WDAF WLW WSPD
WSYR WHAM WFEA
WHEAF WFEA
WHEAF WFEAF
WHAT WFEAF
WHAT WFEAF
WHAT WFEAF
WFEAF
WHAT WFEAF
WFEAF
WFEAF WSYR WHAM WFEA WBRE
WOOD WDEL WEBC WTAR WPTF
WSOC WFBC KPFA WWNC WIS
WJAX WFLA-WSUN WIOD WMC
WSB WBRC WJDX WSMB WAVE
WSM KYOO WKY WSAP KTBS
KARK KPRC WOAI WTMJ WIBA
WDAY KFYR KOA KDYL KPO
VET KGW KOMO KHO KTAR WISH KEYR KOA KDYL KPO
KFI KGW KOMO KHQ KTAR
KFBK KWG KMJ KERN KGIR
KGHL KGNC KTHS CBM CBL

E-10:00 pm, C-9:00, M-8:00, P-7:00 C-"Columbia Workshop" Available to full network R—Kraft Music Hall

WEAF WNAC WTIC WJAR WTAG
WCSH WBEN WRC WGY KYW
WHO WOW WDAF WCAE WTAM
WWJ WLW KSD KFYR WEBEC

WKY KTBS KARK WTMJ BAP KPRC WOAI KOMO WSB KOA KPO DYL KFI KGW KHQ WIBA KSTP KTAR WJDX WPTF WIS KSTP KTAR WJDX WPTF WIS WIOD WAVE WTAR WFLA WDAY WSM WMC WIRE WMAQ WBRC WFBR WJAX WDEL WROL WSMB CBL CRM WMBG CBL CBM CBF WSOC WSYR WHAM WFBC KGIR KGHL KPFA KTHS WOOD

E-11:00 pm, C-10:00, M-9:00, P-8:00 R-Amos 'n' Andy

See Monday. E-11:30 pm, C-10:30, M-9:30, P-8:30 -Kate Smith Hour KLZ KSL KFBB KGVO KGAR KARM KNX KOIN KGAR KSFO KIRO KFPY KVI

## FRIDAY

E-6:45 pm, C-5:45, M-4:45, P-3:45 B-Lowell Thomas See Monday

C—Sophie

See Monday. E-7:00 pm, C-6:00, M-5:00, P-4:00 R-Amos 'n' Andy See Monday.

E-7:15 pm, C-6:15, M-5:15, P-4:15 -"Lum and Abner" See Monday.

R-limmie Fidler

WEAF WNAC WTIC WJAR WTAG WCSH KYW WFBR WDEL WRC WGY WWJ WBEN WCAE WTAM E-7:30 pm, C-6:30, M-5:30, P-4:30

C-"Wonder Show"; Jack Haley

WABC WADC WEEI WGR WBBM WKRC WGAR KRNT WJR WDRC WFBM KMBC KFAB KMOX WJSV WBNS WHIO WHEC WISN WMAS WIBX WWVA KHE WRVA KLRA WREC KRLD KOMA KWKH KTUL WOC KGLO WCCO KSCJ

E-8:00 pm, C-7:00, M-6:00, P-5:00 B-Criminal Histories; Warden Lawes WJZ WBZ WBZA WEAN WIC WFIL WBAL WMAL WSYR WHAM WEBR KDKA WHK WSPD WXYZ KWK WMT WTCN WGBF WMC WJTN WSB WBRC
WJDX WSMB WAVE WSM KXYZ KGKO KTHS KPO KFI KGW KOMO KHQ KVOD

C-"Campana's First Nighter"

WABC WADC WOKO WCAO WEEL WGR WBBM WKRC WGAR KRNT WJR WDRC WFBM KMBC WHAS KFAB WCAU WJAS WPRO KMOX WFBL WJSV WBNS WHIO WHEO WLBZ WIBW WWVA KRLD KTRH KOMA KTSA KWKH KDAL WCCO WNAX KLZ KSL KOY KGAR WREC WLAC WWL KNOW WAPI WGST WRVA

R-Cities Service Concert

WEAF WNAC WTIC WJAR WTAG WEAF WNAC WITC WAR WTAM WY KSD WRC WCSH WTAM WWJ KSD WRC WCKY WEBC KSTP KYW WFBR WGY WIOD WIBA WDAY KFYR WJAX WCAE WBEN WTMJ WOAI KPRC WMAQ WTAR WPTF WSOC WWNC WFLA-WSUN WMBG WFBC WIRE KTBS WDEL KVOO WFAA WHO WOW WDAF KOA WKY CBL E-8:30 pm, C-7:30, M-6:30, P-5:30 C—Burns and Allen

WABC WOKO WCAO WEEI WGR
WBM WKRC WGAR KRNT WIR
WDRC WFBM KMBC WHAS KFAB
WCAU WJAS WPRO KMOX WFEL
WJSV WADC WBNS WHIO WHEC
WORC WPG WLBZ WNBF WMMN

E 6:00 pm, C-5:00, M-4:00, PR—Kaltenmeyer's Kindergarten.
Available to network
C-5:00, pm. C-5:00, M-4:00, PC-5:00, pm. C-5:00, WBBM WKRC WGAR KRNT WJR
WDRC WFBM KMBC WHAS KFAB
WCAU WJAS WPRO KMOX WFBL
WISV WADC WBNS WHIO WHEC
WORC WPG WLEZ WNBF WMMN
WHP WISN WMBD WGBI WMAS
WNBX WLEW WIEX KFH WAIM WCHS WBT WDNC WBIG WRVA WDBJ WTOC WJNO WSJS WGST WAPI WDOD WNOX KLRA WREC WCOC WSFA WLAC WWL WGH KRLD KTRH KOMA KTSA KWKH WDAE WOC KDAL WTAQ WMFG
WKBH WCCO KSCJ WHLB WNAX KTITI. WMBR. WQAM WDBO E-9:00 pm, C-8:00, M-7:00, P-6:00

"Hollywood Hotel"

WABC woko WEEI WKBW WBBM WKRC WGAR KRNT WJR
WDRC WFBM KMBC WHAS KFAB
WCAU WJAS WPRO KMOX WFBL
WJSV WCAO WBNS WHIO WHEC KFH WBT WRVA WGST WNOX KLRA WREC WLAC WWL KVI WLAC WWL KVI KRLD KTRH KOMA KTSA KWKH WMBR CKAC CFRB WCCO KLZ KSL KNX KOIN KSFO KIRO KEPY and Canadian Broadcasting Corp.

#### R-Waltz Time

WEAF WNAC WTIC WJAR WTAG WCSH WFBR KYW WRC WGY WBEN WCAE WWJ WMAQ WHO WOW WDAF KSD WTAM KSTP WCKY WIRE WDEL CBM CRF WIRE WDEL CBM CBR WCKY

E-9:30 pm, C-8:30, M-7:30, P-6:30 R-Death Valley Days

WEAF WNAC WTIC WJAR WTAG WCSH KYW WRC WGY WBEN WCAE WTAM WWJ WIRE WMAQ KSD WHO WOW WDAF WDEL WDEL WFBR KSTP WLW

E-10:00 pm, C-9:00, M-8:00, P-7:00 R-Guy Lombardo Orchestra

WEAF WNAC WTIC WJAR WTAG
WCSH KYW WDEL WFBR WRC
WGY WBEN WCAE WTAM WWJ
WSAI WIRE WMAQ KSD KSTP WSAI WIRE WMAQ KSD KSTR WHO WOW WDAF WEBC KANS WA'VE WSM WMC WBRC WSMB WJDX KVOO WKY WFAA KTBS KPRC WOAI WTMJ WIBA WDAY KFYR KOA KDYL KPO KFI KGW KOMO KHQ WSB

E-10:30 pm, C-9:30, M-8:30, P-7:30 R-Jimmie Fidler See Tuesday

E-10:45 pm, C-9:45. M-8:45, P-7:45 R-Uncle Ezra

WEAF WNAC WTIC WJAR WTAG WCSH KYW WDEL WFBR WRC WGY WBEN WCAE WTAM WIRE WMAQ KSD KSTP WDAF KVOO WKY WFAA WLW  $\mathbf{w}$ WFAA KTBS KARK KPRC WOAI WTMJ KO KDYL KPO KFI KGW KOMO KHQ

E-II:00 pm, C-I0:00, M-9:00. P-8:00 R—Amos 'n' Andy

See Monday. E-11:30 pm, C-10:30, M-9:30, P-8:30 C—Burns and Allen
KVOR KLZ KSL KFBB KGVO
KGAR KNX KOIN KSFO KOY KGAR KNX KOIN KIRO KFPY KGMH KHBC KSFO

#### SATURDAY

P-3:00

R-Avalon Time

WEAF WNAC WTIC WTAR WPTF WSOC WFBC WJAR WTAG WCSH KYW WDEL WFBR WRC WGY WBEN WCAE WTAM WWJ WIRE WMAQ WWNC WIS WCSC KSD WMAQ WWNC WIS WCSC KSD KSTP WHO WOW WDAF WFIA-WSUN WIOD WAYE WSM WMC WBRC WSB WSMB WJDX KVOO WKY WBAP KTBS WLW WJAX E-7:30 pm, C-6:30, M-5:30, P-4:30 B-Uncle Jim's Question Bee WBZA WGY KDKA WJZ WBZ WTAM WMAQ

-Joe E. Brown

WABC WOKO WCAO WEEI WGR WFBM WKRC WGAR KRNT WJR WFBM WDRC KMBC WHAS WFBM WAD WHAN WHO KMOX
WFBL WJSV WADC WBNS WHIO
WHEC WWVA WEOA WHP WISN
WMBD WIBW KFH WCHS WBT WRVA WINO WGST WAPI WDOD WNOX KLRA WREC WLAC WWL WDBJ KRLD KTRH KOMA KTSA KWKH KTUL WMBR WQAM WDBO WDAE WOC KGLO WCCO KSCJ WNAX

E-8:00 pm, C-7:00, M-6:00, P-5:00 C-Johnny Presents

WABC WGAR WJR WDRC KMBC KFAB WCAU WJAS WPRO WJSV WBNS whio WHEC WADC WADC WBNS WHIO WHEC WNBF WHP WGBI WWVA WCHS WBT WBIG WRVA WGST WOKO WCAO WEEI WGR WBBM WKRC KLRA WCOA WHAS KRNT WFBM KMOX WISN KFB WAPI KRLD KTRH KTSA WOC WCCO

**R**—Quaker Party

WEAF WNAC WTIC WJAR WTAG WCSH KYW WDEL WFBR WRC WGY WBEN WCAE WTAM WWJ WIRE WMAQ KSD KSTP WHO WOW WDAF WLW WMBG KANS WTAR WPTF WSOC WFBC WIS WJAX WFLA-WSUN WIOD WMC WBRC WJDX WSMB WAVE WSM KVOO WKY WBAP KTBS KARK KPRC WOAI WTMJ WDAY KFYR KOA KDYL KPO KFI KGW WSI E-8:30 pm, C-7:30, M-6:30, P-5:30

C-"Professor Quiz"

WABC WADC WOKO WCAO WEEI
WGR WBBM WKRC WGAR WJR
WDRC KMBC KFAB WCAU WJAS
WPBO KMOX WJSV WBNS WHEC WBT WRVA WGST WWL KRNT WFBM WHAS WFBL WGBI WTOC WAPI KRLD KTRH KTSA WCCO

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R-Fred Waring

WEAF WNAC WTIC WJAR WTAG
WCSH KYW WDEL WFBR WRC
WGY WBEN WCAE WTAM WWJ
WIRE WMAQ KSD KSTP WHO
WOW WDAF WSAJ CRM CBF WSAI wow WDAF CBMCRE WPTF wsoc WTAR. WEBC WYAR WPIF WSOC WFBC
WWNC WIS WCSC WIAX WYBJ
WSUN WIOD WAVE WMC WBRC
WSB WSMB WJDX KVOO WKY
WBAP KTBS KPRC WOAI

E-9:00 pm, C-8:00, M-7:00, P-6:00

B—National Barn Dance

WJZ WBZ WBZA WBAL WMAL

WSYR WHAM WTMJ WIBA

WWA KFIJ WET WBIG WRAW WWA KFIL WBIG WRAW

WSYR WHAM WTMJ WIBA

WWA KFIJ WET WBIG WRAW

WWA KFIL WHO

WSB WOOD WRTD WLIW KARK WBRC

WIC WJTN KVOO WEBR WDAY

WHEN WAY

WHEN WAY

WAY

WAY

KOMA

KTSA KWKH

KTL

WAR

KOMA

KTSA KWKH

KTUL

WCOA KGLO KRLD KTRH

KOMA

KTSA KWKH

KTUL

WCOA KGLO KRLD KTRH

KOMA

KTSA KWKH

KTUL

WCOA KGLO KRLD KTRH

WHOOD WBIG

WREN WJOO

WHEN WAY

WEBC WJTN KVOO WEBR WDAY

WKEN WJOO

WTCN KWK

WMT KSO

KOMA

KTSA KWKH

KTUL

WCOA KGLO KRLD KTRH

KOMA

KTSA KWKH

KTUL

WCOA KGLO KRLD KTRH

KOMA

KTSA KWKH

KTUL

WCOA KGLO KRLD KTRH

WHEN WJOX

WHEN WJDX

WMBR WQAW WDBO

WABR WQAW

WDBO

WABR WQAW

WDBO

WABR WQAW

WBBW

WAY

WMBR WQAW

WDBO

WABR WQAW

WDBO

WAS

WWAX

KYOR

KLZ

KSE

KSFB

## CLASSIFIED INDEX TO CHAIN PROGRAMS

WC indicates West Coast programs: Time is given in Eastern Standard, all P.M. unless otherwise stated

|     |      |     | C   | omeay |
|-----|------|-----|-----|-------|
| un, | 5:30 | pm, | Lew | Lehr, |

CBS Sun, 5:30 pm, Lew Lehr, CBS
6:30 pm, Billy House, CBS
7:00, Jack Benny, Red
11 pm, Lew Lehr, CBS (WC)
Mon, 7:30, Eddie Cantor, CBS
8:00, Henry Youngman, CBS
10:30, Eddie Cantor, CBS (WC)
Tues, 8:30, Parkyakarus, CBS
10:00, Bob Hope, Red
10:00, Jerry Colonna, Red
12:00, Parkyakarkus, CBS (WC)
Wed, 9:00, Fred Allen, Red

Wed, Thur.

7:30, Jack Haley, CBS 7:30, Joe E. Brown, CBS 8:00, Col. Stoopnagle, Red Fri,

#### Concerts

Sun, 12:30 pm, Radio City Music Hall, Blue 3:00, N. Y. Philharmonic, CBS 5:00, Metropolitan Opera Auditions, Blue. 9:00, Ford Sunday Evening Hour, CBS

Mon, 8:30, Alfred Wallenstein, Red Wed, 9:00, Everybody's Music, CBS Fri, \$\infty\$8:00, Frank Black, Red

#### Dance Bands

5:30 pm, Ben Bernie, CBS Sun, 6:30, Carl Hohengarten, CBS 7:00, Harry Salter, Red 7:00, Phil Harris, Red 7:30, Oscar Bradley, CBS 8:00, Robert Armbruster, Red 9:00, Don Donie, Red 9:30, Gus Haenschen, Red

10:00, Horace Heidt, Red

Mon, 8:00, Richard Himber, CBS 8:00, Carl Hoff, Red 8:30, Benny Kreuger, CBS

9:00, Phil Spitalny, Red 9:30, Eddie Duchin, Red 10:00, Guy Lombardo, CBS 10:30, Carl Hoff, Red (WC) 11:30, Benny Kreuger, CBS (WC) Tues, 8:00, Russ Morgan, Red

11:00, Ben Bernie, CBS (WC) 11:30, Harry Salter, Red (WC)

8:30, Lud Gluskin, CBS 8:30, Peter Van Steeden, Red 9:30, Benny Goodman, CBS

10:00, Skinnay Ennis, Red 12:00, Lud Gluskin, CBS (WC)

10:00, Jerry Color.

12:00, Parkyakarkus, CBS (wc., 9:00, Fred Allen, Red 7:30, Joe Penner, CBS 8:30, Joe Penner, CBS 12:00, Lud Gluskin, CBS (wc., 9:00, Frank oMrgan, Fannie Brice, Red 10:00, Bob Burns, Red 7:30, Jack Haley, CBS 8:30, Tommy Dorsey, Red 8:30, Tommy Dorsey, Red 8:30, Harvey Salter, Blue 9:00, Peter Van Steeden, Red 9:30, David Broekman, CBS 10:00, Kay Kyser, Red

10:30, Frankie Masters, CBS Thur, 7:30, Ben Pollack; CBS 8:00, Jack Miller, CBS 8:00, Rudy Vallee, Red 8:30, Ben Pollack, CBS

9:00, Meredith Willson, Red

10:00, Johnny Trotter, Red 11:30, Jack Miller, CBS (WC) 7:30, Ted Fio Rito, CBS Fri,

8:30, Ray Noble, CBS 9:00, Victor Young, CBS 9:00, Abe Lyman, Red

10:00, Guy Lombardo, Red 11:30, Ray Noble, CBS (WC) 7:00, Saturday Night Swing Club, CBS

Sat.

7:30, Harry Sosnik, CBS 8:00. Russ Morgan, CBS 8:30, Fred Waring, Red 9:00, America Dances, Red 9:30, Gus Haenschen, CBS

10:00, Hit Parade, CBS 11:00, Harry Sosnik, CBS (WC)

| Dialog   | 8:00, Chase and Sanborn Program, Red   |
|--|--|
| Sun, 8:00 pm, Edgar Bergen, Charlie McCarthy,<br>Red                   |  |
|  | 9:30, Album of Familiar Music, Red     |
| 7:15, Lum and Abner, CBS   | 10:00, Horace Heidt's Brigadiers, Red  |
| 8:30, Pick and Pat, CBS  | Mon, 6:45, Sophie Tucker Show, CBS     |
| 11:00, Amos 'n' Andy, Red (WC)<br>11:15, Lum and Abner, CBS (WC).      | 8:00, Monday Night Show, CBS           |
| 11:30, Pick and Pat, CBS (WC)  | 8:00, Al Pearce and Gang, Red          |
| Tues, 7:00, Easy Aces, Blue  | 8:30, Voice of Firestone, Red          |
| 7:00, Amos 'n Andy, Red  | 9:00, Hour of Charm, Red               |
| 9:30, Fibber McGee and Molly, Red                                      | 9:30, Pall Mall Program, Red           |
| 11:00, Amos n Andy, Red (WC)<br>Wed, 7:00, Amos 'n' Andy, Red          | 10:00, Contented Program, Red          |
| 7:00, Easy Aces, Blue  | 10:00, True or False, Blue             |
| 7:15, Lum and Abner, CBS   | 10:30, Al Pearce and Gang, Red (WC)    |
| 11:00, Amos 'n' Andy, Red (WC)   | 11:30, Voice of Firestone, Red (WC)    |
| 11:15, Lum and Abner, CBS (WC) Thur, 7:00, Amos 'n' Andy, Red          | 12:30, Vox Pop, Red (WC)               |
| 7:00, Easy Aces, Blue  | Tues, 8:00, Johnny Presents, Red       |
| 11:00, Amos 'n' Andy, Red (WC)<br>Fri, 7:00, Amos 'n' Andy, Red        | 8:30, For Men Only, Red                |
| Fri, 7:00, Amos 'n' Andv, Red  | 9:00, We, The People, CBS              |
| 7:15, Lum and Abner, CBS<br>8:30, Burns and Allen, CBS                 | 9:00, Vox Pop, Red (WC)                |
| 11:00, Amos 'n' Andy, Red (WC)   | 10:45, Uncle Ezra, Red                 |
| 11:15, Lum and Abner, CBS (WC)   | Wed, 6:45, Sophie Tucker Show, CBS     |
| 11:30, Burns and Allen, CBS (WC)                                       | 7:30, Ask-It Basket, CBS               |
| Sat, 8:00, Tommy Riggs and Betty Lou, Red                              | 8:00, Town Hall Tonight, Red           |
| Drama  | 8:30, Hobby Lobby, Blue                |
|  | 9:30, For Men Only, Red                |
| Sun, 6:00 pm, Silver Theater, CBS                                      | 10:30, It Can Be Done, CBS             |
| 6:30, Tale of Today, Red<br>8:00, Orson Welles, CBS                    | 10:30, NBC Minstrel Show, Blue         |
| 9:45, Irene Rich, Blue   |  |
| 11:15, Irene Rich, Blue (WC)   | Thur, 9:00, Major Bowes' Amateurs, CBS |
| Mon, 9:00, Lux Radio Theater, CBS                                      | 9:00, Major Bowes' Amateurs, CBS       |
| Tues, 7:30, Helen Menken, Red<br>8:00, Edward Robinson, Claire Trevor, | 9:00, Good News of 1939, Red           |
| CBS  | 10.00, 111111 111111, 11111            |
| 10:00, Jean Hersholt, CBS  | Fri, 6:45, Sophie Tucker Show, CBS     |
| 11:30, Edward Robinson, Claire Trevor,                                 | 8:00, Cities Serice Concert, Red       |
| Wed, 8:00, Gang Buster (Phil Lord), CBS                                | 8:00, Warden Lawes, Blue               |
| 8:00, One Man's Family, Red  | 9:00, Waltz Time, Red                  |
| Thur, 10:00, Columbia Workshop, CBS                                    | 9:00, Hollywood Hotel, CBS             |
| Fri, 8:00, First Nighter, CBS  | 9:30, Death Valley Days, Red           |
| 9:00, Hollywood Hotel, CBS<br>9:30, Death Valley Days, Red             | 9:30, March of Time, Blue              |
| 10:00. Grand Central Station, CBS                                      | 8:00, Johnny Presents, CBS             |
| 12:00, First Nighter, CBS (WC)   | 8:30, Professor Quiz, CBS              |
| 8:00, Warden Lawes, Blue   | 9:00, National Barn Dance, Blue        |
| News   | 10:45, Uncle Ezra, Red                 |
| 1 46442  | 11:00, National Barn Dance, Blue (WC)  |
| Sun, 11:00 pm, Press Radio, Red and Blue                               | ,,                                     |
| Fri, 9:30, March of Time, Blue   | Singara                                |
| Daily except Sunday, 6:00, Press Radio, CBS<br>6:25, Press Radio, Red  | Singers                                |
| Daily except Saturday and Sunday, 6:45, Lowel                          | Sun, 4:00 pm, Benay Venuta, MBS        |
| Thomas, Blue   | 5:30 Manny Prager CBS                  |

Popular Programs

Sun, 11:30 am, Major Bowes Family, CBS
12:30 pm, Salt Lake Tabernacle, CBS
1:00, Church of the Air, CBS
2:00, RCA Magic Key, Blue
4:30, Court of Human Relations, MBS
5:00, Spelling Bee, Red
6:30, The Laugh Liner, CBS
7:30, Passing Parade, CBS

5:30, Manny Prager, CBS
6:30, Jack Fulton, CBS
7:00, Kenny Baker, Red
8:00, Nelson Eddy, Red
8:00, Dorothy Lamour, Red
9:00, Rachel Carlay, Red
9:00, Pierre Le Kreeun, Red
9:30, Frank Munn, Red
9:30, Jean Dickenson, Red
9:30, Elizabeth Lennox, Red

Mon, 8:30, Edward Roecker, CBS 8:30, Edward Roecker, CBS 8:30, Margaret Speaks, Red 10:00, The Lullaby Lady, Red Tues, 8:30, Al Jalson, CBS 8:30, Martha Raye, CBS 9:30, Donald Novis, Red 12:00, Al Jolson, CBS (WC) 12:00, Martha Raye, CBS (WC) Wed, 9:30, Jane Froman, CBS 9:30, Kenny Baker, CBS 10:00, Virginia Sims, Red 10:30, Marion Francis, CBS Thur, 8:00, Kate Smith, CBS 10:00, Bing Crosby, Red 11:30, Kate Smith, CBS (WC) 7:30, Jack Haley, CBS 7:30, Virginia Verrill, CBS 8:00, Lucille Manners. Red 8:30, Tony Martin, CBS 9:00, Frances Langford, CBS 9:00, Jean Sablon, CBS 9:00, Frank Munn, Red 11:30, Tony Martin, CBS (WC) 9:00, Henry Burr, Blue Sat, 9:30, Mary Eastman, CBS 9:30, Bill Perry, CBS 10:00, Fredda Gibson, Buddy Clark, CLS 11:00, Henry Burr, Blue (WC)

#### Talks

Sun, 9:30, Walter Winchell, Blue
11:00, Walter Winchell, Blue (WC)

Mon, 7:15, Edwin C. Hill, Red
11:15, Edwin C. Hill, Red

Tues, 9:00, Gabriel Heatter, CBS
10:30, Jimmy Fidler, Red

Wed, 10:30, Edgar A. Guest, CBS

Fri, 7:15, Jimmy Fidler, Red
10:30, Jimmy Fidler, Red (WC)

THERE is nothing unusual about spending 30 days in jail after appearing in a courtroom, but Josef Cherniavsky once spent a month behind bars after playing his cello before the Russian Imperial Court.

It seems that the Czar's personal adjutant, General Komaroff, requisitioned a string trio from the Preobrajonsky Regiment Symphony orchestra to play at a musical given for the Imperial Court. Cherniavsky was one of the instrumentalists selected to play.

Now the General didn't care much what the trio played, but he did have his own ideas about how the musicians rendered their selections. He insisted that the players march into his presence after a certain fashion, and demanded that they play while standing erect with their heels together. Any musician knows that such a stance would play hob with any player, especially a cellist.

Cherniavsky argued that in order to play, he would have to place the cello between his legs. But the good General insisted that he would have to play with his heels together—or else.

Following the General's orders, Cherniavsky clicked his heels together and proceeded to play with the cello at his side. That is, until carried away by the tempo, he placed the cello between his legs.

After the selection was finished, the Court applauded politely and left. Then the General, with all the pomp and ceremony he could muster, descended upon the musicians, particularly Cherniavsky. With some choice Russian epithets, Josef was told he had disobeyed orders. A military guard was called.

Thirty days later Josef and his fellow musicians were released from the brig.

## Across the EDITOR'S Desk

WAY down on the "slimy, slushy, sloppy, slippery, sloping banks of the Silvery Rio Grande," according to Mr. M. M. Valentine there is a meek little 250 watt "signal squirter" known as KPAB. Mr. Valentine is the General Manager of this station, owned by the Pan American Broadcasting Company of Laredo, Texas, and he tells us that although it operates on 1500 kcs. "for the public convenience and necessity," it is also anxious to receive DX reports.

Mr. Valentine is planning a special DX broadcast to take place sometime during the latter part of January, and in addition to the usual verification cards, souvenirs from the Mexican border will be sent to successful listeners. The souvenirs will consist of sombreros, serapes, pottery, dressed fleas, and many other characteristic Mexican pieces.

May we request all our readers to drop Mr. Valentine a note, expressing their appreciation of his offer to broadcast a program for their enterrainment?

JOE Lippincott of East Vassalboro, Maine, requests us to mention the special broadcasts which will take place on December 9 and 10, from San Jose, Costa Rica. Three stations will broadcast on these days, between 2 and 4 am, EST, and it is expected that some other San Jose stations may join in the fun; the three scheduled, however, are TIXD on 800 kcs.,

TIRH on 950 kcs. and TI2XD on 11920 kcs. It is likely that each station will use a special identifying signal so they can be distinguished from each other, and make it possible to verify each one separately.

Stations TIXD and TI2XD broadcast, on their regular schedules, from 11 am to 1:30 pm, and from 5 to 11 pm, EST. Their call letters and slogans are given every thirty minutes.

IN another part of this edition of RADEX appears a short article on Television, written by Mr. E. F. McDonald, Jr., President of the Zenith Radio Corporation. In his article, Mr. McDonald gives some very excellent reasons why Television remains "around the corner," and why it should not be made available prematurely to the general public.

While we should like to see Television on the market, so we may enjoy its benefits and pleasures, we agree with Zenith's president that these receivers should not be sold until a standard number of lines and type of scanning has been adopted. At the present time 441 lines are being transmitted in experimental broadcasts; eight years ago, in Chicago, we were thrilled by crude 60-line images as broadcast by WMAQ. It is possible that even in one year from now, our present 441-line pictures will be antiquated.

DUE to circumstances beyond their control, station KGY in Olympia, Washington, was not able to broadcast the special program which was scheduled for November 19. The Federal Communications Commission ordered that, because of the desire of many broadcast stations to transmit late election returns during the second week in November, the frequency check periods for November were deferred until the third week, making it impossible for KGY to broadcast between the hours of 3 and 6:30 am, EST, as planned.

Mr. Otto Renninger, Jr., of the Technical Staff of KGY, will notify us of another date for this broadcast.

**A** NSWERING our questionnaire which was sent to all the North American broadcasting stations, XEAF in Nogales, Sonora, informs us . that they are pleased to verify correct reports of reception free of charge. Sr. Rene Mascarenas M., writing for the station, advises us that the name of the company owning XEAF is the Radiodifusora Sonorense, S. A., and the address, Altos Banco de Nogales, or P. O. Box 711 in Nogales, Arizona. The General Manager is now Gaston Mascarenas M. XEAF broadcasts daily from 11 am until 3 pm, and from 7 pm until Midnight. On Mondays, only the 7 to midnight broadcast is scheduled.

For photographs used in RADEX this month we thank the following contributors: National Broadcasting Company, Jerry Hahn, Tony Tarr, Mrs. Dora Newcomb, A. M. Hankins, James Walker, Ray E. Everly, and Francis Coradetti.

#### Asiatic Stations

FROM Alan I. Breen, of Dunedin, New Zealand, Honorary Member of The Radex Club, comes timely information concerning the new Indian stations, and some active Shanghai broadcasters.

The latest additions to the All-India Radio System are VUT, at Trichinopoly, due on the air in December, 1938, and VUY, Dacca, scheduled to start broadcasting in March of 1939. A complete list of the Indian stations follows:

#### **Broadcast Band**

| 758  | VUT | Trichinopoly, 5 kw. |
|------|-----|---------------------|
| 810  | VUC | Calcutta, 1.5 kw.   |
| 886  | VUD | Delhi, 20 kw.       |
| 1022 | vuw | Lucknow, 5 kw.      |
| 1086 | VUL | Lahore, 5 kw.       |
| 1168 | VUY | Dacca, 5 kw.        |
| 1231 | VUB | Bombay, 1.5 kw.     |
| 1420 | VUM | Madras, .25 kw.     |
| 1500 | VUP | Peshawar, .25 kw.   |

#### Shortwave

| 4880  | VUC2  | Calcutta, 10 kw. |
|-------|-------|------------------|
| 4905  | VUB2  | Bombay, 10 kw.   |
| 4950  | VUM2  | Madras, 10 kw.   |
| 4995  | VUD2  | Delhi, 10 kw.    |
| 9530  | VUC2  | Calcutta, 10 kw. |
| 9550  | VUB2  | Bombay, 10 kw.   |
| 9590  | VUD2  | Delhi, 10 kw.    |
| 9590  | VUD3  | Delhi, 5 kw.     |
| 15160 | VIID3 | Delhi 5 kw       |

Mr. Breen has been fortunate in obtaining an authentic list of the Shanghai, China stations which are actually operating. Unfortunately, the stations are all of low power. Only one, XMHD on 760 kcs. has 1000 watts. XMHB on 980 is 500 watts; XHHZ on 1160 is 150 watts; XHHB on 740 and XLHA on 800 are both 50-watters, and all the rest are 100-watters.

| 740  | XHHB | 1120 | XMHJ |
|------|------|------|------|
| 760  | XMHD | 1140 | XHHM |
| 800  | XLHA | 1160 | XHHZ |
| 840  | XHHU | 1200 | XHHN |
| 860  | XLHG | 1220 | XHHG |
| 940  | XHHE | 1240 | XHHY |
| 960  | XHHF | 1260 | XHHP |
| 980  | XMHB | 1280 | XHHC |
| 1000 | XQHT | 1320 | XHHT |
| 1020 | XLHB | 1340 | XHHK |
| 1040 | XHHH | 1360 | XQHD |
| 1080 | XHHJ | 1380 | XQHK |

# The BROADCASTING Stations of the WORLD

All the world's broadcasting stations which use at least 1000 watts of power, are shown in this list. Frequencies are given in the first column, the power in kilowatts in the second column, Complete lists, showing all the stations, regardless of power used, are printed by Continents, from month to month: The South Americans were listed in the October issue, and the stations of Oceania in the September issue.

|  | -   |  |   |   |  |  |   |
|--|---|--|---|---|--|--|---|
| 153  | 5   | • • • •  | Ankara, Turkey  | 592   | 100  |  | Vienna, Germany   |
| 155  | 7   |  | Kaunas, Lithuania   | 600   | 25   | CNR  | Rabat, Morocco  |
| 160  | 10  | • • • •  | Hilversum, Netherlands  | <b>600</b>  | 25   | PRH2   | Porto Alegre, Brazil  |
| 160  | 150   | • • • •  | Brasov, Roumania  | 600   | 10   | SBD  | Sundsvall, Sweden   |
| 166  | 220   |  | Lahti, Finland  | 600   | 10   | ZTC  |   |
| 172  | 500   |  | Moscow, U.S.S.R.  |   |  |  | Cape Town, U.S. Africa  |
| 180  | 100   |  | Shinkyo, Manchukuo  | 601   | 15   |  | Athens, Greece  |
| 182  | 80  |  |   | 610   | 1  | CX4  | Montevideo, Uruguay   |
| 185  |   | • • • •  | Paris, France   | 610   | 20   |  | Florence, Italy   |
|  | 5   | • • • •  | Istanbul, Turkey  | 610   | 3  | JOJK   | Kanazawa, Japan   |
| 191  | 60  | • • • •  | Berlin, Germany   | 610   | 50   | KZRM   | Manila, Philippines   |
| 200  | 20  | • • • •  | Irkutsk, C.S.S.R.   | 610   | 3.5  | 2FC  | Sydney, Australia   |
| 200  | 150   |  | Droitwich, Gt. Britain  | 620   | 1  | CB62   | Santiago Chile  |
| 208  | 3 <b>5</b>  |  | Minsk, U.S.S.R.   | 620   | 2  | LV3  | Santiago, Chile<br>Cordoba, Argentina   |
| 208  | 16  |  | Reykjavik, Iceland  | 620   | 4.5  | 3AR  | Molhaman America  |
| <b>2</b> 16  | 150   |  | Motala, Sweden  |   |  | -  | Melbourne, Australia  |
| 218  | 100   |  | Novosibirsk, U.S.S.R.   | 620   | 15   |  | Brussels, Belgium   |
| 224  | 120   |  | Warsaw, Poland  | 620   | 20   | · · · · ·  | Cairo, Egypt  |
| <b>2</b> 32  | 150   |  |   | 629   | 20   | CT1AA  | Lisbon, Portugal  |
|  |   | • • • •  | Luxembourg  | 629   | 20   |  | Khristiansand, Norway   |
| 232  | 100   |  | Moscow, U.S.S.R.  | 630   | 5  | LS3  | Buenos Aires, Argentina   |
| 240  | 60  |  | Kalundborg, Denmark   | 630   | 7  | 4QN  | Clevedon, Australia   |
| 248  | 100   |  | Kiev, U.S.S.R.  | 630   | ŀ  | 7ŽL  | Hobart, Australia   |
| <b>2</b> 56  | 25  |  | Tashkent, U.S.S.R.  | 638   | 120  |  |   |
| 260  | 60  |  | Oslo, Norway  | 640   | 10   | ŻTJ  | Praha, Czechoslovakia   |
| 260  | 1   |  | Bergen, Norway  |   |  |  | Johannesburg, U.S. Africa   |
| 260  | 10  |  | Vigra, Norway   | 640   | 7.5  | 5CK  | Crystal Brook, Australia  |
| 271  | 100   |  | Leningrad, U.S.S.R.   | 640   | 1  | CB64   | Vina del Mar, Chile   |
| 283  | 35  |  |   | 648   | 100  |  | Lyons-la-Doua, France   |
|  |   | • • • •  | Tiflis, U.S.S.R.  | 648   | 10   |  | Petrozavodsk. U.S.S.R.  |
| 300  | 100   | · · • •  | Moscow, U.S.S.R.<br>Saratov, U.S.S.R.   | 650   | 2  | CX6  | Montevideo, Uruguay   |
| 340  | 20  |  | Saratov, U.S.S.R.   | 650   | 10   | 1YA  | Auckland, New Zealand   |
| 347  | 10  |  | Finnmark, Norway  |   |  |  |   |
| 350  | 10  |  | Archangel, U.S.S.R.   | 658   | 100  | 37.07  | Cologne, Germany .  |
| <b>3</b> 55  | 20  |  | Boston-on-Don, U.S.S.R.   | 660   | 10   | XGZ  | Nanking, China  |
| 360  | 20  | HAL 2  | Budapest, Hungary   | 668   | 20   |  | Jerusalem, Palestine  |
| 2,,(   |   |  |   |   |  |  |   |
|  |   |  |   | 668   | 70   | NR   | Manchester, Gt. Britain   |
| 375  | 50  | • • • •  | Sverdlovak, U.S.S.R.  |   |  |  | Manchester, Gt. Britain   |
|  |   |  | Sverdlovak, U.S.S.R.<br>Banska Bystrica, Czecho-  | 668   | 70   | NR   | Manchester, Gt. Britain<br>Buenos Aires, Argentina  |
| 375<br>392   | 50<br>30  |  | Sverdlovak, U.S.S.R.<br>Banska Bystrica, Czecho-<br>slovakia  | 668<br>670<br>670   | 70<br>7<br>2   | NR<br>LS4<br>PRC5  | Manchester, Gt. Britain<br>Buenos Aires, Argentina<br>Belem, Brazil   |
| 375<br>392<br><b>4</b> 01  | 50<br>30<br>1 1/4   |  | Sverdlovak, U.S.S.R.<br>Banska Bystrica, Czecho-<br>slovakia<br>Geneva, Switzerland   | 668<br>670<br>670<br>670  | 70<br>7<br>2<br>7.5  | NR<br>LS4<br>PRC5<br>2CO   | Manchester, Gt. Britain<br>Buenos Aires, Argentina<br>Belem, Brazil<br>Corowa, Australia  |
| 375<br>392<br>401<br>413   | 50<br>30<br>1 1/4<br>10   |  | Sverdlovak, U.S.S.R.<br>Banska Bystrica, Czecho-<br>slovakia<br>Geneva, Switzerland<br>Voronezh, U.S.S.R.   | 668<br>670<br>670<br>670<br>674   | 70<br>7<br>2<br>7.5<br>3   | NR<br>LS4<br>PRC5<br>2CO<br>MTFY   | Manchester, Gt. Britain<br>Buenos Aires, Argentina<br>Belem, Brazil<br>Corowa, Australia<br>Harbin, Manchukuo   |
| 375<br>392<br>401<br>413<br>510  | 50<br>30<br>1 1/4<br>10<br>50   |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland   | 668<br>670<br>670<br>670<br>674<br>677  | 70<br>7<br>2<br>7.5<br>3<br>100  | NR<br>LS4<br>PRC5<br>2CO<br>MTFY   | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland  |
| 375<br>392<br>401<br>413<br>510<br>510   | 50<br>30<br>1 1/4<br>10<br>50   |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany  | 668<br>670<br>670<br>670<br>674<br>677<br>680   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1   | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br>   | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile  |
| 375<br>392<br>401<br>413<br>510  | 50<br>30<br>1 1/4<br>10<br>50   |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland   | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680  | 70<br>7<br>2<br>7.5<br>3<br>100<br>1   | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2   | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil   |
| 375<br>392<br>401<br>413<br>510<br>510<br>527  | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3   |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viburi, Finland  | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680  | 70<br>7<br>2<br>7.5<br>3<br>100<br>1   | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br>   | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile  |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>527   | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10   |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viburi, Finland  | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680  | 70<br>7<br>2<br>7.5<br>3<br>100<br>1   | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand   |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>527<br>530  | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10   |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Pinland Bolzano, Italy  | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680  | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5  | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia  |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>527<br>530<br>536   | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>50   |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland  | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>686<br>690   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>20<br>10  | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1   | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan   |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>527<br>530<br>536<br>546  | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>50<br>120  |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Pinland Bolzano, Italy Wilno, Poland Budapest, Hungary  | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>686<br>690   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5  | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia  |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>527<br>530<br>536<br>546<br>550   | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>50<br>120<br>100   |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland   | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>686<br>690<br>690  | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120   | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France  |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>527<br>530<br>536<br>546<br>550<br>550  | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>50<br>120<br>100   |  | Svetdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia  | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680<br>686<br>690<br>690<br>695<br>700   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>20<br>10<br>3.5<br>120<br>5   | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF<br>  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon  |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>527<br>530<br>536<br>546<br>550   | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>50<br>120<br>100   | ······································                                   | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland   | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>686<br>690<br>695<br>700<br>790  | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7  | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF<br><br>VPB<br>2NR  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia   |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>527<br>530<br>536<br>546<br>550<br>550  | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>50<br>120<br>100   |  | Svetdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia  | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>686<br>690<br>695<br>700<br>700   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7   | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF<br><br>VPB<br>2NR  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden   |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>530<br>536<br>546<br>550<br>560<br>560  | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>50<br>120<br>100<br>10<br>10   | <br><br><br><br><br>2CR<br>MTCY1<br>XGOG                                 | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengku, China  | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>686<br>690<br>695<br>700<br>790  | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7  | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF<br><br>VPB<br>2NR  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden   |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>530<br>536<br>546<br>550<br>560<br>560  | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>10<br>100<br>10<br>10<br>10  | ······································                                   | Svetdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengeu, China Grahamstown, U. S. Africa  | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>686<br>690<br>695<br>700<br>700   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7   | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF<br><br>VPB<br>2NR  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea  |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>527<br>530<br>536<br>546<br>550<br>560<br>560<br>560  | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia   | 668<br>670<br>670<br>670<br>674<br>677<br>680<br>680<br>686<br>690<br>695<br>700<br>700<br>710<br>710   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7<br>7<br>55<br>10<br>5   | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF VPB 2NR JODK2 LS1   | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina  |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>536<br>546<br>550<br>560<br>560<br>560<br>565   | 50<br>30<br>1 1/4<br>10<br>50<br>1<br>10<br>50<br>120<br>100<br>10<br>10<br>10<br>10<br>10<br>10  | <br><br><br><br>2CR<br>MTCY1<br>XGOG<br>ZUG<br>6WA                       | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State   | 668<br>670<br>670<br>670<br>674<br>680<br>680<br>686<br>690<br>695<br>700<br>700<br>710<br>710<br>710   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7   | NR<br>LS4<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF<br><br>VPB<br>2NR<br><br>JODK2<br>LS1<br>7NT                  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia   |
| 375<br>392<br>401<br>413<br>510<br>527<br>527<br>530<br>546<br>550<br>560<br>560<br>560<br>565<br>565  | 50<br>30<br>1 1/4<br>100<br>50<br>1 1<br>6.3<br>10<br>100<br>100<br>100<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                       | 2CR MTCY1 XGOG ZUG 6WA   | Svetdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Gumnock, Australia Shinkyo, Manuchkuo Chengłu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania  | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>686<br>690<br>690<br>700<br>700<br>710<br>710<br>710   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7<br>55<br>100<br>5<br>7  | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF VPB 2NR JODK2 LS1   | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China   |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>536<br>546<br>550<br>560<br>560<br>560<br>560<br>565<br>565   | 50<br>30<br>1 1/4<br>100<br>50<br>10<br>50<br>120<br>100<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1               | 2CR<br>MTCY1<br>XGOG<br>ZUG<br>6WA                                       | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy   | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>686<br>690<br>695<br>700<br>710<br>710<br>710<br>713   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7<br>55<br>10<br>5<br>7   | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF JODK2 LS1 7NT XGOS  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy   |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>530<br>536<br>546<br>550<br>560<br>560<br>560<br>565<br>565<br>565<br>570   | 50<br>30<br>11/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>100<br>100<br>10<br>10<br>10<br>10<br>10<br>10<br>3<br>5                              |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengeu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy Santiago, Chile   | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>686<br>690<br>695<br>700<br>700<br>710<br>710<br>710<br>711<br>713   | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7<br>7<br>55<br>10<br>5<br>7  | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF<br><br>VPB<br>2NR<br>JODK2<br>LS1<br>7NT<br>XGOS                     | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa   |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>536<br>546<br>550<br>560<br>560<br>560<br>560<br>565<br>565   | 50<br>30<br>1 1/4<br>100<br>50<br>10<br>50<br>120<br>100<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1               | 2CR<br>MTCY1<br>XGOG<br>ZUG<br>6WA                                       | Svetdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Gumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy Santiago, Chilc Wellington, New Zealand   | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>690<br>695<br>700<br>710<br>710<br>710<br>713<br>720  | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>200<br>0<br>10<br>3.5<br>120<br>5<br>7<br>7<br>1<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>1   | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF YPB 2NR JODK2 LS1 7NT XGOS JFBK PRA8  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa Pernambuco, Brazil  |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>530<br>536<br>546<br>550<br>560<br>560<br>560<br>565<br>565<br>565<br>570   | 50<br>30<br>11/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>100<br>100<br>10<br>10<br>10<br>10<br>10<br>10<br>3<br>5                              |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy   | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>690<br>690<br>700<br>710<br>710<br>710<br>710<br>713<br>720<br>720                                    | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7<br>7<br>55<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120  | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF VPB 2NR JODK2 LS1 7NT XGOS JFBK PRA8  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa Pernambuco, Brazil Christchurch, New Zealand  |
| 375<br>392<br>401<br>413<br>510<br>527<br>527<br>536<br>546<br>550<br>560<br>560<br>565<br>565<br>565<br>570<br>570  | 50<br>30<br>11/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                        |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy Santiago, Chile Wellington, New Zealand Stuttgart, Germany  | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>690<br>690<br>700<br>710<br>710<br>710<br>710<br>710<br>720<br>720                                    | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>200<br>0<br>10<br>3.5<br>120<br>5<br>7<br>7<br>1<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>1   | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF YPB 2NR JODK2 LS1 7NT XGOS JFBK PRA8  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harhin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa Pernambuco, Brazil  |
| 375<br>392<br>401<br>413<br>510<br>527<br>527<br>536<br>550<br>560<br>560<br>560<br>565<br>565<br>570<br>570<br>570<br>580   | 50<br>30<br>11/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                        | <br><br><br><br>2CR<br>MTCY1<br>XGOG<br>ZUG<br>6WA<br><br><br><br>22YA   | Svetdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengeu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy Santiago, Chile Wellington, New Zealand Stuttgart, Germany Taichu, Formosa  | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>690<br>690<br>700<br>710<br>710<br>710<br>710<br>713<br>720<br>720                                    | 70<br>7<br>2<br>7.5<br>3<br>100<br>1<br>5<br>5<br>20<br>10<br>3.5<br>120<br>5<br>7<br>7<br>55<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120  | NR<br>LS4<br>PRC5<br>2CO<br>MTFY<br><br>CB68<br>PRC2<br>4YZ<br><br>JOBK1<br>6WF<br><br>JODK2<br>LS1<br>7NT<br>XGOS<br><br>JFBK<br>PRA8<br>3YA<br>6GF | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa Pernambuco, Brazil Christchurch, New Zealand Kalgoorlie, Australia  |
| 375<br>392<br>401<br>413<br>510<br>527<br>536<br>546<br>550<br>560<br>560<br>565<br>565<br>565<br>565<br>565<br>565<br>56  | 50<br>30<br>114<br>10<br>50<br>1<br>6.3<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                         |  | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Gumnock, Australia Shinkyo, Manuchkuo Chengku, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy Santiago, Chilc Wellington, New Zealand Stuttgart, Germany Taichu, Formosa Horshm, Australia  | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>690<br>790<br>710<br>710<br>710<br>713<br>720<br>720<br>720   | 70<br>7<br>2<br>7.5<br>3<br>1000<br>1<br>5<br>5<br>200<br>3.5<br>5<br>7<br>7<br>5<br>5<br>7<br>7<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120   | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF YPB 2NR JODK2 LS1 7NT XGOS JFBK PRA8 3YA 6GF  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa Pernambuco, Brazil Christchurch, New Zealand Kalgoorlie, Australia Frederikstad, Norway   |
| 375<br>392<br>401<br>413<br>510<br>527<br>530<br>546<br>550<br>560<br>560<br>560<br>565<br>565<br>565<br>570<br>570<br>580<br>580                                    | 50<br>30<br>114<br>10<br>50<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                                     | 2CR<br>MTCY1<br>XGOG<br>ZUG<br>6WA<br><br>CB57<br>2YA<br><br>JFCK<br>3WV | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy Santiago, Chile Wellington, New Zealand Stuttgart, Germany Taichu, Formosa Horshm, Australia Alpes-Grenobles, France  | 668<br>670<br>670<br>674<br>677<br>680<br>680<br>680<br>686<br>690<br>695<br>700<br>710<br>710<br>710<br>710<br>720<br>720<br>722<br>722                      | 70<br>7<br>2<br>7.5<br>3<br>1000<br>1<br>5<br>5<br>200<br>100<br>3.5<br>5<br>7<br>7<br>55<br>120<br>5<br>7<br>7<br>1<br>1<br>2<br>5<br>1<br>2<br>0<br>1<br>1<br>2<br>1<br>1<br>2<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ VPB 2NR JODK1 5NT XGOS JFBK PRA8 3YA 6GF  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa Pernambuco, Brazil Christchurch, New Zealand Kalgoorlie, Australia Frederikstad, Norway Lopikerkapel, Netherlands                                   |
| 375<br>392<br>401<br>413<br>510<br>527<br>527<br>530<br>536<br>550<br>560<br>560<br>565<br>570<br>570<br>580<br>580<br>583<br>583                                    | 50<br>30<br>1½<br>10<br>50<br>1<br>6.3<br>10<br>10<br>50<br>120<br>100<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 | 2CR MTCY1 XGOG ZUG 6WA   | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy Santiago, Chile Wellington, New Zealand Stuttgart, Germany Taichu, Formosa Horshm, Australia Alpes-Grenobles, France Madona, Latvia                         | 668<br>670<br>670<br>674<br>680<br>680<br>680<br>686<br>690<br>695<br>700<br>710<br>710<br>710<br>720<br>720<br>722<br>722<br>722                             | 70<br>7<br>7<br>2<br>7.5<br>3<br>1000<br>1<br>5<br>5<br>200<br>0<br>3.5<br>120<br>5<br>7<br>7<br>1<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>1   | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF 1ODK2 LS1 7NT XGOS JFBK PRA8 3YA 6GF  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa Pernambuco, Brazil Christchurch, New Zealand Kalgoorlie, Australia Frederikstad, Norway Lopikerkapel, Netherlands Kharkov, U.S.S.R.                 |
| 375<br>392<br>401<br>413<br>510<br>510<br>527<br>530<br>550<br>550<br>560<br>560<br>565<br>565<br>565<br>565<br>565<br>570<br>570<br>580<br>580<br>583<br>583<br>583 | 50<br>30<br>11/4<br>10<br>50<br>1<br>6.3<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                        | 2CR MTCY1 XGOG ZUG 6WA JFCK 3WV LS10                                     | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy Santiago, Chile Wellington, New Zealand Stuttgart, Germany Taichu, Formosa Horshm, Australia Alpes-Grenobles, France Madona, Latvia Buenos Aires, Argentina | 668<br>670<br>670<br>670<br>677<br>680<br>680<br>680<br>690<br>695<br>700<br>710<br>710<br>710<br>710<br>710<br>720<br>720<br>720<br>720<br>722<br>722<br>722 | 70<br>7<br>7<br>2<br>7.5<br>3<br>1000<br>1<br>5<br>5<br>5<br>200<br>10<br>3.5<br>5<br>7<br>7<br>7<br>5<br>5<br>5<br>1200<br>1<br>1<br>1<br>2<br>5<br>7<br>7<br>7<br>1<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1<br>2<br>1<br>1<br>1<br>1  | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF JODK2 LS1 7NT XGOS JFBK PRA8 3YA 6GF CB73   | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa Pernambuco, Brazil Christchurch, New Zealand Kalgoorlie, Australia Frederikstad, Norway Lopikerkapel, Netherlands Kharkov, U.S.S.R. Santiago, Chile |
| 375<br>392<br>401<br>413<br>510<br>527<br>527<br>530<br>536<br>550<br>560<br>560<br>565<br>570<br>570<br>580<br>580<br>583<br>583                                    | 50<br>30<br>1½<br>10<br>50<br>1<br>6.3<br>10<br>10<br>50<br>120<br>100<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 | 2CR MTCY1 XGOG ZUG 6WA   | Sverdlovak, U.S.S.R. Banska Bystrica, Czecho- slovakia Geneva, Switzerland Voronezh, U.S.S.R. Baranowicze, Poland Innsbruck, Germany Ljubljana, Jugoslavia Viipuri, Finland Bolzano, Italy Wilno, Poland Budapest, Hungary Beromunster, Switzerland Cumnock, Australia Shinkyo, Manuchkuo Chengbu, China Grahamstown, U. S. Africa Minding, Australia Athlone, Irish Free State Memel, Lithuania Palermo, Italy Santiago, Chile Wellington, New Zealand Stuttgart, Germany Taichu, Formosa Horshm, Australia Alpes-Grenobles, France Madona, Latvia                         | 668<br>670<br>670<br>674<br>680<br>680<br>680<br>686<br>690<br>695<br>700<br>710<br>710<br>710<br>720<br>720<br>722<br>722<br>722                             | 70<br>7<br>7<br>2<br>7.5<br>3<br>1000<br>1<br>5<br>5<br>200<br>0<br>3.5<br>120<br>5<br>7<br>7<br>1<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>1   | NR LS4 PRC5 2CO MTFY CB68 PRC2 4YZ JOBK1 6WF 1ODK2 LS1 7NT XGOS JFBK PRA8 3YA 6GF  | Manchester, Gt. Britain Buenos Aires, Argentina Belem, Brazil Corowa, Australia Harbin, Manchukuo Sottens, Switzerland Valparaiso, Chile Porto Alegre, Brazil Invercargill, New Zealand Belgrade, Jugoslavia Osaka, Japan Perth, Australia Paris, France Colombo, Ceylon Grafton, Australia Stockholm, Sweden Keijo, Korea Buenos Aires, Argentina Kelso, Australia Chunking, China Rome, Italy Taiwan, Formosa Pernambuco, Brazil Christchurch, New Zealand Kalgoorlie, Australia Frederikstad, Norway Lopikerkapel, Netherlands Kharkov, U.S.S.R.                 |

| 730        | 5.5       | EAJ5         | Seville, Spain  | 855           | 3         | VUB           | Bombay, India   |
|------------|-----------|--------------|---|---------------|-----------|---------------|---|
| 730        | 10        | JOCK1        | Nagoya, Japan   | 859           | 100       |               | Strasbourg, France  |
| 730<br>730 | 1<br>4    | LV1<br>5CL   | San Juan, Argentina<br>Adelaide, Australia                    | 860           | 2.5       | PRA3          | Rio de Janeiro, Brazil  |
| 730        | 20        | JCL          | Tallin, Estonia   | 868<br>870    | 50<br>150 | JOAK2         | Poznan, Poland  |
| 740        | 1         | JOSK         | Kokura, Japan   | 870           | 26        | LR6           | Tokyo, Japan<br>Buenos Aires, Argentina                                 |
| 740        | 10        | PRA4         | San Salvador, Brazil  | 870           | 1         | 2GB           | Sydney, Australia   |
| 740        | 3         | 2BL          | Sydney, Australia   | , 877         | 70        |               | London, Gt. Britain   |
| 740        | 100       |              | Munich, Germany   | 880           | 22        | PR13          | Bello Horizonte, Brazil   |
| 740        | 1         |              | Pori, Finland   | 880           | 15        |               | Linz, Germany   |
| 749        | 120       | :::::n.      | Marseille, France   | 882           | 20        | VUD           | New Delhi, India  |
| 750        | 15        | HS7PJ        | Marseille, France<br>Bangkok, Siam<br>Taihoku. Formosa        | 886           | 15        |               | Graz, Germany   |
| 750<br>750 | 10<br>2.5 | JFAK<br>KGU  | Lianoku, rormosa  | 890           | 1         | CBRO          | Santiago. Chile   |
| 750        | 10        | LRA          | Honolulu, Hawaii<br>Buenos Aires, Argentina                   | 890<br>890    | 1.5       | CX 18<br>MTBY | Montevideo, Uruguay   |
| 750        | 1         | XGOK         | Canton China  | 890           | 1<br>1.5  | ZP9           | Hoten, Manchukuo  |
| 750        | 1.5       | ZTD          | Canton, China<br>Durban, U.S. Africa                          | 890           | 10        |               | Asuncion, Paraguay<br>Helsinki Finland                                  |
| 750        | 12        |              | Katowice, Poland  | 895           | 1.5       |               | Helsinki, Finland<br>Limoges, Frances                                   |
| 750        | 10        |              | Maritzburg, U.S. Africa                                       | 900           | 1         | CB90          | Valparaiso, Chile   |
| 760        | 10        | <b>CB</b> 76 | Maritzburg, U.S. Africa<br>Valparaaiso, Chile                 | 900           | .1        | KZIB          | Valparaiso, Chile<br>Manila, P. I.                                      |
| 760        | 1         | JQAK1        | Diren, Manchukuo  | 900           | 2         | LU2           | Bahia Blanca, Arg.  |
| 760        | 10        | PRA6         | Sao Paulo, Brazil<br>Shanghai, China<br>Burghead, Gt. Britain | 900           | 5         | PRB7          | Rio de Janeiro, Brazil  |
| 760        | 1         | XMHD         | Shanghai, China   | 910           | 12        | LR2           | Buenos Aires, Arg.  |
| 767        | 60        | • • • •      | Burghead, Gt. Britain   | 910           | 2         | 4RK           | Rockhampton, Australia  |
| 767<br>770 | 70<br>1   | CX12         | Falkirk, Gt. Britain<br>Montevideo, Uruguay                   | 913<br>920    | 60<br>1   |               | Toulouse, France  |
| 770        | 10        | JOHK         | Sendai, Japan   | 920           | 32        | S             | hanghai, China<br>Brno, Czechoslovakia                                  |
| 770        | 3.5       | 3LO          | Melbourne, Australia  | 930           | 2.5       | CB93          | Santiago, Chile   |
| 770        | 10        |              | Melbourne, Australia<br>Stalino, U.S.S.R.                     | 930           | í         | CX20          | Montevideo, Uruguay   |
| 776        | 120       | • • • •      | Toulouse, France  | 932           | 15        |               | Brussels, Belgium   |
| 780        | 1         |              | Toulouse, France<br>Santiago, Chile<br>Manila, Philippines    | 940           | 10        | JOBK2         |   |
| 780        | 1         | KZEG         | Manila, Philippines   | 940           | 10        | PRF4          | Osaka, Japan<br>Rio de Janeiro, Brazil                                  |
| 780        | 5         | LT1          | Rosario, Argentina  | 940           | 10        | SBB           | Goteborg, Sweden  |
| 780        | 120       | : : : :      | Leipzig, Germany  | 940           | 1         | XHHE          | Shanghai, China   |
| 780        |           | 2KA          | Katoomba, Australia<br>Barcelona, Spain                       | 940           | 12        |               | Goteborg, Sweden<br>Shanghai, China<br>Algiers, Algeria                 |
| 790        | 7.5       | EAJ1         | Vumamoto Japan  | 950           | 31        | LR3           | Duenos Aires, Argentina   |
| 790<br>790 | 10<br>11  | JOGK<br>LR10 | Kumamoto, Japan<br>Buenos Aires, Argentina                    | 950           | 1         | 2UE           | Sydney, Australia<br>Breslau, Germany                                   |
| 790        | 10        | XGOV         | Changsha China  | 950           | 100       |               | Breslau, Germany  |
| 790        | 10        | 4YA          | Changsha, China<br>Dunedin, New Zealand                       | 959           | 60        |               | Paris, France   |
| 795        | 50        |              | Lwow, Poland  | 960           | 2         | LV2           | Cordoba, Arg.   |
| 800        | 1.5       | PRA3         | Rio de Janeiro, Brazil  | 960<br>960    | 10        | PRF3<br>RW13  | Sao Paulo, Brazil<br>Odessa, U.S.S.R.                                   |
| 800        | 2.5       | 4QG          | Brisbane, Australia   | 960           | 10        | 1 XHHF        | Shanghai, China   |
| 804        | 70        |              | Cardin, Gt. Britain   | 960           | 5         | YV5RA         | Caracas, Venezuela  |
| 804        | .5        | TOTE         | Penmon, Gt. Britain   | 968           | 30        |               | Bordeaux, France  |
| 810        | 10        | JOIK<br>VUC  | Sapporo, Japan  | 970           | 1         | CB97          | Santiago, Chile   |
| 810<br>810 | 3<br>1    | CX14         | Calcutta, India<br>Montevideo, Uruguay                        | 970           | 50        | JODK1         | Santiago, Chile<br>Keijo, Korea   |
| 814        | 50        |              | Milan, Italy  | 974           | 1         | HCJB          | Ouito, Ecuador  |
| 820        | 1         | CB82         | Santiago, Chile   | 977           | 100       |               | Belfast, Gt. Britain<br>Rio de Janeiro, Brazil<br>San Cristobal, Venez. |
| 820        | ĩ         | LV7          | Tucuman, Argentina  | 980           | 20        | PRE8          | Rio de Janeiro, Brazil  |
| 820        | 12        |              | Tucuman, Argentina<br>Bucharest, Roumania                     | 980<br>980    | 1<br>2    | YV1RB<br>6AM  | Nantham Australia   |
| 823        | 10        |              | Bodo, Norway  | 980           | 24        | OAM           | Northam, Australia<br>Torun, Poland                                     |
| 830        | 10        | JOFK         | Hiroshima, Japan  | 986           | 50        |               | Bologna, Italy  |
| 830        | 20        | LR5          | Buenos Aires, Argentina                                       |               | 10        |               |   |
| 830        | . 7       | 3GI          | Longford, Australia   | 990<br>990    | 16        | JOCK2<br>LR4  | Nagoya, Japan<br>Buenos Aires, Arg.                                     |
| 832        | 1.5       | • • • •      | Agen, France<br>Kiev, U.S.S.R.                                | 990           | 2         | XGOD          | Hangchow, China   |
| 832        | 35<br>10  | • • • •      | Stavanger, Norway   | 990           | 2         | 2GZ           | Orange, Australia   |
| 832<br>840 | 1         | • • • •      | Valparaiso, Chile   | 995           | 60        |               | Hilversum, Netherlands  |
| 840        | 5         | PRH9         | Sao Paulo, Brazil   | 1000          | 2         | HI3ABH        | Bogota, Colombia  |
| 840        | ś         | 2YC          | Wellington, New Zealand                                       | 1000          | 10        | PRB9          | Sao Paulo, Brazil   |
| 841        | 100       |              | Berlin, Germany   | 1000          | 14        |               | Bratislava, Czechoslovakia  |
| 845        | 2         | ZBW          | Hong Kong   | 1010          | 1         | CB101         | Santiago, Chile   |
| 850        | 2         | CX16         | Montevideo, Uruguay   | 1010          | 1         | CX24          | Montevideo, Uruguay   |
| 850        | 3         | EAJ3         | Valencia, Spain<br>Seishin, Korea                             | 1010          | 5         | XGOW          | Hangkow, China  |
| 850        | 10        | JBCK         | Seishin, Korea  | 1013          | 4         | ••••          | Chernigov, U.S.S.R. Daventry, Gt. Britain Barcelona, Spain              |
| 850        | 10        | OAX4A        | Lima, Peru  | 1913          | 70        | EAJ15         | Daventry, Gt. Britain   |
| 850        | 1         | 5RM          | Renmark, Australia  | 1020          | 3         | EAJ15         | Darceiona, Spain  |
| 850        | 10.       | • • • •      | Porsgrund, Norway<br>Simferopol, U.S.S.R.                     | 1020          | 1<br>2    | 2KY           | Cracow Polece   |
| 850        | 10<br>100 | • • • •      | Sofia Bulgaria  | 1020<br>1030  | 5         | CTIGL         | Sydney, Australia<br>Cracow, Poland<br>Parede, Portugal                 |
| 850<br>855 | 2.5       | HSP1         | Sofia, Bulgaria<br>Bangkok, Siam                              | 1 <b>0</b> 30 | 5         | LR9           | Buenos Aires, Arg.  |
| ررو        | 2.,       | 1011         | zan-baon, oram  | 1000          | ,         |               |   |

| 1030          | 1    | XGOL    | Foochow, China   | 1213                 | 60                |           | Lille, France<br>Rio de Janeiro, Brazil  |
|---------------|------|---------|--|----------------------|-------------------|-----------|--|
| 1031          | 100  |         | Konigsberg, Germany  | 1220                 |                   | RA9       | Rio de Janciro, Brazil   |
| 1040          | 10   | CP4     | La Paz, Bolivia  | 1220                 | 2 4.              | AK        | Oakey, Australia   |
| 1040          | 10   | PRG2    | Sao Paulo, Brazil  | 1220                 | 1 4               | ZB        | Dunedin, New Zealand   |
| 1040          | 2    | 5PI     | Crystal Brook, Australia   | 1222                 | 60 .              |           | Rome, Italy  |
| 1040          | 10   |         | Crystal Brook, Australia<br>Leningrad, U.S.S.R.  | 1230                 |                   | <br>.S8   | Rome, Italy<br>Buenos Aires, Arg.  |
| 1040          | 120  | CX26    |  | 1230                 |                   | NC        | Newcastle, Australia<br>Gleiwitz, Germany<br>Gorlitz, Germany<br>Cork, I.F.S.<br>Bahia Blanca, Arg.  |
| 1050          | 1.5  | CX26    | Montevideo, Uruguay<br>Canberra, Australia<br>Falkirk, Gt. Britain                             | 1230                 | 5.                | • • •     | Gleiwitz, Germany  |
| 1050          | 2    | 2CA     | Canberra, Australia  | 1231                 |                   |           | Gorlitz, Germany   |
| 1050          | 50   |         | Falkirk, Gt. Britain   | 1235                 | 1 6               | CK        | Cork, I.F.S.   |
| 1059          | 20   |         | Dari, Italy  | 1240                 |                   | .U7       | Bahia Blanca, Arg.   |
| 1060          | 5    | CB106   | Santiago, Chile<br>Rio de Janeiro. Brazil  | 1240                 |                   | TR        | Sale, Australia  |
| 1060          | 5    | PRD2    | Rio de Janeiro, Brazil   | 1240                 |                   |           | Saarbrucken, Germany   |
| 1060          | 2    | 4SB     | Brisbane, Australia  | 1250                 | 1 0               | B125      | Santiago. Chile  |
| 1065          | 1    | JQAK2   | Brisbane, Australia<br>Dairen, Manchukuo<br>Paris, France                                      | 1250                 |                   | X36       |  |
| 1068          | 2    |         | Paris France   |                      | _                 |           | Bilbao Spain   |
| 1068          | 10   |         | Tiraspol. ILS S R  | 1258                 |                   |           | Riga Latvia  |
| 1070          | 50   | LR1     | Paris, France Tiraspol, U.S.S.R. Buenos Aires, Argentina Katanning, Australia Bordonty, France | 1258                 |                   |           | Montevideo, Uruguay<br>Bilbao, Spain<br>Riga, Latvia<br>Rome, Italy<br>Salamanca, Spain<br>Sao Paulo, Brazil<br>Shepparton, Australia<br>Nurnberg, Germany<br>Buenos Aires, Arg. |
| 1070          | 2    | 6WB     | Katanning Australia  | 1258                 |                   |           | Salamanca Spain  |
| 1077          | 13   |         | Katanning, Australia<br>Bordeaux, France   | 1260                 |                   | RA5       | Sao Paulo Brazil   |
| 1080          | 4.5  | LT3     | Rosario Arg  | 1260                 |                   | SR        | Shepparton, Australia  |
| 1080          | 2.5  | SCC     | Rosario, Arg.<br>Falun, Sweden   | 1260                 |                   |           | Numbers Germany  |
| 1080          | 10   |         | Joao Pessoa, Brazil  |                      | ć i               | <br>.S9   | Buenos Aires Ara   |
| 1090          | 1.05 | CX28    | Montevideo, Uruguay  | 1270                 |                   | SM        | Buenos Aires, Arg.<br>Sydney, Australia  |
| 1090          | 2    | 3LK     | Tubode Australia   | 1270<br>1270<br>1276 |                   |           | Ivan les Pins France   |
|               |      |         | Lubeck, Australia<br>Vinnitsa, U.S.S.R.  | 12/0                 | 27 .<br>2 .       | • • •     | Verse Bulgaria   |
| 1095          | 10   | PRG9    | Vinnitsa, U.S.S.K.   | 1276                 |                   |           | Juan-les-Pins, France<br>Varna, Bulgaria<br>Rio de Janeiro, Brazil   |
| 1100          | 50   |         | Sao Paulo, Brazil  | 1280                 |                   | RG3       | Rio de Janeiro, Diazir   |
| 1104          | 25   | • • • • | Kuldiga, Latvia<br>Naples, Italy   | 1285                 |                   |           | Redmoss, Gt. Britain   |
| 1104          | 10   |         | Naples, Italy  | 1294                 | 5.                | • • •     | Klagenfurt, Germany  |
| 1110          | 1    | CB111   | Vina del Mar, Chile  | 1294                 |                   |           | Vorarlberg, Germany<br>Santiago, Chile<br>La Paz, Bolivia  |
| 1110          | 5    | LS5     | Buenos Aires, Arg.   | 1300                 | 1 C               | B130      | Santiago, Chile  |
| 1113          |      | LV5     | Melnik, Czechoslovakia   | 1300                 |                   | PX        | La Paz, Bolivia  |
| 1120          | 5    |         | San Juan, Arg.   | 1300                 |                   | RH6       | Bello Horizonte, Brazil  |
| 1120          | 5    | PRH8    | Rio de Janeiro, Brazil   | 1300                 |                   | KQHC      | Shanghai, China  |
| 1120          | 1    | YV1RF   | Maracaibo, Venezuela   | 1300                 |                   | TM        | Tamworth, Australia  |
| 1120          | 1    | 4BC     | Brisbane, Australia  | 1310                 |                   | .S11      | La Plata, Arg.   |
| 1122          | 6    |         | Nyreghyhaza, Hungary   | 1312                 |                   |           | Tamworth, Australia<br>La Plata, Arg.<br>Malmo, Sweden   |
| 1122          | 60   |         | Stagshaw, Gt. Britain  | 1320                 |                   | B132      | Valparaiso, Chile<br>Magyarovar, Hungary   |
| 1130          | 1    | CX30    | M  | 1320<br>1320<br>1320 |                   | IAE2      | Magyarovar, Hungary  |
| 1130          | ī    | ZP1     | Asuncion, Paraguay Wellington, New Zealand Horby, Sweden                                       | 1320                 |                   | GMB       | Honolulu, Hawaii<br>Nichtheroy, Brazil<br>Fortaleza, Brazil  |
| 1130          | ī    | 2ZB     | Wellington New Zealand   | 1320                 |                   | RD8       | Nichtheroy, Brazil   |
| 1131          |      | SBH     | Horby, Sweden  | 1320                 |                   | RE9       | Fortaleza, Brazil  |
|               |      |         |  | 1320                 | 2 P               | RH4       | Sao Paulo, Brazil  |
| 1140          | 5    | CB114   | Santiago, Chile<br>Genoa, Italy  | 1330                 | 2 P<br>2 .<br>2 . |           | Bremen, Germany<br>Hanover, Germany  |
| 1140          | 10   | • • • • | Genoa, Italy   | 1330                 | 2.                |           | Hanover, Germany   |
| 1140          | 10   |         | Trieste, Italy   | 1330                 |                   |           | Kiel, Germany  |
| 1140          | 7    |         | Turin, Italy   | 1330                 |                   |           | Stettin, Germany<br>Lodz, Poland   |
| 1149          | 50   |         | Cardiff, Gr. Britain<br>London, Gt. Britain  | .1339                |                   |           | Lodz, Poland   |
| 1149          | 20   |         | London, Gt. Britain  | 1339                 |                   |           | Montpellier, France  |
| 1149          | 20   | · · · · | Manchester, Gt. Britain  | 1340                 |                   | CB134     | Santiago, Chile  |
| 1150          | 7    | LR8     | Buenos Aires, Arg.   | 1340                 |                   | RE4       | Sao Paulo, Brazil  |
| 1150          | 1    | xgoz    | Chinkiang, China   | 1348                 |                   |           | Konigsberg, Germany  |
| 1150          | 2    | 2WG     | Wagga, Australia<br>Kosice, Poland   | 1348                 | _                 |           | Salzburg, Germany  |
| 1158          | 10   |         | Kosice, Poland   | 1350                 |                   | .S6       | Buenos Aires, Argentina  |
| 1160          | 1    | CB116   | Valparaiso, Chile<br>Sao Paulo, Brazil   | 1350                 |                   | KĞOE      | Nanning, China   |
| 1160          | 5    | PRH3    | Sao Paulo, Brazil  | 1357                 |                   |           | Bari, Italy  |
| 1167          | 15   |         | Monte Ceneri, Switzerland  | 1357                 | ξ.                | • • •     |  |
| 1170          | 2    | 2NZ     | Inverell, Australia  | 1257                 |                   | • • •     | Genoa, Italy   |
| 1176          | 10   |         | Copenhagen, Denmark  | 1357                 | _                 | • • •     | Milan, Italy<br>Rome, Italy  |
| 1180          | 5    | CB118   | Santiago, Chile  | 1357                 |                   | DD Co     |  |
| 1185          | 60   |         | Nice-Corse, France   | 1360                 | 5 P               | PRC8      | Rio de Janeiro, Brazil   |
|               |      | LS2     |  | 1360                 | 5 .               | <br>TD120 | Warsaw, Poland   |
| 1190          | 30   |         | Buenos Aires, Arg.   | 1380                 | 5 C               | CB138     | Santiago, Chile  |
| 1190          | 1    | 2CH     | Sydney, Australia  | 1380                 |                   | BH        | Santiago, Chile<br>Brisbane, Australia<br>Warsaw, Poland   |
| 1190          | 2    | • • • • | Coblenz, Germany   | 1384                 | 7 .               |           | warsaw, Poland   |
| 1190          | 2    | • • • • | Trier, Germany   | 1390                 | 1 C               | B139      | Valparaiso, Chile  |
| 1195          | 25   | • • • • | Frankfurt-am-Main,   | 1393                 | 25                |           | Lyons, France<br>Rio de Janeiro, Brazil  |
|               | _    |         | Germany  | 1400                 | 5 P               | RD5       | Kio de Janeiro, Brazil   |
| 11 <b>9</b> 5 | 5    |         | Freiburg-im-Breisgau,  | 1402                 | 2 .               |           | Stara-Zagora, Bulgaria   |
|               |      | on.     | Germany  | 1410                 | 1 C               | W37       | Colonia, Uruguay   |
| 1200          | 1    | CB120   | Valparaiso, Chile  | 1410                 | 5 P               | RE7       | Sao Paulo, Brazil  |
| 1200          | 1    | HJ3ABE  | Bogota, Colombia   | 1411                 |                   |           | Fecamp, France<br>Curityba, Brazil   |
| 1200          | 1    | PRB6    | Sao Paulo, Brazil  | 1420                 |                   | RB2       | Curityba, Brazil   |
| <b>120</b> 4  | 5    | • • • • | Moravska-Ostrava, Czecho   | 1420                 | 2 .               | •••       | Kaiserlautern, Germany   |

| 1430 | 5   | PRE2  | Rio de Janeiro, Brazil    |
|------|-----|-------|---------------------------|
| 1430 | 1   | 3ZB   | Christchurch, New Zealand |
| 1438 | 1.2 |       | ·Miskolc, Hungary         |
| 1440 | 10  | LS7   | Buenos Aires, Arg.        |
| 1440 | 3   | PRF9  | Porto Alegre, Brazil      |
| 1450 | 1   | PRB4  | Santos, Brazil            |
| 1456 | 5   |       | Paris, France             |
| 1460 | 5   |       | Dresden, Germany          |
| 1465 | 1.2 |       | Pecs, Hungary             |
| 1470 | 1   | PRE6  | Nictheroy, Brazil         |
| 1474 | 1   |       | Bournemouth, Gt. Britain  |
| 1480 | 1   | PRD3  | Petropolis, Brazil        |
| 1500 | 10  | CB150 | Santiago, Chile           |
| 1500 | 2   | VUP   | Peshawar, India           |
|      |     |       |                           |

A new Amateur Column will appear in the January issue.



## **Christmas Seals**

PROTECT YOUR HOME AND FAMILY FROM TUBERCULOSIS

BUY them from your local tuberculosis
association

USE them on your Holiday letters and packages

The National, State and Local
Tuberculosis Associations in the United States

## **QSA and R Codes**

The R code describes the volume with which a signal is heard.

R1 is a signal that is barely perceptible.

R2 is a very weak signal.

R3 is a weak signal.

R4 are signals of fair volume.

R5 are fairly good signals.

R6 are good signals.

R7 are moderately strong signals.

R8 are strong signals.

R9 are extremely strong signals.

The QSA Code is used to describe the understandability of a station's signal.

QSA1 is a signal that is unreadable.

QSA2 is one that is barely perceptible. A word can be understood now and then.

QSA3 is understandable with difficulty.

QSA4 is a signal that can be understood with practically no difficulty.

QSA5 is perfectly understandable.

Some persons describe radio signals further by employing the S and X symbols, S to indicate fading and X to indicate static, in this manner:

S is slight fading.

SS is deep fading.

SSS is a complete fadeout.

R is rapid fading (fluttering).

X is slight static.

XX is bad static. XXX is very heavy static.

The letter N indicates that either fading or static was not present.

These symbols are written like this:

(a) QSA5, R7/S/XX

(b) QSA4, R7/N/N

Example (a) means that the station had a perfectly understandable signal at moderately strong volume, with slight fading and bad static. Example (b) means the station was easily understandable at quite strong volume, no fading and no static being present.

## **Twenty Stentors**

LISTED below are the twenty shortwave stations which possessed the loudest voices in each of the Time Zones last month. Arranged accordings to the number of reports received, this chart can be used by new listeners as a guide to the stations which they are most apt to receive in their own localities. Beginners should not attempt to tune for difficult catches until they become familiar enough with their receivers to bring in these easy-to-get stations regularly.

| Best in<br>EST | Best in<br>CST | Best in MST      | Best in<br>PST | Best in<br>World * |
|----------------|----------------|------------------|----------------|--------------------|
| Tokyo<br>Rome  | London<br>ZRK  | London .<br>TGWA | ZBW3<br>OZF    | VUD<br>VUC2        |
| VK3ME          | Martinique     | HJIABP           | VUB2           | HJIABP             |
| London         | Tokyo          | HP5A             | Tokyo          | Paris              |
| CSW            | Rome           | HJIABD           | VPD2           | LRX                |
| Berlin         | VK3M <b>E</b>  | HJ3ABD           | TGQA           | Huizen             |
| Salamanca      | Berlin         | HJ3ABH           | TDB            | VUM2               |
| VLR            | SPW            | HJ4ABE           | TGWA           | COCQ               |
| VK6ME          | Huizen         | YDB              | London         | CXA8               |
| TGWA           | RKI            | TGQA             | VLR            | COBC               |
| SPW            | Praha          | TIEP             | VUD2 ·         | COCO               |
| HP5J           | HP5G           | VPD2             | VK3ME          | OFE                |
| SPD            | LRX            | TG2X             | XTJ            | RWG                |
| RKI            | Paris          | Tokyo            | ZHP            | OFD                |
| Praha          | HIN            | Praha            | FK8AA          | TAQ                |
| HP5G           | EAR            | HP5G             | HS8PJ          | VUČ                |
| HI3ABX         | HCIB           | Paris            | JDY            | VUB                |
| LRX            | XEXA           | HCJB             | ZRK            | VUD3               |
| COCM           | VK6ME          | HAT4             | Berlin         | Berlin             |
| Paris          | HAT4           | VUB2             | TI4NRH         | FK8AA              |

<sup>\*</sup>Exclusive of the USA and Canada.

## Time is Eastern Standard. Subtract 1 hour for Central, 2 hours for Mountain and 3 hours for Pacific.

Berlin. Deutscher Kurzwellensender. Haus des Bundfunks, Berlin, Charlottenburg 9 Transmitters are at Zeesen. Can be identified by a tune on a music box which precedes each transmission. These stations verify by card for an IRC.

The directions in which the programs are radiated are shown in parentheses: A. Asia; Af, Africa; CA, Central America: NA. North America: SA. South America

DJA, 9560, 12:05-11 am (A) 6-10:50 pm (CA).

DJB, 15200 kcs, 12:05-11 am (A); 4:50-10:50 pm (NA); Sunday only 11:10 am-12:25 pm (NA).

DJC, 6020, 11:30 am-4:25 pm (Af). D'D, 11770, 10:30 am-4:25 pm (Af): 4:50-10:50 pm (NA).

D'E, 17760, 12:05-5:50 am (A); 6-7:50 am (SA); 8-10 am (A); 4:50-6-7:50 am (SA); 8-11 am (A); Sunday only, 11:10 am-12:25 pm (SA).

DIL, 15110, 12:05-2 am (Af); 8-9 DJN, 9540, 4:50-10:50 pm (SA). D'O, 15280, 12:05-11 am (A); 4:50 -10:50 pm (SA).

DJR, 15340, 8-9 am (CA); 4:50-10:50 pm (CA).

DJS, 21450, 12:05-11 am (A). DJZ, 11801, 7:15-10:50 pm (NA).

**Eindhoven:** N. V. Philips' Radio, Eindhoven, Netherlands. Philips' Holland-India Broadcasting Station (PHOHI).

PC<sup>1</sup>, 9590, **Sun**, 2-3 pm; 7:15-8:15 pm; 8:25-10:25 pm; Tues, 1:45-3:40 pm; 7:15-10:30 pm; Wed, 7:15-8:50 pm; Fri, 8-9 pm.

PCJ2, 15220, Tues, 2:-3:30 am; Wed, 9:30-11:30 am.

PHI, 11730, Mon through Fri, 6:15-6:45 pm; Sat, 7:15-7:45 pm.

PHI2, 17770, Mon through Fri, 7:40-8:55 am; Sun; 6:25-9:40 am.

London: British Broadcasting Corp., London, W1, England. Big Ben strikes the hours. Reports are acknowledged but not positively verified. Transmitters are at Daventry.

**GS**A, 6050, 12:20-4 pm; 4:15-6 pm.

GSB, 9510, 1:30-4 pm; 4:15-8:30 pm; 9:20-11:20 pm.

GSC, 9580, 6-8:30 pm; 9:20-11:25

GSD, 11750, 3-5:15 am; 9-noon; 12:20-4 pm; 4:15-8:30 pm; 9:20-11:25 pm.

GSE, 11860, 3:5:15 am; 5:45-8:30

am; 9 am-noon.

GSF, 11860, 3-5:15 am; 5:45-8:50

am; 9 am-noon.

GSG, 17790, 5:45-8:50 am; 9 amnoon; 12:20-4 pm.

GSH, 21470, 5:45-8:50 am; 9 amnoon.

GSJ, 21530, 5:45-8:50 am; 9 amnoon; 1:30-4 pm.

GSL, 6110, 6-8:30 pm; 9:20-11:25

GSO, 15180, 3-5:30 am; 9 am-noon; 4:15-8:30 pm.

GSP, 15310, 3-5:15 am; 12:20-4

pm; 4:15-6 pm.

Martinique: "Radio Martinique," Fort de France, Martinique, 9700 kcs. Sign off with Marseillaise. Address, Poste Seri Boite 136 6-7:45 pm

Paris: "Paris Mondial." Ministry of Haussmann, Paris VIIIe.

TPAQ, 15243, 6-11 am.

TPA3, 11885, 2-5 am; 11:15 am-6

TPA4, 11718, 7-9:15 pm; 9:30 pmmidnight.

TPB3, 17810, 9:30-11 am.

TPB6, 11718, 7-9:15 pm.

TPB7, 11885, 9:30 pm-midn't.

TPB11, 9550, 11:15 am-6 pm. TPB11, 15130, 2-5 am.

Praha: The Czechoslovak Shortwave Station, Fochova Tr. 16.

OK1MPT, 5145, Fri, 4:40-5:10 pm OLR2A, 6010, Wed, Thur, 4:40-5:10

OLR3A, 9550, Mon, 4:40-5:10 pm. OLR4A, 11840, Daily 1:55-4:30 pm; Mon through Fri, 7:55-10:55 pm; Sun, 5:55-8:55 pm.

OLR5A. 15230. Mon through Fri. 7:55-10:55 pm; Sun, 5:55-8:55 pm; Tues, 4:40-5:10 pm.

Rome: E.I.A.R., 5 Via Montello, Rome,

Italy.

ICC, 6355, 3-3:30 pm. IQY, 11676, 12:10-1 pm; 1:35-2:35 pm; 3-3:30 pm; 7-9 pm.

IRF, 9830, 3-3:30 pm; 7-9 pm.

2RO, 11810, 4:40-8:45 am; 10 am 2:55 pm; 3:50-4:05 pm; 5:30-5:55 pm; 7-9 pm.

Tokyo: Broadcasting Corp. of Japan, Hibiya Park, Tokyo.

JVP, 7510, 8-9:30 am.

JZI, 9535, 2:30-4 pm; 4:30-5:30 pm.

JZJ, 11800, 7-7:30 am; 8-9:30 am; 2:30-4 pm; 4:30-5:30 pm.

"Radio Nacional," Salamanca, Spain, 10370, 6:30 pm-?

COCM, 9833, Havana, Cuba. Transradio Columbia, 23 No. 1113, Vedado. 8 am to 10:30 pm.

COCO, 6010, Havaná, Cuba. Relays CMCK. Luis Casas R., Aptdo 98. 8 am-10 pm.

COCQ, 9670, Havana, Cuba. "de la RCA Victor," Calle 25 No. 225. Noon-

CSW, 9940, Lisbon, Portugal, 1-8 pm. FK8AA, 6122, Noumea, New Caledonia, Relays FJP. 44 rue de l'Alma. Sat, 2:30-3:30 am.

HAT4, 9125, Budapest, Hungary, Sun,

Wed, 7-8 pm; Sat, 6-7 pm.

HCJB, 4107, Quito, Ecuador, 7-8:15 am; 11:30 am-2:30 pm; 4:45-10:15

HCJB, 12450, Quito, Ecuador, 4:30-7:15 pm.

HJIABP, 9618, Cartagena, Colombia, Aptdo. 37, 6-10 pm.

HJ3ABD, 4840, Bogota, Colombia, Aptdo. 509, 9 am-2 pm; 6 pm-midn't.

HI3ABH, 4900, Bogota, Colombia, Aptdo. 565, 6-11 pm.

HJ3ABX, 6015, Bogota, Colombia, Aptdo. 2665, Sun, noon-1:30 pm; 6-11 pm; weekdays, 10:30 am-2 pm; 5:30-11 pm.

HP5A, 11700, Panama City, Panama. Radio-Tatro Estrella de Panama, Aptdo. 054. Weekdays 6-10 pm.

HP5G, 11780, Janana City, Panama. "Ron Dalley," Box 1121, Daily 6-10 pm.

**HP5I**, 11895, Aguadulce, Panama. "La Voz del Interior," verifies free. Daily 7:30-9:30 pm.

H58PJ, 9510, Bangkok, Siam, Mon,

Thur, 8-10 am.

JDY, 9925, Dairen, Kwangtung. Relays JQAK. Daily 7-8 am.

JQAK. Daily 7-8 am.

LRX, 9660, Buenos Aires, Argentina. "Radio El Mundo" Calls Maipu 555. Daily 10:30 am-12:30 am.

OFB, 15190, Lahti, Finland. Week-

days, 5-6:30 am; 10 am-5 pm.

**OFC**, 11780, Lahti, Finland, see OFB. **OFD**, 9500, Lahti, Finland, see OFB.

**OZF**, 9520, Copenhagen, Denmark, 2-6 pm; 10-11 pm.

PLP, 11000, Bandoeng, Java, N.E.I. Weekdays, 4:30-10 am.

RAN, 9595, Moscow, U.S.S.R. Radio Centre, Soliakka 12. Daily 7-9:15 pm.

RKI, 7520, Moscow, U.S.R. Radio Centre, Soliaka 12. Daily 7-9:15 pm.

SPD, 11535, Warsaw, Poland, 6-9 pm.
SPW, 13635, Warsaw, Poland, 6-9 pm.

TAQ, 9670, 14770, 15180, Ankara,

Turkey. Testing.

TGQA, 6420, Quezaltenango, Guatemala. Sat, 10 pm-1 am Sun; Sun, 1-3 pm; other days, 9-11 pm.

TGWA, 9685, Guatemala City, Guat. Radiodifusora Nacional. Verifies free Sun, 7-10:45 pm. Weekdays, 10-11:30

TGWA, 15170, Guatemala City, Guat.

Same as above.

**T62X**, Guatemala City, Guat. Same as above.

TILS, 5905, San Jose, Costa Rica. Aptdo. 3. 6-11 pm.

TI4NRH, 9694, Heredia, Costa Rica. Aptdo. 40. Tues, Thur, Sat, 9-10 pm.

VK2ME, 9690, Sydney, Australia. Am? algamated Wireless, 47 York St. Sun, 1-3 am; 5-11 am.

VK3ME, 9510, Melbourne, Australia. Amalgamated Wireless, 167 King St. Weekdays 4-7 am.

VK6ME, 9590, Perth, Australia. Amalgamated Wireless. Weekdays 4-6 am.

VLR, 9580, Melbourne, Australia. 1-9:45 am.

**TAQ**, 9670, 14770, 15180, Ankara, **T**urkey. Testing.

**TGQA**, 6420, Quezaltenango, Guatemala. Sat, 10 pm-1 am; Sun, 1-3 pm; other days, 9-11 pm.

**T62X**, Guatemala City, Guat. Same as above.

**TI4NRH**, 9694, Heredia, Costa Rica. **VPD2**, 9530, Suva, Fiji, 5:30-7 am.

**VUB2**, 5905, Bombay, India, 7 am-12:30 pm.

**VUB2**, 9550, Bombay, India, 1-3:30 am; 9:30-11:30 pm.

VUC2, 5880, Calcutta, India, 6:30 am-noon.

**VUC2**, 9530, Calcutta, India, 2-4 am.

**VUD2**, 5995, Delhi, India, 7:30 am-12:30 pm.

**VUD2**, 9590, Delhi, India, 1:30-3:30

am; 8:30-11:30 pm. VUD3, 15160, Delhi, India, 7:30 am-

12:30 pm.

**VUM2**, 5880, Madras, India, 7 am-12:30 pm.

**W2XE**, New York, N. Y. Columbia Broadcasting Sys., 485 Madison Ave. 6120 kcs: 11:30 pm to 12:30 am.

11830 kcs: Sat and Sun, 6:30-11 pm;

Mon through Fri, 6-11 pm.

2120 kcs: Sat and Sun, 8 am to 1 pm; Mon through Fri 7:30 am.

W3XAL, New York, N. Y. (Bound Brook, N. J.). National Broadcasting Co., Rockefeller Plaza.

6100 kcs: 9 pm to 1 am. 17780 kcs: 9 am to 9 pm.

**W3XAU**, Philadelphia, Pa. 1622 Chestnut St.

6060 kcs: Tues, Fri, Sun, 1 pm to

midnight; Wed, 1-10 pm.

9590 kcs: Mon, Thur, Sat, 1 pm to 1 am.; Tues, Fri, Sun, midnight to 1 am; Wed, 10 pm to 1 am.

**XETA**, 11760, Monterrey, N. J., Mexico. Aptdo. 203. Daily 1:30-3:30

XEWI, 11900, Mexico City, D. F. 9 pm to midnight.

**XEWW**, 15160, Mexico City, D. F. Aptdo. 2516. 8 pm to 12:30 am.

**XTJ**, 11690, Hankow, China, 1-1:30 am; 7:05-7:35 am.

**YUA**, 6100, Belgrade, Yugoslavia. "Radio Beograd." noon to 5 pm.

YV5RC, 5970, Caracas, Venezuela. Aptdo. 2009. Sun, 8:30 am to 9:30 pm; Weekdays, 7 am to 10 pm.

**ZBW3.** 9525. Hong Kong, Box 200. Sun midnight to 1 am; 3-9:30 am. Weekdays 4-10 am.

ZIK2, 10600, Belize, British Honduras. Tues, Thur, Sat, 7:30-8 pm.

ZGE, 6200, Kuala Lampur, Fed. Malay States. Sun, Tues, Fri, 6:40-8:40

ZRK, 9606, Cape Town, U. of South Africa. P. O. Box 4559, Johnannesburg. Sun, 3:30-4:30 am; 8-11:40 am. Weekdays, 11:45 pm to 12:45 am



This very pretty card with large red call letters comes from Niigata, Japan, a broadcast band station which has been heard on our west coast.. (Courtesy of A. C. Tarr.)

## Applications to the FCC

(Only applications which are set for hearing are shown in this list.)

KAND, Corsicana, Tex., CP 250 w. days (E). KEX, Portland, Ore., CP change freq. to 1160, unltd. (E).

KEEL, Denver, Colo, CP day pwr. of 1 kw.

KFJZ, Ft. Worth, Tex., CP change freq. to 930, pwr. to 500 w. unltd. (E).
KGNO, Dodge City, Kans., CP 500 w. (E).
KRKO, Everett, Wash., CP 100 (.25) unltd.

(E).

KRSC, Seattle, Wash., CP change pwr. to 00 w. Amended for 1 kw. (E). KVOD, Denver, Colo., CP 630 kcs., 1 kw.

WBNX, New York, N. Y., CP 5 kw. (C). WDEL, Wilmington, Del., CP 1000 w. (E). WGRC, New Albany, Ind., CP 800 kcs., 250 unltd. (E).

WIP, Philadelphia, Pa., CP 5 kw, and move xmitter to Brooklawn, N. J. (E).
WIRE, Indianapolis, Ind., CP 5 kw. (E).
WIS, Columbia, S. C., special exp. autoity for new satellite station at Sumter, S. C., 560 kcs., 10 to 100 w. from LS to sunrise. (E).

WJRD, Tuscaloosa, Ala., mod. of lic. for 100 (.25) unltd. (E). WLAC, Nashville, Tenn., CP for 50 kw. (E).

WMBC, Detroit, Mich., CP 1420 kcs., 250 w. unltd. (E).

WMBR, Jacksonville, Fla., CP 1120 kcs., 500 (1). (E).

WRAW, Reading, Pa., CP 250 w. (E). WSFA, Montgomery, Ala., CP 1410 kcs., 1

kw. unltd. (E). WSJS, Winston Salem, N. C., CP 100 (.25)

WTEL, Philadelphia, Pa., mod. of lic. to share with WHAT (E). WTMV, E. St. Louis, Ill., mod. of lic. for

250 w. (É). WTOL, Toledo, Ohio, mod. of lic. to work

unltd. hours. (E). NEW, Akron, Ohio, Summit Radio Corp., 1530 kcs., 1 kw. unltd. (E). Wis., CP 1310 kcs., NEW, Ashland,

(.25) (E). NEW, Brunswick, Ga., CP 1420 kcs., 100

(.25) (E).

NEW, Cleveland, Ohio, Cuyahoga Valley
Brdestg. Co., CP 1500 kcs., 100 w. days (E).

NEW, Everett, Wash., Cascade Brdcstg. Co., CP 1200 kcs., 100 w. days. (E).
NEW, Everett, Wash., Cascade Brdcstg. Co., CP 1420 kcs., 100 (.25) unltd. (E).
NEW, Hastings, Nebr., South Nebr. Brdcstg. Co., CP 920 kcs., 1000 (5) unltd. (E).

NEW, Louisville, Ky., Ky. Brdcstg. Corp., CP 1210 kcs., 100 (.25) (E). NEW, Mansfield, Ohio, CP 1370 kcs., 250 w.

days (E). NEW, NEW, Metuchen, N. J., Bernard Goldsmith, CP 1420 kcs., 100 w. days (E).

NEW, Norfolk, Va., Colonial Brdcstg. Corp.,

CP 1370 kcs., 100 (.25) (C). NEW, Ocala, Fla., John T. Alsop, Jr., CP 1500 kcs., 100 w. unltd. (E). NEW, Phoenix, Ariz., M. C. Reese, CP 1200 kcs., 100 (.25). (E).

NEW, Rockville, Md., Monocacy Brdcstg.
Co., CP 1140 kcs., 250 w. days (E).
NEW, San Juan, P. R., Enrique Abarca Sanfeliz, CP 580 kcs., 1000 (5) (E).
NEW, Sahlia Mo. CP. 1500 kcs., 100 (28) NEW, Sedalia, Mo., CP 1500 kcs., 100 (.25) unltd. (E).

(E) indicates the application is set for hearing before an Examiner. (C) indicates it is set for hearing before the Commission, freq. (Frequency); mod. (modification); lic. (license); pwr. (power); unltd. (unlimited time); Itd. (limited time); CP (construction permit); hrs. (hours); xmitter (transmitter); exp. (experimental); LS (local sunset).

NEW, Springfield, Ohio, Springfield Brdcstg.
Corp., -CP 1310 kcs., 100 w. unltd. (E).
NEW, Sumter, S. C., J. Samuel Broady, CP
1310 kcs., 100 (.25) unltd. (E).
NEW, Tacoma, Wash., Tacoma Brdcstg Co.,
CP 1420 kcs., 100 (.25) (E).
NEW, Tacoma, Wash., Michael J. Mingo,
CP 1400 kcs. 250 w. unltd. (E). CP 1400 kcs., 250 w. unitd. (E).

NEW, Victoria, Texas, Radio Enterprises,
Inc., CP 1310 kcs., 100 (.25), unitd. (E).

## Recommendations to FCC Examiners

KATE, Albert Lea, Minn., rec. grant of appl. for mod. of lic. for 100 (.25) (C).
KEEN, Seattle, Wash., rec. grant of CP for

1420 kcs., 100 (.25).

KOY, Phoenix, Ariz., rec. grant of app. for mod. of lic. for 550 kcs. WGNY, Newburgh, N. Y., rec. grant of CP for 1220 kcs., 250 w. days. WHP, Harisburg, Pa., rec. grant of CP for

1000 (5). WPRA, Mayaguez, P. R., rec. grant of CP

WRBL, Columbus, Ga., rec. mod. of CP for 1330 kcs., 1 kw. (C). WTAQ, Green Bay, Wis., rec. grant of CP

for 1000 (5).

NEW, Atlantic City, N. J., Press Union Pub.
Co., rec. grant of CP for 1200 kcs., 100 (.25)

unltd.

NEW, Denver, Colo., F. W. Meyer, rec. grant of CP 1310 kcs., 100 (.25). NEW, Emporia, Kans., Emporia Brdcstg. Co., nc., rec. grant of CP 1370 kcs., 100 w. davs.

NEW, Lihue, Hawaii, Garden Island Pub. Co., rec. grant of CP for 1500 kcs., 100 (.25). Untld.

NEW, Goldsboro, N. C., rec. grant of CP 1370 kcs., 100 w. unltd. (C). NEW, New Bern, N. C., Nathan Frank, rec.

grant CP 1500 kcs., 100 w.
NEW, Reck Hill, S. C., rec. grant CP 1500

kcs., 100 w. days. kcs., 100 w. days.

NEW, St. Petersburg, Fla., Pinellas Brdcstg.

Co., rec. grant CP 1370 kcs., 100 (.25) unltd.

NEW, Vancouver, Wash., Vancouver Radio

Corp., rec. grant CP 880 kcs., 250 w. days. NEW, Wallace, Idaho, rec. grant CP 1420

kcs., 100 (.25) unltd.
NEW, Washington, D. C., Lawrence J. Heller, rec. denial CP 1310 kcs., 100 (.25).

## The Month's Changes in Station Data

#### New

Mexico City, D. F. Troy, N. Y. 870 XERC 950 WTRY St. Anne de la Pocatiere, P. G. 1200 CHGB Petersburg, Va. Charleston, S. C. 1210 WPIV 1210 WTMA Columbia, S. C. Guaymas, Son. Havana, Cuba 1370 WCOS 1490 XEDR 1600 CMBH Frequency

670 XELO Tijuana, B. Cfa., from 580 Mexico City, D. F., from 890 990 XEK

1150 XEL 1240 XEBU Mexico City, D. F., from 1100 Chihuahua, Chih., from 1200 1340 XEFC Merida, Yuc., from 550 Power Winnipeg, Man., from 500 Mexico City, D. F., 100000 from 630 CJRC 890 XEW St. John, N. B., 100 from 500 Torreon, Coah., 500 from 125 1120 CHSJ 1310 XETB

#### Reinstated

960 XECL Mexicali, B. Cfa.

950 CBV Quebec, P. Q., from CRCK Chicoutimi, P. Q., from CRCS 1120 CBI

#### Network

Lansing, Mich., new Blue 1210 WJIM 1310 WFDF Flint, Mich., new Blue 1310 WLAK Lakeland, Fla., new NBC Jackson, Mich., new Blue 1370 WIBM 1420 WAPO Chattanooga, Tenn., new NBC Battle Creek, Mich., new Blue 1420 WELL

#### Delete

Mexico City, D. F. Mexico City, D. F. 610 XEXM 610 XEYO 730 XERB Rosarito Beach, B. Cfa. Tijuana, B. Cfa. Mexico City, D. F. Mexico City, D. F. 760 XEOK 860 XENC 870 XEIW 1160 XEFM Leon, Gto. 1180 XEFA Tacuba, D. F. 1230 XEAZ Zacatecas, Zac. Saltillo, Coah. 1240 XELA 1250 XEXH San Luis Potosi, S.L.P. 1310 XEXS Mexico City, D. F. Tijuana, B. Cfa.

1320 XEAU

560 WFIL

580 WILL 590 WKZO

## Permit to Change Frequency

Lincoln, Nebr., to 1080 770 KFAB 1190 WATR Waterbury, Conn., to 1290 Minot, N. Dak., to 1360 1240 KLPM Juneau, Alaska, to 1430 Astoria, Ore., to 1200 Salem, Ore., to 1360. 13:0 KINY 1370 KAST 1370 KSIM

#### Permit to Change Power

Philadelphia, Pa., to 1000

Urbana, Ill., to 5000 Kalamazoo, Mich., to 250 (1) Seattle, Wash., to 1000 760 KXA Lincoln, Nebr., to 50000 E. Lansing, Mich., to 5000 New Orleans, La.. to 50000 770 KFAB 850 WKAR 850 WWI. 880 CMW Havana, Cuba, to 5000 880 WRNL Richmond, Va., to 1000

Shenandoah, Iowa, to 1000 (5) Fairmont, W. Va., to 1000 (5) 890 KFNF 890 WMMN etchikan, Alaska, to 1000 Dallas, Texas, to 50000 900 KGBU 040 KRLD

1110 WRVA Richmond, Va., to 50000 Waterbury, Conn., to 250 Minot, N. Dak., to 500 (1) 1190 WATR 1240 KLPM Yakima, Wash., to 500 (1) 1250 KIT

1260 WNBX Springfield, Vt., to 1000 1310 KINY Juneau, Alaska, to 250 1350 KWK St. Louis, Mo., to 5000 1370 KAST

Astoria, Ore., to 100 (.25) Salem, Ore., to 500 1370 KSLM 1380 WNBC New Britain, Conn., to 250 (1) 1380 WSMK Davton, Ohio, to 250 (.5)

1450 WGAR Cleveland, Ohio, to 1000 (5)

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES WITH SUNDAY'S TIME ON THE AIR

KEY TO SYMBOLS

As shown in the Index by Frequencies

Frequencies are given in kilocycles per second, and wavelengths in meters. Night power is shown in watts in third column. Daytime power is shown in parentheses in fourth column, in kilowatts. Thus: (.25) indicates 250 watts. Exact frequencies, when not multiples of ten, are shown in the fourth column. are shown in the fourth column.

| Second Column Symbols  Verifies for return postage. Verifies only occasionally. Does not verify. Verifies—no postage required. Verifies for International Reply Coupon Verifies for 10 cents. No information available. Fourth Column Symbols A Status in doubt—in Court. B National "Blue" Network. C Columbia Network. D Daytime only. F Canadian Network. | ial Authorization H Assigned another —using this of Special Authoriz   | nder Spec- n. frequency frequency ne under action. sower but ver under zation. mile.  a-b-c Sm tions tions 1-2-3 Fig sha | n not in use. nal "Red" Network. ys only. conized. Permit to change power. Permit to change loca Permit to change frency. all letters show stausing same transmitter. ures denote stations ring time. nformation. |
|--|--|--|---|
| 540 kcs. (555.2 m.)  |  | EASTERN STANDARD   | PACIEIC STANDARD  |
| CJRM a 1000 F<br>ZNS d 400   | Regina, Sask.<br>Nassau, Bahamas   |  |   |
| 550 kcs. (545.1 m.)  |  |  |   |
| CFNB a 500 F(1)<br>KFUO a 500 2(1)   | Fredericton, N. B.<br>St. Louis, Mo.   | 9:30 am-1:30 pm;<br>4-5:30 pm; 10:15-<br>11:15 pm.   |   |
| KFYR a 1000 N(5)<br>KOAC a 1000<br>KSD a 1000 2R(5)<br>KTSA a 1000 C(5)  | Bismarck, N. Dak.<br>Corvallis, Ore.<br>St. Louis, Mo.   | 9 am-1 am.<br>Silent   | (6 am-10 pm)<br>(Silent)  |
| KTSA a 1000 C(5)<br>WDEV a 500 D<br>WGR a 1000 C(5)<br>WKRC a 1000 C(5)  | San Antonio, Tex.<br>Waterbury, Vt.<br>Buffalo, N. Y.<br>Cincinnati, Ohio  | 10 am-12:30 pm.<br>7 am-midnight.  | (6:30(7-9:30 am)<br>(4 am-9 pm)   |
| WSVA a 500 D   | Harrisonburg, Va.  | 9:30 am-5 pm.  | (6:30 am-2 pm)  |
| 560 kcs. (535.4 m.)  |  |  | '   |
| KFDM a 500 N(1)<br>KLZ a 1000 C(5)<br>KSFO a 1000 C(5)<br>KWTO a 5000 D<br>WFIL a 1000 BMX<br>WIND a 1000 (5)<br>WIS a 1000 N(5)<br>WQAM a 1000 C  | Beaumont, Texas Denver, Colo. San Francisco, Calif. Springfield, Mo. Philadelphia, Pa. Gary, Ind. Columbia, S. C. Miami, Fla.                                    | 9-5 am.<br>8 ammidnight.<br>7:45 am-midnight   | (6-2 am)<br>(5 am-9 pm)<br>(4:45 am-9 pm)   |
| 570 kcs. (526 m.)  |  |  |   |
| CMCY a 10000 KGKO a 1000 B(5) KMTR a 1000 C(5) WKBN a 500 1C WMCA a 1000 WNAX a 1000 C(5) WSYR a 1000 C(5) WSYR a 1000 Ba WSYU a 1000 Qa   | Havana, Cuba Ft. Worth, Texas Los Angeles, Calif. Tacoma, Wash. Youngstown, Ohio New York, N. Y. Yankton, S. Dak. Columbus, Ohio Syracuse, N. Y. Syracuse, N. Y. | 11-3 am. Silent 8 am-midnight  | (8 am-midnight) (Silent) (5 am-9 pm)  |
| WWNC       a       1000       N         580 kcs.       (516.9 m.)         CFPR       a       50          CHRC       a       100  | Prince Rupert, B. C. Quebec, P. Q.   | 11:30 am-midnight (  | 8:30 am- <b>9 pm)</b>   |

| SUNDA          | V TIM        | E               |               | Eastern Standar                            | 4                                    | (Pacific Standard)                   |
|----------------|--------------|-----------------|---------------|--|--------------------------------------|--------------------------------------|
|                |              |                 | P             |  |                                      |                                      |
| CKCL<br>CKPR   | a<br>a       | 100<br>1000     | F<br>         | Toronto, Ont.<br>Fort William, Ont.        | 10 am-11:30 pm.<br>1:30 pm-11:30 pm; | (7 am-7:30 pm)<br>(10:30 am-8:30 pm) |
| CKUA<br>KMJ    | a            | 500<br>1000     | KN            | Edmonton, Alta.<br>Fresno, Calif.          |                                      |                                      |
| KSAC           | a<br>a       | 500             | 2(1)          | Manhattan, Kans.                           | Silent.                              | (Silent)                             |
| WCHS           | a            | 500<br>1000     | C(1)          | Manhattan, Kans.<br>Charleston, W. Va.     | 8:45-1 am.<br>7:30-12:05 am.         | (5:45 am-10 pm)                      |
| WDBQ<br>WIBW   | a.<br>a      | 1000            | C(5)<br>C2(5) | Orlando, Fla. Topeka, Kans. Urbana, Ill.   | 7:50-12:05 am.                       | (4:30 am-9:05 pm)                    |
| WILL<br>WTAG   | a<br>a       | 1000<br>1000    | DX<br>R       | Urbana, Ill.<br>Worcester, Mass.           | Silent.<br>9 am-midnight.            | (Silent)<br>(6 am-9 pm)              |
| XEMU           | z            | 250             |               | Piedras Negras, Coah.                      | y am-imumgit.                        | (o am-9 pm)                          |
| 590 kg         | s. (5        | 08.2 1          | n.)           |  |                                      |                                      |
| KHQ            | a            | 1000            | R(5)          | Spokane, Wash.<br>Boston, Mass.            | 11 am-3 am.                          | (8 am-midnight)                      |
| WEÈI<br>WKZO   | a            | 1000<br>1000    | C(5)<br>BDX   | Boston, Mass.<br>Kalamazoo, Mich.          | 8-1 am.                              | (5 am-10 pm)                         |
| WOW            | a<br>a       | 1000            | R(5)          | Omaha, Nebr.                               | 8:15 am-5:15 pm.<br>8 am-2 am.       | (5:15 am-2:15 pm)<br>(5 am-11 pm)    |
| 600 kc         | s. <b>(4</b> | 99.7 r          | n.)           |  |                                      |                                      |
| CFCF           | a            | 500             | BF            | Montreal, P. Q.                            | 9 am-11:15 pm.                       | (6 am-8:15 pm)                       |
| CJOR<br>FON    | a<br>a       | 500<br>250      | 609           | Vancouver, B. C<br>St. Pierre, Miquelon    |                                      |                                      |
| KĖSD           | a            | 1000            | В             | San Diego, Calif.<br>Baltimore, Md.        |                                      | (- ( )                               |
| WCAO<br>WICC   | a<br>a       | 1000<br>500     | CJ<br>BM(1)   | Bridgeport, Conn.                          | 8:45 am-midnight.<br>8-1:30 am,      | (5:45 am-9 pm)<br>(5 am-10:30 pm)    |
| WMT            | a            | 1000            | BM(5)         | Cedar Rapids, Iowa                         |                                      | , - 1-/                              |
| WREC           | a            | 1000            | C(5)          | Memphis, Tenn.                             |                                      |                                      |
| 610 kg         | s. (4        | 9 <b>1</b> .5 r | n.)           |  |                                      |                                      |
| KFAR<br>KFRC   | z            | 1000<br>1000    | P<br>M(5)     | Fairbanks, Alaska<br>San Francisco, Calif. |                                      |                                      |
| WCLE           | c<br>a       | 500             | DM            | Cleveland, Ohio                            | 7:45 am to Cleveland SS.             | (4:45 am to Cleveland SS)            |
| WDAF           | a            | 1000            | R(5)          | Kansas City, Mo.<br>Miami, Fla.            | 8-1 am.                              | (5 am-10 pm)                         |
| WIOD<br>WIP    | a<br>a       | 1000<br>1000    | Na<br>····    | Miami, Fla.<br>Philadelphia, Pa.           | 8 am-midnight.                       | (5 am-9 pm)                          |
| WMBF           | a            | 1000            | Qa            | Miami, Fla.                                |                                      |                                      |
| <b>62</b> 0 kc | s. (4        | 83.6 r          | n.)           | ·  |                                      |                                      |
| KGW            | a            | 1000            | R(5)          | Portland, Ore.                             |                                      |                                      |
| KTAR           | a            | 1000            | N             | Phoenix, Ariz.<br>Wichita Falls, Tex.      |                                      |                                      |
| KWFT<br>TIPG   | z<br>z       | 250<br>2000     | (1)P<br>625   | San Jose, Costa Rica                       |                                      |                                      |
| WFLA           | a            | 1000            | Na(5)         | Tampa, Fla.                                |                                      |                                      |
| WHJB<br>WLBZ   | a<br>a       | 250<br>500      | CD<br>CM(1)   | Greensburg, Pa.<br>Bangor, Maine           |                                      |                                      |
| WSUN           | a            | 1000            | Na(5)         | St. Petersburg, Fla.                       |                                      |                                      |
| WTMJ           | a            | 1000            | N(5)          | Milwaukee, Wis.                            |                                      |                                      |
| 630 kc         | s. (4'       | 75.9 n          | n.)           | 64+  |                                      |                                      |
| -CFCO          | a            | 100             | F<br>F        | Chatham, Ont.<br>Charlottetown, P.E.I.     |                                      |                                      |
| CFCY<br>CJRC   | a<br>a       | 1000<br>500     | F(1)          | Winnipeg, Man.                             |                                      |                                      |
| CKOV           | a            | 100             | F             | Winnipeg, Man.<br>Kelowna, B. C.           | Noon-2 am.<br>8:30 am-6 pm.          | (9 am-11 pm)                         |
| KFRU<br>KGFX   | a<br>a       | 500<br>200      | 1(1)<br>D     | Columbia, Mo.<br>Pierre, S. Dak.           | o.50 am-o pm.                        | (5:30 am-3 pm)                       |
| WGBF           | a            | 500             | NE(1)         | Evansville, Ind.                           | 8-1 am.                              | (5 am-10 pm)                         |
| WMAL<br>WPRO   | a<br>a       | 250<br>500      | B(.5)<br>C(1) | Washington, D. C.<br>Providence, R. I.     | 8 ammidnight                         | (5 am-9 pm)                          |
| XEZ            | z            | - 500           | • • • •       | Merida, Yuc.                               |                                      |                                      |

| SUNDAY TIME   | Eastern Standard   | (Pacific Standard)   |
|---|--|--|
| 640 kcs. (468.5 m.)   |  | <i>i</i> :   |
| ,   | os Angeles, Calif. 11-3 am. Portland, Me. Columbus, Ohio 8:30 am-8:30 pm Ames, Iowa Usually silent. Sabinas, Coah. San Salvador, E. S. | (8 am-midnight)<br>(5 am-5 pm)<br>n. (5:30 am-5:30 pm)<br>(Usually silent) |
| 650 kcs. (461.3 m.)   |  | 3  |
| TIX z 1000<br>WSM a 50000 KMN   | San Jose, Costa Rica<br>Nashville, Tenn.   | e e  |
| 660 kcs. (454.3 m.)   |  |  |
| CMCR         z         150            WAAW         a         500         D           WEAF         a         50000         R           XEAL         z         1000            XEAO         a         250 | Havana, Cuba Omaha, Nebr. New York, N. Y. Mexico City, D. F. Mexicali, B. Cfa.   | (6 am-2 pm)  |
| 670 kcs. (447.5 m.)   |  |  |
| WMAQ a 50000 R<br>XELO a 10000  | Chicago, Ill.<br>Tijuana, B. Cfa.  | es.  |
| 680 kcs. (440.9 m.)   |  |  |
| CMHW f 500  | Santa Clara, Cuba 8 am-noon; 3 p   | m-11 (5 - 9 am; noon - 8 pm)   |
| KFEQ a 2500 D<br>KPO a 50000 R<br>VAS a 2000 685  | St. Joseph, Mo.<br>San Francisco, Calif.   | n and (Reports at 9 am and<br>8 pm)  |
| VOWR c 500 681<br>WLAW a 1000 D   | St. John's, Nfld.<br>Lawrence, Mass. 8 am to local s   |  |
| WPTF a 5000 N   | Raleigh, N. C. 9 am-11 pm.   | Lawrence, Mass.)<br>(6 am-8 pm)  |
| 690 kcs. (434.5 m.)   |  |  |
| CMBG         a         225            CFRB         a         10000         C           CJCJ         a         100         F           XET         a         5000  | Havana, Cuba Toronto, Ont. Calgary, Alta. Monterery, N. L.  Havana, Cuba 10:30 am-midn 11 am-1 am.                                     | ight 7:30 am-9 pm)<br>(8 am-10 pm)   |
| 700 kcs. (428.3 m.)   | 9  | 4  |
| WLW a 500000 JKMN   | Cincinnati, Ohio 8 am-2 am.  | (5 am-11 pm)   |
| 710 kcs. (422.3 m.)   |  |  |
| KIRO a 1000 CHJ<br>KMPC a 500 L<br>WOR a 50000 KM   | Seattle, Wash. Beverly Hills, Calif. Newark, N. J. 8 am-1:30 am.   | (5 am-10:30 pm)  |
| XEQ a 50000   | Mexico City, D. F.   |  |
| 720 kcs. (416.4 m.)   | I Vancas Corks   |  |
| CMK a 250<br>WGN a 50000 KM<br>XEH a 250  | Havana, Cuba<br>Chicago, Ill.<br>Monterrey, N. L.  |  |
| 730 kcs. (410.7 m.)   |  | ī  |
| CFPL a 100 F<br>CJCA a 1000 F   | London, Ont.<br>Edmonton, Alta. 11 am-2 am.  | (8 am-11 pm) y   |

WTBO

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250

D

(4:30 am-3 pm)

#### NORTH AMERICAN B. C. STATIONS BY FREQUENCIES SUNDAY TIME Eastern Standard (Pacific Standard) 740 kcs. (405.2 m.) KMMJ 1000 Clay Center, Nebr. D KTRB 250 D Modesto, Calif. WHEB 8 am to sunset at At- (5 am to Atlanta a 250 D Portsmouth, N. H. lanta, Ga. sunset) WSB 50000 R a Atlanta, Ga. 750 kcs. (399.8 m.) CMBL z 500 Havana, Cuba KGU WJR XEAA a 2500 LN Honolulu, Hawaii 50000 а C Detroit, Mich. 200 Mexicali, B. Cfa. Matamoros, Tams. а XEAM 2 25 760 kcs. (394.5 m.) KXA 250 (.5)XSeattle, Wash. WBAL BMSv Baltimore, Md. Northfield, Minn. а 2500 WCAL 1000 2(5) а WEW St. Louis, Mo. New York, N. Y. а 1000 D WIZ a 50000 BSy WĽB 1000 2(5) Minneapolis, Minn. 770 kcs. (389.4 m.) KFAB 10000 CSyXZ Lincoln, Nebr. WBBM CSy 50000 Chicago, Ill. 780 kcs. (384.4 m.) F CHWK (9 am-9 pm) ь 100 Chilliwack, B. C. Noon to midnight CKSO Sudbury, Ont. Havana, Cuba 1000 F Noon to midnight (9 am-9 pm) CMCU 150 a (5) KEHE Los Angeles, Calif. Brookings, S. Dak. 1000 а KFDY 1000 D Anchorage, Alaska Billings, Mont. KFOD c 250 KGĤL N(5) DP 1000 a KWLK 250 Longview, Wash. 11 am to sunset at (8 am to L. S.) Longview, Wash. WEAN a 1000 BM(5) Providence, R. I. Memphis, Tenn. R(5) WMC 1000 (5 am-10 pm) а 8 am-1 am. (5 am to sunset at WPIC. DP 250 Sharon, Pa. 8 am to L. S. z Sharon) WTAR 1000 Norfolk, Va. 8:30 am-midnight (5:30 am-9 pm) a XEN a 1000 Mexico City, D. F. 790 kcs. (379.5 m.) CMGH Matanzas, Cuba а 250 San Francisco, Calif. KGO 7500 В a KOAM 1000 DN 8:30 am to L. S. (5:30 am to sunset Pittsburg, Kans. z at Pittsburg) WGY (6 am-10 pm) а 50000 R Schenectady, N. Y. 9 am-1 am. 800 kcs. (374.8 m.) Ciudad Trujille, D. R. HIX 800 9:30-10:15 am; 11 (6:30-7:15 am; 8-10 am-1 pm; 4:30-6:30 am; 1:30-3:30 pm; 7 WBAP 50000 Na Fort Worth, Tex. pm-10 pm) pm; 10 pm-1 am. (5:30-6:30 am; 7:15-3:30-9:30 am; 10:15-Dallas, Texas WFAA 50000 Na 11 am; 1-4:30 pm, 8 am; JO am-1:30 pm; 3:30-7 pm) 6:30-10 pm.

Cumberland, Md.

7:30 am-6 pm.

| SUNDAY TIME      | •                  | Eastern Standar                          | d .                | (Pacific Standard)                 |
|------------------|--------------------|--|--------------------|------------------------------------|
| 310 kcs. (370    | ).2 m.)            |  |                    |                                    |
|                  | 5000               | Havana, Cuba                             |                    |                                    |
|                  | 0000 C             | Minneapolis, Minn.                       |                    |                                    |
|                  | 1000 D             | New York, N. Y.                          |                    |                                    |
| XEBZ a           | 100                | Mexico City, D. F.                       |                    |                                    |
| XEDF a           | 100                | Nuevo Laredo, Tams.                      |                    |                                    |
| 820 kcs. (36     | 5.6 m.)            |  |                    |                                    |
|                  | 0000 C<br>1000     | Louisville, Ky.<br>Tijuana, B. Cfa.      |                    |                                    |
| 830 kcs. (36     | 1.2 m.)            |  |                    |                                    |
| CMJX a           | 150                | Camagues, Cuba                           |                    |                                    |
|                  | 0000 R             | Denver, Colo.                            |                    |                                    |
|                  | 1000 D             | Reading, Pa.                             |                    |                                    |
|                  | 1000 L             | Boston, Mass.                            |                    |                                    |
| WRUF a           | 3000 L             | Gainesville, Fla.                        |                    |                                    |
| 840 kcs. (35     | 6.9 m.)            |  |                    |                                    |
| CBL a 50         | 0000 F             | Toronto, Out.                            | 10:30 am-midnight  | (7:30 am-9 pm)                     |
| CFQC a           | 1000 F             | Saskatoon, Sask.<br>St. Johns, Nfld.     |                    |                                    |
| VOGY a           | 400                | St. Johns, Nfld.                         |                    |                                    |
| XERA a 250       | 0000               | Villa Acuna, Coah.                       |                    |                                    |
| ,                | 2.7 m.)            |  |                    |                                    |
| CMCM a           | 250                | Havana, Cuba                             |                    |                                    |
| KIEV a           | 250 D              | Glendale, Calif.                         | 0 tot -1           | // to                              |
| WESG a           | 1000 CDH           | Elmira, N. Y.                            | New Orleans        | (6 am to sunset at<br>New Orleans) |
|                  | 1000 DX<br>0000 CX | E. Lansing, Mich.<br>New Orleans, La.    | 7 am-5 pm.         | (4 am-2 pm)                        |
| 860 kcs. (34     | 8.6 m.)            |  |                    |                                    |
| WABC a 50        | 0000 Ca            | New York, N. Y.                          |                    |                                    |
|                  | 0000 Qa            | New York, N. Y.                          |                    |                                    |
| WHB a            | 1000 ĎM            | Kansas City, Mo.                         |                    |                                    |
| XEMO a           | 5000               | Tijuana, B. Cfa.                         |                    |                                    |
| . '              | 14.6 m.)           |  |                    |                                    |
|                  | 0000 Ba            | Chicago, Ill.                            |                    |                                    |
|                  | 0000 Ba            | Chicago, Ill.                            |                    |                                    |
| XEFB a           | 200                | Monterrey, N. L.                         | ŧ /                | 2.3                                |
| XEJW z<br>XERC z | 500                | Mexico City, D. F.<br>Mexico City, D. F. | -                  | * .                                |
| AERC 2           |                    | Mexico City, D. P.                       |                    | •                                  |
| 880 kcs. (340    | ).7 m.)            | :  |                    |                                    |
|                  | 1000 F             | Ottawa, Ont.                             |                    |                                    |
|                  | 1000 <b>F</b>      | Kamloops, B. C.                          | *                  | •                                  |
|                  | 1400 X             | Havana, Cuba                             | 10 am-midnight     | ং(7 am- <b>9 pm.)</b>              |
| KFKA a           | 500 	 2M(1)        | Greeley, Colo.                           | 11 am-1 pm; 2:30-  | 8-10 am; 11:30 am-                 |
|                  |                    |  | 5 pm; 6:30-8:45 pm | 2 pm; 3:30-5:45 pm)                |
| KLX a            | 1000               | Oakland, Calif.                          |                    |                                    |
|                  | 1000 2             | Denver, Colo.                            |                    | 2.5                                |
|                  | 1000 C             | Meridian, Miss.                          | •                  | The second                         |
| WGBI a           | 500 C1(1)          | Scranton, Pa.                            | 9 am-1 am.         | (6 am-10 pm)                       |
| WQAN a           | 500 1(1)           | Scranton, Pa.                            |                    |                                    |
| WRNL a           | 500 DX             | Richmond, Va.                            | 8 am to L. S.      | (5 am to sunset at Richmond, Va.)  |
| WSUI a           | 500 (1)            | Iowa City, Iowa                          | r · · ·            | incimond, va.)                     |
|                  |                    |  |                    |                                    |

|                              | NOR              | TH A                      | MERIC                 | CAN B. C. STATIO   | ONS BY FREQU  | JENCIES                                 |
|------------------------------|------------------|---------------------------|-----------------------|--|---|---|
| SUNDA                        | Y TIN            | 1E                        |                       | Eastern Standar  | d   | (Pacific Standard)                      |
| 890 kc                       | s. (3            | 36.9 n                    | a.)                   | * *  |   |   |
| KARK<br>KFNF<br>KFPY<br>KUSD | a<br>a<br>a<br>a | 500<br>500<br>1000<br>500 | N(1)<br>2X(1)<br>C(5) | Little Rock, Ark.<br>Shenandoah, Iowa<br>Spokane, Wash.              | 9 am-7:45 pm.                                       | (6 am-4:45 pm)                          |
| WBAA<br>WGST                 | a                | 500                       | (1)                   | Vermillion, S. Dak.<br>W. Lafayette, Ind.                            | (Silent)  | Silent                                  |
| WJAR                         | a<br>a           | 1000<br>1000              | C(5)<br>R(5)          | Atlanta, Ga. Providence, R: I: Fairmount, W. Va.                     | 9 am-1 am.  |   |
| WMMN<br>XEW                  | a<br>a           | 500<br>10                 | CX(1)                 | Fairmount, W. Va.<br>Mexico City, D. F.                              |   |   |
| 900 kc                       | s. (3            | 33.1 n                    | n.)                   |  |   |   |
| KGBU                         | a                | 500                       | X                     | Ketchikan, Alaska  |   |   |
| KHJ<br>KSEI<br>WBEN          | a<br>a<br>a      | 1000<br>250<br>1000       | M(5)<br>N(1)<br>R(5)  | Los Angeles, Calif. Pocatello, Idaho Buffalo, N. Y. New Haven, Conn. | 11 am-3 am.   | (8 am-midnight)                         |
| WELI<br>WFMD                 | a<br>a           | 500<br>500                | D<br>D                | New Haven, Conn.<br>Frederick, Md.                                   | 8:45 am to L. S.                                    | (5:45 am to Sunet at<br>Frederick, Md.) |
| WJAX<br>WKY                  | a                | 1000                      | N(5)                  | Jacksonville, Fla.   | 8 am-midnight                                       | (5 am-9 pm)                             |
| WLBL                         | a<br>a           | 5000                      | D                     | Oklahoma City, Okla.<br>Stevens Point, Wis.                          | Usually silent.                                     | (Usually silent)                        |
| WTAD                         | a                | 1000                      | D                     | Quincy, Ill.   |   |   |
| 910 kc                       | s. (3            | <b>2</b> 9.6 n            | a.)                   |  |   | •                                       |
| CBF                          | a<br>a           | 50000<br>1000             | FN<br>F               | Montreal, P. Q.  |   |   |
| CJAT<br>CKY                  | a                | 15000                     | r<br>F                | Trail, B. C.<br>Winnipeg, Man.                                       | Noon-1:30 am.                                       | (9 am-10:30 pm)                         |
| CMOA<br>XENT                 | z<br>a           | 150<br>150000             | • • • •               | Havana, Cuba<br>Nuevo Laredo, Tams.                                  | 7 pm-8:15 am.                                       | (4 pm-5:15 am)                          |
| 920 kc                       |                  |                           |                       |  | , F   |   |
| KFEL                         | a                | 500                       | Ma                    | Denver, Colo.  |   |   |
| KOMO<br>KPRC                 | a<br>a           | 1000<br>1000              | R(5)<br>R(5)          | Seattle, Wash.<br>Houston, Texas                                     | 0:20 am 1 am  | (5:30 am-10 pm)                         |
| KVOD                         | a                | 500                       | Ba                    | Denver, Colo.  | 8:30 am-1 am.<br>9 am-12:30 pm; 9:30<br>pm-2:30 am. |   |
| WAAF<br>WORL                 | a<br>a           | 1000<br>500               | D<br>D                | Chicago, Ill.<br>Boston, Mass.                                       | 8 am to L. S.                                       | (5 am to Sunset at                      |
| WPEN                         | a                | 1000                      |                       | Philadelphia Pa  |   | (5 am to Sunset at Worcester, Mass.)    |
| WRAX ´<br>WSPA               | a<br>a           | 1000                      | Q                     | Philadelphia, Pa.<br>Philadelphia, Pa.                               |   | /6 to Summet at                         |
|                              | _                | 1000                      |                       | Spartanburg, S. C.   | 8 am to L. S.                                       | (5 am to Sunset at Spartanburg, S. C.)  |
| wwj                          | a                | 5000                      | R                     | Detroit, Mich.   | •   |   |
| 930 kc                       | s. (3            | 22.4 r                    | n.)                   |  |   |   |
| CFAC                         | a                | 1000                      | F                     | Calgary, Alta.   |   |   |
| CFCH<br>CFLC                 | a<br>a           | 100<br>100                | F                     | North Bay, Ont.<br>Prescott, Ont.<br>Halifax, N. S.                  |   |   |
| CHNS                         | a                | 1000                      | F                     | Halifax, N. S.   |   |   |
| CKPC<br><b>KMA</b>           | a                | 100                       | F<br>P(s)             | Brantford, Ont.  |   |   |
| KROW                         | а<br><b>а</b>    | 1000<br><b>1000</b>       | B(5)                  | Shenandoah, Iowa<br>Oakland, Calif.                                  |   |   |
| WBRC                         | a                | 1000                      | R(5)                  | Birmingham, Ala.   | 8 am-1 am.  | (5 am-10 pm)                            |
| WDBJ<br>XEBH                 | a<br>a           | 1000<br>500               | C(5)                  | Roanoke, Va.<br>Hermosillo, Son.                                     | 8 am-midnight                                       | (5 am-9 pm)                             |
| 940 kc                       | s. (3            | 19 m.                     | )                     |  |   |   |
| CMBZ                         | a                | 500                       | X                     | Havana, Cuba   | 1 1 11 11 11  |   |
| KOIN<br>Waat                 | a<br>a           | 1000<br>500               | C(5)<br>D             | Portland, Ore.<br>Jersey City, N. J.                                 | 1 . 11. 11. 12                                      | 11 11 1 1 1 11                          |
| WAVE                         | a                | 1000                      | Ñ                     | Louisville, Ky.  | 9 am-2 am.  | (6 am-11 pm)                            |

|              | 110      | ) IV I 11 I         | Z11/17/1/1/1  | CAN D. C. SIAII                         | OMP I TO SHOP                  | DEMCIES                                 |
|--------------|----------|---------------------|---------------|---|--------------------------------|---|
| WCSI         |          |                     | R(2.5)        |   | 8 am to midnight.              | (5 am-9 pm)                             |
| WDA<br>Wha   |          |                     | N(5)<br>D     | Fargo, N. Dak.                          | Silent.                        | (Silent)                                |
| WICA         |          |                     | Ď             | Madison, Wis.<br>Ashtabula, Ohio        | 8 amL. S.                      | (5 am to Sunset at                      |
| *****        |          |                     |               |   |                                | Ashtabule, Ohio)                        |
| XEFO         | a        | 5000                |               | Mexico City, D. F.                      |                                |   |
|              | kcs.     | (315.6              |               | ·                                       |                                |   |
| CBV<br>CBV   | a        | 100                 | F<br>F        | Lethridge, Alta.                        | 10 am-1:30 am.                 | (9 am-9 pm)                             |
| KFWI         | a<br>3 a | 1000<br>1000        | (5)           | Quebec, P. Q.<br>Los Angeles, Calif.    | Noon-midnight.<br>11 am-3 am.  | (7 am-10:30 pm)<br>(8 am-midnight)      |
| KMBO         | C a      | 1000                | C(5)          | Kansas City, Mo.                        |                                | (0 1111 1111 1111 1111 1111 1111 1111 1 |
| WHA:         |          | 500<br>1000         | DP            | Saginaw, Mich.                          |                                |   |
| WTRY         | a<br>Z   | 1000                | R(5)<br>DP    | Washington, D. C.<br>Troy, N. Y.        |                                |   |
| 960          | kcs.     | (312.3              | m.)           |   |                                |   |
| CBY          | С        | 100                 | F             | Toronto, Ont.                           | 11 am-midnight                 | (8 am-9 pm)                             |
| CFRN         |          | 100                 | F             | Edmonton, Alta.                         | 11:30 am-12:30 am.             | (8:30 am-9:30 pm)                       |
| CHNC<br>CMKS |          | 1000<br>60          | F<br>         | New Carlisle, P. Q.<br>Guantanamo, Cuba |                                |   |
| XEAW         |          | 100000              |               | Reynosa, Tams.                          | 5-7:15 am; 7-11 pm.            | (2-5:15 am; 4-8 pm)                     |
| XECL         | z        | 1000                | • • • • • • • | Mexicali, B. Cfa.                       | 6                              |   |
| 970          | kcs.     | (309.1              | m.)           |   |                                |   |
| CMCK         |          | 5000                |               | Havana, Cuba                            |                                |   |
| CMBY         |          | 200                 |               | Havana, Cuba<br>Seattle, Wash.          |                                |   |
| KJR<br>WCFL  | a<br>a   | 5000<br>5000        | B<br>N        | Chicago, Ill.                           |                                |   |
| WIBG         | a        | 100                 | D             | Glenside, Pa.                           | 8:30 am-5 pm.                  | (5:30 am-2 pm)                          |
| 980          | kcs.     | (306 m              | .)            |   |                                |   |
| KDKA         |          | 50000               | В             | Pittsburgh, Pa.                         |                                |   |
| XEAC<br>XEFE | a'<br>z  | 1000<br>250         | x             | Tijuana, B. Cfa.<br>Nuevo Laredo, Tams. |                                |   |
| ALIE         | Z        | 2,00                | Λ             | rucvo Laredo, Tams.                     |                                |   |
|              |          | (302.8 r            | n.)           |   | w.                             |   |
| CMKL<br>WBZ  | z<br>a   | 200<br>50000        | BSy           | Bayamo, Cuba<br>Boston, Mass.           |                                |   |
| WBZA         |          | 1000                | BSy           | Springfield, Mass.                      |                                |   |
| XEAF         | а        | 750                 |               | Nogales, Son.                           |                                |   |
| XEK<br>XES   | a<br>a   | 100<br>2 <b>5</b> 0 |               | Mexico City, D. F.<br>Tampico, Tams.    |                                |   |
| ALS          | а        | 2,00                |               | rampico, rams.                          |                                |   |
| 1000         | kcs.     | (299.8              | m.)           |   |                                |   |
| CMBZ         | а        | 500                 | X(1)          | Havana, Cuba                            |                                |   |
| KFVD<br>VOCM | a<br>z   | 1000<br>200         | L<br>1006     | Los Angeles, Calif.                     |                                |   |
| WHO          | a        | 50000               | KR            | St. John's Nfld.<br>Des Moines, Iowa    |                                |   |
| XEBI         | a        | 25                  | • • • •       | Aguascalientes, Ags.                    |                                |   |
| 1010         | kcs.     | (296.9              | m.)           |   |                                |   |
| CHML         | a        | 100                 | F             | Hamilton, Ont.                          | 9:30 am-11:30 pm.              | (6:30 am-8:30 pm)                       |
| CKCD         | a        | 100                 | 1             | Vancouver, B. C.                        | Silent '                       | (Silent)                                |
| CKCK         | a        | 1000                | F             | Regina, Sask.                           | 10:45 am-2 am.                 | (7:45 am-11 pm)                         |
| CKIC<br>CKIC | a<br>a   | 100<br>50           | F             | Ottawa, Ont.<br>Wolfville, N. S.        |                                |   |
| CKWX         | a        | 100                 | i             | Vancouver, B. C.                        | Noon-1:45 am.                  | (9 am-10:45 pm)                         |
| CMJA         | а        | 250                 |               | Camaguey, Cuba                          |                                | (,, p)                                  |
| CMQ<br>KGGF  | a<br>a   | 25000<br>1000       | 2 <b>M</b>    | Havana, Cuba                            | 11.20 am 10                    | (0.20 am 7 am)                          |
| KQW          | a        | 1000                | M             | Coffeyville, Kans.<br>San Jose, Calif.  | 11:30 am-10 pm.<br>11 am-3 am. | (8:30 am-7 pm)<br>(8-am-midnight)       |
| -            |          |                     |               | -                                       |                                |   |

| NORTH A   | MERICAN B. C. STATI  | ONS BY FREQU                                     | UENCIES                                     |
|---|--|--|---|
| SUNDAY TIME   | Eastern Standa   | rd   | (Pacific Standard)                          |
| WHN a 1000<br>WNAD a 1000<br>WNOX a 1000<br>XFFQ a 50<br>XEU a 250                                    | (5) New York, N. Y. 2 Norman, Okla. C(5) Knoxville, Tenn Cananea, Son Veracruz, Ver.                               | 8 am-1 am.<br>Silent.<br>8:30 am-1 am.           | (5 am-10 pm)<br>(Silent)<br>(5:30 am-10 pm) |
| 1020 kcs. (293.9<br>KYW a 10000<br>WDZ a 250<br>XEJ a 1000  | m.)  R Philadelphia, Pa. D Tuscola, Ili. Juarez, Chih.   | 7 am-1:15 am.                                    | (4 am-10:15 pm)                             |
| 1030 kcs. (291.1<br>CFCN a 10000<br>CJBR z 1000<br>CKLW a 5000<br>CMCK a 5000                         | Calgary, Alta. F Rimouski, P. Q. FM Windsor, Ont. Havana, Cuba   | •  |   |
| 1040 kcs. (288.3<br>KRLD a 10000<br>KWJJ a 500<br>KYOS b 250  | CX Dallas, Texas D Merced, Calif. H Portland, Ore.   | .11 am-L. S.<br>10 am-L. S.; mid-<br>night-n am. | am)   |
| WTIC a 50000  1050 kcs. (285.5  CBM a 5000  CMCH z  CMKD a 1000  HIT z 50                             | FR Montreal, P. Q Havana, Cuba Santiago, Cuba Ciudad Trujillo, D. I  | 8:45 am-1 am.                                    | (5:45 am-10 pm)                             |
| KFBI a 50000 KNX a 50000 WEAU z 1000 WIBC z 1000  1060 kcs. (282.8 KTHS z 1000                        |  | 9 am-L. S.<br>10 am-4 am.                        | (6 am-10 pm)<br>(7 am-1 am)                 |
| VOAC z 40 WBAL a 10000 WJAG a 1000 W3XJ z 100   | HN Hot Springs, Ark.  1065 St. John's, Nfld. BHM Baltimore, Md. DH Norfolk, Nebr. P College Park, Md.              | am. 11 am-6:15 pm.                               | (6 am-L. S.; 6-10 pm) (8 am-3:15 pm)        |
| 1070 kcs. (280.2<br>CMBX a 150<br>CMHA z 50<br>KJBS a 500<br>WCAZ a 100<br>WTAM a 50000               | m.)  Havana, Cuba Sagua la Grande, Cul L San Francisco, Calif. D Carthage, Ill. R Cleveland, Ohio                  | 1 am-L. S.                                       | (10 pm-L. S.)<br>(8 am-2 pm)                |
| 1080 kcs. (277.6<br>WBT a 5000<br>WCBD a 5000<br>WMBI a 5000<br>XEBA z 20<br>XEBK a 100<br>XEDP a 500 | m.)  C Charlotte, N. C.  IL Chicago, Ill.  IL Chicago, Ill.  Guzman, Jal.  Nuevo Laredo, Tams.  Mexico City, D. F. | 1  | (9 am-12:30 pm)                             |
| 1090 kcs. (275.1<br>HIN a 740<br>KMOX s 50000   | m.) Ciudad Trupillo, D. 1 C St. Louis, Mo.   | (f) (g) (g) (g) (g) (g) (g) (g) (g) (g) (g       |   |

| NO               | RTH A             | MERI      | CAN B. C. STATI   | ONS BY FREQU                      | JENCIES                            |
|------------------|-------------------|-----------|---|-----------------------------------|------------------------------------|
| SUNDAY T         | IME               |           | Eastern Standa  | rd                                | (Pacific Standard)                 |
| 1100 kcs.        | (272.6            | m.)       |   |                                   |                                    |
| CBR a            | 5000              | F         | Vancouver, B. C.  |                                   |                                    |
| KGDM a           | 1000              | DM        | Stockton, Calif.  | •                                 |                                    |
| KWKH a<br>WBIL a | 10000<br>5000     | CH<br>1   | Shreveport, La.<br>New York, N. Y.  |                                   |                                    |
| WPG a            | 5000              | Ċ1        | Atlantic City, N. J.  | 9 am-8 pm; 9:15 pm.               | (6 am-5 pm; 6:15-                  |
|                  | 3000              | -         |   | midnight.                         | 9 pm)                              |
| 1110 kcs.        | (270.1            | m.)       |   |                                   |                                    |
| CMCJ a<br>KSOO a | 500               | X         | Havana, Cuba  |                                   |                                    |
| KSOO a           | 5000              | LN        | Sioux Falls, S. Dak.<br>Richmond, Va.   | 9 am-L. S.                        | (6 am-L.S.)                        |
| WRVA a           | 50000             | CM        | Richmond, va.   | 8:30 am-midnight.                 | (5:30 am-9 pm)                     |
| 1120 kcs.        | (267.7            | •         |   |                                   |                                    |
| CITT             |                   | F         | Chicoùtimi, P. Q.<br>Montreal, P. Q.  | 0 am 11 mm                        | (5 am ( pm)                        |
| CHLP a<br>CHSJ a | 100<br>100        | F<br>F(1) | St. John. N. B.   | 8 am-11 pm.<br>10 am-11:15 pm.    | (5 am-8 pm)<br>(7 am-8:15 pm)      |
| CKOC a           | 500               | F(1)      | Hamilton, Ont.  | 10 am 11.17 pm.                   | (, am on , p,                      |
| CKX a            | 1000              | F` ´      | Hamilton, Ont.<br>Brandon, Man.   | 1 pm-12:30 am.                    | (10 am19:30 pm)                    |
| CMGF a<br>CMKM a | 75                |           | Matanzas, Cuba  |                                   |                                    |
| CMKM a<br>KFIO a | 100<br>100        | D         | Manzanillo, Cuba<br>Spokane, Wash.  |                                   |                                    |
| KFSG a           | 500               | a(2.5)    | Los Angeles, Calif.   |                                   |                                    |
| KRKD a           | 500               | a(2.5)    | Los Angeles, Calif.<br>Los Angeles, Calif.  |                                   |                                    |
| KRSC a<br>KTBC z | 250               | DP        | Seattle, Wash.  |                                   |                                    |
| KTBC z<br>WCOP a | 1000<br>500       | D         | Seattle, Wash.<br>Austin, Texas<br>Boston, Mass.  | 8 am-L. S.                        | (5 am-L. S.)                       |
| WDEL a           | 250               | R(.5)     | Wilmington, Del.<br>Milwaukee, Wis.   |                                   |                                    |
| WISN a           | 250               | C(1)      | Milwaukee, Wis.   | 8:30 am-1 am.                     | (5:30 am-10 pm)                    |
| WJBO a<br>WTAW a | 500<br>500        | B<br>L    | Baton Rouge, La.<br>College Station, Tex.   |                                   |                                    |
| 1130 kcs.        | <b>(26</b> 5.3    | m.)       |   |                                   |                                    |
|                  | •                 | 111.7     |   |                                   |                                    |
| CMJI a<br>KSL a  | 150<br>50000      | c         | Ciego de Avila, Cuba<br>Salt Lake City, Utah  | 9 am to Sunset at Salt Lake City. | (6 am to Sunset at Salt Lake City) |
| WJJD a           | 20000             | L         | Chicago, Ill.   | Sait Lake City.                   | Dait Lake City)                    |
| WOV a            | 1000              | D         | Chicago, Ill.<br>New York, N. Y.  |                                   |                                    |
| XEJP z           | 100               |           | Mexico City, D. F.  |                                   |                                    |
| 1140 kcs.        | (263 n            | a.)       |   |                                   |                                    |
| CMBC a           | 150               |           | Havana, Cuba  |                                   |                                    |
| KVOO a           | 25000             | N         | Tulsa, Okla.  |                                   | 46 40                              |
| WAPI a<br>WSPR a | 5000<br>500       | C<br>DM   | Birmingham, Ala.<br>Springfield, Mass.  | 9 am-1 am.<br>8 am to Sunset at   | (6 am-10 pm)<br>(5 am to Sunset at |
| work a           | )00               | DM        | optingheid, wass.   | Birmingham, Ala.                  | Birmingham, Ala.)                  |
| 1150 kcs.        | (260.7            | m.)       |   |                                   |                                    |
| CMJF z           | 200               |           | Camaguev, Cuba  |                                   |                                    |
| WHAM a           | 50000             | В         | Camaguey, Cuba<br>Rochester, N. Y.<br>Durango, Dgo.<br>Tijuana, B. Cfa.<br>Minatitlan, Ver. |                                   |                                    |
| XEBP z           | 250               |           | Durango, Dgo.   |                                   |                                    |
| XEC a<br>XEDW z  | 1 <b>00</b><br>20 |           | Minatitlan Ver  |                                   |                                    |
| XEL z            | 250               |           | Mexico City, D. F.  |                                   |                                    |
| 1160 kcs.        | (258.5            | m.)       |   |                                   |                                    |
| CMHJ a           | 100               |           | Cienfuegos, Cuba  |                                   |                                    |
| CMKG z           |                   |           | Santiago, Cuba  |                                   |                                    |
| WOWO a<br>WWVA a | 10000<br>5000     | 1B<br>1C  | Fort Wayne, Ind.  |                                   |                                    |
| XEAS a           | 1 <b>0</b> 0      |           | Fort Wayne, Ind.<br>Wheeling, W. Va.<br>Saltillo Coah.                                      |                                   |                                    |
| XED a            | 2500              |           | Guadalajara, Jal.   |                                   |                                    |
| ₹EP a            | .500              |           | Juarez, Chih.   |                                   | •                                  |

| 1.170 kes. (256.3 m.)   CMBS   a   150   X   Havana, Cuba   KCAU   a   50000   C   Philadelphia, Pa.   Mexico City, D. F.  | SUNDAY T  | IME    |                   | Eastern Standard       | l I               | (Pacific Standard) |
|--|-----------|--------|-------------------|------------------------|-------------------|--------------------|
| CMBS   a   150   X   | 1170 kcs. | (256.3 | m.)               |                        |                   |                    |
| WCAU   a 50000   C   Philadelphia, Pa.   9 am-1 am.   (6 am-10 pm)   |           | •      | •                 | Havana Cuba            |                   |                    |
| 1180 kcs. (254.1 m.)   | WCAU a    | 50000  |                   | Philadelphia, Pa.      | 9 am-1 am.        | (6 am-10 pm)       |
| CHO  | XEXX z    | 1000   |                   | Mexico City, D. F.     |                   |                    |
| KOB         a         10000         Albuquerque, N. Mex.         11 am-1 am.         (8 am-10 pm)           WDGY         a         1000          Minneapolis, Min.         7 am-7 pm.         (4 am-4 pm)           WINS         a         1000          New York, N. Y.         New York, N. Y.           WMAZ         a         1000          Macon, Ga.         Tavuba. D. F           1190         kcs.         (252 m.)          Lought and John   | 1180 kcs. | (254.1 | m.)               |                        | ,                 |                    |
| KOB         a         10000         Albuquerque, N. Mex.         11 am-1 am.         (8 am-10 pm)           WDGY         a         1000          Minneapolis, Min.         7 am-7 pm.         (4 am-4 pm)           WINS         a         1000          New York, N. Y.         New York, N. Y.           WMAZ         a         1000          Macon, Ga.         Tavuba. D. F           1190         kcs.         (252 m.)          Lought and John   |           |        |                   |                        | EL-111 11 111     | .: 1 . :           |
| WINS a 1000 New York, N. Y. WMAZ a 1000 C(5) Macon, Ga. XEFA z 500 Tavuba, D. F  1190 kcs. (252 m.)  CMKX z 75 Santiago, Cuba Visalia. Calif. 10 am-L. S. (7 am-L. S.) VONF a 500 1195 St. John's Nfld. WATR a 100 DXZ WOAI a 50000 N San Antonio, Tex. 8:30 am-1230 am. (5:30 am-9:30 pm) WSAZ a 1000 L Huntington, W. Va. 9 am-7 pm. (6 am-4 pm)  1200 kcs. (249.9 m.)  CFGP z 100 Grande Prairie, Alta. Huntington, W. Va. 9 am-7 pm. (6 am-4 pm)  1200 kcs. (249.9 m.)  CFGP z 100 P St. Anned Pocatiere, P.Q. CKNX b 100 Wingham, Ont. 10:30 am-1:30 pm; (7:30-10:30 am; 4-7:30 pm)  CKTB a 100 F St. Catharines, Ont. CMCO a 150 Havana, Cuba Ada, Okla. KBTM a 100 M Ada, Okla. KBTM a 100 L Solometry of the Moote St. Anned Pocatiere, P.Q. KELO z 100 (.25) P Lewistown, Mont. KFJB a 100 (.25) Nampa, Idaho KFJB a 100 (.25) Grand Junction, Colo. KGCI z 100 DP Coeur d'Alene, Idaho Fergus Ralls, Minn. KGFJ a 100 (.25) Marshalltown, Iowa KGGI z 100 DP Greenville, Tex. KGHI a 100 (.25) Marshfield, Ore. KGUL z 100 DP Greenville, Tex. KGUL z 100 DP Greenville, Tex. KGUL z 100 DP Greenville, Tex. KGUL z 100 C P Greenville, Tex. KGUL a 100 (.25) Marshfield, Ore. KSUN a 100 (.25) Marshfield, Ore. KVCV a 100 M Bellingham, Wash.  |           |        |                   | Portland, Ore.         | 11 am-1 am        | (8 am-10 pm)       |
| WMAZ a 1000 C(5) Macon, Ga.  XEFA z 500 Tavuba, D. F  1190 kcs. (252 m.)  CMKX z 75 Santiago, Cuba Visalia, Calif. 10 am-L. S. (7 am-L. S.)  VONF a 500 1195 St. John's Nfld.  WATR a 100 DXZ Waterbury, Conn.  WOAI a 50000 N San Antonio, Tex. 8:30 am-1230 am. (5:30 am-9:30 pm)  WSAZ a 1000 L Huntington, W. Va. 9 am-7 pm. (6 am-4 pm)  1200 kcs. (249.9 m.)  CFGP z 100 Grande Prairie, Alta.  CHAB a 100 F Moose Jaw. Sask. 10:15 am-1 am. (7:17 am-10 pm)  CHGB z 100 P St. Anne de Pocatiere, P.Q.  CKNX b 100 Wingham, Ont. 10:30 am-1:30 pm; (7:30-10:30 am; 4-77:30 pm. 5:30 pm)  CKTB a 100 F St. Catharines, Ont.  Havana, Cuba  KADA a 100 M Ada, Okla.  KBTM a 100 D Jonesboro, Ark. 9 am-6:30 pm. (6 am-3:30 pm)  KDNC z 100 (.25) P Lewistown, Mont. Sioux Falls, S. Dak. 1 pm-1 am. (10 am-10 pm)  KFID a 100 (.25) Marshalltown, Iowa Noon-8 pm. (9 am-5 pm)  KFXD a 100 (.25) Grand Junction, Colo.  KGCI z 100 DP Coeur d'Alene, Idaho  KGEK a 100 (.25) Fergus Ralls, Minn.  KGEK a 100 (.25) Marshalltown, Iowa  KGEK a 100 (.25) Marshfield, Ore.  KGHI a 100 (.25) Marshfield, Ore.  KSUN a 100 (.25) Marshfield, Ore.  KSUN a 100 (.25) Marshfield, Ore.  KVCV a 100 Redding, Calif. 11:30 am-3 am. (8:30 am-midnight)  KVOS b 100 M Bellinesham, Wash.  | WDGY a    |        |                   | Minneapolis, Min.      | 7 am-7 pm.        |                    |
| Tayuba. D. F   Tayu |           |        |                   | New York, N. Y.        | -                 |                    |
| CMKX   Color   Color |           |        |                   | Tavuba, D. F           |                   |                    |
| CMKX   Color   Color | 1190 kcs. | (252 n | n.)               |                        |                   |                    |
| VONF a 500 1195 St. John's Nfld.  WATR a 100 DXZ Waterbury, Conn.  WOAI a 50000 N San Antonio, Tex. 8:30 am-1230 am. (5:30 am-9:30 pm)  WSAZ a 1000 L Huntington, W. Va. 9 am-7 pm. (6 am-4 pm)  L200 kcs. (249.9 m.)  CFGP z 100  | CMKX z    | 75     | ·                 |                        |                   |                    |
| WATR a 50000 DXZ Waterbury, Conn. WOAI a 50000 N San Antonio, Tex. 8:30 am-1230 am. (5:30 am-9:30 pm) WSAZ a 1000 L Huntington, W. Va. 9 am-7 pm. (6 am-4 pm)  1200 kcs. (249.9 m.)  CFGP z 100 Grande Prairie, Alta. CHAB a 100 F Moose Jaw. Sask. 10:15 am-1 am. (7:17 am-10 pm) CKNX b 100 Wingham, Ont. 10:30 am-1:30 pm; (7:30-10:30 am.; 4-5:30 pm)  CKTB a 100 F St. Catharines, Ont. CMCO a 150 Havana, Cuba KADA a 100 M Ada, Okla. KBTM a 100 D Jonesboro, Ark. 9 am-6:30 pm. (6 am-3:30 pm) KDNC z 100 (.25) P Lewistown, Mont. KELO z 100 N Sioux Falls, S. Dak. Noon-8 pm. (9 am-5 pm) KFJB a 100 (.25) Marshalltown, Iowa Noon-8 pm. (9 am-5 pm) KFXD a 100 (.25) Grand Junction, Colo. KGCI z 100 DP Coeur d'Alene, Idaho KGDE c 100 (.25) Fergus Ralls, Minn. KGFF a 100 (.25) Marshalltown, Iowa Noon-8 pm. (10-11:15 am) KGFF a 100 (.25) Little Rock, Ark. KGHI a 100 (.25) Marshfiled, Ore. KGUL z 100 DP Geenville, Tex. KMLB a 100 (.25) Marshfiled, Ore. KSUN a 100 (.25) San Luis Obispo, Calif. 11:30 am-3 am. (8:30 am-midnight) KVCV a 100 M Bellingham, Wash.  |           |        |                   |                        | 10 am-L. S.       | (7 am-L. S.)       |
| WOAI         a         50000         N         San António, Tex.         8:30 am-1230 am.         (5:30 am-9:30 pm)           1200 kcs. (249.9 m.)           CFGP         z         100         Grande Prairie, Alta.         10:15 am-1 am.         (7:17 am-10 pm)           CHAB         a         100         F         Moose Jaw. Sask.         10:15 am-1 am.         (7:17 am-10 pm)           CHGB         z         100         P         St. Anne de Pocatiere, P.Q.         10:30 am-1:30 pm;         (7:30-10:30 am.;         4-7:30 pm.           CKTB         a         100         F         St. Catharines, Ont.         10:30 am-1:30 pm;         (7:30-10:30 am.;         4-7:30 pm.           CKTB         a         100         M         Ada, Okla.         9 am-6:30 pm.         5:30 pm)           KADA         a         100         M         Ada, Okla.         9 am-6:30 pm.         (6 am-3:30 pm)           KELO         z         100         M         Noon-8 pm.         (6 am-3:30 pm)           KFJB         a         100         (.25)         Narshalltown, Iowa         Noon-8 pm.         (9 am-5 pm)           KFXD         a         100         (.25)         Fergus Ralls, Minn.         Noon-8 pm. <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>   |           |        |                   |                        |                   |                    |
| 1200 kcs. (249.9 m.)           CFGP z 100 Grande Prairie, Alta. CHAB a 100 F Moose Jaw, Sask. 210:15 am-1 am. (7:17 am-10 pm)           CHGB z 100 P St. Anne de Pocatiere, P.Q. CKNX b 100 Wingham, Ont. 10:30 am-1:30 pm; (7:30-10:30 am.; 4-7:30 pm. 5:30 pm)           CKTB a 100 F St. Catharines, Ont. CMCO a 150 Havana, Cuba           KADA a 100 M Ada, Okla. KBTM a 100 D Jonesboro, Ark. 9 am-6:30 pm. (6 am-3:30 pm)           KDNC z 100 (.25) P Lewistown, Mont. KELO z 100 N Sioux Falls, S. Dak. 1 pm-1 am. (10 am-10 pm)           KFJB a 100 (.25) Marshalltown, Iowa NFXJ a 100 (.25) Marshalltown, Iowa Noon-8 pm. (9 am-5 pm)           KFXD a 100 (.25) Fergus Ralls, Minn. KGCI z 100 DP Cocur d'Alene, Idaho           KGDE c 100 (.25) Fergus Ralls, Minn.           KGFH a 100 (.25) Little Rock, Ark. Greenville, Tex. KMLB a 100 (.25) Marshfield, Ore. KSUN a 100 (.25) Monroe, La. (.25) Monroe, La. (.25) KoOS a 100 (.25) Monroe, La. (.25) Koull, Ariz. 11 am-midnight. (8 am-9 pm)           KVCV a 100 M Bellingham, Nash.         Kedding, Calif. 11:30 am-3 am. (8:30 am-midnight)           KVCC a 100 M Bellingham, Wash.   | WOAI a    | 50000  | N                 | San Antonio, Tex.      |                   |                    |
| CFGP z 100 Grande Prairie, Alta.  CHAB a 100 F Moose Jaw, Sask. 10:15 am-1 am. (7:17 am-10 pm)  CHGB z 100 P St. Anne de Pocatiere, P.Q.  CKNX b 100 Wingham, Ont. 10:30 am-1:30 pm; (7:30-10:30 am.; 4-77:30 pm. 5:30 pm)  CKTB a 100 F St. Catharines, Ont.  CMCO a 150 Havana, Cuba  KADA a 100 M Ada, Okla.  KBTM a 100 D Jonesboro, Ark. 9 am-6:30 pm. (6 am-3:30 pm)  KDNC z 100 (.25) P Lewistown, Mont.  KELO z 100 N Sioux Falls, S. Dak. 1 pm-1 am. (10 am-10 pm)  KFJB a 100 (.25) Marshalltown, Iowa Noon-8 pm. (9 am-5 pm)  KFXD a 100 (.25) Farand Junction, Colo.  KGCI z 100 DP Cocur d'Alene, Idaho  KGCE c 100 (.25) Fergus Ralls, Minn.  KGEK a 100 (.25) Fergus Ralls, Minn.  KGFH a 100 (.25) Little Rock, Ark.  KGPH a 100 (.25) Marshalltown Iowa  KGVL z 100 DP Generville, Tex.  KMLB a 100 (.25) Marshield, Ore.  KSUN a 100 (.25) Marshield, Ore.  KSUN a 100 (.25) Marshield, Ore.  KSUN a 100 (.25) San Luis Obispo, Calif. 11:30 am-3 am. (8:30 am-midnight)  KVOC a 100 M Bellingham, Wash.   | WSAZ a    | 1000   | L                 | Huntington, W. Va.     | 9 am-7 pm.        | (6 am-4 pm)        |
| CHAB         a         100         F         Moose Jaw. Sask.         10:15 am-1 am.         (7:17 am-10 pm)           CHGB         z         100         P         St.Anne de Pocatiere, P.Q.         10:30 am-1:30 pm;         (7:30-10:30 am;         4-           CKTB         a         100         F         St. Catharines, Ont.         10:30 am-1:30 pm;         (7:30-10:30 am;         4-           CMCO         a         150          Havana, Cuba         KADA         a         100         M         Ada, Okla.         KBTM         a         100         Lewistown, Ark.         9 am-6:30 pm.         (6 am-3:30 pm)         KDNC         2 100         (.25) P         Lewistown, Mont.         1 pm-1 am.         (10 am-10 pm)         Marshalltown, Iowa         Noon-8 pm.         (9 am-5 pm)         Noon-8 pm.         (9 am-5 pm)         KFXD         a         100         (.25) Marshalltown, Iowa         Noon-8 pm.         (9 am-5 pm)         Noon-8 pm.         (9 am-5 pm)         KFXD         a         100         (.25) Grand Junction, Colo.         Noon-8 pm.         (9 am-5 pm)         KGEK         Color of Alene, Idaho         Noon-8 pm.         (10-11:15 am)         KGEK         A         100         (.25) Fergus Ralls, Minn.         Noon-8 pm.         (10-11:15 am)         Little   | 1200 kcs. | (249.9 | m.)               |                        |                   |                    |
| CHGB z 100 P St. Anne de Pocatiere, P.Q.  CKNX b 100 Wingham, Ont. 10:30 am-1:30 pm; (7:30-10:30 am.; 4-  CKTB a 100 F St. Catharines, Ont.  CMCO a 150 Havana, Cuba  KADA a 100 M Ada, Okla.  KBTM a 100 D Jonesboro, Ark. 9 am-6:30 pm. (6 am-3:30 pm)  KDNC z 100 (.25) P Lewistown, Mont.  KELO z 100 N Sioux Falls, S. Dak. 1 pm-1 am. (10 am-10 pm)  KFJB a 100 (.25) Nampa, Idaho  KFXD a 100 (.25) Nampa, Idaho  KFXJ a 100 (.25) Marshalltown, Iowa  KGCI z 100 DP Coeur d'Alene, Idaho  KGCI z 100 (.25) Fergus Ralls, Minn.  KGEK a 100 (.25) Fergus Ralls, Minn.  KGFH a 100 (.25) Little Rock, Ark.  KGVL z 100 DP Genville, Tex.  KMLB a 100 (.25) Marshfield, Ore.  KSUN a 100 (.25) Marshfield, Ore.  KSUN a 100 (.25) San Luis Obispo, Calif. 11:30 am-3 am. (8:30 am-midnight)  KVCV a 100 M Bellingham, Wash.   | CFGP z    |        | <u>.</u> 0        | Grande Prairie, Alta.  |                   | (= .=              |
| CKNX         b         100          Wingham, Ont.         10:30 am-1:30 pm; (7:30-10:30 am.; 4-77:30 pm.         (7:30-10:30 am.; 4-77:30 pm.         4-77:30 pm.         (7:30-10:30 am.; 4-77:30 pm.         4-77:30 pm.         5:30 pm)         4-77:30 pm.         5:30 pm.         6-77:30 pm.         7-7:30 pm.         7-  |           |        |                   | Moose Jaw, Sask.       | 10:15 am-1 am.    | (7:17 am-10 pm)    |
| CKTB         a         100         F         St. Catharines, Ont.           CMCO         a         150          Havana, Cuba           KADA         a         100         M         Ada, Okla.           KBTM         a         100         D         Jonesboro, Ark.         9 am-6:30 pm.         (6 am-3:30 pm)           KDNC         z         100         (.25)P         Lewistown, Mont.         1 pm-1 am.         (10 am-10 pm)           KELO         z         100         (.25)         Marshalltown, Iowa         Noon-8 pm.         (9 am-5 pm)           KFXD         a         100         (.25)         Nampa, Idaho         Noon-8 pm.         (9 am-5 pm)           KFXD         a         100         (.25)         Grand Junction, Colo.         Grand Junction, Colo.           KGCI         z         100         DP         Cocur d'Alene, Idaho         Grand Junction, Colo.   |           |        | -                 |                        | 10:30 am-1:30 pm; | (7:30-10:30 am; 4- |
| CMCO         a         150          Havana, Cuba           KADA         a         100         M         Ada, Okla.         Nada, Okla.         9 am-6:30 pm.         (6 am-3:30 pm)           KBTM         a         100         D         Jonesboro, Ark.         9 am-6:30 pm.         (6 am-3:30 pm)           KDNC         z         100         (.25) P         Lewistown, Mont.         1 pm-1 am.         (10 am-10 pm)           KFLO         z         100         N.         Sioux Falls, S. Dak.         1 pm-1 am.         (10 am-10 pm)           KFJB         a         100         (.25)         Marshalltown, Iowa         Noon-8 pm.         (9 am-5 pm)           KFXJ         a         100         (.25)         Nampa, Idaho         Noon-8 pm.         (9 am-5 pm)           KGCI         z         100         (.25)         Grand Junction, Colo.         Noon-8 pm.         (9 am-5 pm)           KGGE         c         100         (.25)         Fergus Ralls, Minn.         Noon-8 pm.         (10-11:15 am)           KGEK         a         100         (.25)         Fergus Ralls, Minn.         Noon-8 pm.         (10-11:15 am)           KGFI         a         100         (.25)         Litt   | CKTB 4    | 100    | E                 | St Catharines Ont      | 7-7:30 pm.        | 5:30 pm)           |
| KADA         a         100         M         Ada, Okla.         Solia.         M         Ada, Okla.         Manage of the processor   |           |        | _                 |                        |                   |                    |
| KDNC         z         100         (.25) P         Lewistown, Mont.         1 pm-1 am.         (10 am-10 pm)           KELO         z         100         (.25)         Marshalltown, Iowa         Noon-8 pm.         (9 am-5 pm)           KFXD         a         100         (.25)         Mampa, Idaho         Noon-8 pm.         (9 am-5 pm)           KFXJ         a         100         (.25)         Grand Junction, Colo.         KGCI         Colo.         KGCI         Colo.         Col  |           |        |                   | Ada, Okla.             | 0 (-20            | (6 am 2:20 pm)     |
| KELO         z         100         N         Sioux Falls, S. Dak.         1 pm-1 am.         (10 am-10 pm)           KFJB         a         100         (.25)         Marshalltown, Iowa         Noon-8 pm.         (9 am-5 pm)           KFXD         a         100         (.25)         Nampa, Idaho         (9 am-5 pm)           KFXJ         a         100         (.25)         Grand Junction, Colo.         KGCC           KGDE         c         100         (.25)         Fergus Ralls, Minn.         KGEC           KGFK         a         100         (.25)         Fergus Ralls, Minn.         Sterling, Colo.         1-2:15 pm.         (10-11:15 am)           KGFIJ         a         100         (.25)         Little Rock, Ark.         KGVL         KGVL         Z         100         DP         Greenville, Tex.         KMLB         A         100         (.25)         Monroe, La.         KOOS         A         100         (.25)         Marshfield, Ore.         KSUN         A         11 am-midnight.         (8 am-9 pm)         KVCV         a         100         (.25)         San Luis Obispo, Calif. 11:30 am-3 am.         (8:30 am-midnight)           KVOS         b         100         M         Bellingham. Wash. <t< td=""><td></td><td></td><td></td><td>Lewistown, Mont.</td><td>9 am-6:30 pm.</td><td>(6 am-5.50, pm)</td></t<>  |           |        |                   | Lewistown, Mont.       | 9 am-6:30 pm.     | (6 am-5.50, pm)    |
| KFXD         a         100         (.25)         Nampa, Idaho           KFXJ         a         100         (.25)         Grand Junction, Colo.           KGCI         z         100         DP         Coeur d'Alene, Idaho           KGDE         c         100         (.25)         Fergus Ralls, Minn.           KGEK         a         100         L         Sterling, Colo.         1-2:15 pm.         (10-11:15 am)           KGFI         a         100         (.25)         Little Rock, Ark.         KGHI.         KGVI.         z           KGVL         z         100         DP         Greenville, Tex.         CROS         A stantield, Ore.           KSUN         a         100         (.25)         Marshfield, Ore.         KVCV         a         100         (.25)         Livell, Ariz.         11 am-midnight.         (8 am-9 pm)           KVCV         a         100         (.25)         San Luis Obispo, Calif. 11:30 am-3 am.         (8:30 am-midnight)           KVOS         b         100         M         Bellingham. Wash.         Bellingham. Wash.   | KELO z    | 100    | N                 | Sioux Falls, S. Dak.   |                   |                    |
| KFXJ         a         100         (.25)         Grand Junction, Colo.           KGCI         z         100         DP         Coeur d'Alene, Idaho           KGDE         c         100         (.25)         Fergus Ralls, Minn.           KGEK         a         100         L         Sterling, Colo.         1-2:15 pm.         (10-11:15 am)           KGFJ         a         100          Los Angeles, Calif.         KGVL         KGVL         z         100         DP         Greenville, Tex.         KMLB         KMLB         a         100         (.25)         Monroe, La.         KOOS         a         100         (.25)         Marshfield, Ore.         KSUN         a         100         (.25)         Lowell, Ariz.         11 am-midnight.         (8 am-9 pm)           KVCV         a         100          Redding, Calif.         KUS Obstoye, Calif. 11:30 am-3 am.         (8:30 am-midnight)           KVOS         b         100         M         Bellingham. Wash.         Mellingham. Wash.         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100   |           |        | (.25)             |                        | Noon-8 pm.        | (9 am-5 pm)        |
| KÖDE         c         100         (.25)         Fergus Ralls, Minn.         (10-11:15 am)           KGFK         a         100         L         Sterling, Colo.         1-2:15 pm.         (10-11:15 am)           KGFI         a         100          Los Angeles, Calif.           KGHI         a         100         (.25)         Little Rock, Ark.           KGVL         z         100         DP         Greenville, Tex.           KMLB         a         100         (.25)         Monroe, La.           KOOS         a         100         (.25)         Marshfield, Ore.           KSUN         a         100         (.25)         Lowell, Ariz.         11 am-midnight.         (8 am-9 pm)           KVCV         a         100         (.25)         San Luis Obispo, Calif.         11:30 am-3 am.         (8:30 am-midnight)           KVOS         b         100         M         Bellingham. Wash.         11:2:15 pm.         (10-11:15 am)   |           | 100    | (.25)             | Grand Junction, Colo.  |                   |                    |
| KGEK         a         100         L         Sterling, Colo.         1-2:15 pm.         (10-11:15 am)           KGFJ         a         100          Los Angeles, Calif.         KGHI         KGUL         2         100         C25)         Little Rock, Ark.         KGVL         KGVL         2         100         DP         Greenville, Tex.         KMIB         An Incompany         An Incompany         KOOS         a         100         (.25)         Marshfield, Ore.         KSUN         An Incompany         An Incompany         (8 am-9 pm)         KVCV         An Incompany         KVCV         An Inc   |           |        |                   |                        |                   |                    |
| KGFI         a         100          Los Angeles, Calif.           KGHI         a         100         (.25)         Little Rock, Ark.           KGVL         z         100         DP         Greenville, Tex.           KMLB         a         100         (.25)         Monroe, La.           KOOS         a         100         (.25)         Marshfield, Ore.           KSUN         a         100         (.25)         Lowell, Ariz.         11 am-midnight.         (8 am-9 pm)           KVCV         a         100          Redding, Calif.         Redding, Calif.         11:30 am-3 am.         (8:30 am-midnight)           KVOS         b         100         M         Bellingham. Wash.         Wash.   |           |        |                   |                        | 1-2:15 pm.        | (10-11:15 am)      |
| KOOS       a       100       (.25)       Marshfield, Ore.         KSUN       a       100       (.25)       Lowell, Ariz.       11 am-midnight.       (8 am-9 pm)         KVCV       a       100        Redding, Calif.         KVEC       a       100       (.25)       San Luis Obispo, Calif. 11:30 am-3 am.       (8:30 am-midnight)         KVOS       b       100       M       Bellingham. Wash.   |           |        |                   | Los Angeles, Calif.    | •                 |                    |
| KOOS       a       100       (.25)       Marshfield, Ore.         KSUN       a       100       (.25)       Lowell, Ariz.       11 am-midnight.       (8 am-9 pm)         KVCV       a       100        Redding, Calif.         KVEC       a       100       (.25)       San Luis Obispo, Calif. 11:30 am-3 am.       (8:30 am-midnight)         KVOS       b       100       M       Bellingham. Wash.   |           |        |                   | Little Kock, Ark.      |                   |                    |
| KOOS       a       100       (.25)       Marshfield, Ore.         KSUN       a       100       (.25)       Lowell, Ariz.       11 am-midnight.       (8 am-9 pm)         KVCV       a       100        Redding, Calif.         KVEC       a       100       (.25)       San Luis Obispo, Calif. 11:30 am-3 am.       (8:30 am-midnight)         KVOS       b       100       M       Bellingham. Wash.   |           | 100    | (.25)             | Monroe, La.            |                   |                    |
| KVCV a 100 Redding, Calif.<br>KVEC a 100 (.25) San Luis Obispo, Calif. 11:30 am-3 am. (8:30 am-midnight)<br>KVOS b 100 M Bellingham, Wash.   |           |        |                   | Marshfield, Ore.       | 11 am midnight    | (0 am-0 pm)        |
| KVEC a 100 (.25) San Luis Obispo, Calif. 11:30 am-3 am. (8:50 am-midnight)<br>KVOS b 100 M Bellingham, Wash.   |           |        | (.25)             | Redding, Calif.        | 11 am-manight.    | (8 am-y pm)        |
| KWG a 100 M Bellingham, Wash. KWG a 100 N Stockton, Calif.   | KVEC a    | 100    |                   | San Luis Obispo, Calif | . 11:30 am-3 am.  | (8:30 am-midnight) |
| RWO a 100 IV Otorion, Carlo  | KVOS b    |        |                   | Bellingham, Wash.      |                   |                    |
| KWNO z 250 D Winona, Minn.   | KWNO z    | 250    | Ď                 | Winona, Minn.          |                   |                    |
| WABI a 100 (.25) Bangor, Maine WAIM a 100 C Anderson, S. C.  |           |        | (.25)             | Bangor, Maine          |                   |                    |
| WAIM a 100 C Anderson, S. C.<br>WAYX a 100 (.25) Waycross, Ga.   |           |        |                   | Waveross, Ga.          | ,                 |                    |
| WBBZ a 100 M(.25) Ponca City, Okla   | WBBZ a    | 100    | $\mathbf{M}(.25)$ | ) Ponca City, Okla     |                   |                    |
| WBHP a 100 Huntsville, Alta.<br>WBNO a 100 2 New Orleans, La.  |           |        |                   |                        |                   |                    |
| WCAT a 100 D Rapid City, S. Dak. Silent. (Silent)  |           | 100    | D                 | Rapid City, S. Dak.    | Silent.           | (Silent)           |
| WCAX a 100 (.25) Burlington, Vt.   | WCAX a    |        |                   | Burlington, Vt.        | 10 am 2 pm        | (7 am-Noon )       |
| WCLO a 100 (.25) Janesville, Wis. 10 am-3 pm. (7 am-Noon.)<br>WCPO a 100 (.25) Cincinnati, Ohio 8 am11 pm. (5 am-8 pm)   |           |        |                   | Cincinnati, Ohio       |                   |                    |
| WISM 2 100 P Superior Wis.   | WDSM z    | 100    | P                 | Superior, Wis.         |                   | . ,                |
| WENY z 250 DP Elmira, N. Y.  |           |        |                   | Elmira, N. Y.          |                   |                    |
| WEST a 100 3(.25) Easton, Pa.<br>WFAM a 100 4 South Bend, Ind.   |           |        |                   | South Bend, Ind.       |                   |                    |

|   | SUNDA                                       | AY T                  | ME                                     |  | Eastern Standar   | d                                    | (Pacific Standard)                   |
|---|---|-----------------------|--|--|---|--------------------------------------|--------------------------------------|
|   | WFTC<br>WHBC<br>WHBY<br>WIBX<br>WIL<br>WJBC | a<br>a<br>a<br>a<br>a | 100<br>100<br>100<br>100<br>100<br>100 | (.25)<br>(.25)<br>(.25)<br>C(.25)<br>(.25)<br>5(.25) | Kinston, N. C. Canton, Ohio Green Bay, Wis. Utica, N. Y. St. Louis, Mo. Bloomington, Ill. | 10 am11 pm.                          | (7 am-8pm)                           |
|   | WJBL  | a                     | 100                                    | 5  | Decatur, Ill.   | 8-10 am; 1:30-4 pm;                  | (5-7 am; 10:30 am-<br>1 pm)          |
|   | WJHL<br>WJHL                                | a<br>z                | 100<br>100                             | 2<br>(.25) P   | New Orleans, La.<br>Johnson City, Tenn.   | 8:30 pm-1 am.                        | (5:30-10 pm)                         |
|   | WJNO<br>WJRD                                | a                     | 100<br>250                             | C(.25)   | W. Palm Beach, Fla.<br>Tuscaloosa, Ala.   | 2-11 am; 1-6 pm; 10 pm-1 am.         | 11 pm-8 am; 10 am-<br>3 pm; 7-10 pm) |
|   | WKBO<br>WLVA                                | a<br>a<br>a           | 100<br>100                             | 3(.25)<br>(.25)                                      | Harrisburg, Pa.<br>Lynchburg, Va.<br>High Point, N C.                                     | 8:30 am-midnight.<br>Noon-6 pm.      | (5:30 am-9 pm)<br>(9 am-3 pm)        |
|   | WMFR<br>WMPC                                | a<br>a                | 100<br>100                             | D<br>(.25)   | High Point, N C.<br>Lapeer, Mich.   | 7:45 am-7 pm.                        | (4:45 am-4 pm)                       |
|   | WOLS  | z                     | 100 -                                  | D  | Florence, S. C.   | 9 am-L. S.                           | 8 am-11 pm.                          |
|   | WRBL<br>WSAL                                | a<br>z                | 100<br>250                             | (.25)<br>D   | Columbus, Ga.   | 10 am-7 pm.                          | (7 am-4 pm)                          |
|   | WTHT  | a                     | 100                                    | м  | Salisbury, Md.<br>Hartford, Conn.   |                                      |                                      |
|   | WTOL  | a                     | 100                                    | D<br>4   | Toledo, Ohio<br>Hammond, Ind.   | ,                                    |                                      |
|   | WWAE  | a                     | 100                                    | 4  | riammond, ind.  |                                      |                                      |
|   | <b>1210</b>                                 | kcş.                  | (247.8                                 | m.)  |   |                                      |                                      |
|   | CHLT  | z                     | 100                                    |  | Sherbrooke, P. Q.   |                                      |                                      |
|   | CJCS  | а                     | 50                                     |  | Stratford, Ont.<br>Aklavik, N. W. T.  | ,                                    |                                      |
|   | CJCU<br>CKBI                                | z<br>a                | 50<br>100                              | F  | Prince Albert, Sask.  |                                      |                                      |
|   | CKCH  | a                     | 100                                    | F  | Hull, P. Q.   |                                      |                                      |
|   | CKMC  | a                     | 50                                     |  | Cobalt, Ont.<br>Santa Clara, Cuba   |                                      |                                      |
|   | CMHI<br>KALB                                | a<br>a                | 250<br>100                             | (.25)  | Alexandria, La.   |                                      |                                      |
|   | KANS  | a                     | 100                                    | N  | Wichita, Kans.  |                                      |                                      |
|   | KASA  | c                     | 100<br>100                             |  | Elk City, Okla.<br>Devils Lake, N Dak.  |                                      |                                      |
|   | KDLR<br>KDON                                | a<br>⋅z               | 100                                    | M  | Monterey, Calif.  |                                      |                                      |
|   | KFJI  | a                     | 100                                    | CNICAS   | Klamath Falls, Ore.   |                                      |                                      |
|   | KFOR<br>K <b>F</b> PW                       | a<br>a                | 100<br>100                             | CM (.2)  | ) Lincoln, Nebr.<br>Fort Smith, Ark.  |                                      |                                      |
|   | KFVS  | a                     | 100                                    | 5(.25)   | Cape Girardeau, Mo.   | 10 am-3 pm; 6-9:35                   | (7 am-noon; 3-6:35                   |
|   | KFXM  | a                     | 100                                    | 2 <b>M</b>   | San Bernardino, Calif.  | pm.<br>4-9:45 pm; midnight<br>-3 am. | pm) (1-6:45 pm; 9 pm- midnight)      |
|   | KGLO  | a                     | 100<br>100                             | C(.25)<br>M  | Mason City, Iowa  | Silent.                              | (Silent)                             |
|   | K <b>G</b> Y<br>KHBG                        | a<br>z                | 100                                    | Ď  | Olympia, Wash.<br>Okmulgee, Okla.   | Silent.                              | (Silent)                             |
|   | KIUL  | а                     | 100                                    |  | Garden City, Kans.  | Noon-8 pm.                           | (9 am-5 pm)                          |
|   | KLAH<br>KOCA                                | a<br>a                | 100<br>100                             | (.25)<br>(.25)                                       | Carlsbad, N. Mex.<br>Kilgore, Texas<br>Helena, Mont.                                      | 11 am-9 pm.                          | (8 am-6 pm)                          |
|   | KPFA  | a                     | 100                                    | N(.25)   | Helena, Mont.   | 1 pm—midnight.                       | (10 am-9 pm)                         |
|   | KPPC  | a                     | 100                                    | 2  | Pasadna, Calif.   |                                      | ,                                    |
|   | KROY<br>KVSO                                | a<br>a                | 100<br>100                             | CD<br>M(.25)   | Sacramento, Calif. Ardmore, Okla.   |                                      |                                      |
|   | KWJB  | z                     | 100                                    | (.25)  | Ardmore, Okla.<br>Ardmore, Okla.  |                                      |                                      |
|   | WALR  | a                     | 100                                    |  | Zanesville, Ohio  | 8 am-midnight.                       | (5 am-9 pm)                          |
|   | WBAX  | a<br>a                | · 100                                  | M<br>S   | Wilkes-Barre, Pa.<br>Richmond, Va.  |                                      |                                      |
|   | WBBL<br>WBLY                                | a                     | 100                                    | D  | Lima, Ohio<br>Red Bank, N. J.   | ***                                  |                                      |
|   | WBRB  | a                     | 100                                    | 3  | Red Bank, N. J.   | Silent.                              | (Silent)                             |
|   | WCOT<br>WCOT                                | a                     | 100<br>100                             | N  | Columbus, Ohio<br>Lewiston, Maine   | 8 am-1 am.                           | (5 am-10 pm)                         |
|   | WCOV  | z                     | 100                                    | DP   | Montgomery, Ala.  |                                      |                                      |
|   | WCRW  | a                     | 100                                    | 4  | Chicago, Ill.   | Noon-3 pm; 6-8 pm.                   | (9 am - noon; 3 - 5<br>pm)           |
| b | WEBQ  | a                     | 100                                    | 5(.25)   | Harrisburg, Ill.  | 7 - 10 am; 5 - 10:30 pm.             | (4-7 am; 2-7:30 pm)                  |

| SUNDA                | Y TI        | ME                   |                    | Eastern Standar   | d   | (Pacific Standard)                            |
|----------------------|-------------|----------------------|--------------------|---|---|---|
| WEDC                 | a           | 100                  | 4                  | Chicago, Ill.   | 9:30-11 am; 4:30-6<br>pm.<br>8-9 pm; 11 pm-mid-<br>night. | (6:30-8 am; 1:30-3<br>pm)<br>(5-6 pm; 8-9 pm) |
| WFAS<br>WFOY         | a,<br>a     | 100<br>100           | 3<br>(.25)         | White Plains, N. Y. St. Augustine, Fla.                 | 8 am-8:45 pm.   | (5 am-5:45 pm)                                |
| WGBB<br>WGCM         | a<br>a      | 100<br>100           | 3<br>(.25)         | Freeport, N. Y.<br>Gulfport, Miss.                      |   |   |
| WGNY<br>WGRM<br>WHAI | a<br>a<br>z | 100-<br>100<br>250   | DP                 | Newburgh, N. Y.<br>Grenada, Miss.<br>Greenfield, Mass.  | 8 am-L. S.  | (5 am-L. S.)                                  |
| WHBF<br>WHBU<br>WIBU | a<br>a      | 100<br>100<br>100    | (.25)<br>(.25)     | Rock Island, Ill.<br>Anderson, Ind.<br>Poynette, Wis.   |   |   |
| WJBY                 | a<br>a      | 100                  | (.25)<br>(.25)     | Gadsden, Ala.   | 7 am-11 pm.   | (4 am-8 pm)                                   |
| W/IEI<br>WJIM        | a<br>z      | 100<br>100           | B(.25)             | Hagerstown, Md.<br>Lansing, Mich.                       | 9 am-10 pm.   | (6 am-7 pm)                                   |
| WITN                 | z<br>a      | 250<br>100           | DP<br>B(.25)       | Rice Lake, Wis.<br>Jamestown, N. Y.                     |   |   |
| wjw                  | a           | 100                  | (.25)              | Akron, Ohio   | 9 am-midnight.  | (6 am-9 pm)                                   |
| WKOK<br>WMFG         | a<br>a      | 100<br>100           | Ĺ<br>(.25)         | Sunbury, Pa.<br>Hibbing, Minn.                          |   |   |
| WOCR<br>WOMT         | z<br>a      | 100<br>100           | (.25)P             | Cape Cod, Mass.<br>Manitowoc, Wis.                      |   |   |
| Y Lann               | a           | 100                  | Ď .                | Thomasville, Ga.  | 9 am-3 pm.  | (6 am-noon)                                   |
| WPIV<br>WRAL         | z<br>z      | 100<br>100           | (.25) P<br>(.25) P | Petersburg, Va. Raleigh. N. C. Rochester, N. Y          |   |   |
| WSAY                 | z           | 100                  | (.25)              | Rochester, N. Y   |   |   |
| WSBC<br>WSIX         | a           | 100<br>100           | (.25)              | Chicago, Ill<br>Nashville, Tenn.                        |   |   |
| WSNJ                 | z           | 100                  | Ď                  | Nashville, Tenn.<br>Bridgeton, N. J.<br>Charlotte, N. C |   |   |
| WSOC<br>WTAX         | a<br>a      | 100                  | N(.25)             | Charlotte, N. C<br>Springfield, III                     | 9 am-midnight.  | (6 am-9 pm)                                   |
| WTMA                 | z           | 100                  | (.25)P             | Charleston, S. C.                                       |   |   |
| XEE<br>XEFV          | a<br>a      | 50<br>50             |                    | Durango. Dgo.<br>Juarez, Chih.                          | *   |   |
| XETH                 | a           | 100                  |                    | Puebla, Pue.  |   |   |
| 1220                 | kcs.        | <b>(24</b> 5.8       | m.)                |   |   |   |
| CMJE                 | z           | 50                   |                    | Camaguey, Cuba<br>Lawrence, Kans.                       |   |   |
| KFKU<br>KTMS         | a<br>z      | 1000<br>5 <b>00</b>  | a(5)<br>B          | Santa Barbara, Calif.                                   |   |   |
| KTW                  | a           | 1000                 | 2S                 | Seattle, Wash.  | 011   |   |
| KWSC<br>WCAD         | a<br>a      | 1000<br>5 <b>0</b> 0 | 2(5)<br>D          | Pullman, Wash.<br>Canton, N. Y.                         | Silent.<br>Silent.  | (Silent)<br>(Silent)                          |
| WCAE                 | a           | 1000                 | MR(5)              | Pittsburgh, Pa.   | 8 am-1 am.  | (5 am-10 pm)                                  |
| WDAE                 | a           | 1000<br>1000         | C(5)<br>Ba(5)      | Tampa, Fla.<br>Lawrence, Kans.                          |   | • ,   |
| ,WREN<br>XEBL        | a<br>a      | 50                   | Da())              | Mazatlan, Sin.  |   |   |
| XEDA                 | z           | 200                  |                    | Gral. Anaya, D. F.                                      |   |   |
| XETF                 | а           | 12                   | • , • •            | Veracruz, Ver.  |   |   |
| <b>12</b> 30         | kcs.        | <b>(24</b> 3.8       | m.)                |   |   | •   |
| CMBC                 | z           | 150                  | NT.                | Hayana, Cuba  | 1   |   |
| KGBX<br>KGGM         | a<br>a      | 500<br>1000          | N<br>              | Springfield, Mo.<br>Albuquerque, N. Mex.                | 10 am-1 am  | (7 am-10 pm)                                  |
| KYA                  | a           | 1000                 | (5.)               | San Francisco, Calif.                                   | was a pill,   | (/ аш-то рш)                                  |
| WFBM                 | a           | 1000                 | C(5)               | Indianapolis, Ind.                                      |   |   |
| WNAC<br>WOL          | a<br>a      | 1000<br>1000         | R(5)<br>M          | Boston, Mass.<br>Washington, D.C.                       |   |   |
| XECA                 | z           | 2:50                 |                    | Tampico, Tamps  |   |   |
| XEG                  | z           | 250                  |                    | Monterrey, N. L.  |   |   |

| UND          | AY TI        | ME                  |               | Eastern Standar  | d                  | (Pacific Standard)  |
|--------------|--------------|---------------------|---------------|--|--------------------|---------------------|
| 1240         | kcs.         | (241.8              | m.)           |  |                    | **                  |
| СЈСВ         | a            | 1000                | F             | Sydney, N. S.  |                    | (7-8:30 am; 11:30   |
| СМНВ         | z            | 50                  |               | Sancti Spiritus, Cuba  | 11 pm.             | am-8 pm)            |
| KGCU         | a            | 250                 |               | Mandan, N. Dak.  |                    |                     |
| <b>CLPM</b>  | a            | 250                 | 1XZ           | Minot, N. Dak.   |                    |                     |
| KTAT         | a            | 1000                | M             | Mandan, N. Dak. Minot, N. Dak. Fort Worth, Tex. Twin Falls, Idaho San Juan, P. R.  | _                  |                     |
| KTFI         | $\mathbf{a}$ | 1000                | N             | Twin Falls, Idaho  | 9 am-1 am.         | (6 am-10 pm)        |
| WKAQ         | a            | 1000<br>1000        | в             | Datroit Mich   |                    |                     |
| WXYZ<br>KEBO | a<br>z       | 50                  | ь             | Detroit, Mich.<br>Chihuahua, Chih.   |                    |                     |
| XEME         | z            | 50                  |               | Merida, Yuc.   | 1                  | <i>i</i> ,          |
| 1050         | lzas         | (239.9              | m \           |  | . "                |                     |
| 1200         | KCS.         | (200.0              | ш.)           |  | 31                 |                     |
| CMKC         | a            | 150                 |               | Santiago, Cuba<br>Tegucigalpa, Hond.<br>Long Beach, Calif.                         |                    | ,                   |
| IRN          | c            | 50                  | • • • •       | Tegucigalpa, Hond.   |                    |                     |
| CFOX         | a            | 1000<br>250         | MY(s          | Vakima Wash  |                    |                     |
| KIT<br>KXOK  | a<br>z       | 1000                | P P           | Yakima, Wash.<br>St. Louis, Mo.  |                    |                     |
| WAIR         | a            | 250                 | Ď             | Winston-Salem, N. C.   | 8 am-L. S.         | (5 am-L.S.)         |
| <b>VDSU</b>  | a            | 1000                | В             | New Orleans, La.   |                    |                     |
| <b>VHBI</b>  | a            | 1000                | (2.5)         | Newark, N. J.  | •                  |                     |
| WKST         | Z            | 250                 | DP            | St. Louis, Mo. Winston-Salem, N. C. New Orleans, La. Newark, N. J. New Castle, Pa. |                    |                     |
| VMRO         | z            | 250                 | DP            | Aurora, III.   |                    |                     |
| VNEW         |              | 1000                | (2.5)<br>B(5) | New York, N. Y.<br>Minneapolis, Minn.  | 9 am-1 am.         |                     |
| WTCN<br>KEAI | a<br>z       | 1000<br>500         |               | Mexico City, D. F.   | , am 1 am          |                     |
|              |              |                     |               |  |                    |                     |
| 1260         | KCS.         | (238 n              | 1.)           |  |                    |                     |
| MX           | a            | 1000                |               | Havana, Cuba<br>Missoula, Mont.  | 8 am-1 am.         |                     |
| cgvo         | a            | 1000                | C(5)          | Missoula, Mont.  |                    |                     |
| HSL          | a            | 250<br>1 <b>000</b> | BM(5)         | Chico, Calif.<br>Omaha, Nebr.  |                    |                     |
| COIL<br>CPAC | a            | 500                 | D             | Port Arthur. Tex.  |                    |                     |
| CRGV         | a            | 1000                | MN            | Weslaco, Texas   | 8 am-midnight.     | (5 am-9 pm)         |
| <b>AOU</b>   | a            | 5000                | D             | Siloam Springs, Ark.   | 7 am-L. S.         | (3 am-L. S.)        |
| <b>VOA</b>   | а            | 10 <b>0</b> 0       | ::::          | Tucson, Ariz.  |                    |                     |
| WHIO         |              | 1000                | C(5)          | Dayton, Ohio   | 9 am-midnight      | (6 am-9 pm)         |
| WNBX<br>WTOC | a<br>a       | 500<br>1000         | CMJX(         | 1) Springfield, Vt. Savannah, Ga.  | y am-midnight      | (o am-9 pm)         |
|              |              |                     | -             | Caraman, Car   |                    | 5                   |
| L270         | kcs.         | (236.1              | m.)           |  |                    |                     |
| CMHD         | ь            | 250                 |               | Caibarien, Cuba<br>Decorah, Iowa<br>Seattle, Wash.                                 |                    | +                   |
| <b>CGCA</b>  | а            | 100                 | 2D            | Decorah, Iowa  |                    |                     |
| KOL          | a            | 1000                | M(5)          | Seattle, Wash.   | 10 am-1:45 am.     | (7 am-10:45 pm)     |
| CVOR         | a            | 1000                | C<br>2D       | Colorado Springs, C.<br>Decorah, Iowa  | 10 am-1.45 am.     | (/ am-10.4) pm)     |
| WLC          | a            | 100<br>500          | DNA           | Grand Rapids, Mich.  |                    |                     |
| WASH<br>WFBR | a<br>a       | 500                 | R(1)          | Baltimore, Md.   | 9 am-midnight.     | (6 am-9 pm)         |
| WIDX         | a            | 1000                | R(5)          | Jackson, Miss.   |                    |                     |
| WOOD         |              | 500                 | Na            | Grand Rapids, Mich.  |                    |                     |
| XEBB         | a            | 250                 |               | Jalapa, Ver.   |                    |                     |
| XEXE         | z            | 17                  | • • • •       | Texcoco, D. F.   |                    | ,                   |
| <b>L280</b>  | kcs.         | (234.2              | m.)           | 24.  | •                  |                     |
| смко         | z            | 200                 |               | Holguin, Cuba  |                    |                     |
| KFBB         | a            | 1000                | C(5)          | Great Falls, Mont.   | 11 am-midnight.    | (8 am- 9 pm)        |
| <b>CLS</b>   | a            | 250                 |               | Oakland, Calif.<br>Camden, N. J.   | 10.15 10.10        | ,                   |
| TOTAL SE     | a            | 500                 | 1             | Camden, N. J.  | 10:15 am-12:30 pm; | (/:15-9:30 am; nooi |
| WCAM         |              |                     |               |  | 3-5 pm.            | -2 pm)              |

|  | NO.   | RTH A   | MERIC  | CAN B. C. STATI  | ONS BY FREQU   | JENCIES   |
|--|---|---|--|--|--|---|
| SUNDA  | Y T   | ME  |  | Eastern Standar  | ď  | (Pacific Standard)  |
| WDOD   | а   | 1000  | C(5)   | Chattanooga, Tenn.   | 7:30 am-1 am.  | (4:30 am-10 pm)   |
| WIBA   | a   | 1000  | N(5)   | Madison, Wis.<br>Worcester, Mass.  | 8 am-1 am.   | (5 am-10 pm)  |
| WORC<br>WRR  | a   | 500<br>500  | C<br>M   | Worcester, Mass.<br>Dallas, Texas  | 8:45 am-11:15 pm.  | (5:45 am-8:15 pm)   |
| WTNJ   | a<br>a  | 500   | l  | Trenton, N. J.   |  |   |
| XEMX   | z   | 100   | • • • •  | Mexico City, D. F.   |  |   |
| 1290 1   | kcs.  | (232.4  | m.)  |  |  |   |
| CMCG<br>CMJK   | a<br>a  | 150<br>200  | • • • •  | Havana, Cuba   |  |   |
| KDYL   | a   | 1000  | ŘX   | Camaguey, Cuba<br>Salt Lake City, Utah   |  |   |
| KLCN   | а   | 100   | D  | Blytheville, Ark.  |  |   |
| KTRH<br>WEBC   | a<br>a  | 1000<br>1000  | C(5)<br>N(5)   | Houston, Texas<br>Duluth, Minn.  | 9 am-1 am.<br>9 am-1 am.   | (6 am-10 pm)<br>(6 am-10 pm)  |
| WIAS   | a   | 1000  | C(5)   | Pittsburgh, Pa.  | , am-1 am.   | (o am-10 pm)  |
| WNBZ   | a   | 100   | D  | Saranac Lake, N. Y.  | 9:30 am-2 pm.  | (6:30-11 am)  |
| WNEL   | a   | 1000  | (2.5)  | San Juan, P. R.  |  |   |
| 1300 1   | ccs.  | (230.6  | m.)  |  |  |   |
| CMHX<br>KALE   | a<br>a  | 200<br>1000   | <br>М  | Cienfuegos, Cuba<br>Portland, Ore.   | 11 am-3 am.  | (8 am-midnight)   |
| KFAC   | a   | 1000  |  | Los Angeles, Calif   |  | (o am midnight)   |
| KFH  | а   | 1000  | C(5)   | Wichita, Kans.   | 9 am-1 am.   | (6 am-10 pm)  |
| WBBR<br>WEVD   | <b>a</b><br>a   | 1000<br>1000  | 1<br>1   | Brooklyn, N. Y.<br>New York, N. Y.   | 8-11 am; 3-8 pm.   | (5-8 am; noon-5 pm)   |
| WFAB   | a   | 1000  | 1  | New York, N. Y.<br>New York, N. Y.   |  |   |
| WFBC<br>WHAZ   | a<br>a  | 1000<br>1000  | N(5)   | Greenville, S. C.<br>Troy, N. Y.   | 6:30 am-midnight.  | (3:30 am-9 pm)  |
| WHBL   | a   | 250   |  | Sheboygan, Wis.  | 9 am-midnight.   | (6 am-9 pm)   |
| 1310   | kcs.  | 228.9   | m.)  |  |  |   |
|  |   |   | •  | <u> </u>   |  |   |
| снск   | a   | 50  |  | Charlottetown, P.E.I.  |  |   |
| CHCK<br>CJKL   | а   | 50<br>1 <b>0</b> 0  | <br>F  | Charlottetown, P.E.I.<br>North Bay, Ont.   |  |   |
| CHCK<br>CJKL<br>CJLS<br>CKCV   |   | 50<br>100<br>100<br>100   | <br>F<br>F<br>F  | North Bay, Ont.<br>Yarmouth, N. S.<br>Ouebec, P. O.  |  |   |
| CJKL<br>CJLS<br>CKCV<br>KAND   | a<br>a<br>a<br>z  | 50<br>100<br>100<br>100<br>100  | F<br>F<br>F<br>DM  | North Bay, Ont.<br>Yarmouth, N. S.<br>Quebec, P. O.<br>Corsicana, Tex.   |  |   |
| CJKL<br>CJLS<br>CKCV<br>KAND<br>KARM   | a<br>a<br>a<br>ż<br>a   | 50<br>100<br>100<br>100<br>100<br>100   | F<br>F<br>F<br>DM<br>C   | North Bay, Ont.<br>Yarmouth, N. S.<br>Quebec, P. O.<br>Corsicana, Tex.   |  |   |
| CJKL<br>CJLS<br>CKCV<br>KAND   | a<br>a<br>a<br>z  | 50<br>100<br>100<br>100<br>100<br>100<br>100  | F<br>F<br>F<br>DM<br>C<br>(.25) P  | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas City, Kans.   | 9:45 am-1 am.  | (6:45 am-10 pm)   |
| CJKL<br>CJLS<br>CKCV<br>KAND<br>KARM<br>KBND<br>KCKN<br>KCRJ   | a<br>a<br>z<br>a<br>z<br>a<br>z   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100   | F<br>F<br>F<br>DM<br>C<br>(.25)P   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz.   | 9:45 am-1 am.  | (6:45 am-10 pm)   |
| CJKL<br>CJLS<br>CKCV<br>KAND<br>KARM<br>KBND<br>KCKN<br>KCRJ<br>KFPL   | a<br>a<br>z<br>a<br>z<br>a<br>a<br>b  | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | F<br>F<br>F<br>DM<br>C<br>(.25) P  | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin. Texas   | 9:45 am-1 am.  | (6:45 am-10 pm)   |
| CJKL<br>CJLS<br>CKCV<br>KAND<br>KARM<br>KBND<br>KCKN<br>KCRJ   | a<br>a<br>z<br>a<br>z<br>a<br>z   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100   | F<br>F<br>F<br>DM<br>C<br>(.25) P  | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin. Texas   | 9:45 am-1 am.  | (6:45 am-10 pm)   |
| CJKL CJLS CKCV KAND KARM KBND KCKN KCKN KCRJ KFPL KFYO KGEZ KGFW   | a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  | F<br>F<br>F<br>DM<br>C<br>(.25) P<br>(.25)<br>M(.25)   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr.  | 9:45 am-1 am.<br>9 am-11:30 pm.  | (6:45 am-10 pm) (6 am-8:30 pm)  |
| CJKL CJLS CKCV KAND KARM KBND «CKN KCRJ KFPL KFYO KGEZ KGFW KHUB   | a<br>a<br>a<br>z<br>a<br>a<br>b<br>a<br>a<br>a<br>a<br>a  | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  | <br>F<br>F<br>F<br>DM<br>C<br>(.25) P<br>(.25)<br>M(.25)<br>   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif.  |  |   |
| CJKI<br>CJLS<br>CKCV<br>KAND<br>KARM<br>KBND<br>KCKN<br>KCRJ<br>KFPL<br>KFPO<br>KGEZ<br>KGFW<br>KHUB<br>KINY   | a<br>a<br>z<br>a<br>z<br>a<br>a<br>a<br>a<br>a<br>a<br>a  | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  | <br>F<br>F<br>F<br>DM<br>C<br>(.25) P<br>(.25)<br>M(.25)<br><br>D<br>XZ  | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska   |  |   |
| CJKL CJLS CKCV KAND KARM KBND KCKN KCKN KCRJ KFYO KGEZ KGFW KHUB KINY KOCY KOME  | a a z a z a a b a a a a a z   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  | F F F DM C (.25) P (.25) M (.25) D XZ (.25) DP   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa. Okla.   |  |   |
| CJKI CJLS CKCV KAND KARM KBND KCKN KCKN KCRJ KFPL KFPL KFPL KGEZ KGFZ KGFW KHUB KINY KOCY KOME KPDN  | a a z a z a a b a a a a a z a   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  | F F DM C (.25) P (.25) M (.25) D XZ (.25) DP D   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa. Okla.   | 9 am-11:30 pm.   | (6 am-8:30 pm)  |
| CJKL CJLS CKCV KAND KARM KBND KCKN KCKI KFPL KFYO KGEZ KGFW KHUB KINY KOCY KOME KPDN KRBA  | a a z a z a a b a a a a a z a z   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>250<br>100<br>250<br>100<br>250  | F F F DM C (.25) P (.25) M(.25) D XZ (.25) DP D D  | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Lufkin, Texas  | 9 am-11:30 pm.<br>9 am-6:15 pm.  | (6 am-8:30 pm) (6 am-3:15 pm)   |
| CJKL CJLS CKCV KAND KARM KBND KCKN KCKI KFPL KFYO KGFW KHUB KOCY KOME KPDN KRBA KRMD KROC  | a a z a z a a b a a a a a z a   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>250<br>100<br>100<br>250<br>100<br>100   | F F DM C (.25) P (.25) M (.25) D XZ (.25) DP D   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Lufkin, Texas  | 9 am-11:30 pm.   | (6 am-8:30 pm)  |
| CJKL CJLS CKCV KAND KARM KBND KCKN KCKI KFPL KFYO KGEZ KGFW KHUB KINY KOCY KOME KPDN KRBA KRMD KRMD KROC KRQA  | a a a z a z a a b a a a a a a z a z a a a   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>250<br>100<br>250<br>100<br>100<br>100   | F F F DM C (.25) P (.25) M(.25) D XZ (.25) DP DD (.25) (.25) (.25)   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Lufkin, Texas  | 9 am-11:30 pm.<br>9 am-6:15 pm.  | (6 am-8:30 pm) (6 am-3:15 pm)   |
| CJKI<br>CJIS<br>CKCV<br>KAND<br>KAND<br>KCKN<br>KERJ<br>KFPI<br>KFPI<br>KGEZ<br>KGFW<br>KHUB<br>KOCY<br>KOCY<br>KOCY<br>KOME<br>KPDN<br>KRBA<br>KRMD<br>KROC<br>KRQA<br>KRQA<br>KRQA | a a a z a z a a b a a a a a a z a z a a a z   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  | F F DM C (.25) P (.25) DX Z (.25) DP D D (.25) D C (.25) D D D (.25) D   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv, Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Shreveport, La. Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas   | 9 am-11:30 pm.<br>9 am-6:15 pm.  | (6 am-8:30 pm) (6 am-3:15 pm)   |
| CJKL CJLS CKCV KAND KARM KBND KCKN KCKI KFPL KFYO KGFW KHUB KOCY KOME KPDN KRBA KRMD KROC KROC KRQA KRRV   | a a a z a z a a b a a a a a a z a z a a z a   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>250<br>100<br>250<br>100<br>100<br>100   | F F F DM C (.25) P (.25) M(.25) D XZ (.25) DP DD (.25) (.25) (.25)   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv, Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Shreveport, La. Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas   | 9 am-11:30 pm.<br>9 am-6:15 pm.  | (6 am-8:30 pm) (6 am-3:15 pm)   |
| CJKL CJLS CKCV KAND KARM KBND «CKN KCKI KFPL KFYO KGEZ KGFW KHUB KOCY KOME KPDN KRBA KRMD KRBA KRMD KROC KRQA KRRV KSUB KTSM   | a a a z a z a a a a a a a a z a a a a a   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>250<br>100<br>100<br>250<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1               | F F F DM C (.25) P (.25) M (.25) D XZ (.25) DP D D (.25) (.25) D (.25) .   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv, Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Shreveport, La Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas Santa Rosa, Calif. Cedar City, Utah El Paso, Texas  | 9 am-11:30 pm.<br>9 am-6:15 pm.<br>10 am-10 pm.  | (6 am-8:30 pm) (6 am-3:15 pm)   |
| CİKL CJLS CKCV KAND KARM KBND KCKN KCRJ KFYO KGEZ KGFW KHUB KINY KOCY KOME KPDN KRBA KRMD KRMD KRWD KRWD KRWD KRWD KRWO KRRV KSUB KTSM   | a a a z a z a a b a a a a a a z a a a z a a a z   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>250<br>100<br>250<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1                      | F F F DM C (.25) P (.25) M(.25) D XZ (.25) DP D D (.25) (.25) D (.25)  | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv, Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Shreveport, La. Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas Santa Rosa, Calif. Cedar City, Utah El Paso, Texas   | 9 am-11:30 pm.  9 am-6:15 pm. 10 am-10 pm.  9-11:30 am; 2-9:30 pm; 11 pm-1 am.                         | (6 am-8:30 pm) (6 am-3:15 pm) (7 am-7 pm) (6-8:30 am; 11 am-6:30 pm; 8-10 pm)                         |
| CJKL CJLS CKCV KAND KARM KBND KCKN KFPL KFPL KFPL KFPL KFPL KFPL KFPL KFPL   | a a a z a z a a a a a a a z a z a a a z a z a a a z a z a a a z a z a a a z a z a a z a z a a z a z a a z a z a a z a z a z a a z a z a z a a z | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>250<br>100<br>100<br>250<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1               | F F F DM C (.25) P (.25) M(.25) DXZ (.25) DP D (.25) D (.25) D (.25) D N(.25) D (.25) D  | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv, Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Shreveport, La. Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas Santa Rosa, Calif. Cedar City, Utah El Paso, Texas   | 9 am-11:30 pm.  9 am-6:15 pm. 10 am-10 pm.  9-11:30 am; 2-9:30 pm; 11 pm-1 am.  Noon-7 pm.             | (6 am-8:30 pm) (6 am-3:15 pm) (7 am-7 pm) (6-8:30 am; 11 am-6:30 pm; 8-10 pm) (9 am-4 pm)             |
| CİKL CJLS CKCV KAND KARM KBND KCKN KCRJ KFYO KGEZ KGFW KHUB KINY KOCY KOME KPDN KRBA KRMD KRMD KRWD KRWD KRWD KRWD KRWO KRRV KSUB KTSM   | a a a z a z a a b a a a a a a z a a a z a a a z   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>250<br>100<br>250<br>100<br>100<br>250<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1 | F F F DM C (.25) P (.25) DP DD (.25) C (.25) C (.25) C (.25) C (.25) C C (.25) C C (.25) C C (.25) C C (.25) C C (.25) C C (.25) C C (.25) C C (.25) D C (.2 | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv, Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Tulsa, Okla. Talsa, Okla. Talsa, Okla. Talsa, Okla. Talsa, Okla. Talsa, Okla. Talsa, Okla. Tulsa, Okla. T | 9 am-11:30 pm.  9 am-6:15 pm. 10 am-10 pm.  9-11:30 am; 2-9:30 pm; 11 pm-1 am.                         | (6 am-8:30 pm) (6 am-3:15 pm) (7 am-7 pm) (6-8:30 am; 11 am-6:30 pm; 8-10 pm)                         |
| CJKL CJLS CKCV KAND KARM KBND KCKN KFPL KFPL KFPL KFPL KFPL KFPL KFPL KFPL   | a a a z a z a z a a a a a a a a a z a z   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  | F F F DM C (.25) P (.25) M(.25) D XZ (.25) DD D (.25) D (.25) D (.25) D (.25) D (.25) D (.25) D (.25) D (.25) DD D (.25) D (.25) DD D (.25) D (.25) DD D D D D D D D D D D D D D D D D D   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Pampa, Texas Lufkin, Texas Shreveport, La. Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas Santa Rosa, Calif. Cedar City, Utah El Paso, Texas Lafayette, La. Moorhead, Minn. Poplar Bluff, Mo. Jefferson City, Mo.   | 9 am-11:30 pm.  9 am-6:15 pm. 10 am-10 pm.  9-11:30 am; 2-9:30 pm; 11 pm-1 am.  Noon-7 pm.             | (6 am-8:30 pm) (6 am-3:15 pm) (7 am-7 pm) (6-8:30 am; 11 am-6:30 pm; 8-10 pm) (9 am-4 pm)             |
| CJKL CJLS CKCV KAND KARM KBND «CKN KCKN KFPL KFYO KGEZ KGFW KHUB KNOCY KOME KPDN KRBA KRMD KROC KRBA KRRV KSRO KSUB KTSM KVIC KVOX KWOC KWOC KWOC KWOC KWOC KWOC KWOC KWOC           | aaa za za ab <sup>a</sup> aaaaa za za aa za aa za za za za za za z  | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  | F F F DM C (.25) P (.25) DD (.25) C (.25) C (.25) DP D (.25) C (.25) C (.25) C (.25) C (.25) C (.25) C (.25) C (.25) D D (.25) D D (.25) D D D (.25) D D D D D D D D D D D D D D D D D D D   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv, Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Shreveport, La Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas Santa Rosa, Calif. Cedar City, Utah El Paso, Texas Lafayette, La. Moorhead, Minn. Poplar Bluff, Mo Jefferson City, Mo Aberdeen, Wash.   | 9 am-11:30 pm.  9 am-6:15 pm. 10 am-10 pm.  9-11:30 am; 2-9:30 pm; 11 pm-1 am.  Noon-7 pm. 8 am-10 pm. | (6 am-8:30 pm) (6 am-3:15 pm) (7 am-7 pm) (6-8:30 am; 11 am-6:30 pm; 8-10 pm) (9 am-4 pm) (5 am-7 pm) |
| CJKL CJLS CKCV KAND KARM KBND KCKN KFPL KFPL KFPL KFPL KFPL KFPL KFPL KFPL   | a a a z a z a z a a a a a a a a a z a z   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  | F F F DM C (.25) P (.25) M(.25) D XZ (.25) DD D (.25) D (.25) D (.25) D (.25) D (.25) D (.25) D (.25) D (.25) DD D (.25) D (.25) DD D (.25) D (.25) DD D D D D D D D D D D D D D D D D D   | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv. Kans. Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Pampa, Texas Lufkin, Texas Shreveport, La. Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas Santa Rosa, Calif. Cedar City, Utah El Paso, Texas Lafayette, La. Moorhead, Minn. Poplar Bluff, Mo. Jefferson City, Mo.   | 9 am-11:30 pm.  9 am-6:15 pm. 10 am-10 pm.  9-11:30 am; 2-9:30 pm; 11 pm-1 am.  Noon-7 pm. 8 am-10 pm. | (6 am-8:30 pm) (6 am-3:15 pm) (7 am-7 pm) (6-8:30 am; 11 am-6:30 pm; 8-10 pm) (9 am-4 pm) (5 am-7 pm) |
| CİKL CJLS CKCV KAND KARM KBND KCKN KCKN KCKI KFYO KGEZ KGFW KHUB KINY KOOY KOME KPDN KRBA KRMD KROC KRQA KRRV KSRO KSUB KTSM KVIC KVOL KVOL KWOC KWOC KWOC KWOC KWOC KWOC KWOC KWOC  | a a a z a z a z a a a a a a a a z a a z a a a z a z z z a a   | 50<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>250<br>100<br>250<br>100<br>100<br>250<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1 | F F F DM C (.25) P (.25) M(.25) DD D (.25) D (.25) N(.25) P C (.25) DD D (.25) D (.25) DD D (.25) D (.25) DD D (.25) DD D (.25) DD D (.25) DD D D D D D D D D D D D D D D D D D  | North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Bend, Ore. Kansas Citv, Kans Jerome, Ariz. Dublin, Texas Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Watsonville, Calif. Juneau, Alaska Oklahoma City, Okla. Tulsa, Okla. Pampa, Texas Lufkin, Texas Shreveport, La. Rochester, Minn. Santa Fe, N. Mex. Sherman, Texas Santa Rosa, Calif. Cedar City, Utah El Paso, Texas Victoria, Texas Lafayette, La. Moorhead, Minn. Poplar Bluff, Mo Jefferson City, Mo. Aberdeen, Wash. Laurel, Miss.  | 9 am-11:30 pm.  9 am-6:15 pm. 10 am-10 pm.  9-11:30 am; 2-9:30 pm; 11 pm-1 am.  Noon-7 pm. 8 am-10 pm. | (6 am-8:30 pm) (6 am-3:15 pm) (7 am-7 pm) (6-8:30 am; 11 am-6:30 pm; 8-10 pm) (9 am-4 pm) (5 am-7 pm) |

|   | SUNDAY TIME  |  |   |  | Eastern Standa   | (Pacific Standard)   |  |
|---|--|--|---|--|--|--|--|
|   | WBRE   | а  | 100   |  | Wilkes-Barre, Pa.  |  |  |
| • | WBRK   | z  | 100   | C(.25)   | Pittsfield, Mass.  |  |  |
|   | WCLS   | a  | 100   | L  | Joliet, Ill.   |  |  |
|   | WCMI<br>WDAH   | a<br>I a   | 100<br>100  | (.25)  | Ashland, Ky.   |  |  |
|   | WEBR   | 1 a  | 100   | S(.25)<br>B(.25)   | El Paso, Tex.<br>Buffalo, N. Y.  | 8:30 am-midnight.  | (5:30 am-9 pm)   |
|   | WEMP   |  | 100   | D(.2))   | Milwaukee, Wis.  | 8.90 am-midnight.  | ().50 am-9 pm)   |
|   | WEXL   | a  | 50  |  | Royal Oak, Mich.   |  |  |
|   | WFBG   | a.   | 100   | 3  | Altoona, Pa.   |  |  |
|   | WFDF   | а  | 100   | В  | Flint, Mich.   |  |  |
|   | WGAU   | z  | 100   | P(.25)   | Athens, Ga.  |  |  |
|   | WGH  | _ a  | 100   | (.25)  | Newport News, Va.  |  |  |
|   | WGTM   |  | 100   | Ď  | Wilson, N. C.  |  |  |
|   | WHAT   |  | 100   | 4  | Philadelphia, Pa.  | 9.20 10.20 4.20  | (5.20 7.20 1.20  |
|   | WJAC   | а  | 100   | 3(.25)   | Johnstown, Pa.   | 6:30 pm.   | (5:30-7:30 am; 1:30-   |
|   | WLAK   | z  | 100   | N  | Lakeland, Fla.   | 0.50 рш.   | 3:30 pm)   |
|   | WLBC   | a  | 100   | (.25)  | Muncie, Ind.   | 7:45-12:05 am.   | (3:45 am-9:05 pm)  |
|   | WLNH   | a  | 100   | M  | Laconia, N. H.<br>Auburn, N. Y.  | ,,   | (5.15 == 5.05 == 5   |
|   | WMBO   | a  | 100   |  | Auburn, N. Y.  |  |  |
|   | WMFF   | a  | 100   | B(.25)   | Plattsburgh, N. Y.   |  |  |
|   | WNBH   |  | 100   | M(.25)   | New Bedford, Mass.   |  |  |
|   | WRAW   |  | 100   | ***  | Reading, Pa.   |  |  |
|   | WROL   | a  | 100   |  | Knoxville, Tenn.   |  |  |
|   | WSAJ<br>WSAV   | a  | 100<br>100  | p  | Grove City, Pa.<br>Savannah, Ga.   |  |  |
|   | WSGN   | z<br>a   | 100   | B(.25)   | Birmingham, Ala.   | 8 am-midnight.   | (5 am 0 am)  |
|   | WSJS   | a  | 100   | C .2)  | Winston-Salem, N. C.   |  | (5 am-9 pm)<br>(5 am-9 pm)   |
|   | WTAL   | a  | 100   | (.25)  | Tallahassee, Fla.  | o min minigati   | () am-y pm)  |
|   | WTEL   | a  | 100   | 4  | Philadelphia, Pa.  |  |  |
|   | WTJS   | а  | 100   | (.25)  | Jackson, Tenn.<br>Elkhart, Ind.  | 8 am-midnight.   | (5 am-9 pm)  |
|   | WTRC   | а  | 100   | (.25)  | Elkhart, Ind.  | Noon-10 pm.  | (9 am-7 pm)  |
|   | XEAG   | z  | 10  |  | Cordoba, Ver.<br>Irapuato, Gto.<br>Tampico, Tams<br>Torreon, Coah.   |  |  |
|   | XEBO   | z  | 25  | • • • •  | Irapuato, Gto.   |  |  |
|   | XEFW   | a  | 300   | • • • •  | Tampico, Tams  |  |  |
|   |  |  |   |  |  |  |  |
|   | XETB   | a  | 500<br>125  |  | Monterrey, N. L.   |  |  |
|   | XEX  | a,   |   |  | Monterrev, N. L.   |  |  |
|   | XEX  | а,   | 125   | ••••   | Monterrev, N. L.   |  |  |
|   | 1320   | kcs.   | (227.1  | m.)  | Monterrev, N. L.   |  |  |
|   | 1320<br>CMBQ   | kcs.   | (227.1<br>5000  | m.)  | Havana, Cuba   | 11 1   | (0 10  |
|   | 1320   | kcs.   | (227.1  | m.)  | Monterrev, N. L.   | 11 am-1 am.  | (8 am-10 pm)   |
|   | 1320<br>CMBQ<br>KGHF   | kcs.   | (227.1<br>5000<br>500   | <b>m.)</b> P B   | Havana, Cuba<br>Pueblo, Colo.  | 11 am-1 am.  | (8 am-10 pm)   |
|   | 1320<br>CMBQ   | kcs.   | (227.1<br>5000  | m.)  | Havana, Cuba<br>Pueblo, Colo.<br>Honolulu, Hawaii  | 11 am-1 am.  | (8 am-10 pm)   |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID  | kcs.   | (227.1<br>5000<br>500<br>1000   | m.)  P B CM  | Havana, Cuba<br>Pueblo, Colo.<br>Honolulu, Hawaii<br>Idaho Falls, Idaho<br>Des Moines, Iowa  | 11 am-1 am.<br>8:30 am-1 am.   |  |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID<br>KRNT<br>TGI   | kcs.  z a a a d  | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>  | m.)  P B  CM (1) C(5)  | Havana, Cuba Pueblo, Colo. Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Gnademala City, nat.   |  | (8 am-10 pm)<br>(5:30 am-10 pm)  |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID<br>KRNT<br>TGI<br>WADC   | kcs. z a a a d a   | 125<br>(227.1<br>5000<br>500<br>1000<br>500<br>1000   | m.) P B CM (1) C(5)  | Havana, Cuba Pueblo, Colo. Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Gnademala City, nat.   | 8:30 am-1 am.  | (5:30 am-10 pm)  |
|   | 1320 CMBQ KGHF KGMB KID KRNT TGI WADC WORK   | kes.  z a a a d a a a  | 125<br>(227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000   | m.) P B CM (1) C(5) C(5) N   | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa.  |  |  |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID<br>KRNT<br>TGI<br>WADC   | kcs. z a a a d a   | 125<br>(227.1<br>5000<br>500<br>1000<br>500<br>1000   | m.) P B CM (1) C(5)  | Havana, Cuba Pueblo, Colo. Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Gnademala City, nat.   | 8:30 am-1 am.  | (5:30 am-10 pm)  |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID<br>KRNT<br>TGI<br>WADC<br>WORK<br>WSMB   | kes.  z a a a d a a a a  | 125<br>(227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000   | m.)  P B  CM (1) C(5) C(5) N R(5)                                      | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa.  | 8:30 am-1 am.  | (5:30 am-10 pm)  |
|   | 1320 CMBQ KGHF KGMB KID KRNT TGI WADC WORK   | kes.  z a a a d a a a a  | 125<br>(227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000   | m.)  P B  CM (1) C(5) C(5) N R(5)                                      | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa.  | 8:30 am-1 am.  | (5:30 am-10 pm)  |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID<br>KRNT<br>TGI<br>WADC<br>WORK<br>WSMB   | kcs.  z a a a d a a a kcs.   | 125<br>(227.1<br>5000<br>500<br>1000<br>1000<br>1000<br>1000<br>1000<br>100   | m.)  P B CM (1) C(5) C(5) N R(5)                                       | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.   | 8:30 am-1 am.  | (5:30 am-10 pm)  |
|   | 1320 CMBQ KGHF KGMB KID KRNT TGI WADC WORK WSMB  1330 CMHK   | kcs.  z a a a d a a a kcs. z   | 125<br>(227.1<br>5000<br>500<br>1000<br>1000<br>1000<br>1000<br>1000<br>(225.4  | m.)  P B  CM (1) C(5) N R(5) M.)                                       | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.   | 8:30 am-1 am.  | (5:30 am-10 pm)  |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID<br>KRNT<br>TGI<br>WADC<br>WORK<br>WSMB<br>1330<br>CMHK<br>KGB                                | kcs.  z a a a d a a a kcs.  z a  | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000   | m.)  P B  CM (1) C(5) C(5) N R(5)  m.)                                 | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.   | 8:30 am-1 am.  | (5:30 am-10 pm)  |
|   | 1320 CMBQ KGHF KGMB KID KRNT TGI WADC WORK WSMB  1330 CMHK   | kcs.  z a a a d a a a kcs. z   | 125<br>(227.1<br>5000<br>500<br>1000<br>1000<br>1000<br>1000<br>1000<br>(225.4  | m.)  P B  CM (1) C(5) N R(5) M.)                                       | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex.  | 8:30 am-1 am.  | (5:30 am-10 pm)<br>(7 am-9 pm)   |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID<br>KRNT<br>TGI<br>WADC<br>WADC<br>WADC<br>WADC<br>WADC<br>WADC<br>WADC<br>WADC               | kcs.  z a a a d a a d a a kcs.   | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>500<br>1000  | m.)  P B  CM (1) C(5) C(5) N R(5)  m.) M M NM NM C(5)                  | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa   | 8:30 am-1 am. 10 am-midnight. 8:30 am-midnight.                            | (5:30 am-10 pm)<br>(7 am-9 pm)   |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID<br>KRNT<br>TGI<br>WADC<br>WORK<br>WSMB<br>1330<br>CMHK<br>KGB<br>KMO<br>KRIS<br>KSCJ<br>WDRC | kcs.  z a a a d a a a kcs.  z a a a a a a a                                      | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>500<br>1000<br>1000<br>1000  | m.) P B CM (1) C(5) C(5) N R(5) m.) M NM C(5) C C(5)                   | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn.   | 8:30 am-1 am. 10 am-midnight.  | (5:30 am-10 pm)<br>(7 am-9 pm)   |
|   | XEX  1320 CMBQF KGHP KID KRNT TGI WADC WORK WSMB  1330 CMHK KGB KMO KRIS KSCJ WDRC WSAI  | kcs.  z a a a a d a a a c kcs.  z a a a a a a a a                                | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000   | m.)  P B CM (1) C(5) C(5) N R(5) m.) M M M M M M M M M M M M M M M M M | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio  | 8:30 am-1 am.  10 am-midnight.  8:30 am-midnight.  9 am-1 am.              | (5:30 am-10 pm)<br>(7 am-9 pm)<br>(5:30 am-9 pm)<br>(6 am-10 pm)                 |
|   | 1320<br>CMBQ<br>KGHF<br>KGMB<br>KID<br>KRNT<br>TGI<br>WADC<br>WORK<br>WSMB<br>1330<br>CMHK<br>KGB<br>KMO<br>KRIS<br>KSCJ<br>WDRC | kcs.  z a a a d a a a kcs.  z a a a a a a a                                      | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>500<br>1000<br>1000<br>1000  | m.) P B CM (1) C(5) C(5) N R(5) m.) M NM C(5) C C(5)                   | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn.   | 8:30 am-1 am. 10 am-midnight. 8:30 am-midnight.                            | (5:30 am-10 pm)<br>(7 am-9 pm)   |
|   | XEX  1320 CMBQ KGHF KGMB KID KRNT TGI WADC WORK WSMB  1330 CMHK KGB KMO KRIS KSCI WDRC WSAI WTAQ                                 | kcs.  z a a a a d a a a c c c c c c c c c c c c                                  | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000   | m.)  P B  CM (1) C(5) C(5) N R(5)  m.) M M M NM C(5) C MN(5) C         | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio  | 8:30 am-1 am.  10 am-midnight.  8:30 am-midnight.  9 am-1 am.              | (5:30 am-10 pm)<br>(7 am-9 pm)<br>(5:30 am-9 pm)<br>(6 am-10 pm)                 |
|   | XEX  1320 CMBQF KGHP KID KRNT TGI WADC WORK WSMB  1330 CMHK KGB KMO KRIS KSCJ WDRC WSAI  | kcs.  z a a a a d a a a c c c c c c c c c c c c                                  | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000   | m.)  P B CM (1) C(5) C(5) N R(5) m.) M M M M M M M M M M M M M M M M M | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio  | 8:30 am-1 am.  10 am-midnight.  8:30 am-midnight.  9 am-1 am.              | (5:30 am-10 pm)<br>(7 am-9 pm)<br>(5:30 am-9 pm)<br>(6 am-10 pm)                 |
|   | 1320 CMBQF KGMF KID KRNT TGI WORK WSMB  1330 CMHK KGB KMO KRIS KSCJ WDRC WSAI WTAQ  1340   | kcs.   | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000 | m.)  P B CM (1) C(5) K(5) M NM C(5) C MN(5) C m.)                      | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Green Bay, Wis.  | 8:30 am-1 am.  10 am-midnight.  8:30 am-midnight.  9 am-1 am.              | (5:30 am-10 pm)<br>(7 am-9 pm)<br>(5:30 am-9 pm)<br>(6 am-10 pm)                 |
|   | 1320 CMBQ KGHF KGMB KID KRNT TGI WADC WORK WSMB  1330 CMHK KGB KMO KRIS KSCI WDRC WSAI WTAQ  1340 CMAB                           | kcs.  z a a a a d a a a c c c c c c c c c c c c                                  | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000   | m.)  P B CM (1) C(5) C(5) N R(5) m.) M M NM C(5) C m.) C m.)           | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Green Bay, Wis.  | 8:30 am-1 am.  10 am-midnight.  8:30 am-midnight.  9 am-1 am.              | (5:30 am-10 pm)<br>(7 am-9 pm)<br>(5:30 am-9 pm)<br>(6 am-10 pm)                 |
|   | 1320 CMBQF KGMF KID KRNT TGI WORK WSMB  1330 CMHK KGB KMO KRIS KSCJ WDRC WSAI WTAQ  1340   | kcs.  z a a a a a d a a a a kcs. z a a a c a a c c c c c c c c c c c c c         | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000 | m.)  P B CM (1) C(5) C(5) N R(5)  m.) M M M M C(5) C MN(5) C m.) ADP   | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Green Bay, Wis.  Pinar del Rio, Cuba Camaguey, Cuba Dubuque, Iowa              | 8:30 am-1 am.  10 am-midnight.  8:30 am-midnight.  9 am-1 am.              | (5:30 am-10 pm)<br>(7 am-9 pm)<br>(5:30 am-9 pm)<br>(6 am-10 pm)                 |
|   | 1320 CMBQ KGHF KGMB KID KRNT TGI WADC WORK WSMB  1330 CMHK KGB KMO KRIS KSCJ WTAQ  1340 CMAB CMJW KDTH KGIR                      | kcs.  z a a a a a a a a a a kcs.  z a a a z a a a c z a a a a a                  | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000 | m.)  P B CM (1) C(5) C(5) N R(5) m.) M M NM C(5) C m.) C m.)           | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Green Bay, Wis.  Pinar del Rio, Cuba Camaguey, Cuba Dubuque, Iowa Butte, Mont. | 8:30 am-1 am.  10 am-midnight.  8:30 am-midnight.  9 am-1 am.  11 am-1 am. | (5:30 am-10 pm)<br>(7 am-9 pm)<br>(5:30 am-9 pm)<br>(6 am-10 pm)<br>(8 am-10 pm) |
|   | 1320 CMBQ KGHF KGMB KID KRNT TGI WORK WSMB  1330 CMHK KGB KMO KRIS KSCJ WDRC WSAI WTAQ  1340 CMAB CMJW KDTH                      | kcs.  z a a a a a d a a a a a kcs. z a a a z a a a c z a a a c z c z c z z c z z | (227.1<br>5000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>(225.4<br>250<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000 | m.)  P B CM (1) C(5) C(5) N R(5)  m.) M M M M C(5) C MN(5) C m.) ADP   | Havana, Cuba Pueblo, Colo.  Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Guademala City, uat. Akron, Ohio York, Pa. New Orleans, La.  Cruces, Cuba San Diego, Calif. Tacoma, Wash. Corpus Christi, Tex. Sioux City, Iowa Hartford, Conn. Cincinnati, Ohio Green Bay, Wis.  Pinar del Rio, Cuba Camaguey, Cuba Dubuque, Iowa              | 8:30 am-1 am.  10 am-midnight.  8:30 am-midnight.  9 am-1 am.              | (5:30 am-10 pm)<br>(7 am-9 pm)<br>(5:30 am-9 pm)<br>(6 am-10 pm)                 |

| SUNDAY TIME  |  |   |                                 | Eastern Standar  | (Pacific Standard) /                              |   |
|--|--|---|---------------------------------|--|---|---|
| WCOA<br>WFEA<br>WFNC<br>WSPD<br>XEAP<br>XEBS<br>XEDH<br>XEFC<br>XEXD | a<br>a<br>z<br>a<br>z<br>z<br>z<br>a<br>z<br>z<br>z<br>a | 500<br>500<br>250<br>1000<br>50<br>200<br>200<br>100<br>350 | C(1)<br>MN(1)<br>DP<br>B(5)<br> | Pensacola, Fla. Manchester, N. H. Fayetteville, N. C. Toledo, Ohio Obregon, Son. Mexico City, D. F. Villa Acuna, Coah. Merida, Yuc. Jalapa, Ver.           | 8:30 am-1 am.                                     | (5:30 am-10 pm)                         |
| 1350   | kcs.   | (222.1  | m.)                             |  |   |   |
| CMCA<br>CMKW<br>KIDO<br>KWK  | a<br>z<br>a<br>a   | 450<br>1000<br>1000   | <br>N(2.5)                      | Havana, Cuba<br>Santiago, Cuba<br>Boise, Idaho<br>) St. Louis, Mo.   | 11 am-1 am.                                       | (8 am-10 pm)                            |
| WAWZ   |  | 500   | 1(1)                            | Zarephath, N. J.   | 6-9 am; 11 am-12:30 pm; 3-4:30 pm; 7-8:30 pm.     |   |
| WBNX<br>WMBG   |  | 1000<br>500   | 1<br>R                          | New York, N. Y.<br>Richmond, Va.   | 8 am-midnight.                                    | (5 am-9 pm)                             |
| 1360   | kcs.   | (220.4  | m.)                             |  |   |   |
| CMJH<br>KCRC<br>KGER<br>WCSC<br>WFBL<br>WGES<br>WQBC<br>WSBT         | b<br>a<br>a<br>· a<br>a<br>a<br>a                        | 200<br>250<br>1000<br>500<br>1000<br>500<br>1000<br>500     | M<br>N(1)<br>C(5)<br>1(1)<br>D  | Ciego de Avila, Cuba<br>Enid, Okla.<br>Long Beach, Calif.<br>Charleston, S. C.<br>Syracuse, N. Y.<br>Chicago, Ill.<br>Vicksburg, Miss.<br>South Bend, Ind. | 8 am-midnight.                                    | (5 am-9 pm)                             |
| 1370   | kcs.   | (218.8  | m.)                             |  | ,   |   |
| CFAR<br>CKCW<br>CMGE<br>KAST<br>KCMO<br>KEEN                         | 2<br>a<br>a<br>a<br>a                                    | 100<br>100<br>200<br>100<br>100                             | DXZ                             | Flin Flon, Man. Moncton, N. B. Cardenas, Cuba Astoria, Ore. Kansas City, Mo. Seattle, Wash. Fl. Dorado, Ark  | 3-8 pm.   | (Ncon-5 pm)                             |
| KELD<br>KERN<br>KFGQ   | z<br>a<br>a  | 100<br>100<br>100   | N<br>D                          | El Dorado, Ark.<br>Bakersfield, Calif.<br>Boone, Iowa  | 8:30-10 am;; 11:30<br>am-12:30 pm; 3:30-<br>5 pm. | (5:30-7 am; 8:30-<br>9:30 am; 12:30-2   |
| KFJZ<br>KFRO   | a  | 100<br>250  | M(.25)<br>DM                    | Fort Worth, Texas<br>Longview. Texas   | 7:30 am-midnight.                                 | pm)                                     |
| KGAR<br>KGFL<br>KGKL<br>KICA   | a<br>a<br>a  | 100<br>100<br>100<br>100                                    | C(.25) 4 (.25) 4                | Tucson, Ariz.<br>Roswell, N. Mex.<br>San Angelo, Texas<br>Clovis, N. Mex.  | 11 am-1 am.                                       | (8 am-10 pm)                            |
| KIUP<br>KLUF<br>KMAC<br>KOHB<br>KOKO                                 | a<br>a<br>a<br>a   | 100<br>100<br>100<br>100<br>100                             | M<br>5(.25)<br>(.25)            | Durango, Colo. Galveston, Tex. San Antonio, Tex. Rapid City, S. Dak. La Junta, Colo.   | 9 am-11;30 pm.                                    | (6 am-8:30 pm)                          |
| KONO   | a  | 100   | 5                               | San Antonio, Tex.  | pm; 5-7 pm; 9-11                                  | (7-9 am; 10:30 am-<br>noon; 2-4 pm; 6-8 |
| KRE<br>KRKO<br>KRMC<br>KSLM  | a<br>a<br>z<br>a   | 100<br>50<br>100<br>100                                     | (.25)<br>MXZ                    | Berkeley, Calif. Beverett, Wash. Jamestown, N. Dak. Salem, Ore.  | pm.<br>10 am- 7 pm.                               | pm) (7 am-4 pm)                         |
| KTEM<br>KTOK<br>KUJ<br>KVGB  | a<br>a<br>a<br>z   | 250<br>100<br>100<br>100                                    | DM<br>MN<br>                    | Temple, Texas<br>Oklahoma City, Okla.<br>Walla Walla, Wash.<br>Great Bend, Kans.   | 8 am-1 am.  | (5 am-10 pm)                            |

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

| SUND         | AY T          | IME                |                | Eastern Standar                         | d                                   | (Pacific Standard)                       |
|--------------|---------------|--------------------|----------------|---|-------------------------------------|--|
| KVRS         | z             | 100                | X(.25)         | Rock Springs, Wyo.                      |                                     |  |
| KWYO         | a             | 100                | (.25)          | Sheridan, Wyo.                          |                                     |  |
| WABY         | a             | 100                | N(.25)         | Albany, N. Y.                           | O T C                               | // ···· T C)                             |
| WAGF<br>WATL | a<br><b>a</b> | 250<br>100         | D<br>(.25)     | Dothan, Ala.<br>Atlanta, Ga.            | 9 am-L. S.<br>1 am Sun 2 am<br>Mon. | (6 am-L. S.)<br>(10 pm Sat11 pm<br>Sun.) |
| WBLK         | a             | 100                |                | Clarksburg, W. Va.                      | 9 am-11 pm.                         | (6 am-8 pm)                              |
| WBNY         | a             | 100                | 2(.25)         | Clarksburg, W. Va.<br>Buffalo, N. Y.    | 10 am-midnight.                     | (7 am-9 pm)                              |
| WBTM         | a             | 100                | (.25)          | Danville, Va.                           |                                     |  |
| ŴСВМ         | а             | 100                | (.25)          | Baltimore, Md.                          |                                     |  |
| WDWS         | a             | 100                | (.25)          | Philadelphia, Pa.                       |                                     |  |
| WDAS         | a             | 100                | (.25)          | Champaign, Ill.                         |                                     |  |
| WEOA         | a             | 100                | C(.25)         | Evansville, Ind.                        | 9 am-1 am.                          | (6 am-10 pm)                             |
| WFOR<br>WGL  | a<br>a        | 100<br>100         | N(.25)         | Hattiesburg, Miss. Fort Wayne, Ind.     | 1-8 pm.                             | (10 am-5 pm)                             |
| WGRC         | a             | 250                | D D            | New Albany, Ind.                        | 9 am-L. S.                          | (6 am-L. S.)                             |
| WHBQ         | a             | 100                |                | Memphis, Tenn.                          | , 2.                                | (6 4 2. 6.)                              |
| WHDF         | a             | 100                | (.25)          | Calumet, Mich.                          |                                     |  |
| WHLB         | a             | 100                | C(.25)         | Virginia, Minn.                         |                                     |  |
| WHLS         | z             | 250                | D              | Port Huron, Mich.                       |                                     |  |
| WIBM<br>WLLH | a             | 100                | (.25)B         | Jackson, Mich.                          | 8 am-midnight.                      | (5 am 0 pm)                              |
| WLLH         | a<br>a        | 100<br>1 <b>00</b> | MSv(2          | Lawrence, Mass.<br>5) Lowell, Mass.     | 8 am-midnight.                      | (5 am-9 pm)                              |
| WMBR         | a             | 100                | C(.25)         | Jacksonville Fla                        | 8 am-midnight.                      | (5 am-9 pm)                              |
| WMFD         | a             | 100                | D              | Jacksonville, Fla.<br>Wilmington, N. C. | 10:30 am-6:15 pm.                   | (7:30 am-3:15 pm)                        |
| WMFO         | a             | 100                | D              | Decatur, Ala.<br>St. Paul, Minn.        | 10 am-L. S.                         | (7 am-L. S.)                             |
| WMIN         | a             | 100                | (.25)          | St. Paul, Minn.                         | 9 am1 am.                           | (6 am-10 pm)                             |
| WOC          | a             | 100                | C(.25)         | Davenport, Iowa                         | 0.20 0.20                           | (6.20 5.20)                              |
| WPAY<br>WPRA | a<br>z        | 100<br>100         | (25)           | Portsmouth, Ohio                        | 9:30 am8:30 pm.                     | (6:30 am-5:30 pm)                        |
| WRAK         | a             | 100                | (.25)<br>(.25) | Mayaguez, P. R. Williamsport, Pa.       | 10 am-12:30 pm.; 5-7 pm.            | (7-9:30 am; 2-4 pm)                      |
| WRDO         | а             | 100                | M              | Augusta, Maine                          | 8:45 am-midnight.                   | (5:45 am-9 pm)                           |
| WRJN         | а             | 100                | (.25)          | Augusta, Maine<br>Racine, Wis.          |                                     | · · · · · · · · · · · · · · · ·          |
| WSAU         | a             | 100                | (.25)          | Wausau, Wis.<br>Buffalo, N. Y.          | 8:30 am-11:15 pm.                   | (5:30 am-8:15 pm)                        |
| WSVS<br>XECZ | a             | 50<br>100          | 2D             | San Luis Potosi, S.L.P.                 | Silent.                             | (Silent)                                 |
| XEI          | z<br>a        | 125                | ,              | Morelia Mich                            | 1                                   |  |
| XELZ         | z             | 100                | ,              | Morelia, Mich.<br>Mexico City, D. F.    |                                     |  |
| ••••         | z             | 100                | • • • •        | Owen Sound, Ont.                        |                                     |  |
| 1380         | kcs.          | (217.3             |                |   |                                     |  |
| CMCW         | ь             | 1500               | (.25)P         | Columbia, S. C.                         | 0 11 1-1-1-                         | (6 . 6 )                                 |
| KOH          | a             | 500                | C<br>1C        | Reno, Nev.                              | 9 am-midnight.                      | (6 am-9 pm)                              |
| KQV<br>WALA  | a<br>a        | 500<br>500         | C(1)           | Pittsburgh, Pa.<br>Mobile, Ala.         |                                     |  |
| WKBH         | a             | 1000               | Č(1)           | La Crosse, Wis.                         |                                     |  |
| WNBC         | a             | 250                | DX             | New Britain, Conn.                      |                                     |  |
| WSMK         | a             | 200                | 1CLX           | Dayton, Ohio                            |                                     |  |
| 1390         | kcs.          | (215.7             | m.)            | ,                                       |                                     |  |
| CJGX         | z             | 200                | F              | Yorkton, Sask                           | Noon-11:30 pm.                      | (9 am-8:30 pm)                           |
| CMJC         | z             | 150                | ;;;•           | Camaguey, Cuba<br>Aberdeen, S. Dak.     | 10 (.16                             | (= 0.45 )                                |
| KABR         | a             | 500                | (1)            | Aberdeen, S. Dak.                       | 10 am-6:15 pm.                      | (7 am-3:15 pm)                           |
| KLRA         | ,a            | 1000               | C(5)<br>C      | Little Rock, Ark.                       | 10 am-2 am.                         | (7 am-11 pm)                             |
| KOY<br>KRLC  | a<br>a        | 1000<br>250        |                | Phoenix, Ariz.<br>Lewiston, Idaho       | 3-10:30 pm.                         | (Noon-7:30 pm)                           |
| WHK          | a             | 1000               | BM(.25         | Cleveland, Ohio                         | 2 -0.20 F-44                        | (= .00m / 150 pm)                        |
| WQDM         |               | 1000               | D              | 5) Cleveland, Ohio<br>St. Albans, Vt.   | 8:30 am-L. S.                       | (5:30 am-L. S.)                          |
| 1400         | kcs.          | (214.2             | m.)            |   |                                     |  |
| GMGC         | a             | 150                |                | Matanzas, Cuba                          |                                     |  |
| CMKR         | z             | 100                |                | Santiago, Cuba                          |                                     |  |
| KHBC         | ·a            | 250                | СМ             | Hilo, Hawaii                            |                                     | r  |
| KLO          | a             | 50 <b>0</b>        | В              | Ogden, Utah                             |                                     |  |

#### 72 NORTH AMERICAN B. C. STATIONS BY FREQUENCIES (Pacific Standard) Eastern Standard SUNDAY TIME (5 am-10:15 pm) Tulsa, Okla. 8 am-1:15 am. 1000 C(5)KTUL a Guatemala City, Guat. Brooklyn, N. Y. TGX d 500 2 WARD a 7-10:30 am; 3-4:30 (4-7:30 am; noon-P Brooklyn 500 WBBC 3 pm: 9-10:30 pm. 1:30 pm) Brooklyn, N. Y. 2(1) 500 WEGL Z (6-7:30 pm) Olean, N. Y. Indianapolis, Ind. WHDL 250 a MR(5) 1000 WIRE a 10:30 am-noon; 1:30 (7:30-9 am; 10:30 Brooklyn, N. Y. 500 2 WLTH -3 pm; 10:30 pm- am-noon; 7:30-9 pm) midnight. Noon-1:30 pm; 4:30 (9-10:30 am; 1:30-4 Brooklyn, N. Y. 500 2 WVFW pm) -7 pm. 1410 kcs. (212.6 m.) Vancouver, B. C. CKFC а Vancouver, в. с. 5 CKMO 100 a Havana, Cuba (1) Grand Forks, N. Dak. 10 am-10 pm. MN(2.5) Amarillo, Texas N. Medford, Ore. M(1) Boston, Mass. 5000 CMCQ (7 am-7 pm) 500 KFJM a KGNC 1000 а 250 KMED c 500 WAAB a Bay City, Mich. Bluefield, W. Va. Rockford, Ill. 500 (1) WBCM а 9 am-9 pm. (6 am-6 pm) (1)500 WHIS a (6:30 am-8 pm) 9:30 am-11 pm. (1) WROK a 500 Montgomery, Ala. 500 C(1) WSFA 1420 kcs. (211.1 m.) Three Rivers, P. Q. 100 CHLN z .... F Kenora, Ont. 100 CKCA 7 North Bay, Ont. 100 CKGB M(.25) San Antonio, Tex. D Albert Lea, Minn. 4 Portland, Ore. (6 am-8:30 pm) 9 am-11:30 pm. 100 KABC а 250 KATE а Silent. (Silent) 100 KBPS а M(.25) Texarkana, Tex. D Denton, Texas 100 KCMC а (5:30 am-L. S.) 8:30 am-L. S. 100 KDNT z (10:45 am-4 pm) Price, Utah 1:45-7 pm. 10 am-7 pm. 100 rrice, Utah (.25) St. Cloud, Minn. Fond du Lac, Wis. M(.25) Shawnee, Okla. Alamosa, Colo. (.25) Safford, Ariz. Lamar, Colo. Pecos, Texas P(.25) La Grande Ore KEUB а (7 am-4 pm) 100 KFAM z 100 KFIZ а (7 am-10 pm) 10 am- 1 am. KGFF 100 я Noon-3 pm. (9 am-noon) 100 KGIW а 100 KGLU Z 100 KIDW a 100 KIUN a P(.25) La Grande, Ore. D Palestine, Texas M Eugene, Ore. M(.25) Abilene, Tex. P(.25) Bozeman, Mont. 100 KLBM 7 100 KNET а 100 KORE а 100 KRBC a 100 KRBM z Beaumont, Texas Midland, Texas M(.25)KRIC z 100 100 D KRLH а San Francisco, Calif. 100 KSAN a 10 am-midnight. (7 am-9 pm) Sioux City, Iowa 100 (.25)KTRI 7 Yuma, Ariz. Ď KUMA a 100 DP Atchison, Kans. 100 KVAK Z Hutchinson, Kans. 9 am-10 pm. (6 am-7 pm) 100 KWBG a 1(.25) Portland, Ore. CM(.25) Waco, Texas Presque Isle, Me. 100 KXL а 8 am-1 am. W.ACO 100 а 100 WAGM а 7:30 am-midnight. (4:30 am-9 pm) (.25)N Chattanooga, Tenn. WAPO 100 а Hazelton, Pa. WAZL 100 2 а (4 am-10 pm) 7 am-1 am. Springfield, Ill. (.25)100 WCBS а Charlottesville, Va. Rocky Mount, N. C. Battle Creek, Mich. 10 am-5 pm. (7 am-2 pm) 3(.25) 100 WCHV а

9 am-midnight.

(6 am-9 pm)

100

100

100

100

WEED

WELL

WFMJ

WGNC

а

а

z

3(.25)

DP Youngstown, Ohio (.25)P Gastonia, N. C.

В

| SUNDAY TIME  | Eastern Standar  | ď                                   | (Pacific Standard)             |
|--|--|-------------------------------------|--------------------------------|
| WGPC a 100<br>WHFC a 100 (.25<br>WHMA z 100 DP                   | ) Cicero, Ill.<br>Anniston, Ala.                         | 8 am-2 am.                          | (5 am-11 pm)                   |
| WILM a 100 2<br>WJMS a 100<br>WLAP a 100 (.25<br>WLEU a 100 B(.2 |  | 11 am-7 pm.                         | (8 am-4 pm)                    |
| WMAS a 100 C(.2<br>WMBC a 100 (.25<br>WMBH a 100 (.25            | 5) Springfield, Mass. ) Detroit, Mich. ) Joplin, Mo.     | 8:45 am-midnight.<br>9 am-midnight. | (5:45 am-9 pm)<br>(6 am-9 pm)  |
| WMBS a 250 D<br>WMFJ a 100<br>WMSD a 100<br>WPAD a 100 (.25      | Muscle Shoals City, Ala                                  | 8 am- <b>9</b> pm.                  | (5 am-6 pm)                    |
| WPAR a 100 C<br>WPRP z 100 (.25<br>WSLI z 100 P(.2               | Parkersburg, W. Va.<br>Ponce, P. R.<br>S) Jackson, Miss. | 9 am-10 pm.                         | (6 am-7 pm)                    |
| 1430 kcs. (209.7 m.)   |  |                                     |                                |
| CMIP a 75  | Moron, Cuba  | ,                                   |                                |
| CMKZ z 125   | Palm Soriano, Cuba                                       |                                     | (0 11)                         |
| KECA a 1000 B(5)   | Los Angeles, Calif.<br>North Platte, Nebr.               | 11 am-2 am.<br>Silent.              | (8 am-11 pm)<br>(Silent)       |
| KGNF a 1000 D<br>KSO a 500 BM(                                   | 2.5) Des Moines, Iowa                                    | 8 am-2 am.                          | (5 am-11 pm)                   |
| WBNS a 1000 C(5)   |  | o am-z am.                          | () am-11 pm)                   |
| WHEC a 500 C(1)  | Rochester, N. Y.   |                                     |                                |
| WHP a 500 C(1)   | Harrisburg, Pa.  | 9 am-1 am.                          | (6 am-10 pm)                   |
| WMPS a 500 B(1   | Memphis, Tenn.   | 10 am-10 pm.                        | (7 am-7 pm)                    |
| WOKO a 500 C(1   | Harrisburg, Pa.  Memphis, Tenn.  Albany, N. Y.           | 9 am-1 am.                          |                                |
| 1440 kcs. (208.2 m.)   |  |                                     |                                |
| CMBY z 200   | Havana, Cuba   |                                     |                                |
| HPSO z   | Colon, Panama  |                                     |                                |
| KDFN a 500   | ' Casper, Wyo.   |                                     |                                |
| KELA a 500 M   | Centralia, Wash.<br>Houston, Texas                       |                                     |                                |
| KXYZ a 1000 BM   | Houston, lexas   | 8 am-midnight.                      | (5 0)                          |
| WBIG a 1000 C<br>WCBA a 500 a                                    | Greensboro, N. C.<br>Allentown, Pa.                      | 9 am-1 am.                          | (5 am-9 pm)<br>(6 am-10 pm)    |
| WCBA a 500 a<br>WMBD a 1000 C(5)                                 |  | y am-1 am.                          | (o am-10 pm)                   |
| WSAN a 500 Na  | Allentown, Pa.   |                                     |                                |
| XEFI a 250   | Chihuahua, Chih.   | •                                   |                                |
| 1450 kcs. (206.8 m.)   |  |                                     |                                |
| 6767   | Wistoria B C   |                                     | -                              |
|  | Victoria, B. C.<br>Summerside, P. E. I.                  | 10 am-noon; 2:30-7:30 pm.           | (7-9 am; 11:30 am1<br>4:30 pm) |
| CMHM z 150<br>KGCX a 1000  | Cienfuegos, Cuba<br>Wolf Point, Mont.                    |                                     |                                |
| KIEM a 500 M(1   | ) Eureka, Calif.   |                                     |                                |
| KTBS a 1000 N  | Shreveport, La.  |                                     |                                |
| TGQ d 200  | Quezaltenango, Guat.                                     |                                     |                                |
| WAGA a 500 B(1)  | Atlanta, Ga.   |                                     |                                |
| WGAR a 500 CX  | 1) Cleveland, Ohio                                       |                                     |                                |
| WHOM a 250   | Jersey City, N. J.<br>Fall River, Mass.                  |                                     |                                |
| WSAR a 1000 M  | Inarez, Chih.  |                                     |                                |
| XEF a 100  | marez, Chin.   |                                     |                                |
| 1460 kcs. (205.4 m.)   |  |                                     |                                |
| CMKF z 250   | Holguin, Cuba  | 0 0                                 |                                |
|  | 5) St. Paul, Minn.                                       | 8 am-2 am.                          | (5 am-11 pm)                   |
| WJSV a 10000 C   | Washington, D. C.  | 8 am-1 am.                          | (5 am-10 pm)                   |
| 1470 kcs. (204 m.)   | ,bqff  |                                     |                                |
| CMCX z 150   | . Havana, Cuba   |                                     |                                |

| SUNDAY TIME Eastern Standar |             | rd                 | (Pacific Standard) |  |  |   |
|-----------------------------|-------------|--------------------|--------------------|--|--|---|
| KGA<br>WLAC                 | a<br>a      | 5000<br>5000       | BM<br>C            | Spokane, Wash.<br>Nashville, Tenn.   |  |   |
| 1480                        | kcs.        | (202.6             | m.)                |  |  |   |
| KOMA                        | a           | 5000               | C                  | Oklahoma City, Okla.<br>Hammond, Ind.  | 9 am-1 am.                                     | (6 am-10 pm)                                  |
| WHIP<br>WKBW                | z<br>a      | 5000<br>5000       | C                  | Hammond, Ind.<br>Buffalo, N. Y.  | 7 am-1 am.                                     | (4 am-10 pm)                                  |
| 1490                        | kcs.        | (201.2             | m.)                | ,  |  |   |
| CMKQ<br>KFBK                | z<br>a      | 200<br>10000       | <br>N              | Santiago, Cuba   | 11 2   | (a !! ! ! »                                   |
| WCKY                        | a           | 10000              | Ñ                  | Sacramento, Calif.<br>Covington, Ky.   | 11 am-3 am.                                    | (8 am-midnight)                               |
| XEDR                        | z           | 100                | • • • •            | Guaymas, San.  |  |   |
| 1500                        | kcs.        | (199.9             | m.)                |  |  |   |
| CJIC                        | a           | 100                | F                  | Sault Ste. Marie, Ont  | t <b>.</b>                                     |   |
| CMOX<br>KAWM                | a<br>z      | 200<br>100         |                    | Havana, Cuba<br>Gallup, N. Mex.  |  |   |
| KBIX                        | a           | 100                | M                  | Muskogee, Okla.  | 10 am-1 am.                                    | (7 am-10 pm)                                  |
| KBKR                        | z           | 100                | (.25)P             | Baker, Ore.  |  | (, mm 10 pm)                                  |
| KBST<br>KDAL                | z<br>a      | 100<br>100         | M<br>C             | Big Spring, Tex.<br>Duluth, Minn.  | 10 am-midnight.                                | (7 0)   |
| KDB                         | a           | 100                |                    | Santa Barbara, Calif.  | 10 am-midnight.                                | (7 am-9 pm)                                   |
| KGFI                        | а           | 100                | (.25)              | Brownsville, Tex.  | 9 am-10:30 pm.                                 | (6 am-7:30 pm)                                |
| KGKB<br>KGKY                | a<br>a      | 100<br>100         | M(.25)             | Tyler, Texas<br>Scottsbluff, Nebr.   |  |   |
| KNEL                        | a           | 250                | D.23)              | Brady, Texas   |  |   |
| KNOW                        | a           | 100                | CM                 | Brady, Texas<br>Austin, Texas  |  |   |
| KOTN<br>KOVC                | a<br>a      | 100<br>100         | D<br>(.25)         | Pine Bluff, Ark.<br>Valley City, N. Dak.                                       |  |   |
| KPAB                        | a.<br>Z     | 100                | (.25)              | Laredo. Tex.   | 10 am-10 pm.                                   | (7 am-7 pm)                                   |
| KPLC                        | a           | 100                | (.25)              | Lake Charles, La.<br>Paris, Texas  | r  | (/ um// pm)                                   |
| KPLT<br>KPO                 | z<br>a      | 250<br>100         | DM<br>M(25)        | Paris, Texas   |  |   |
| KRNR                        | a           | 100                | M(.25)             | Wenatchee, Wash. Roseburg, Ore. El Paso, Texas Salina, Kans. Huntsville, Texas |  |   |
| KROD                        | z           | 100                | P                  | El Paso, Texas   |  |   |
| KSAL                        | a<br>z      | 100<br>100         | (.25)<br>DP        | Salina, Kans.  |  |   |
| KSAM<br>KUTA                | z           | 100                | N                  | Huntsville, Texas<br>Salt Lake City, Utah                                      | 11 am-2 am.                                    | (8 am-11 pm)                                  |
| KVNU                        | z           | 100                | P                  | Logan, Utah  | -  | (o am 11 pm)                                  |
| KVOE                        | a           | 100                | M<br>P             | Santa Ana, Calif.  |  |   |
| KVWC<br>KWEW                | z<br>z      | 100<br>100         | D                  | Vernon, Texas<br>Hobbs, N. Mex.  |  |   |
| KXO                         | a           | 100                |                    | El Centro, Calif.  |  |   |
| KYCA                        | z           | 100                |                    | Prescott, Ariz.  |  |   |
| KYSM<br>WCNW                | a<br>a      | 100<br>10 <b>0</b> | (.25)<br>1(.25)    | Manhato, Minn.<br>Brooklyn, N. Y.  | 9-11 am; 11 pm-mid-<br>night.                  | (6-8 am; 8-9 pm.                              |
| WDAN                        | z           | 250                | D                  | Danville, Ill.<br>Durham, N. C.  | 9 am-L. S.                                     | (6 am-L. S.)                                  |
| WDNC<br>WGAL                | a<br>a      | 100<br>100         | C<br>(.25)         | Lancaster, Pa.   | 9 am-11 pm.                                    | (6 am-8 pm)                                   |
| WGIL                        | a<br>Z      | 250                | DP DP              | Galesburg, Ill.  |  |   |
| WGKV                        | z           | 100                | P                  | Charleston, W. Pa.   |  |   |
| WHBB                        | a           | 100<br>100         | (.25)              | Selma, Ala.<br>Kosciusko, Miss.  | 10 am-10 pm.                                   | (7 am-7 pm)                                   |
| WHEF<br>WJBK                | a<br>a      | 100                | (.25)              | Detroit, Mich.   |  |   |
| WKAT                        | a           | 100                |                    | Miami Beach, Fla.  |  |   |
| WKBB                        | a           | 100                | YC(.25             | E. Dubuque, Ill.   | 9 am-1 am.                                     | (6 am-10 pm)                                  |
| WKBV<br>WKBZ                | a           | 100<br>100         | (.25)<br>(.25)     | Richmond, Ind.<br>Muskegon, Mich   | Silent   | (Silent)                                      |
| WKEU                        | a           | 100                | D                  | Griffin, Ga.   |  |   |
| WMEX                        | a           | 100                | (.25)              | Griffin, Ga.<br>Boston, Mass.  |  |   |
| WNBF                        | a           | 100                | C(.25)<br>DM       | Binghamton, N. Y.  | 9:20 am T S                                    | (F-20 - T 0)                                  |
| WNLC<br>WOMI<br>WOPI        | а<br>а<br>а | 100<br>100<br>100  | (.25)              | New London, Conn.<br>Owensboro, Ky.<br>Bristol, Tenn.                          | 8:30 am-L. S.<br>9 am-midnight.<br>8 am-10 pm. | (5:30 am-L. S.)<br>(6 am-9 pm)<br>(5 am-7 pm) |
|                             |             |                    |                    |  |  |   |

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| SUNDAY TIME   | Eastern Standard   | (Pacific Standard)                     |
|---|--|--|
| WRDW a 100 C(.25) WRGA a 100 (.25) WRTD a 100 B WSTP z 100 (.25) WSYB a 100 WSMV a 100 (.25) WWRL a 100 1(.25) WWRL a 100 (.25) | Rome, Ga. 10 am-11 pm. Richmond, Va. 8 am-midnight. Salisbury, N. C. Rutland, Vt. Silent. E. St. Louis, Ill. | (7 am-8 pm)<br>(5 am-9 pm)<br>(Silent) |
| 1510 kes. (198.6 m.)  CFRC a 100 F CKCR a 100   | Kingston, Ont.<br>Waterloo, Ont. Noon-11:15 pm.  | (9 am-8:15 pm)                         |
| 1520 kcs. (197.3 m.)<br>TGW d 1000  | Guatemala City, Guat.  |  |
| 1530 kcs. (196 m.)  CMC z 150  KITE a 1000  WBRY a 1000 M   | Havana, Cuba Kansas City, Mo. 9 am-1 am. Waterbury, Conn. 9 am-midnight.                                     | (6 am-10 pm)<br>(6 am-9 pm)            |
| 1540 kcs. (194.7 m.) CM9RT z 200  | Guines, Cuba   |  |
| 1550 kcs. (193.4 m.)  KPMC a 1000 M WQXR a 1000   | Bakersfield, Calif.<br>New York, N. Y.   |  |
| 1560 kes. (192.2 m.) CMBF z 5000  | Havana, Cuba   |  |
| 1600 kcs. (187.4 m.)  | Havana, Cuba   | •                                      |

## **Flashes**

Henry J. Leinbach of Nanticoke, Pa. informs us that WOL in Washington has moved to 1230 kcs. That W3XAL has been heard testing on 1570 kcs. That CMCY in Havana is easily heard on the new frequency of 590, and that CMQ is on 1010 kcs.

The Cincinnati Chapter of the Newark News Radio Club reports that WLW on 700, and W8XAL on 6060 kcs will broadcast a DX program for the NNRC on December 18, from 2 to 3 am, EST.

## **Broadcast Changes**

The latest changes in broadcasting station data are:

KDLR, Oevils Lake, N. Dak., is now using 100 watts nights, 250 watts to local sunset.

KDYL, Salt Lake City, now employs 5

kilowatts days, and 1 kilowatt nights.

A new station has been granted a Construction Permit, for Lihue, Hawaii. It is KTOH, owned by the Garden Island Publishing Co., Ltd. It will be on 1500 kcs., with 100 watts nights, 250 watts to local sunset.

WHEF in Kosciusko, Miss. has been deleted.

The Brooklyn stations are now out of the Court of Appeals. WARB, WBBC, WLTH and WVFW are the stations affected.

A new station for Jacksonville, Fla., WJHP, has been granted a Construction Permit. It will transmit on 1290 kcs. with 250 watts, unlimited time.

In Beckley, West Virginia, a new station, WJLS, has been granted a Construction Permit. WJLS will employ 1210 kcs., with 100 watts nights, 250 watts to local sunset.

#### NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Net work affiliations in fourth column, C Columbia, R National Red, B National Blue, N National Red and Blue.

F Canadian, M Mutual.

|   | F Canadian                         | , M Mutual.                             |                                |
|---|------------------------------------|---|--------------------------------|
| ALABAMA                                 | Little Rock                        | KJBS 1070 500                           | WDEL 1120 250 R                |
|   | KARK 890 500 N                     | KPO 680 50000 R                         | WILM 1420 100                  |
| Anniston                                | KGHI 1200 100                      | TCAN 1400 100                           | VIEW 1420 100                  |
| WHMA 1420 100                           |                                    | KSAN 1420 100                           | DISTRICT OF                    |
|   | KLRA 1390 1000 C                   | KSFO 560 1000 C                         |                                |
| Birmingham                              | Pine Bluff                         | KYA 1230 1000                           | COLUMBIA .                     |
| WAPI 1140 5000 C                        | KOTN 1500 100                      | San Jose                                |                                |
| WBRC 930 1000 R                         | Siloam Springs                     | KQW 1010 1000M                          | Washington                     |
| WSGN 1310 100 B                         | KUOA 1260 5000                     | San Luis Obispo                         |                                |
| Decatur                                 | 1200 3000                          |   | WJSV 1460 10000 C              |
| WMFO 1370 100                           |                                    |   | WMAL 630 250 B                 |
|   | CALIFORNIA                         | Santa Ana                               | WOL 1310 1000M                 |
| Dothan                                  |                                    | KVOE 1500 100M                          | WRC 950 1000 R                 |
| WAGF 1370 250                           |                                    | Santa Barbara                           |                                |
| Gadsden                                 | Bakersfield                        | KDB 1500 100M                           | TI ODIDA                       |
| WJBY 1210 100                           | KERN 1370 100 N<br>KPMC 1550 1000M | KTMS 1220 500 B                         | FLORIDA                        |
| Huntsville                              | KPMC 1550 1000M                    |   |                                |
| WBHP 1200 100                           | Berkeley                           | Santa Rosa                              | l                              |
|   | KRE 1370 100                       | KSRO 1310 100                           | Daytona Beach                  |
| Mobile                                  |                                    | Stockton .                              | WMFJ 1420 100                  |
| WALA 1380 500 C                         | Beverly Hills                      | KGDM 1100 1000M                         | Gainesville                    |
| Montgomery                              | KMPC 710 500                       | KWG 1200 100 N                          | WRUF 830 5000                  |
| WCOV 1210 100                           | Chico                              | Visalia                                 | Jacksonville                   |
| WCOV 1210 100<br>WSFA 1410 500 C        | KHSL 1260 250                      |   |                                |
| Selma 500 C                             | El Centro                          | KTKC 1190 250                           | WJAX 900 1000 N                |
|   | KXO 1500 100                       | Watsonville                             | WMBR 1370 100 C                |
| WHBB 1500 100                           |                                    | KHUB 1310 250                           | Lakeland                       |
| Muscle Shoals City                      | Eureka                             |   | WLAK 1310 100 N                |
| WMSD 1420 100                           | KIEM 1450 500M                     | COLORADO                                | Miami                          |
| Tuscaloosa                              | Fresno                             |   |                                |
| WJRD 1200 250                           | KARM 1310 100 C                    | Alamosa                                 |                                |
| WJKD 1200 230                           | KMJ 580 1000 N                     |   | WMBF 610 1000                  |
|   | Glendale                           | KGIW 1420 100                           | WQAM 560 1000 C                |
| ALASKA                                  |                                    | Colorado Springs                        | Miami Beach                    |
| A1                                      | KIEV 850 250                       | KVOR 1270 1000 C                        | WKAT 1500 100                  |
| Anchorage .                             | Long Beach                         | Denver                                  | Orlando                        |
| KFQD 780 250                            | KFOX 1250 1000                     | KFEL 920 500M                           | WDBO 580 1000 C                |
| Fairba <b>n</b> ks                      | KGER 1360 1000                     | KLZ 560 1000 C                          |                                |
| KFAR 610 1000                           | Los Angeles                        | KOA 830 50000 R                         | Pensacola                      |
| Juneau                                  | KECA 1430 1000 B                   |   | WCOA 1340 500 C                |
| KINY 1310 100                           |                                    | KPOF 880 1000                           | St. Augustine<br>WFOY 1210 100 |
|   | KEHE 780 1000                      | KVOD 920 500 B                          | WFOY 1210 100                  |
| Ketchikan                               | KFAC 1300 1000                     | Durango                                 | St. Petersburg                 |
| KGBU 900 500                            | KFI 640 50000 R                    | KIUP 1370 100                           | WSUN 620 1000 N                |
| ADIZONA                                 | KFSG 1120 500                      | Grand Junction                          |                                |
| ARIZONA                                 | KFVD 1000 1000                     | KFXJ 1200 100                           | Tallahassee                    |
| Claba                                   | KFWB 950 1000                      | C1                                      | WTAL 1310 100                  |
| Globe                                   |                                    | Greeley                                 | Tampa                          |
| KWJB 1210 100                           | KGFJ 1200 100                      | KFKA 880 500M                           | WDAE 1220 1000 C               |
| Jerome                                  | KHJ 900 1000M                      | La Junta<br>KOKO 1370 100               | WFLA 620 1000 N                |
| KCRJ 1310 100                           | KMTR 570 1000                      | KOKO 1370 100                           | West Palm Beach                |
| Lowell                                  | KNX 1050 50000 C                   | Lamar                                   |                                |
| KSUN 1200 100                           | KRKD 1120 500                      | KIDW 1420 100                           | WJNO 1200 100 C                |
| Phoenix                                 | Merced                             | Pueblo                                  |                                |
|   |                                    |   | GEORGIA                        |
| KOY 1390 1000 C                         | KYOS 1040 250                      | KGHF 1320 500 B                         | GEORGIA                        |
| KTAR 620 1000 N                         | Modesto                            | Sterling                                |                                |
| Prescott                                | KTRB 740 250                       | KGEK 1200 100                           | Albany                         |
| KYCA 1500 100                           | Monterey                           |   | WGPC 1420 100                  |
| Safford                                 | KDON 1210 100M                     | CONNECTICUT                             | Athens                         |
| KGLU 1420 100                           | Oakland                            |   | WGAU 1310 100                  |
|   | KLS 1280 250                       | Bridgeport                              |                                |
| Tucson                                  |                                    | WICC 600 500M                           | Atlanta                        |
| KGAR 1370 100 C<br>KVOA 1260 1000       |                                    | Hartford                                | WAGA 1450 500 B                |
| KVOA 1260 1000                          | KROW 930 1000                      |   | WATL 1370 100                  |
| Yuma                                    | Pasadena                           | WDRC 1330 1000 C<br>WTIC 1040 50000 R   | WGST 890 1000 C                |
| KUMA 1420 100                           | KPPC 1210 100                      | WTIC 1040 50000 R                       | WSB 740 50000 R                |
| 110111111111111111111111111111111111111 | Redding                            | WTHT 1200 100M                          | Augusta                        |
| ARKANSAS                                | KVCV 1200 100                      | New Britain                             |                                |
| ARKANSAS                                | K V C V 1200 100                   | WNBC 1380 250                           | WRDW 1500 100 C                |
| 701 -1 - 111                            | Sacramento                         | New Haven                               | Columbus                       |
| Blytheville                             | KFBK 1490 10000 N                  | WELI 900 500                            | WRBL 1200 100                  |
| KLCN 1290 100                           | KROY 1210 100 C                    |   | Griffin                        |
| El Dorado                               | San Bernardino                     | New London                              | WKEU 1500 100                  |
| KELD 1370 100                           | KFXM 1210 100M                     | WNLC 1500 100M                          | Macon                          |
| Fort Smith                              | San Diego                          | Waterbury                               |                                |
|   |                                    | WATR 1190 100                           | WMAZ 1180 1000 C               |
| KFPW 1210 100                           | KFSD 600 1000 B                    | WBRY 1530 1000M                         | Rome                           |
| Hot Springs                             | KGB _1330 1000M                    |   | WRGA 1500 100                  |
| KTHS 1060 10000 N                       | San Francisco                      | DELAWARE                                | Savannah                       |
| Jonesboro                               | KFRC 610 1000M                     | DELAWAKE                                | WSAV 1310 100                  |
| KBTM 1200 100                           | KGO 790 7500 B                     | Wilmington                              | WTOC 1260 1000 C               |
|   |                                    | 1,1111111111111111111111111111111111111 | ., 100 1200 1000 C             |

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|-----------------------------------|--|------------------------------|-----------------------------------|
| Thomasville                       | Quincy                                       | Mason City                   | Monroe                            |
| WPAX 1210 100                     | WTAD 900 1000                                | KGLO 1210 100 C              | KMLB 1200 100                     |
| Waycross                          | Rockford                                     | Shenandoah                   | New Orleans                       |
| WAYX 1200 100                     | WROK 1410 500                                | KFNF 890 500                 | WBNO 1200 100<br>WDSU 1250 1000 B |
|                                   | Rock Island<br>WHBF 1210 100                 | KMA 930 1000 B<br>Sioux City | WDSU 1250 1000 B<br>WJBW 1200 100 |
| HAWAII                            | Springfield                                  | KSCT 1330 1000 C             | WSMB 1320 1000 R                  |
| Hilo                              | WCBS 1420 100                                | KTRI 1420 100                | WWL 850 10000 C                   |
| KHBC 1400 250M                    | WTAX 1210 100                                | 11121                        | Shreveport                        |
| Honolulu                          | Tuscola                                      |                              | KRMD 1310 100                     |
| KGMB 1320 1000 C                  | WDZ 1020 250                                 | KANSAS                       | KTBS 1450 1000 N                  |
| KGU 750 2500 N                    | Urbana                                       |                              | KWKH 1100 10000 C                 |
| TDAILO                            | WILL 580 1000                                | Abilene                      |                                   |
| IDAHO                             |  | KFBI 1050 5000               | MAINE                             |
| Boise                             | INDIANA                                      | Atchison<br>KVAK 1420 100    |                                   |
| KIDO 1350 1000 N<br>Coeur d'Alene |  | Coffeyville                  | Augusta                           |
| KGCI 1200 100                     | Anderson<br>WHBU 1210 100                    | KGGF 1010 1000M              | WRDO 1370 100 M                   |
| Idaho Falls                       | WHBU 1210 100<br>Elkhart                     | Dodge City                   | Bangor                            |
| KID 1320 500                      | WTRC 1310 100                                | KGNO 1340 250                | WABJ 1200 100<br>WLBZ 620 500 C   |
| Lewiston                          | Evansville                                   | Garden City                  | WLBZ 620 500 C<br>Lewister        |
| KRLC 1390 250                     | WEOA 1370 100 C                              | KIUL 1210 100                | WCOV 1210 100                     |
| Nampa                             | WGBF 630 500 N                               | Great Bend<br>KVGB 1370 100  | Portland                          |
| VFXD 1200 100                     | Fort Wayne                                   | Hutchinson                   | WCSH 940 1000 R                   |
| Pocatello<br>KNEI 900 250 N       | WGL 1370 100 N                               | KWBG 1420 100                | WGAN 640 500                      |
| 1 win Falls                       | WOWO 1160 10000 B<br>Gary                    | Kansas City                  | Presque Isle                      |
| KTH 1240 1000 N                   | WIND 560 1000                                | KCKN 1310 100                | WAGM 1420 100                     |
| <del></del>                       | Hammond                                      | Lawrence                     | MARYLAND                          |
| LLINOIS                           | WHIP 1480 5000                               | KFKU 1220 1000               | MAKILAND                          |
| Aurora                            | WWAE 1200 100                                | WREN 1220 1000 B             | Baltimore                         |
| WMRO 1250 250                     | Indianapolis                                 | Manhattan<br>KSAC 580 500    | WBAL 760 2500 B                   |
| Bloomington                       | WFBM 1230 1000 C                             | Pittsburg                    | WBAL 1060 10000 B                 |
| WJBC 200 100                      | WIBC 1050 1000                               | KOAM 790 1000 N              | WCAO 600 1000 C                   |
| Carthage                          | WIRE 1400 1000 R<br>Muncie                   | Salina                       | WCBM 1370 100<br>WFBR 1270 500 R  |
| WCAZ 1070 100                     | WLBC 1310 100                                | KSAL 1500 100                | WFBR 1270 500 R<br>College Park   |
| Champaign<br>WDWS 1370 100        | New Albany                                   | Topeka                       | W3XJ 1060 100                     |
| Chicago                           | WGRC 1370 250                                | WIBW 580 1000 C              | Cumberland                        |
| WAAF 92U 1000                     | Richmond                                     | Wichita<br>KANS 1210 100 B   | WTBO 800 250                      |
| WBBM 770 50000 C                  | WKBV 1500 100                                | KFH 1300 1000 C              | Frederick                         |
| WCBD 1085 5000                    | South Bend<br>WFAM 1200 100                  | 1000 1000 €                  | WFMD 900 500                      |
| WCFL 970 5000 N                   | WSBT 1360 500                                |                              | Hagerstown<br>WJEJ 1210 100       |
| WCRW '210 100<br>WEDC 1210 100    | Terre Haute                                  | KENTUCKY                     | Salisbury                         |
| WENT. 870 50000 B                 | WBOW 1310 100 N                              | 4 11 1                       | WSAL 1200 250                     |
| WGES 1360 500                     | West Lafayette                               | Ashland<br>WCMI 1310 100     | *** BILL 1200 230                 |
| WGN 720 50000M                    | WBAA 890 500                                 | WCMI 1310 100<br>Covington   | MASSACHUSETTS                     |
| WJJD 1130 20000                   | IOWA   | WCKY 1490 10000 N            |                                   |
| WLS 870 50000 B                   |  | Lexington                    | Boston<br>WAAB 1410 500M          |
| WMAQ 670 50000 R                  | Ames   | WLAP 1420 100                | WAAB 1410 500M<br>WBZ 990 50000 B |
| WMBI 1080 5000<br>WSBC 1210 100   | WOI 640 5000<br>Boone                        | Louisville                   | WCOP 1120 500                     |
| WSBC 1210 100<br>Cicero           | KFGQ 1370 100                                | WAVE 940 1000 N              | WEEI 590 1000 C                   |
| WHFC 1420 100                     | Cedar Rapids                                 | WHAS 820 50000 C             | WHDH 830 1000                     |
| Danville                          | WMT 600 1000 B                               | Owensboro<br>WOMI 1500 100   | WMEX 1500 100                     |
| WDAN 1500 250                     | Davenport                                    | Paducah                      | WNAC 1230 1000 R                  |
| Decatur                           | WOC 1370 100 C                               | WPAD 1420 100                | WORL 920 500                      |
| WJBL 1200 100                     | Decorah                                      |                              | Cape Cod<br>WOCB 1210 100         |
| East Dubuque WKBB 1500 100 C      | KGCA 1270 100<br>KWLC 1270 100               |                              | Fall River                        |
| WKBB 1500 100 C<br>East St. Louis | KGCA 1270 100<br>KWLC 1270 100<br>Des Moines | LOUISIANA                    | WSAR 1450 1000M                   |
| WTMV 1500 100                     | KRNT 1320 1000 C                             |                              | Greenfield                        |
| Galesburg                         | KSO 1430 500 B                               | Alexandria                   | WHAI 1210 250                     |
| WGIL 1500 250                     | WHO 1000 50000 R                             | KALB 1210 100                | Lawrence                          |
| Harrisburg                        | Dubuque                                      | Baton Rouge                  | WLAW 680 1000                     |
| WEBQ 1210 100                     | KDTH 1340 500                                | WJBO 1120 500 B<br>Lafayette | WLLH 1370 100M                    |
| Joliet<br>WCLS 1310 100           | Iowa City<br>WSUI 880 500                    | KVOL 1310 100                | Lowell<br>WLLH 1370 100           |
| WCLS 1310 100<br>Peoria           | Marshalltown                                 | Lake Charles                 | New Bedford                       |
| WMBD 1440 1000 C                  | KFJB 1200 100                                | KPLC 1500 100                | WNLH 1310 100M                    |
|                                   |  |                              |                                   |

| Pittsfield   |  |   |  |
|--|--|---|--|
|  | Northfield   | Bozeman   | Whippany   |
|  |  |   | Windhand Room  |
| WBRK 1310 100 C  | WCAL 760 1000  | KRBM 1420 100   | W3XDD 50000  |
| Springfield  | Rochester  | Butte   | Zarephath  |
|  | KROC 1310 100  | KGIR 1340 1000 N  | WAWZ 1350 500  |
| WBZA 990 1000 B  | KROC 1310 100<br>St. Cloud   |   | WAWZ 1330 300  |
| WMAS 1420 100 C  | · St. Cloud  | Great Falls   |  |
| WSPR 1140 500M   | KFAM 1420 100  | KFBB 1280 1000 C  | NEW MEXICO   |
|  | St. Deut   | Helena  | MEW MEXICO   |
| Worcester  | St. Paul   |   |  |
| WORC 1280 500 C  | KSTP 1460 10000 R  | KPFA 1210 100 N   | Albuquerque  |
| WTAG 580 1000 R  | WMIN 1370 100  | Kalispell   |  |
| WIAG 360 1000 K  |  |   |  |
|  | Virginia   |   | KOB 1180 10000 N   |
| MICHIGAN   | WHLB 1370 100 C  | Lewistown   | Carlsbad   |
| MICHIGAN   | Winona   | KDNC 1200 100   |  |
|  |  |   | KLAH 1210 100  |
| Datala Casola  | KWNO 1200 250  | Missoula  | Clovis   |
| Battle Creek   |  | KGVO 1260 1000 C  | KICA 1370 100  |
| WELL 1420 100 B  |  | Wolf Point  |  |
| Bay City<br>WBCM 1410 500  | MISSISSIPPI  | Wolf Point  | Gallup   |
| WBCM 1410 500  |  | KGCX 1450 1000  | KAWM 1500 100  |
| W B C M 1410 500   | Grenada  |   | Hobbs  |
| Calumet  |  | NEBRASKA  |  |
| WHDF 1370 100  | WGRM 1210 100  | NEDKASKA  | KWEW 1500 100  |
|  | Gulfport   |   | Roswell  |
| Detroit  | WGCM 1210 100  | Clay Center   |  |
| WJBK 1500 100  |  | KMMJ 740 1000   |  |
| WJR 750 50000 C  | Hattiesburg  |   | Santa Fe   |
| WJR /30 30000 C  | WFOR 1370 100  | Kearney   | KRQA 1310 100  |
| WMBC 1420 100  |  | KGFW 1310 100   | 1717 1910 190  |
| WWJ 920 5000 R   | Jackson  |   |  |
|  | WJDX 1270 1000 R   | Lincoln   |  |
| WXYZ 1240 1000 B<br>East Lansing   | WSLI 1420 100  | KFAB 770 10000 C  | NEW YORK   |
| East Lansing   |  | KFOR 1210 100 C   |  |
| WKAR 850 1000  | Kosciusko  |   | Albaner  |
|  | WHEF 1500 100  | Norfolk   | Albany   |
| Flint  |  | WTAG 1060 1000  | WABY 1370 100 N  |
| WFDF 1310 100 B  | Laurel   | North Platte  | WOKO 1430 500 C  |
| Grand Rapids   | WAML 1310 100  |   |  |
| Grand Rapids   | Meridian   | KGNF 1430 1000  | Auburn   |
| WASH 1270 500 N<br>WOOD 1270 500 N   |  | Omaha   | WMBO 1310 100  |
| WOOD 1270 500 N  |  | KOIL 1260 1000 B  | Binghamton   |
|  | Vicksburg  |   | WNBF 1500 100 C  |
| Ironwood   | WQBC 1360 1000   | WAAW 660 500  |  |
| WJMS 1420 100  | WQDC 1300 1000   | WOW 590 1000 R  | Brookly <b>n</b>   |
| Jackson  |  | Scottsbluff   | WARD 1400 500  |
|  | 2414404177   | Scottsblum  |  |
|  | MISSOURI   | KGKY 1500 100   | WBBC 1400 500  |
| Kalamazoo  |  |   | WBBR 1300 1000   |
| WKZO 590 1000 B  |  |   |  |
|  | Cape Girardeau   | NEVADA  |  |
|  |  |   |  |
| Lansing  |  |   | WLTH 1400 500  |
| Lansing  | KFVS 1210 100  | Done  |  |
| Lansing<br>WJIM 1210 100 B   | KFVS 1210 100<br>Columbia  | Reno  | WVFW 1400 500  |
| Lansing<br>WJIM 1210 100 B<br>Lapeer   | KFVS 1210 100<br>Columbia<br>KFRU 630 500  | Reno<br>KOH 1380 500 C  | WVFW 1400 500<br>Buffalo   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100   | KFVS 1210 100<br>Columbia<br>KFRU 630 500  |   | WVFW 1400 500<br>Buffalo<br>WREN 900 1000 B  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100   | KFVS 1210 100<br>Columbia<br>KFRU 630 500<br>Jefferson City  | KOH 1380 500 C  | WVFW 1400 500<br>Buffalo<br>WREN 900 1000 B  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette   | KFVS 1210 100<br>Columbia<br>KFRU 630 500<br>Jefferson City<br>KWOS 1310 100   | KOH 1380 500 C  | WVFW 1400 500  Buffalo  WBEN 900 1000 B  WBNY 1370 100 _   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100   | KFVS 1210 100<br>Columbia<br>KFRU 630 500<br>Jefferson City  |   | WVFW 1400 500<br>Buffalo<br>WBEN 900 1000 B<br>WBNY 1370 100<br>WEBR 1310 100 P  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon  | KFVS 1210 100<br>Columbia<br>KFRU 630 500<br>Jefferson City<br>KWOS 1310 100<br>Joplin   | KOH 1380 500 C NEW HAMPSHIRE  | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 P WEBR 1310 100 P WGR 550 1000 C   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon  | KFVS 1210 100<br>Columbia<br>KFRU 630 500<br>Jefferson City<br>KWOS 1310 100<br>Joplin<br>WMBH 1420 100  | KOH 1380 500 C  | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100  | KFVS 1210 100<br>Columbia<br>KFRU 630 500<br>Jefferson City<br>KWOS 1310 100<br>Joplin<br>WMBH 1420 100<br>Kansas City   | NEW HAMPSHIRE  Laconia  | WVFW 1400 500<br>Buffalo<br>WBEN 900 1000 B<br>WBNY 1370 100<br>WEBR 1310 100 P<br>WGR 550 1000 C<br>WKBW 1480 5000 C  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron   | KFVS 1210 100<br>Columbia<br>KFRU 630 500<br>Jefferson City<br>KWOS 1310 100<br>Joplin<br>WMBH 1420 100  | NEW HAMPSHIRE  Laconia WLNH 1310 100M   | WVFW 1400 500<br>Buffalo<br>WBEN 900 1000 B<br>WBNY 1370 100<br>WEBR 1310 100 P<br>WGR 550 1000 C<br>WKBW 1440 5000 C<br>WSVS 1370 50  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250   | KFVŠ 1210 100<br>Columbia<br>KFRU 630 500<br>Jefferson City<br>KWOS 1310 100<br>Joplin<br>WMBH 1420 100<br>Kansas City<br>KCMO 1370 100  | KOH 1380 500 C  NEW HAMPSHIRE  Laconia  WLNH 1310 100M  Manchester  | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 Canton  |
| Lansing WJIM 1210 100 B Laper WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Roval Oak  | KFVS 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000   | NEW HAMPSHIRE  Laconia WLNH 1310 100M   | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 Canton  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak   | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C   | KOH 1380 500 C  NEW HAMPSHIRE  Laconia WLNH 1310 100M Manchester WFEA 1340 500 N  | WVFW 1400 500  Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 Canton WCAD 1220 500   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50  | KFVS 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000   | KOH 1380 500 C  NEW HAMPSHIRE  Laconia WLNH 1310 100M Manchester WFEA 1340 500 N Portsmouth   | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 Canton WCAD 1220 500 Elmira  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw  | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R   | KOH 1380 500 C  NEW HAMPSHIRE  Laconia WLNH 1310 100M Manchester WFEA 1340 500 N  | WVFW 1400 500  Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WKBW 1480 5000 C WKSVS 1370 50 Canton WCAD 1220 500 Elmira WENY 1200 250   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw  | KFVS 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M   | KOH 1380 500 C  NEW HAMPSHIRE  Laconia WLNH 1310 100M Manchester WFEA 1340 500 N Portsmouth   | WVFW 1400 500  Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WKBW 1480 5000 C WKSVS 1370 50 Canton WCAD 1220 500 Elmira WENY 1200 250   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50  | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff  | KOH 1380 500 C  NEW HAMPSHIRE  Laconia  WLNH 1310 100M  Manchester  WFEA 1340 500 N  Portsmouth  WHEB 740 250   | WVFW 1400 500  Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WKBW 1480 5000 C WKBW 1480 5000 C WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500   | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100  | KOH 1380 500 C  NEW HAMPSHIRE  Laconia WLNH 1310 100M Manchester WFEA 1340 500 N Portsmouth   | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 Canton WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw  | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100  | KOH 1380 500 C  NEW HAMPSHIRE  Laconia  WLNH 1310 100M  Manchester  WFEA 1340 500 N  Portsmouth  WHEB 740 250   | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 Canton WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500 MINNESOTA   | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100  | KOH 1380 500 C  NEW HAMPSHIRE  Laconia WLNH 1310 100M Manchester WFEA 1340 500 N Portsmouth WHEB 740 250  NEW JERSEY  | WVFW 1400 Buffalo WBEN 900 WBEN 1370 WEBR 1310 WGR 550 WKBW 1480 WSVS 1370 Canton WCAD 1220 EImira WENY 1200 WESG 850 Freeport WGBB 1210 1000 B  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500  MINNESOTA Albert Lea   | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500   | KOH 1380 500 C  NEW HAMPSHIRE  Laconia WLNH 1310 100M Manchester WFEA 1340 500 N Portsmouth WHEB 740 250  NEW JERSEY  Asbury Park   | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WBRY 1310 100 P WGR 550 1000 C WSVS 1370 Canton WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C Freeport WGBB 1210 100 Inmestown  |
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| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 100 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C                                    | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 MBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 C KSD 550 1000 C KSD 550 1000 B KXOK 1250 1000 WEW 760 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000                                   | NEW HAMPSHIRE   | WVFW 1400 Buffalo WBEN 900 WBEN 1370 WEBR 1310 WEBR 1310 WGR 550 WKBW 1480 WSVS 1370 Canton WCAD 1220 Elmira WENY 1200 WESG 850 Freeport WGBB 1210 Jamestown WJTN 1210 New York WABC 860 WBNX 1350 WBOQ 860 WENG 860 WBOQ 860 WEAF 660 WEAF 660 WEAF 1300 WHN 1010 WINS 1180 1000 B 1000 WINS 1180 1000 B 1000 WBNX 1350 WBOQ 1300 WFAB 1300 WHN 1010 WINS 1180 1000 WINS 1180 1000 B WEVD 1300 WHN 1010 WINS 1180 1000 WINS 1180 1000 WBNNS 1180 1000 WBNNS 1180 1000 WHN 1010 1000 WINS 1180 1000 WINS 1180 1000 WBNNS 1180 1000 WBNNS 1180 1000 WINS 1180 1000 WEVD 1000 WINS 1180 1000 WINS 1180 1000 WBNS 1180 1000 WINS 1180 1000 WBNS  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WDGY 1180 1000 C              | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Kansas City KCMO 1370 100 KMBH 1420 100 KANSAS CITY KCMO 1370 100 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KWK 1350 1000 B KWK 1350 1000 B KWK 1250 1000 WIL 1200 100 Springfield KGBX 1230 500 N  | KOH 1380 500 C  NEW HAMPSHIRE  Laconia WLNH 1310 100M Manchester WFEA 1340 500 N Portsmouth WHEB 740 250  NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WOR 710 50000M Red Bank | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WSVS 1370 50 Canton WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C Freeport WGBB 1210 100 Jamestown WJTN 1210 100 B Newburgh WGNY 1210 100 New York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WEAF 660 50000 R WEVD 1300 1000 WHN 1010 1000 WHN 1180 1000 WHN 1180 1000 WJZ 760 50000 F   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WDGY 1180 1000 C              | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 MBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 C KSD 550 1000 C KSD 550 1000 B KXOK 1250 1000 WEW 760 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000                                   | KOH 1380 500 C  NEW HAMPSHIRE  Laconia WLNH 1310 100M Manchester WFEA 1340 500 N Portsmouth WHEB 740 250  NEW JERSEY  Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WOR 710 50000M Red Bank | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WEBR 1310 100 P WGR 550 1000 C WSVS 1370 50 Canton WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C Freeport WGBB 1210 100 Jamestown WJTN 1210 100 B Newburgh WGNY 1210 100 New York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WEAF 660 50000 R WEVD 1300 1000 WHN 1010 1000 WHN 1180 1000 WHN 1180 1000 WIJZ 760 50000 F   |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WLB 760 1000 WTCN 1250 1000 B | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KMBC 950 1000 C WDAF 610 1000 C WDAF 610 1000 M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 KMOX 1090 50000 C KSD 550 1000 R KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 B KXOK 1250 1000 B KXOK 1250 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000  | NEW HAMPSHIRE   | WVFW 1400  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WLB 760 1000 WTCN 1250 1000 B Moorhead         | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 MBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 C KSD 550 1000 C KSD 550 1000 B KWK 1350 1000 B KWK 1350 1000 B KWK 1350 1000 B KWK 1250 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000 | NEW HAMPSHIRE   | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WERR 550 1000 C WKBW 1440 5000 C C Anton WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C Freeport WGBB 1210 100 B WGNY 1210 New York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WFAB 1300 1000 WFAB 1300 1000 WFAB 1300 1000 WFAB 1300 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 180 1000 WINS 180 1000 WINS 1180 1000 WINS 180 1000 WINS 1180 1000 WINS 180 1000 WINS 1180 1000 WINS 1250 1000 WNEW 1250 1000  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WLB 760 1000 WTCN 1250 1000 B Moorhead         | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 MBH 1420 100 Kansas City KCMO 1370 100 KITE 1530 1000 KMBC 950 1000 C WDAF 610 1000 R WHB 860 1000M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 C KSD 550 1000 C KSD 550 1000 B KWK 1350 1000 B KWK 1350 1000 B KWK 1350 1000 B KWK 1250 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000 | NEW HAMPSHIRE   | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WERR 550 1000 C WKBW 1440 5000 C C Anton WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C Freeport WGBB 1210 100 B WGNY 1210 New York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WBNX 1350 1000 WFAB 1300 1000 WFAB 1300 1000 WFAB 1300 1000 WFAB 1300 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 1180 1000 WINS 180 1000 WINS 180 1000 WINS 1180 1000 WINS 180 1000 WINS 1180 1000 WINS 180 1000 WINS 1180 1000 WINS 1250 1000 WNEW 1250 1000  |
| Lansing WJIM 1210 100 B Lapeer WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Port Huron WHLS 1370 250 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500  MINNESOTA  Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Mankato KYSM 1500 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WLB 760 1000 WTCN 1250 1000 B | KFVŠ 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KMBC 950 1000 C WDAF 610 1000 C WDAF 610 1000 M Poplar Bluff KWOC 1310 100 St. Joseph KFEQ 680 2500 KMOX 1090 50000 C KSD 550 1000 R KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 B KXOK 1250 1000 B KXOK 1250 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000  | NEW HAMPSHIRE   | WVFW 1400 500 Buffalo WBEN 900 1000 B WBNY 1370 100 WERR 550 1000 C WKWBW 1480 5000 C Canton WCAD 1220 500 Elmira WENY 1200 250 WESG 850 1000 C Freeport WGBB 1210 100 B Newburgh WGNY 1210 New York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WEAF 660 50000 R WEVD 1300 1000 WHN 1010 1000 WIJZ 760 50000 F WMCA 570 1000 WNEW 1250 1000  |

| WOV 1130 1000<br>WQXR 1550 1000  | <b>Mandan</b><br><b>KGCU</b> 1240 250 | KTUL 1400 1000 C<br>KVOO 1140 25000 N | WTEL 1310 100<br>Pittsburgh         |
|----------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|
| Ölean                            | Minot                                 |                                       | KDKA 980 50000B                     |
| WHDL 1400 250                    | KJ PM 1240 250                        | OREGON                                | KQV 1380 500 C                      |
| Plattsburg                       | Valley City                           | Astoria<br>KAST 1370 100              | WCAE 1220 1000 R                    |
| WMFF 1310 100 B<br>Rochester     | KOVC 1500 100                         | KAST 1370 100<br>Baker                | WJAS 1290 1000 C<br>WWSW 1500 100   |
| WHAM 1150 50000 B                | OHIO                                  | KBKR 1500 100                         | Reading                             |
| WHEC 1430 500 C<br>WSAY 1210 100 | Akron                                 | Bend                                  | WEEU 830 1000                       |
|                                  | WADC 1320 1000 C<br>WJW 1210 100      | KBND 1310 100                         | WRAW 1310 100                       |
| Saranac Lake                     | Ashtabula                             | Corvallis<br>KOAC 550 1000            | Scranton                            |
| WNBZ 1290 100<br>Schenectady     | WICA 940 250                          | Eugene 1000                           | WGBI 880 500 C<br>WQAN 880 500      |
| WGY 790 50000 R                  | Canton                                | KORE 1420 100M                        | WQAN 880 500<br>Sharon              |
| Syracuse                         | WHBC 1200 100                         | Klamath Falls                         | WPIC 780 250                        |
| WFBL 1360 1000 C                 | Cincinnati<br>WCPO 1200 100           | KFJI 1210 100                         | Sunbury                             |
| WSYR 570 1000 B                  | WKRC 550 1000 C                       | La Grande<br>KLBM 1420 100            | WKOK 1210 100                       |
| WSYU 570 1000<br>Troy            | WLW 700 500000N                       | Marshfield                            | Uniontown<br>WMBS 1420 250          |
| WHAZ 1300 1000                   | WSAI 1330 1000 N                      | KOOS 1200 100                         | Wilkes-Barre                        |
| WTRY 950 1000                    | Cleveland                             | Medford                               | I WBAX 1210 100M                    |
| Utica                            | WCLE 610 500M<br>WGAR 1450 500 C      | KMED 1410 250 N                       | WBRE 1310 100 N                     |
| WIBX 1200 100C                   | WHK 1390 1000 B                       | Portland<br>KALE 1300 1000M           | Williamsport                        |
| White Plains<br>WFAS 1210 100    | WTAM 1070 50000 R                     | KBPS 1420 100                         | WRAK 1370 100<br>York               |
| WFAS 1210 100<br>Woodside        | Columbus                              | KEX 1180 5000 B                       | WORK 1320 1000 N                    |
| WWRL 1500 100                    | WBNS 1430 1000 C<br>WCOL 1210 100 N   | KGW 620 1000 R                        |                                     |
| NORTH CAROLINA                   | WHKC 640 500M                         | KOIN 940 1000 C                       | PUERTO RICO                         |
| Asheville                        | WOSU 570 750                          | KWJJ 1040 500<br>KXL 1420 100         | Mayaguez<br>WPRA 1370 100           |
| WWNC 570 1000 N                  | Dayton                                | Roseburg                              | Ponce                               |
| Charlotte                        | WHIO 1260 1000 C                      | KRNR 1500 100M                        | WPRP 1420 100                       |
| WBT 1080 50000 C                 | WSMK 1380 200 C<br>Lima               | Salem                                 | San Juan                            |
| WSOC 1210 100 N                  | WBLY 1210 100                         | KSLM 1370 100M                        | WKAQ 1240 1000                      |
| Durham<br>WDNC 1500 100 C        | Portsmouth                            | PENNSYLVANIA                          | WNEL 1290 1000                      |
| Fayetteville                     | WPAY 1370 100                         |                                       | RHODE ISLAND                        |
| WFNC 1340 250                    | Toledo<br>WSPD 1340 1000 B            | Allentown<br>WCBA 1440 500            | Providence                          |
| Gastonia                         | WTOL 1200 100                         | WSAN 1440 500 N                       | WEAN 780 1000M<br>WJAR 890 1000 R   |
| WGNC 1420 100<br>Greensboro      | Youngstown                            | Altoona                               | WJAR 890 1000 R<br>WPRO 630 500 C   |
| WBIG 1440 1000 C                 | WFMJ 1420 100                         | WFBG 1310 100                         |                                     |
| High Point                       | WKBN 570 500 C<br>Zanesville          | Easton<br>WEST 1200 100               | SOUTH CAROLINA                      |
| WMFR 1200 100                    | WALR 1210 100                         | Erie 1200 100                         | Anderson                            |
| Kinston<br>WFTC 1200 100         |                                       | WLEU 1420 100 B                       | WAIM 1200 100 C<br>Charleston       |
| Raleigh                          | OKLAHOMA                              | Glenside                              | WCSC 1360 500 N                     |
| WPTF 680 5000 N                  | Ada                                   | WIBG 970 100                          | WTMA 1210 100                       |
| WRAL 1210 100                    | KADA 1200 100M<br>Ardmore             | Greensburg<br>WHJB 620 250 C          | Columbia                            |
| Rocky Mount<br>WEED 1420 100     | KVSO 1210 100M                        | Grove City                            | WCOS 1370 100<br>WIS 560 1000 N     |
| WEED 1420 100<br>Salisbury       | Elk City                              | WSAJ 1310 100                         | WIS 560 1000 N<br>Florence          |
| WSTP 1500 100                    | KASA 1210 100                         | Harrisburg                            | WOLS 1200 100                       |
| Wilmington                       | Enid                                  | WHP 1430 500 C<br>WKBO 1200 100 ·     | Greenville                          |
| WMFD 1370 100                    | KCRC 1360 250M<br>Muskogee            | Hazelton                              | WFBC 1300 1000 N                    |
| Wilson<br>WGTM 1310 100          | KBIX 1500 100M                        | WAZL 1420 100                         | Spartanburg<br>WSPA 920 1000        |
| Winston-Salem                    | Norman                                | Johnstown                             | WSPA 920 1000                       |
| WAIR 1250 \$250                  | WNAD 1010 1000                        | WJAC 1310 100                         | SOUTH DAKOTA                        |
| WSJS 1310 100 C                  | Oklahoma City<br>KOCY 1310 100        | Lancaster<br>WGAL 1500 100 N          | Aberdeen                            |
| NORTH DAKOTA                     | KOCY 1310 100<br>KOMA 1480 5000 C     | New Castle                            | KABR 1390 500                       |
| Bismarck                         | KTOK 1370 100M                        | WKST 1250 250                         | Brookings                           |
| KFYR 550 1000 N                  | WKY 900 1000 N                        | Philadelphia                          | KFDY 780 1000                       |
| Devils Lake<br>KDLR 1210 100     | Okmulgee                              | KYW 1020 10000 R<br>WCAU 1170 50000 C | Pierre<br>KGFX 630 200              |
| Fargo                            | KHBG 1210 100<br>Ponca City           | WDAS 1370 100                         | KGFX 630 200<br>Rapid City          |
| Fargo<br>WDAY 940 1000 N         | WBBZ 1200 100M                        | WFIL 560 1000 B                       | KOBH 1370 100                       |
| Grand Forks                      | Shawnee                               | WHAT 1310 100                         | WCAT 1200 100                       |
| KFJM 1410 500<br>Jamestown       | KGFF 1420 100W                        | WIP 610 1000<br>WPEN 920 1000         | Sioux Falls                         |
| KRMC 1370 100                    | KOME 1310 250                         | WRAX 920 1000                         | KELO 1200 100 N<br>KSOO 1110 5000 N |
|                                  |                                       |                                       |                                     |
|                                  |                                       |                                       |                                     |

| NORTH                               | AMERICAN B. C. S                     | STATIONS BY LO                         | CATIONS                           |
|-------------------------------------|--------------------------------------|--|-----------------------------------|
| Vermillion                          | KPRC 920 1000 R                      | St. Albans                             | WGKV 1500 100                     |
| KUSD 890 500                        | KTRH 1290 1000 C                     | WQDM 1390 1000                         | Clarksburg                        |
| Yankton                             | KXYZ 1440 1000 B                     | Springfield                            | WBLK 1370 100                     |
| WNAX 570 1000 C                     | Huntsville                           | WNBX 1260 500 C                        | Fairmont<br>WMMN 890 500 C        |
| TENNESSEE                           | KSAM 1500 100<br>Kilgore             | Waterbury<br>WDEV 550 500              | Huntington                        |
| Bristol                             | KOCA 1210 100                        |  | WSAZ 1190 1000                    |
| WOPI 1500 100                       | Laredo                               | VIRGINIA                               | Parkersburg                       |
| Chattanooga<br>WAPO 1420 100 N      | KPAB 1500 100                        | Charlottesville                        | WPAR 1420 100 C                   |
| WAPO 1420 100 N<br>WDOD 1280 1000 C | Longview                             | WCHV 1420 100                          | Wheeling<br>WWVA 1160 5000 C      |
| Jackson                             | KFRO 1370 250M<br>Lubbock            | Danville<br>WBTM 1370 100              |                                   |
| WTJS 1310 100                       | KFYO 1310 100M                       | Harrisonburg                           | WISCONSIN                         |
| Johnson City                        | Lufkin                               | WSVA 550 500                           | Eau Claire                        |
| WJHL 1200 100                       | KRBA 1310 100                        | Lynchburg                              | WEAU 1050 1000                    |
| Knoxville<br>ANOX 1010 1000 C       | Midland<br>KRLH 1420 100             | WLVA 1200 100                          | Fond du Lac                       |
| WROL 1310 100 N                     | KRLH 1420 100<br>Palestine           | Newport News<br>WGH 1310 100           | KFIZ 1420 100                     |
| Memphis                             | KNET 1420 100                        | Norfolk                                | Green Bay<br>WHBY 1200 100        |
| WHBQ 1370 100                       | Pampa                                | WTAR 780 1000 N                        | WHBY 1200 100<br>WTAQ 1330 1000 C |
| WMC 780 1000 R<br>WMPS 1430 500 B   | KPDN 1310 100                        | Petersburg                             | Janesville                        |
| WREC 600 1000 C                     | Paris<br>KPLT 1500 250M              | WPIV 1210 100                          | WCLO 1200 100                     |
| Nashville                           | KPLT 1500 250M<br>Pecos              | Richmond<br>WBBL 1210 100              | LaCrosse                          |
| WLAC 1470 5000 C                    | KIUN 1420 100                        | WMBG 1350 500 R                        | WKBH 1380 1000 C<br>Madison       |
| WSTX 1210 100                       | Port Arthur                          | WRNL 880 500                           | WHA 940 5000                      |
| WSM 650 50000 N                     | KPAC 1260 500                        | WRTD 1500 100 B                        | WIBA 1280 1000 N                  |
| TEXAS                               | San Angelo<br>KGKL 1370 100          | WRVA 1110 5000 C                       | Manitowoc                         |
| Abilene                             | KGKL 1370 100<br>San Antonio         | Roanoke<br>WDBT 930 1000 C             | WOMT 1210 100                     |
| KRBC 1420 100M                      | KABC 1420 100M                       |  | Milwaukee                         |
| Amarillo                            | KMAC 1370 100                        | WASHINGTON                             | WEMP 1310 100<br>WISN 1120 250 C  |
| KGNC 1410 1000 N                    | KONO 1370 100                        | Aberdeen                               | WTMJ 620 1000 N                   |
| Austin<br>KNOW 1500 100 C           | KTSA 550 1000 C<br>WOAI 1190 50000 N | KXRO 1310 100M<br>Bellingham           | Poynette                          |
| KTBC 1120 1000                      | WOAI 1190 50000 N<br>Sherman         | KVOS 1200 100M                         | WIBU 1210 100                     |
| Beaumont                            | KRRV 1310 250                        | Centralia                              | Racine<br>WRJN 1370 100           |
| KFDM 560 500 N                      | Temple                               | KELA 1440 500M                         | Rice Lake                         |
| KRIC 1410 100M                      | KTEM 1370 250M                       | Everett<br>KRKO 1370 50                | WJMC 1210 250                     |
| Big Spring<br>KBST 1500 100M        | Texarkana<br>KCMC 1420 100M          | KRKO 1370 50<br>Longview               | Sheboygan                         |
| Brady                               | Tyler                                | KWLK 780 250                           | WHBL 1300 250                     |
| KNEL 1500 250                       | KGKB 1500 100M                       | Olympia                                | Stevens Point<br>WLBL 900 5000    |
| Brownsville                         | Vernon                               | K6Y 1210 100 M                         | Superior                          |
| KGFI 1500 100<br>College Station    | KVWC 1500 100                        | Pullman<br>KWSC 1220 1000              | WDSM 1200 100                     |
| WTAW 1120 500                       | Waco<br>WACO 1420 100 C              | Seattle                                | Wausau                            |
| Corpus Christi                      | Weslaco                              | KEEN 1370 100                          | WSAU 1370 100                     |
| KRIS 1330 500 N                     | KRGV 1260 1000 N                     | KIRO 710 1000 C                        | WYOMING                           |
| Corsicana                           | Wichita Falls                        | KJR 970 5000 B                         |                                   |
| KAND 1310 100M<br>Dallas            | KWFT 620 250                         | KOL 1270 1000 M<br>KOMO 920 1000 R     | Casper<br>KDFN 1440 500           |
| KRLD 1040 10000 C                   | UTAH                                 | KRSC 1120 250                          | Rock Springs                      |
| WFAA 800 50000 N                    | UIAH                                 | KTW 1220 1000                          | KVRS 1370 100                     |
| WRR 1280 500M                       | Cedar City                           | KXA 760 250                            | Sheridan                          |
| Denton                              | KSUB 1310 100                        | Spokane                                | KWYO 1370 100                     |
| KDNT 1420 100                       | Logan                                | KFÎO 1120 100<br>KFPY 890 1000 C       | BAHAMAS                           |
| Dublin<br>KFPL 1310 100             | KVNU 1500 100                        | KFPY 890 1000 C  <br>  KGA 1470 5000 B |                                   |
| El Paso                             | Ogden<br>KLO 1400 500 B              | KHO 590 1000 R                         | Nassau<br>ZNS 540 400             |
| KROD 1500 100                       | Price 1400 300 B                     | Tacoma                                 | 2113 340 400                      |
| KTSM 1310 100 N                     | KEUB 1420 100                        | KMO 1330 1000M                         | CANADA                            |
| WDAH 1310 100                       | Salt Lake City                       | KVI 570 1000 C                         | . AT DEDTA                        |
| Fort Worth<br>KFIZ 1370 100M        | KDYL 1290 1000 R<br>KSL 1130 50000 C | Walla Walla<br>KUJ 1370 100            | ALBERTA                           |
| KGKO 570 100M                       | KSL 1130 50000 C<br>KUTA 1500 100 N  | Wenatchee                              | Calgary                           |
| KTAT 1240 1000M                     |                                      | KIT 1250 250M                          | CFAC 930 1000 F                   |
| WBAP 800 50000 N                    | VERMONT                              | WEST VIRGINIA                          | CFCN 1030 10000<br>CJCJ 690 100 F |
| Galveston 100M                      | D                                    | Bluefield                              | Edmonton                          |
| KLUF 1370 100M<br>Greenville        | Burlington<br>WCAX 1200 100          | WHIS 1410 500                          | CFRN 960 100 F                    |
| KGVL 1200 100                       | Rutland                              | Charleston                             | CJCA 730 1000 F                   |
| Houston                             | WSYB 1500 100                        | WCHS 580 500 C                         | CKUA 580 500                      |
|                                     |                                      |  |                                   |

| NORTH .                        | AMERICAN B. C. S                    | STATIONS BY LO                   | CATIONS .                       |
|--------------------------------|-------------------------------------|----------------------------------|---------------------------------|
| Grande Prairie                 | Cobalt                              | CBV 950 1000 F                   | CMCF 810 5000                   |
| CFGP 1200 100                  | CKMC 1210 50                        | Rimouski                         | CMCG 1290 150                   |
| Lethbridge                     | CKMC 1210 50<br>Fort William        | CJBR 1030 1000 F                 | CMCI 1110 500                   |
| CJOC 950 100 F                 | CKPR 730 100 F                      | St. Anne de la                   | CMCK 970 5000                   |
|                                | Hamilton<br>CHML 1010 100 F         | Pocatiere<br>CHGB 1200 100       | CMCL 730 10000<br>CMCO 1200 150 |
| BRIT. COLUMBIA                 | CHML 1010 100 F<br>CKOC 1120 500 F  | CHGB 1200 100<br>Sherbrooke      | CMCR 660 150                    |
|                                | Kenora                              | CHLT 1210 100                    | CMCU 780 150                    |
| Chilliwack                     | CKCA 1420 100                       | Three Rivers                     | CMCW 1380 150                   |
| CHWK 780 100 F                 | Kingston                            | CHLN 1420 100                    | CMCX 1380 150                   |
| Kamloops<br>CFJC 880 1000 F    | CFRC 1510 100 F                     | SASKATCHEWAN                     | CMCY 590 10000                  |
| Kelowna                        | London                              | SASKATCHEWAN                     | CMK 720 250<br>CMOA 910 250     |
| CKOV 630 100 F                 | CFPL 730 100 F<br>North Bay         | Moose Jaw                        | CMOA 910 250<br>CMOX 1500 200   |
| Prince Rupert                  | CFCH 930 100 F                      | CHAB 1200 100 F                  | CMQ 1010 25000                  |
| Crap 580 50                    | CJKL 1310 100 F                     | Prince Albert<br>CKBI 1210 100 F | CMW 880 1400                    |
| Trail<br>CJAT 910 000 F        | CKGB 1420 100 F                     | Regina                           | CMX 1260 1000                   |
| Vancouver                      | Ottawa                              | CIRM 540 1000 F                  | Holguin                         |
| CBR 1100 5000 F                | CBO 880 1000 F<br>CKSO 1010 100 F   | CKCK 1010 1000 F                 | CMKF 1460 250<br>CMKO 1280 200  |
| CJOR 600 500                   | Owen Sound                          | Saskatoon                        | CMKO 1280 200<br>Manzanillo     |
| CKCD 1010 100                  | 1370 100                            | CFQC 840 1000 F                  | CMKM 1120 100                   |
| CKFC 1410 50                   | Prescott                            | Yorkton<br>CJGX 1390 100 F       | Matanzas                        |
| CKMO 1410 100<br>CKWX 1010 100 | CFLC 930 100                        | C)GX 1390 100 F                  | CMGC 1400 200                   |
| CKWX 1010 100<br>Victoria      | St. Catharines                      | COSTA RICA                       | CMGF 1120 75                    |
| CFCT 1450 500                  | CKTB 1200 100 F<br>Sault Ste. Marie | San Jose                         | CMGH 790 250<br>Moron           |
|                                | CIIC 1500 100 F                     | TIPG 625 2000                    | CMJP 1430 75                    |
| MANITOBA                       | Stratford                           | TIX 650 1000 ·                   | Palma Soriano                   |
|                                | CJCS 1210 50                        | CUBA                             | CMKZ 1430 125                   |
| Brandon                        | Sudbury                             |                                  | Pinar del Rio                   |
| CKX 1120 1000 F<br>Flin Flon   | CKSO 780 1000 F<br>Toronto          | Bayamo                           | CMAB 1340 100                   |
| CFAR 1370 100                  | CBL 840 50000 F                     | CMKL 990 200<br>Caibarien        | Sagua la Grande<br>CMHA 1070 50 |
| Winnipeg                       | CFRB 690 10000 C                    | CMHD 1270 250                    | Sancti Spiritus                 |
| CJRC 630 1000 F                | CKCL 580 100 F                      | Camaguey                         | CM HB 1240 50                   |
| CKY 910 15000 F                | CRCY 960 100 F                      | CMJA 1010 250                    | Santa Clara                     |
|                                | Waterloo<br>CKCR 1510 100           | CMJC 1390 200                    | CMHI 1210 250<br>CMHW 820 500   |
| NEW BRUNSWICK                  | Windsor a                           | CMJE 1220 50<br>CMJF 1150 200    | CMHW 820 500<br>Santiago        |
| Fredericton                    | CKLW 1030 5000 F                    | CMJK 1290 200                    | CMKC 1250 150                   |
| CFNB 550 500 F                 | Wingham                             | CMJW 1340 300                    | CMKD 1050 1000                  |
| Moncton                        | CKNX 1200 100                       | CMJX 830 150                     | CMKG 1160                       |
| CKCW 1370 100 F                |                                     | Cardenas                         | CMKO 1490 200<br>CMKR 1400 250  |
| Sackville<br>CBA 50000         | PRINCE EDWARD                       | CMGE 1370 200<br>Ciego de Avila  | CMITTAIL 1050                   |
| CBA 50000<br>St. John          | ISLAND                              | CMTH 1360 200                    | CMKX 1190 75                    |
| CHSJ 1120 100 F                |                                     | CMJI 1130 150                    |                                 |
|                                | Charlottetown                       | CMJO 1180 50                     | DOMINICAN                       |
| N. W. TERRITORY                | CFCY 630 1000 F<br>CHCK 1310 50     | Cienfuegos<br>CMHJ 1160 100      | REPUBLIC                        |
| Aklavik                        | CHCK 1310 50<br>Summerside          | CMHM 1450 150                    |                                 |
| CJCU 1210 50                   | CHGS 1450 50 F                      | CMHX 1300 200                    | Ciudad Trujillo<br>HIN 1090 740 |
| NOVA SCOTIA                    |                                     | Cruces                           | HIT 1050 50                     |
| Glass Pa                       | OHEREC                              | CMHK 1330 250                    | HIX 800 800                     |
| Glace Bay<br>VAS 685 2000      | QUEBEC                              | Guantanamo<br>CMKS 960 60        |                                 |
| Halifax                        | Chicoutimi                          | CMKS 960 60<br>Havana            | EL SALVADOR                     |
| CHNS 930 1000 F                | CBT 1120 100 F                      | CMBC 1140 150                    | San Salvador                    |
| Sydney                         | Hull                                | CMBD 550 500                     | YSS 640 500                     |
| CJCB 1240 1000 F               | CKCH 1210 100 F                     | CMBF 1560 5000                   | GUATEMALA                       |
| Wolfville                      | Montreal                            | CMBG 690 225                     | Guatemala City                  |
| CKIC 1010 50<br>Yarmouth       | CBF 910 50000 N                     | CMBL 750 500<br>CMBO 1320 5000   | TGW 1520 1000                   |
| CJLS 1310 100 F                | CBM 1050 5000 F<br>CFCF 600 500 B   | CMBO 1320 5000<br>CMBS 1170 150  | TGX 1400                        |
|                                | CHLP 1120 100 F                     | CMBX 1080 150                    |                                 |
| ONTARIO                        | CKAC 730 5000 C                     | CMBY 1440 200                    | HONDURAS                        |
|                                | New Carlisle                        | CMBZ 940 500                     | TG1 1320                        |
| Brantford                      | CHNC 960 1000 F                     | CMC 1530 150                     | Quezaltenango                   |
| CKPC 930 100 F                 | Quebec 100                          | CMCA 1350 450                    | TGQ 1450 200                    |
| Chatham                        | CHRC 580 100<br>CKCV 1310 100 F     | CMCD 530 250                     | Tegucigalpa  IND 1250 50        |
| CFCO 630 100 F                 | CKCV 1310 100 F                     |                                  | - Calestina (                   |

#### **MEXICO**

AGUASCALIENTES

| Agua | scalien | tes        |
|------|---------|------------|
| XEBI | 1000    | 2 <b>5</b> |

#### BAJACALIFORNIA

| Mexicali |      |             |  |  |  |  |  |
|----------|------|-------------|--|--|--|--|--|
| XEAA     | 750  | 20 <b>u</b> |  |  |  |  |  |
| XEAO     | 660  | 25 <b>0</b> |  |  |  |  |  |
| XECL     | 960  | 1000        |  |  |  |  |  |
| Tijuar   | 1a   |             |  |  |  |  |  |
| XEAC     | 980  | 100€        |  |  |  |  |  |
| XEBG     | 820  | 1000        |  |  |  |  |  |
| XEC .    | 1150 | 10 <b>0</b> |  |  |  |  |  |
| XELO     | 670  | 10000       |  |  |  |  |  |
| XEMO     | 860  | 5000        |  |  |  |  |  |
|          |      |             |  |  |  |  |  |

#### CHIHUAHUA

| Chihu | ahua |            |
|-------|------|------------|
| XEBU  | 1240 | 5 <b>0</b> |
| XEFI  | 1440 | 250        |
| Juare |      |            |
| XĚF   | 1450 | 100        |
| XEFV  | 1210 | 50         |
| XEJ   | 1020 | 1000       |
| XEP   | 1160 | 500        |
| Parra | 1    |            |
| XEAT  | 1210 | 250        |

#### COAHUILA

Piedras Negras
XEMU 580 250
XEPN 730 100000
Sabinas
XEBX 640 250
Saltillo
XEAS 1160 100
Torreon
XETB 1310 500

| Villa<br>XEDH<br>XERA | Acun<br>1340<br>840 | 200<br>250000 |
|-----------------------|---------------------|---------------|
|                       | D. F.               |               |

| D. F.       |      |        |  |
|-------------|------|--------|--|
| Gral.       | Anay |        |  |
| XEDA        | 1220 | ີ -200 |  |
| Mexic       |      |        |  |
| XEAI        | 1250 | 500    |  |
| XEAL        | 660  | 1000   |  |
| XEB         | 1030 | 10000  |  |
| XEBS        | 1340 | 200    |  |
| XEBZ        | 810  | 100-   |  |
| XEDP        | 1080 | 500    |  |
| XEFO        | 940  | 5000   |  |
| XEIP        | 1130 | 100    |  |
| XEK         | 990  | 100    |  |
| $_{ m XEL}$ | 1150 | 250    |  |
| XELZ        | 1370 | 100    |  |
| XEN         | 780  | 1000   |  |
| XENC        | 860  | 50     |  |
| XEQ         | 710  | 50000  |  |
| XERC        | 870  | 500    |  |
| $_{ m XEW}$ |      | 100000 |  |
| xexx        | 1170 | 1000   |  |
| Texcoco     |      |        |  |
| XEXE        | 1270 | 17     |  |
|             |      |        |  |

# DURANGO Durango XEBP 1150 250

# GUANAJUATO

| Irapu | ato  |     |
|-------|------|-----|
| XEBO  | 1310 | 25  |
| Leon  |      |     |
| XEKL  | 1240 | 500 |
|       |      |     |

| JALISCO                      |  |  |
|------------------------------|--|--|
| Guadalajara<br>XED 1160 2500 |  |  |
| Guzman<br>XEBA 1080 20       |  |  |

## MICHOACAN

Morelia

| XEI        | 1370  | 125  |
|------------|-------|------|
| NUEVO LEON |       |      |
| Mont       | errey |      |
| XEFB       | 870   | 200  |
| XEG        | 1230  | 250  |
| XEH        | 720   | 250  |
| XET        | 690   | 5000 |
| XEX        | 1310  | 125  |
| PUEBLA     |       |      |
| Pueb       | la    | 400  |

| Puc<br>XET |   |      | 100   |
|------------|---|------|-------|
| SAN        | L | UISI | OTOSI |

## San Luis Potosi XECZ 1370 100

| DINALO    | • |
|-----------|---|
| Mazatlan  |   |
| VEDI 1220 |   |

### SONORA

Cananea

XEDR 1490

50

100

| XEFQ |     | 50  |
|------|-----|-----|
| Herm |     |     |
| XEBH |     | 500 |
| Noga |     |     |
| XEAF |     | 750 |
| Obre |     | -   |
| KEAP |     | 50  |
| Guay | mas |     |

## TAMAULIPAS

| Matan | noros |    |
|-------|-------|----|
| XEAM  | 750   | 25 |
|       |       |    |

#### Nuevo Laredo XEBK 1080 100 XEDF 810 100 XEFE 980 250 XENT 910 150000

| osa  |                            |
|------|----------------------------|
| 960  | 100000                     |
| ico  |                            |
| 1230 | 250                        |
| 1310 | 300                        |
| 000  | 250                        |
|      | 960<br>ico<br>1230<br>1310 |

#### **VERACRUZ**

| Cordo  |      |     |
|--------|------|-----|
| XEAG   |      | 10  |
| Jalapa |      |     |
| XEXB   | 1270 | 250 |
| XEXD   |      | 350 |
| Minat  |      |     |
| XEDW   |      | 20  |
| Verac  |      |     |
| XETF   |      | 12  |
| XEU    | 1010 | 250 |

#### YUCATAN

| Merid       |      |     |
|-------------|------|-----|
| XEFC        | 1340 | 100 |
| XEME        | 1240 | 50  |
| $\cdot XEZ$ | 630  | 500 |

#### MIQUELON

St. Pierre FQN 609 250

#### **NEWFOUNDLAND**

| St. Jo | h <b>n'</b> s |      |
|--------|---------------|------|
| VOAC   | 1065          | 40   |
| VOCM   | 1006          | 200  |
| VOGY   | 840           | 400. |
| VONF   | 1195          | 500  |
| VOWR   | 681           | 500  |

## QSA AND R CODES

The R code describes the volume with which a signal is heard.

R1 is a signal that is barely perceptible.

R2 is a very weak signal,

R3 is a weak signal.

R4 are signals of fair volume.

R5 are fairly good signals.

R6 are good signals.

R7 are mderately strong signals.

R8 are strong signals.

R9 are extremely strong signals.

The QSA Code is used to describe the understandability of a station's signal.

QSA1 is a signal that is unreadable.

QSA2 is one that is barely perceptible. A word can be understood now and then.

QSA3 is understandable with difficulty.

QSA4 is a signal that can be understood with practically no difficulty.

QSA5 is perfectly understandable.

| RADEX                                  |                                       |             |                                   |           | 83                                 |
|--|---------------------------------------|-------------|-----------------------------------|-----------|------------------------------------|
| NORTH AMERICAN B. C. STATIONS BY CALLS |                                       |             |                                   |           |                                    |
|  | CBA 50000                             |             | CHML 1010 100                     | 103       | CKLW 1030 5000                     |
| -                                      | Sackville, N. B.<br>CBF 910 50000     |             | Hamilton, Ont.<br>CHNC 960 1000   | ~~~       | Windsor, Ont.<br>CKMC 1210 50      |
|  | Montreal, P. Q.                       |             | New Carlisle, Que.                |           | Cobalt, Ont.                       |
|  | CBJ 1120 100<br>Chicoutimi, P. Q.     |             | CHNS 930 1000<br>Halifax, N. S.   |           | CMMO 1410 100<br>Vancouver, B. C.  |
|  | CBK 50000                             |             | CHRC 580 100                      |           | CKNX 1200 100                      |
|  | CBL 840 50000                         |             | Quebec, P. Q.<br>CHSJ 1120 100    |           | Wingham, Ont.<br>CKOC 1120 500     |
| 1 1                                    | CBL 840 50000<br>Toronto, Ont.        |             | St. John, N. B.<br>CHWK 780 100   |           | Hamilton, Ont.                     |
|  | CBM 1050 5000                         |             | CHWK 780 100<br>Chilliwack, B. C. |           | CKOV 630 100                       |
|  | Montreal, P. Q.<br>CBO 880 1000       | -           | CJAT 910 1000                     |           | Kelowna, B. C.<br>CKPC 930 100     |
|  | Ottawa, Ont.                          |             | Trail, B. C.                      |           | Brantford, Ont.                    |
| 1 1                                    | CBR 1100 5000                         |             | CJBR 1030 1000<br>Rimouski, P. Q. |           | CKPR 730 100<br>Fort William, Ont. |
|  | Vancouver, B. C.<br>CBV 950 1000      |             | CJCA 730 1000                     |           | CKSO 780 1000                      |
|  | Quebec, P. Q.                         |             | Edmonton, Alta.<br>CJCB 1240 1000 | · · · · · | Sudbury, Ont.<br>CKTB 1200 100     |
|  | CFAC 930 1000<br>Calgary, Alta.       |             | Sydney, N. S.                     |           | St. Catharines, Ont.               |
|  | CFAR 1370 100                         |             | CJCJ 690 100                      |           | CKUA 580 500<br>Edmonton, Alta.    |
| -                                      | Flin Flon, Man.<br>CFCF 600 506       |             | Calgary, Alta.                    | _         | CKWX 1010 100                      |
|  | Montreal, Que.                        |             | Stratford, Ont.                   |           | Vancouver, B. C.<br>CKX 1120 1000  |
| 1 1                                    | CFCH 930 100<br>North Bay, Ont.       |             | CJCU 1210 50<br>Aklavik, N. W. T. | <u> </u>  | CKX 1120 1000<br>Brandon, Man.     |
|  | CFCN 1030 10000                       |             | CJGX 1390 100                     |           | CKY 910 15000                      |
| 1 0                                    | Calgary, Alta.<br>CFCO 630 100        |             | Yorkton, Sask.<br>CJIC 1500 100   | -         | Winnipeg, Man.<br>CMAB 1340 100    |
| 63                                     | CFCO 630 100<br>Chatham, Ont.         |             | S. Ste. Marie, Ont.               |           | Pinar del Rio, Cuba                |
|  | CFCT 1450 500                         |             | CJKL 1310 100                     | ,,        | CMBC 1140 150<br>Havana, Cuba      |
|  | Victoria, B. C.<br>CFCY 630 1000      |             | North Bay, Ont.<br>CJLS 1310 100  |           | CMBD 550 500                       |
|  | Charlottetown, P.E.I.                 |             | Yarmouth, N. S.<br>CJOC 950 100   |           | Havana, Cuba<br>CMBF 1560 5000     |
|  | CFGP 1200 100<br>Grande Praire, Alta. |             | CJOC 950 100<br>Lethbridge, Alta. |           | Havana, Cuba                       |
|  | CFJC 880 1000                         |             | CJOR 600 500                      |           | CMBG 690 225<br>Havana, Cuba       |
|  | Kamloops, B. C.<br>CFLC 930 100       |             | Vancouver, B. C.<br>CJRC 630 1000 | <u> </u>  | CMBL 750 500                       |
|  | Prescott, Ont.                        |             | Winnipeg, Man.                    |           | Havana, Cuba<br>CMBO 1320 5000     |
|  | CFNB 550 500<br>Fredericton, N. B.    |             | CJRM 540 1000<br>Regina, Sask.    |           | CMBQ 1320 5000<br>Havana, Cuba     |
|  | CFPL 730 100                          |             | CKAC 730 5000                     |           | CMBS 1170 150                      |
|  | London, Ont.<br>CFPR 580 50           |             | Montreal, Que.<br>CKBI 1210 100   |           | Havana, Cuba<br>CMBX 1080 150      |
|  | Prince Rupert, B. C.                  |             | Prince Albert, Sask.              |           | Havana, Cuba                       |
|  | CFQC 840 1000<br>Saskatoon, Sask,     |             | CKCA 1420 50000<br>Kenora, Ont.   | 1 1       | CMBY 1440 200<br>Havana, Cuba      |
|  | CFRB 690 10000                        |             | CKCD 1010 100                     |           | CMBZ 940 500                       |
|  | Toronto, Ont.                         |             | Vancouver, B. C.<br>CKCH 1210 100 |           | Havana, Cuba<br>CMC 1530 150       |
|  | Kingston, Ont.                        | -           | Hull, Que.                        |           | Havana, Cuba                       |
|  | CFRN 960 100                          |             | CKCK 1010 1000<br>Regina, Sask.   |           | CMCA 1350 450<br>Havana, Cuba      |
| ;                                      | Edmonton, Alta.<br>CHAB 1200 100      | · · · · ·   | CKCL 580 100                      |           | CMCB 1230 150                      |
|  | Moose Jaw, Sask.                      |             | Toronto, Ont.<br>CKCO 1010 100    | $\vdash$  | Havana, Cuba<br>CMCD 630 250       |
| 1 1                                    | CHCK 1310 50                          |             | Ottawa, Ont.                      | 1 1       | Havana, Cuba                       |
|  | Charlottetown, P.E.I.                 |             | CKCR 1510 100                     |           | CMCF 810 5000                      |
|  | St. Anne De La                        |             | Waterloo, Ont.<br>CKCV 1310 100   |           | Havana, Cuba<br>CMCG 1290 150      |
|  | Pocatiere, P. Q.                      |             | Quebec, Que.                      |           | Havana, Cuba                       |
|  | CHGS 1450 50<br>Summerside, P.E.I.    |             | CKCW 1370 100<br>Moncton, N. B.   | ٠.        | CMCJ 1110 500<br>Havana, Cuba      |
|  | CHLN 1420 100                         | <del></del> | CKFC 1410 50                      |           | CMCK 970 5000                      |
| ,                                      | Three Rivers, P. Q.                   |             | Vancouver, B. C.                  |           | Havana, Cuba                       |
|  | CHLP 1120 100<br>Montreal, Que.       |             | CKGB 1420 100<br>North Bay, Ont.  | ] [       | CMCL 730 10000<br>Havana, Cuba     |
|  | CHLT 1210 100                         |             | CKIC 1010 50                      |           | CMCM 850 250                       |
| 77                                     | Sherbrooke, P. Q.                     |             | Wolfville, N. S.                  | $\vdash$  | Havana, Cuba                       |
|  |                                       |             |                                   |           |                                    |

|          | CMCO 1200 150                         |          | CMKG 1160                              |          | KBIX 1500 100                          |
|----------|---------------------------------------|----------|--|----------|--|
|          | Havana, Cuba                          |          | Santiago, Cuba                         |          | Muskogee, Okla.                        |
|          | CMCQ 1410 5000                        |          | CMKL 990 200                           |          | KBKR 1500 100                          |
|          | Havana, Cuba                          |          | Ravamo, Cuba                           |          | Baker, Ore.                            |
|          | CMCR 660 150                          |          | CM KM 1120 100                         |          | KBND 1310 100                          |
|          | Havana, Cuba                          |          | Manzanillo, Cuba<br>CMKO 1280 200      |          | Bend, Ore.<br>KBPS 1420 100            |
| 1        | CMCC                                  | 1        | Holgnin, Cuba                          |          | Portland, Ore.                         |
|          | Havana, Cuba<br>CMCW 1380 150         |          | CMKQ 1490 200                          |          | KBST 1500 100                          |
|          | Havana, Cuba                          | 1        | Santiago. Cuba                         |          | Big Spring, Texas                      |
|          | CMCX 1380 150                         |          | CMKR 1400 250                          |          | KBTM 1200 100                          |
|          | Havana, Cuba                          |          | Santiago, Cuba                         |          | Jonesboro, Ark.                        |
|          | CMCY 590 10000                        |          | CMKS 960 60<br>Guantanamo, Cuba        |          | KCKN 1310 100                          |
|          | Havana, Cuba                          |          | CMKW 1350                              |          | Kansas City, Kans.                     |
|          | CMGC 1400 200<br>Matanzas, Cuba       |          | Santiago, Cuba                         | l .      | KCMC 1420 100<br>Texarkana, Texas      |
|          | CMGE 1370 200                         |          | CMKX 1190 75                           |          | KCMO 1370 100                          |
|          | Cardenas, Cuba                        |          | Santiago, Cuba                         |          | Kansas City, Mo.                       |
|          | CMGF 1120 75                          |          | CMKZ 1430 125                          |          | KCRC 1360 250                          |
|          | Matanzas, Cuba<br>CMGH 790 250        |          | Palma Soriano, Cuba                    |          | Enid, Okla.                            |
|          |                                       |          | CMOA 910 150                           | 1        | KCRJ 1310 100                          |
|          | Matanzas, Cuba<br>CMHA 1070 50        |          | CMOX 1500 200                          |          | Jerome, Ariz.                          |
|          | Sagua la Grande, Cuba                 | 1        | Havana, Cuba                           | '        | KDAL 1500 100                          |
|          | CMTTR 1240 50                         |          | CMQ 1010 25000                         |          | Duluth, Minn.<br>KDB 1500 100          |
|          | Sancti Spiritus, Cuba                 |          | Havana, Cuba                           |          | Santa Barbara, Calif.                  |
|          | CMHD 1270 250                         |          | CMW 880 1400                           |          | KDFN 1440 500                          |
|          | Caibarien, Cuba<br>CMHI 1210 250      |          | Havana, Cuba                           |          | Casper, Wyo.                           |
|          | Santa Clara, Cuba                     |          | CMX 1260 1000<br>Hayana, Cuba          |          | KDKA 980 50000                         |
| _        | CMHI 1160 100                         |          | CRCY 960 100                           |          | Pittsburgh, Pa.<br>KDLR 1210 100       |
|          | Cienfuegos, Cuba                      |          | Loronto, Ont.                          |          | Devils Lake, N. D.                     |
|          | CMTHK 1330 250                        |          | TFON 609 250                           |          | KDNC 1200 100                          |
|          | Cruces, Cuba                          |          | St. Pierre, Miquelon                   |          | Lewistown, Mont.                       |
|          | CHHM 1450 500<br>Cienfuegos, Cuba     |          | HIN 1090 740<br>Ciudad Trujillo, D. R. |          | KDNT 1420 100                          |
| <u> </u> | CWLTLW 850 100                        |          | HIT 1050 50                            |          | Denton, Texas<br>KDON 1210 100         |
|          | Santa Clara, Cuba                     | 1        | Ciudad Trujillo, D. R.                 |          | Monterey, Calif.                       |
|          | CMHX 1300 200                         |          | HIX 800 800                            |          | KDTH 1340 500                          |
|          | Cienfuegos, Cuba                      |          | Ciudad Trujillo, D. R.<br>HP50 1440    |          | Dubuque, Iowa                          |
|          |                                       |          | HP50 1440<br>Panama City, Panama       | · '      | KDYL 1290 1000                         |
|          | Camaguey, Cuba<br>CMIC 1390 200       |          | HRN 1250 50                            |          | Salt Lake City, Utah<br>KECA 1430 1000 |
|          | CMJC 1390 200<br>Camaguey, Cuba       |          | Tegucigalpa, Hon.                      |          | Los Angeles, Calif.                    |
|          | CMJE 1220 50                          |          | 1KABC 1420 100                         |          | KEEN 1370 100                          |
|          | Camaguey, Cuba                        |          | San Antonio, Texas                     |          | Seattle, Wash.                         |
|          | CMIF 1150 200                         |          |  |          | KEHE 780 1000                          |
|          | Camaguey, Cuba                        |          | Aberdeen, S. Dak.<br>KADA 1200 100     |          | Los Angeles, Calif.<br>KELA 1440 500   |
|          |                                       |          | Ada, Okla.                             |          | KELA 1440 500<br>Centralia, Wash.      |
| $\vdash$ | Ciego de Avila, Cuba<br>CMJI 1130 150 | <u> </u> | KALB 1210 100                          | $\vdash$ | KELD 1370 100                          |
|          | Ciego de Avila, Cuba                  |          | Alexandria, La.                        |          | El Dorado, Ark.                        |
|          | CMIK 1290 200                         |          | KALE 1300 1000                         |          | KELO 1200 100                          |
|          | Camaguey, Cuba                        |          | Portland, Ore                          | igwdown  | Sioux Falls, S. Dak.                   |
|          | CMJO 1180 50                          |          | KAND 1310 100<br>Corsicana, Texas      |          | KERN 1370 100                          |
|          | Ciego de Avila, Cuba                  |          | KANS 1210 100                          |          | Bakersfield, Calif.<br>KEUB 1420 100   |
|          | CHIJI                                 |          | Wichita, Kans                          |          | Price, Utah                            |
|          | Camaguey, Cuba<br>CMJW 1340 300       |          | KARK 890 500                           | -        | KEX 1180 5000                          |
| 1        | Camaguey, Cuba                        |          | Little Rock, Ark.                      |          | Portland, Ore.                         |
|          | CMIX 830 150                          |          | KARM 1310 100<br>Fresno, Calif.        |          | KFAB 770 10000                         |
|          | Camaguey, Cuba.                       |          |  |          | Lincoln, Neb.                          |
|          | CMK 720 250                           |          | KASA 1210 100<br>Elk City. Okla.       |          | KFAC 1300 1000                         |
|          | Havana, Cuba                          |          | KAST 1370 100                          |          | Los Angeles, Calif.<br>KFAM 1420 100   |
|          | CMKC 1250 150<br>Santiago, Cuba       |          | Astoria, Ore                           |          | KFAM 1420 100<br>St. Cloud, Minn.      |
|          | CMKD 1050 1000                        |          | KATE 1420 250                          |          | KFAR 610 1000                          |
|          | Santiago, Cuba                        |          | Albert Lea, Minn.                      |          | Fairbanks, Alaska                      |
|          | CMKF 1460 250                         |          | KAWM 1500 100                          |          | KFBB 1280 1000                         |
|          | Holguin, Cuba                         |          | Gallup, N. Mex.                        |          | Great Falls, Mont.                     |
|          |                                       |          |  |          |  |
|          |                                       |          |  |          |  |

|     |                                   |   |                                     |               | _                                   |
|-----|-----------------------------------|---|-------------------------------------|---------------|-------------------------------------|
|     | KFBI 1050 5000                    |   | KFXJ 1200 100                       |               | KGLO 1210 100                       |
|     | Abilene, Kans.                    |   | Grand Junction, Colo.               |               | Mason City, lowa                    |
|     | KFBK 1490 10000                   |   | KFXM 1210 100                       |               | KGLU 1420 100                       |
|     | Sacramento, Calif.                |   | San Bernardino, Calif               |               | Safford, Ariz.                      |
|     | KFDM 560 500                      |   | KFYO 1310 10n                       |               | KGMB 1320 100°                      |
|     | Beaumont, Texas                   |   | Lubbock Texas                       |               | Henolulu, T. II.                    |
|     | KFDY 780 1000                     |   | KFYR 550 1000                       |               | KGNC 1410 1000                      |
| 1   | Brookings, S. D.                  | 1 | Bismarck, N. D.                     |               | Amarillo, Texas                     |
|     | KFEL 920 500                      |   | KGA 1470 5000                       |               | KGNF 1430 1000                      |
|     | Denver, Colo.                     |   | Spokane, Wash.                      |               | North Platte, Neb.                  |
|     | KFEQ 680 2500                     |   | KGAR 1370 100                       |               | KGNO 1340 250                       |
|     | St. Joseph, Mo.                   |   | Tucson, Ariz.                       | 1             | Dodge City, Kans.                   |
|     |                                   |   |                                     |               | KGO 790 7500                        |
| 1   | KFGQ 1370 100                     |   |                                     |               | San Francisco, Calif                |
|     | Boone, Iowa                       |   | San Diego, Calif.                   |               |                                     |
| 1   | KFH 1300 1000                     | 1 | KGBU 900 500                        |               |                                     |
|     | Wichita, Kans.                    |   | Ketchikan, Alaska                   |               |                                     |
|     | KFI 640 50000                     | 1 | KGBX 1230 500                       |               | KGVL 1200 100                       |
|     | Los Angeles, Calif.               |   | Springfield, Mo.                    |               | Greenville, Texas                   |
|     | KFIO 1120 100                     |   | KGCA 1270 100                       |               | KGVO 1260 1000                      |
|     | Spokane, Wash.                    |   | Decorah, Iowa                       |               | Missoula, Mont                      |
|     | KFIZ 1420 100                     |   | KGCI 1200 ton                       |               | KGW 620 1000                        |
| 1   | Fond du Lac, Wis.                 | 1 | Coeur d'Alene, Idaho                |               | Portland, Ore.                      |
|     | KFJB 1200 100                     |   | KGCU 1240 250                       |               | KGY 1210 100                        |
|     | Marshalltown, Iowa                |   | Mandan, N. D.                       |               | Olympia, Wash.                      |
|     | KFII 1210 100                     |   | KGCX 1450 1000                      |               | KHBC 1400 250                       |
|     | Klamath Falls, Ore.               |   | Wolf Point, Mont                    |               | Ililo, T. II.                       |
|     | KFIM 1410 500                     |   |                                     |               | KHBG 1210 100                       |
| 1   | Grand Forks, N. D.                |   |                                     |               | Okmulgee, Okla.                     |
|     |                                   |   | TODAL                               |               | KHJ 900 1000                        |
| 1   | KFJZ 1370 100                     |   | KGDM 1100 1000                      |               | Los America Calif                   |
|     | Fort Worth, Texas                 |   | Stockton, Calif.                    |               | Los Angeles, Calif.<br>KHO 590 1000 |
|     | KFKA 880 500                      |   | KGEK 1200 100                       |               |                                     |
|     | Greeley, Colo.                    |   | Sterling, Colo.                     |               | Spokane, Wash.                      |
|     | KFKU 1220 1000                    |   | KGER 1360 1000                      |               | KHSL 1260 250                       |
| 1   | Lawrence, Kans.                   |   | Long Beach, Calif.<br>KGEZ 1310 100 |               | Chico, Calif.                       |
|     | KFNF 890 500                      |   | KGEZ 1310 100                       |               | KHUB 1310 250                       |
| 1   | Shenandoah, Iowa                  |   | Kalispell, Mont.                    |               | Watsouville, Calif                  |
|     | KFOR 1210 100                     |   |                                     |               | KJCA 1370 100                       |
| ' ' | Lincoln, Neb.                     |   | Shawnee, Okla.                      |               | Clovis, N. M.                       |
|     |                                   |   |                                     |               | KID 1320 500                        |
|     | Long Beach, Calif.                |   | Brownsville, Tex.                   |               | Idaha Falls, Idaho                  |
|     | KFPL 1310 100                     |   |                                     |               | KIDO 1350 1000                      |
|     | Dublin Texas                      |   | KGFJ 1200 100                       |               | Boise, Idaho                        |
|     | Dublin, Texas<br>KFPW 1210 100    |   | Los Angeles, Calif.                 |               | KIDW 1420 100                       |
|     | Fort Smith Ark                    |   | KGFL 1370 100                       |               | Lamar, Colo,                        |
|     | Fort Smith, Ark.<br>KFPY 890 1000 |   | Roswell, N. Mex.                    |               | KIEM 1450 500                       |
|     | Spokene Week                      | I | KGFW 1310 100                       |               | Eureka, Calif.                      |
|     | Spokane, Wash.                    |   | Kearney, Neb.                       |               | KIEV 850 250                        |
|     | KFQD 780 250                      |   | AGFX 630 200                        |               | Glendale, Calif                     |
|     | Anchorage, Alaska                 |   | Pierre, S. D.                       | $\square$     | KINY 1310 100                       |
|     | KFRC 610 1000                     |   | KGGF 1010 1000                      |               |                                     |
|     | San Francisco, Calif.             |   | Coffevville, Kans                   |               | Juneau, Alaska                      |
|     | KFRO 1370 250                     |   | KGGM 1230 1000                      |               | KIRO 710 1000                       |
|     | Longview, Texas                   |   | Albuquerque N M                     |               | Seattle, Wash.                      |
|     | KFRU 630 500                      |   | KGHF 1320 500                       |               | KIT 1250 250                        |
|     | Columbia, Mo.                     |   | Pueblo, Colo.                       |               | Yakima, Wash.                       |
|     | KFSD 600 1000                     |   | KGHI 1200 100                       |               | KITE 1530 1000                      |
| i   | San Diego, Calif.                 |   | Little Rock, Ark.                   |               | Kansas City, Mo.                    |
|     | KFSG 1120 500                     | - |                                     |               | KIUL 1210 100                       |
|     | Los Angeles, Calif.               |   | Billings, Mont                      |               | Garden City, Kans.                  |
|     | KFUO 550 500                      |   |                                     | <del></del>   | KIUN 1420 100                       |
|     | St. Louis, Mo.                    |   |                                     |               | Pecos, Texas                        |
|     | KFVD 1000 1000                    |   | Butte. Mont                         | $\overline{}$ | KIUP 1370 100                       |
|     | Los Angeles, Calif.               |   | KGIW 1420 100                       | ,             | Durango, Colo.                      |
|     |                                   |   | Alamosa, Colo.                      | _             | KJBS 1070 500                       |
|     | KFVS 1210 100                     |   | KGKB 1500 100                       |               |                                     |
|     | Cape Girardeau, Mo.               |   | Tyler, Texas                        |               | San Francisco, Calif.               |
|     | KFWB 950 1000                     |   | KGKL 1370 100                       |               | KJR 970 5000                        |
|     | Los Angeles, Calif.               |   | San Angelo, Texas                   |               | Seattle, Wash.                      |
|     | KFXD 1200 100                     |   | KGKO 570 1000                       |               | KLAH 1210 100                       |
|     | Nampa, Idaho                      |   | hort Worth Target                   |               | Carlsbad, N. Mex.                   |
|     |                                   |   | Fort Worth, Texas                   | $\vdash$      | KLBM 1420 100                       |
|     |                                   |   | KGKY 1500 100                       |               | La Grande, Ore.                     |
|     |                                   |   | Scottsbluff, Neb.                   | $\vdash$      |                                     |
|     |                                   |   |                                     |               |                                     |
|     |                                   |   |                                     |               |                                     |

| RLCN 1290  |
|--|
| KLO 1400 500   KOME 1310 250   Roseburg, Ore. KLPM 1240 250   KOMO 920 1000   KRNT 1320 100   Des Moines, Iowa KLPM 1390 1000   KONO 1370 100   EI Paso, Texas KLUF 1370 100   San Antonio, Texas KLUF 1370 100   Eugene, Ore. KOTN 1500 100   KROV 930 100   Calcland, Calif. KLU 560 1000   KOV 1390 1000   KROV 1210 100   Calcland, Calif. KLZ 560 1000   Valley City, N. Dak. KMA   930 1000   KOV 1390 1000   KRRV 1310 200   KRRV 131 |
| Ogden, Utah   KLPM 1240 250   KOMO 920 1000   Momot, N. D.   KRNT 1320 100   Denver, Colo.   KRA 1390 1000   KRA 1390 1000   KROV 1500 100   KRQA 1310 100   Caltand, Calif.   KLX 880 1000   KOVC 1500 100   KRQA 1310 100   KRQA 1310 100   KRQA 1310 100   KRQA 1310 100   KRQA 1310 100   KRQA 1310 100   KRQA 1310 100   KRQA 1310 100   KRQA 1310 100   KRQA 1310 100   KRQA 1310 100   KRA 1370 100 |
| Minot, N. D.   KLRA 1390 1000   KONO 1370 100   Calter Rock, Ark.   KLS 1280 250   KOOS 1200 100   KROC 1310 100   Caldand, Calif.   KLUF 1370 100   KORE 1420 100   El Paso, Texas   KROW 930 1000   Calter Rock, Ark.   KLZ 880 1000   KOTN 1500 100   KROW 930 1000   Caltand, Calif.   KLZ 560 1000   KOV 1500 100   KROY 1210   Caltand, Calif.   KLZ 560 1000   KOY 1390 1000   KRAM   930 1000   KOY 1390 1000   KRROY 1310 100   KRROY 1310 200   KRAM   Sacramento, Calif.   KRAM   San Antonio, Texas   KMBC 950 1000   KPAC 1260 500   KRSC 1120 200   KRSC 1120  |
| Minot, N. D.   KLRA 1390 1000   KONO 1370 100   Calter Rock, Ark.   KLS 1280 250   KOOS 1200 100   KROC 1310 100   Caldand, Calif.   KLUF 1370 100   KORE 1420 100   El Paso, Texas   KROW 930 1000   Calter Rock, Ark.   KLZ 880 1000   KOTN 1500 100   KROW 930 1000   Caltand, Calif.   KLZ 560 1000   KOV 1500 100   KROY 1210   Caltand, Calif.   KLZ 560 1000   KOY 1390 1000   KRAM   930 1000   KOY 1390 1000   KRROY 1310 100   KRROY 1310 200   KRAM   Sacramento, Calif.   KRAM   San Antonio, Texas   KMBC 950 1000   KPAC 1260 500   KRSC 1120 200   KRSC 1120  |
| KLRA 1390 1000   |
| Little Rock, Ark.   San Antonio, Texas   Rochester, Minn.   RLS 1280   250   Marshfield, Ore.   El Paso, Texas   KLUF 1370   100   Eugene, Ore.   KLUF 1370   100   Eugene, Ore.   KROW 930   100   Oakland, Calif.   KROY 1500   100   KROW 930   100   Oakland, Calif.   KROY 1210   I0   Sacramento, Calif.   KROY 1210   I0   Sacramento, Calif.   KROY 1210   I0   Sacramento, Calif.   KROY 1210   I0   Sacramento, Calif.   KROY 1210   I0   Sacramento, Calif.   KROY 1390   I000   KRROW 1390   I000   KRROW 1390   I000   KRRV 1310   2: Shernandoah, Iowa   KMAC 1370   I00   KPAB 1500   I00   KRRV 1310   2: Shernan, Texas   KMAC 1370   I00   KPAB 1500   I00   KRSC 1120   2: Seattle, Wash.   KMBC 950   I000   KPAC 1260   500   KSAC 580   Scattle, Wash.   KMBC 1410   Company   Individual of the season   KRMED 1410   Sacramento, Calif.   KROY 1310   I00   KPAB 1500   I00   KRSC 120   Seattle, Wash.   KRSC 1120   2: Seattle, Wash.   KRSC 1120   Seattle, Wash.   KSAC 580   KSAC 58 |
| KLS 1280 250   |
| Oakland, Calif.   KUF 1370 100   KORE 1420 100   Calveston, Texas   KROW 930 100   Calkland, Calif.   KOVC 1500 100   Calkland, Calif.   KROY 1300   Calkland, Calif.   KROY 1500 100   KROY 1210 100   KROY 1310 100   Calkland, Calif.   KROY 1500 100   KROY 1310 100   KROY 1310 100   KROY 1310 100   KROY 1310 100   KROY 1310 100   KROY 1310 100   KROY 1310 100   KROY 1310 200   KROY 1310 100   KROY 1310 100   KROY 1310 100   KROY 1310 100   KSAC 580 500   Kansas City, Mo.   KPAC 1260 500   KAMED 1410 250   KPDN 1310 100   KSAL 1500 100   KSAL 1500 100   KSAL 1500 100   KPLC 1500 100   KSAM 1500 100   KPLC 1500 100   KSAM 1500 100   KPLC 1500 100   KSAM 1420 100   KSAM 1420 100   KRMM 1740 1000   KPLC 1500 250   KSCJ 1330 100   KRMO 1330 1000   KRMO 1330 1000   Caly Center, Neb.   KMO 1350 1000   Caly Center, Neb.   KMO 1350 1000   Caly Center, Neb.   KMO 1350 1000   Caly Center, Neb.   KMO 1350 1000   Caly Center, Neb.   KMO 1350 1000   Caly Center, Neb.   KMO 1350 1000   Caly Center, Neb.   Call Call Call Call Call Call Call Ca   |
| RLUF 1370  |
| Collaind, Calif.   Calif.   Cal |
| Collaind, Calif.   Calif.   Cal |
| KLZ   560   1000   |
| Denver, Colo.   Valley City, N. Dak.   Santa Fe, N. Mex.   |
| KMA  |
| Shenandoah, Iowa   Phoenix, Ariz.   Sherman, Texas   KMAC 1370   100   KPAB 1500   100   KRSC 1120   20   20   20   20   20   20   20  |
| KMAC 1370 100  |
| Kansas City, Mo.   Port Arthur, Texas   Manhattan, Kans.   KMED 1410 250   KPDN 1310 100   Medford, Ore.   Pampa, Texas   KSAL 1500 10   Salina, Kans.   KSAL 1500 100   KPFA 1210 100   KSAM 1500 100   KPFA 1210 100   KSAM 1500 100   Monroe, La.   KMLB 1200 100   Lake Charles, La.   KMMJ 740 1000   KPLT 1500 250   KSAN 1420 100   KSAN 1420 1000   KPLT 1500 250   KSCJ 1330 1000   KPMC 1550 1000   KSDJ 330 1000   KPMC 1550 1000   KSDJ 350 1000 |
| Kansas City, Mo.   Port Arthur, Texas   Manhattan, Kans.   KMED 1410   250   KPDN 1310   100   Salina, Kans.   KSAL 1500   10   Salina, Kans.   KSAM 1500   100   KPFA 1210   100   KSAM 1500   100   KSAM 1500   100   KPLC 1500   100   KSAM 1500   100   Monroe, La.   KMLB 1200   Lake Charles, La.   KMMJ 740   1000   KPLT 1500   250   KSAN 1420   100   KPLT 1500   250   KSCJ 1330   1000   KPMC 1550   1000   KSDJ 330   1000   KPMC 1550   1000   KSDJ 350   KSDJ 550   1000   St. Louis, Mo.   St. Louis, Mo.  |
| Kansas City, Mo.   Port Arthur, Texas   Manhattan, Kans.   KMED 1410 250   KPDN 1310 100   Medford, Ore.   Pampa, Texas   KSAL 1500 10   Salina, Kans.   KSAL 1500 100   KPFA 1210 100   KSAM 1500 100   KPFA 1210 100   KSAM 1500 100   Monroe, La.   KMLB 1200 100   Lake Charles, La.   KMMJ 740 1000   KPLT 1500 250   KSAN 1420 100   KSAN 1420 1000   KPLT 1500 250   KSCJ 1330 1000   KPMC 1550 1000   KSDJ 330 1000   KPMC 1550 1000   KSDJ 350 1000 |
| KMED 1410 250   KPDN 1310 100   KSAL 1500 10   KSAL 1500 10   KSAL 1500 10   KSAM 1500 10   KMJ 580 1000   Helena, Mont.   KPFA 1210 100   Helena, Mont.   KMLB 1200 100   KPLC 1500 100   KSAM 1500 10   Hunsville, Texas KSAN 1420 10   KMMJ 740 1000   KPLT 1500 250   KSCJ 1330 100   KPLT 1550 1000   KSCJ 1330 100   KMMC 1550 1000   KSCJ 1330 100   KMMC 1550 1000   KSCJ 550 1000   |
| KMJ 580 1000   KPFA 1210 100   KSAM 1500 100   Helena, Mont.   KMLB 1200 100   KPLC 1500 100   KSAN 1420 100   Lake Charles, La.   KMMJ 740 1000   KPLT 1500 250   KSCJ 1330 1000   KPMC 1550 1000   KSD 550 1000   KS |
| KMJ 580 1000   KPFA 1210 100   KSAM 1500 100   Helena, Mont   KMLB 1200 100   KPLC 1500 100   KSAN 1420 100   Lake Charles, La.   KMMJ 740 1000   KPLT 1500 250   KSCJ 1330 100   KPMC 1550 1000   KSD 550 1000   KSD  |
| Fresno, Calif.   Helena, Mont.   Hunsville, Texas   KMLB 1200   100   KPLC 1500   100   KSAN 1420   10   100   1 |
| Monroe, La.   Lake Charles, La.   San Francisco, Cal KMMJ 740 1000   KPLT 1500 250   KSCJ 1330 1000   Clay Center, Neb.   KPMC 1550 1000   KSD 550 1000    |
| KMMJ 740 1000  |
| Tacoma, Wash.  Bakersfield, Calif.  St. Louis, Mo.   |
| Tacoma, Wash.  Bakersfield, Calif.  St. Louis, Mo.   |
| Tacoma, Wash.  Bakersfield, Calif.  St. Louis, Mo.   |
|  |
|  |
| St. Louis, Mo. San Francisco, Calif. Pocatello, Idaho  |
| KMPC 710 500   KPOF 880 1000   KSFO 560 100  |
| Beverly Hills, Calif.  Denver, Colo.  San Francisco, Calif.  WMTP 570 1000  KPPC 1210 100  |
| KWIR 570 1000   1111   KSL 1130 5000   |
| KPO 1500 100 WST M 1270  |
| KNEL 1300 230   1 5 1 137 137 1370 10  |
| KNET 1420 100 KPRC 920 1000 KSO 1430 50  |
| Palestine Texas   Houston, Texas   Des Moines, Iowa  |
| KNOW 1500 100 KSOO 1110 500 KSOO 1110 500  |
| Austin, Texas Pritsburgh, Fa. Sioux Falls, S. Dal  |
| KNX 1050 50000   KQW 1010   KSRO 1310 10   |
| EOS TRISCIES, TANK   |
| KOA 850 50000 Tuffin Towns   |
| Denver, Colo.  |
|  |
| KOAM 700 1000 KRBM 1420 100 KSHN 1200 10   |
| Pittsburg, Kans. Bozeman, Mont. Lowell, Ariz.  |
| KOB 1180 10000 KRE 1370 100 KTAR 620 100   |
| Albuquerque, N. M. Berkeley, Calif. Phoenix, Ariz.   |
| KOBH 1370 100   KKGV 1200 1000   KTAT 1240 100   |
| Rapid City, S. Dak. Weslaco, Texas Fort Worth, Texas   |
| KOCA 1210 100   KRIC 1420 100   KTBC 1120 100  |
| Kilgore, Texas Beaumont, Texas Austin, Texas KOCV 1310 100 KRIS 1330 500 KTRS 1450 100   |
| KOCY 1310 100   KRIS 1330 300   KTBS 1450 100  |
|  |
| Rena New Los Angeles, Calif. Temple Texas  |
| Reno, Nev. Los Angeles, Calit. Temple, Texas KTFI 1240 100   |
| Omaha, Neb. Everett, Wash. Twin Falls, Idaho   |
| KOIN 940 1000 KRLC 1390 250 KTHS 1060 1000   |
| Portland, Ore, Lewiston, Idaho Hot Springs, Ark.   |
| KOKO 1370 100 KRLD 1040 10000 KTKC 1190 2  |
| La Junta, Colo. Dallas, Texas Visalia, Calif.  |
| KOL 1270 1000   KRLH 1420 100   KTMS 1220 50   |
| Seattle, Wash. Midland, Texas Santa Barbara, Cal   |
| KRMC 1370 100<br>Jamestown, N. Dak.  |
| Jamestown, N. Dak.   |

|          | KTOK 1370 100                          |          | KWJJ 1040 500                         |   | WAAT 940 500<br>Iersey City, N. J  |
|----------|--|----------|---------------------------------------|---|--|
|          | Oklahoma City, Okla.                   |          | Portland, Ore.                        |   | lersey City, N. J  |
|          | KTRB 740 250                           |          | KWK 1350 1000<br>St. Louis, Mo.       |   | WAAW 660 500<br>Omaha, Neb.  |
|          | Modesto, Calif.                        |          | KWKH 1100 10000                       |   | WABC 860 50000   |
|          | KTRH 1290 1000                         |          | Shreveport, La.                       |   | New York, N. Y.  |
|          | Houston, Texas<br>KTRI 1420 100        |          | KWLC 1270 100                         |   | WABI 1200 100  |
| 1        | Sioux City, Iowa                       |          | Decorah, Iowa                         |   | Bangor, Maine  |
|          | KTSA 550 1000                          |          | KWLK 780 250                          |   | WABY 1370 100  |
|          | San Antonio, Texas                     |          | Longview, Wash.                       |   | Albany, N. Y   |
|          | KTSM 1310 100                          |          | KWNO 1200 250                         |   | WACO 1420 100<br>Waco, Texas   |
|          | El Paso, Texas<br>KTUL 1400 1000       |          | Winona, Minn.<br>KWOC 1310 100        |   |  |
| 1        | KTUL 1400 1000                         |          | RWOC 1310 100                         |   | Akron, Ohio  |
|          | Tulsa, Okla.<br>KTW 1220 1000          |          | Poplar Bluff, Mo.<br>KWOS 1310 100    |   | WAGA 1450 500  |
|          | Seattle, Wash.                         |          | Jefferson City, Mo.                   |   | Atlanta, Ga.   |
|          | KUJ 1370 100                           |          | KWSC 1220 1000                        |   | WAGF 1370 250  |
|          | Walla Walla, Wash.                     |          | Pullman, Wash.                        |   | Dothan, Ala.<br>WAGM 1420 100  |
|          | KUMA 1420 100                          |          | KWTO 560 5000                         |   | Presque Isle, Me.  |
|          | Yuma, Ariz.<br>KUOA 1260 5000          |          | Springfield, Mo.<br>KWYO 1370 100     |   | WAIM 1200 100  |
|          | KUOA 1260 5000<br>Siloam Springs, Ark. | 1        | Sheridan, Wyo.                        |   | Anderson, S. C.  |
|          | KUSD 890 500                           |          | KXA 760 250                           |   | WAIR 1250 250  |
|          | Vermillion, S. Dak.                    |          | Seattle, Wash.                        |   | Winston-Salem, N. C.   |
|          | KUTA 1500 100                          |          | KXL 1420 100                          |   | WALA 1380 500<br>Mobile, Ala,  |
|          | Salt Lake City, Utah                   |          | Portland, Ore.                        |   | TYTA T TO A TO THE TOTAL |
|          | KVAK 1420 100                          |          | KXO 1500 100<br>El Centro, Calif.     |   | Zanesville, Ohio   |
|          | Atchison, Kans.<br>KVCV 1200 100       |          | KXOK 1250 1000                        |   | WAML 1310 100  |
|          | KVCV 1200 100<br>Redding, Calif.       |          | St. Louis, Mo.                        |   | Laurel, Miss   |
|          | KVEC 1200 100                          |          | KXRO 1310 100                         |   | WAPI 1140 5000   |
|          | San Luis Obispo, Cal.                  |          | Aberdeen, Wash.                       |   | Birmingham, Ala.   |
|          | KVGB 1370 100                          |          | KXYZ 1440 1000                        |   | WAPO 1420 100<br>Chattanooga, Tenn.  |
|          | Great Bend, Kans.                      |          | Houston, Texas<br>KYA 1230 1000       |   | WARD 1400 500  |
|          | KVI 570 1000<br>Tacoma, Wash.          |          | San Francisco, Calif.                 |   | Brooklyn, N. Y.  |
|          | KVNU 1500 100                          | 1        | KYCA 1500 100                         |   | WASH 1270 500  |
|          | Logan, Utah                            |          | Prescott, Ariz.                       |   | Grand Rapids, Mich.  |
|          | KVOA 1260 1000                         |          | KYOS 1040 250                         |   | WATL 1370 100  |
|          | Tucson, Ariz.<br>KVOD 920 500          |          | Merced, Calif.<br>KYSM 1500 100       |   | Atlanta, Ga.<br>WATR 1190 100  |
|          | Denver, Colo. 500                      |          | Mankato, Minn.                        |   | waterbury, Conn.   |
|          | KVOE 1500 100                          |          | KYW 1020 10000                        |   | WAVE 940 1000  |
|          | Santa Ana, Calif.                      |          | Philadelphia, Pa.                     |   | Louisville, Ky.  |
|          | KVOL 1310 100                          |          | TGQ 1450 200                          |   | WAWZ 1350 500  |
|          | Lafayette, La.<br>KVOO 1140 25000      |          | Quezaltenango, Guat.<br>TGW 1520 1000 |   | Zarephath, N. J.<br>WAYX 1200 100  |
|          | KVOO 1140 25000<br>Tulsa, Okla         |          | Guatemala City, Guat.                 |   | Waycross, Ga.  |
|          | KVOR 1270 1000                         |          | TGX 1400                              |   | WAZL 1420 100  |
|          | Colo. Springs, Colo.                   |          | Guatemala City, Guat.                 |   | Hazelton, Pa.  |
|          | KVOS 1200 100                          |          | TG1 1320                              |   | WBAA 890 500   |
|          | Bellingham, Wash.<br>KVOX 1310 100     |          | Guatemala City, Guat.                 |   | West Lafayette, Ind<br>WBAL 760 2500   |
|          | KVOX 1310 100<br>Moorhead, Minn.       |          | TIX 650 1000<br>San Jose, Costa Rica  |   | Baltimore, Md.   |
|          | KVRS 1370 100                          |          | VAS 685 2000                          |   | WBAL 1060 10000  |
|          | Rock Springs, Wyo.                     |          | Glace Bay, N.S.                       |   | Baltimore, Md.   |
|          | KVSO 1210 100                          |          | VOAC 1065 40                          |   | WBAP 800 50000   |
|          | Ardmore, Okla.                         |          | St. John's Nfld.                      |   | Fort Worth, Texas  |
|          | KVWC 1500 100<br>Vernon, Texas         |          | VOCM 1006 200                         |   | WBAX 1210 100  |
|          |  |          | St. John's Nfld.                      |   | Wilkes-Barre, Pa.<br>WBBC 1400 500   |
|          | KWBG 1420 100<br>Hutchinson, Kans.     |          | VOGY 840 400<br>St. John's Nfld.      |   | WBBC 1400 500<br>Brooklyn, N. Y.   |
|          | KWEW 1500 100                          |          | VONF 1195 500                         | - | WBBL 1210 100  |
|          | Hobbs, N. Mex.                         |          | St. John's Nfld.                      |   | Richmond, Va.  |
|          | KWFT 620 250                           |          | VOWR 681 500                          |   | WBBM 770 50000   |
|          | Wichita Falls, Texas                   |          | St. John's Nfld.                      |   | Chicago, Ill.  |
|          | KWG 1200 100                           |          | WAAB 1410 500                         |   | WBBR 1300 1000   |
|          | Stockton, Calif.<br>KWJB 1210 100      | <u> </u> | Boston, Mass.                         |   | Brooklyn, N. Y. WBBZ 1200 100  |
|          | Globe, Ariz.                           |          | WAAF 920 1000<br>Chicago, 111.        | 1 | WBBZ 1200 100<br>Ponca City, Okla.   |
| <b>—</b> |  |          | Chicago, In.                          |   | 1 Mice Only, Okia.   |
|          |  |          |                                       |   |  |
|          |  |          |                                       |   |  |

|              | NORTH AME                            | RICA     | N B. C. STATION                       | э ы           | CALLS                             |
|--------------|--------------------------------------|----------|---------------------------------------|---------------|-----------------------------------|
|              | WBCM 1410 500                        |          | WCBM 1370 100                         | $\overline{}$ | WDRC 1330 1000                    |
|              | Bay City, Mich.                      | <u> </u> | Baltimore, Md.                        |               | Hartford, Conn.                   |
|              | WBEN 900 1000                        |          | WCBS 1420 100                         |               | WDSM 1200 100<br>Superior, Wis.   |
|              | Buffalo, N. Y.<br>WBEO 1310 100      |          | Springfield, Ill.<br>WCCO 810 50000   | $\vdash$      | WDSU 1250 1000                    |
| 1            | Marquette, Mich.                     |          | Minneapolis, Minn.                    |               | New Orleans, La.                  |
|              | WBHP 1200 100                        |          | WCFL 970 5000                         | _             | WDWS 1370 160                     |
|              | Huntsville, Ala.                     |          | Chicago, Ill.                         |               | Champaign, Ill.                   |
|              | WBIG 1440 1000                       |          | WCHS 580 500                          |               | WDZ 1020 250                      |
| <u> </u>     | Greensboro, N. C.                    |          | Charleston, W. Va.                    |               | Tuscola, Ill.                     |
|              | WBIL 1100 5000<br>New York, N. Y.    |          | WCHV 1420 100<br>Charlottesville, Va. | l *           | WEAF 660 50000<br>New York, N. Y. |
|              | WBLK 1370 100                        | 1500     | WCKY 1490 10000                       | $\vdash$      | WEAN 780 1000                     |
|              | Clarksburg, W. Va.                   | 120-     | Covington, Ky.                        |               | Providence, R. I.                 |
|              | WBLY 1210 100                        | 61-      | WCLE 610 500                          |               | WEAU 1050 1000                    |
| _            | Lima, Ohio                           | 41       | Cleveland, Ohio<br>WCLO 1200 100      | ├             | Eau Claire, Wis.                  |
|              | WBNO 1200 100                        |          | WCLO 1200 190<br>Tanesville, Wis.     |               | WEBC 1290 1000<br>Duluth, Minn.   |
| _            | New Orleans, La.<br>WBNS 1430 1000   |          | WCLS 1310 100                         |               | WEBO 1210 100                     |
|              | Columbus, Ohio                       |          | Toliet, Ill.                          |               | Harrisburg, Ill.                  |
|              | XZRNX 1350 1000                      |          | WCM1 1310 100                         |               | WEBR 1310 100                     |
| <del>-</del> | New York, N. Y.                      |          | Ashland, Ky.<br>WCNW 1500 100         |               | Buffalo, N. Y.                    |
|              | WBNY 1370 100                        |          | Brooklyn, N. Y.                       | 1             | WEDC 1210 100                     |
|              | Buffalo, N. Y.<br>WBOQ 860 50000     |          | WCOA 1340 500                         |               | Chicago, Ill.<br>WEED 1420 100    |
|              | New York, N. Y.                      |          | Pensacola, Fla.                       |               | Rocky Mount, N. C.                |
|              | WBOW 1310 100                        |          | WCOC 880 1000                         |               | WEEI 590 1000                     |
|              | Terre Haute, Ind.                    |          | Meridien, Miss.<br>WCOL 1210 100      |               | Boston, Mass.                     |
|              | WBRB 1210 100                        |          | WCOL 1210 100<br>Columbus, Ohio       | ŀ             | WEEU 830 1000                     |
|              | Red Bank, N. J.<br>WBRC 930 1000     | -        | WCOP 1120 500                         | ├──           | Reading, Pa. WELI 900 500         |
|              | Birmingham, Ala.                     |          | Boston, Mass.                         |               | New Haven, Conn.                  |
|              | WBRE 1310 100                        |          | WCOS 1370 100                         |               | WELL 1420 100                     |
| ,            | Wilkes-Barre, Pa.                    |          | Columbia, S. C.<br>WCOU 1210 100      |               | Battle Creek, Mich.               |
|              | WBRK 1310 100                        |          | Lewiston, Maine                       |               | WEMP 1310 100<br>Milwaukee, Wis.  |
|              | Pittsfield, Mass.<br>WBRY 1530_ 1000 |          | WCOV 1210 100                         |               | WENR 870 50000                    |
|              | Waterbury, Conn.                     |          | Montgomery, Ala.                      |               | Chicago, Ill.                     |
|              | WBT 1080 50000                       |          | WCPO 1200 100                         |               | WENY 1200 250                     |
|              | Charlotte, N. C.                     | $\vdash$ | Cincinnati, Ohio<br>WCRW 1210 100     |               | Elmira, N. Y. WEOA 1370 100       |
|              | WBTM 1370 100<br>Danville, Va.       |          | Chicago, III.                         |               | Evansville, Ind.                  |
|              | WBZ 990 50000                        | -        | WCSC 1360 500                         |               | WESG 850 1000                     |
|              | Boston, Mass.                        |          | Charleston, S. C. WCSH 940 1000       |               | Elmira, N. Y.                     |
|              | WBZA 990 1000                        |          | WCSH 940 1000<br>Portland, Me.        |               | WEST 1200 100                     |
|              | Springfield, Mass.                   |          | WDAE 1220 1000                        |               | Easton, Pa.<br>WEVD 1300 1000     |
| ,            | WCAD 1220 500<br>Canton, N. Y.       | 1        | Tampa, Fla.                           |               | New York, N. Y.                   |
|              | WCAE 1220 1000                       |          | WDAF 610 1000                         |               | WEW 760 1000                      |
|              | Pittsburgh, Pa.                      |          | Kansas City, Mo.                      |               | St. Louis, Mo.                    |
|              | WCAL 760 1000                        |          | WDAH 1310 100                         |               | WEXL 1310 50<br>Royal Ooak, Mich. |
|              | Northfield, Minn.                    |          | El Paso, Texas<br>WDAN 1500 250       |               | WFAA 800 50000                    |
|              | WCAM 1280 500                        |          | Danville, Ill.                        |               | Dallas, Texas                     |
|              | Camden, N. J. WCAO 600 1000          | $\vdash$ | WDAS 1370 100                         |               | WFAB 1300 1000                    |
|              | Baltimore, Md.                       |          | Philadelphia, Pa.                     |               | New York, N. Y.                   |
|              | WCAP 1280 500                        |          | WDAY 940 1000                         |               | WFAM 1200 100                     |
|              | Asbury Park, N. J.<br>WCAT 1200 100  | $\perp$  | Fargo, N. Dak.<br>WDBI 930 1000       |               | South Bend, Ind.<br>WFAS 1210 100 |
|              | WCAT 1200 100                        |          | WDBJ 930 1000<br>Roanoke, Va.         |               | White Plains, N. Y.               |
|              | Rapid City, S. Dak.                  |          | WDBO 580 1000                         |               | WFBC 1300 1000                    |
|              | WCAU 1170 50000<br>Philadelphia, Pa. |          | Orlando, Fla.                         |               | Greenville, S. C.                 |
|              | WCAX 1200 100                        |          | WDEL 1120 250                         |               | WFBG 1310 100                     |
|              | Burlington, Vt.                      |          | Wilmington, Del.                      |               | Altoona, Pa.                      |
|              | WCAZ 1070 100                        |          | WDEV 550 500<br>Waterbury, Vt.        |               | WFBL 1360 1000                    |
|              | Carthage, Ill.                       |          | Waterbury, Vt. WDGY 1180 1000         |               | Syracuse, N. Y. WFBM 1230 1000    |
|              | WCBA 1440 500<br>Allentown, Pa.      |          | Minneapolis, Minn.                    |               | Indianapolis, Ind.                |
| -            | WCBD 1080 5000                       |          | WDNC 1500 100                         |               | WFBR 1270 50%                     |
|              | Chicago, Ill.                        |          | Durham, N. C.                         |               | Baltimore, Md.                    |
|              |                                      |          | WDOD 1280 1000                        |               |                                   |
|              |                                      |          | Chattanooga, Tenn.                    |               |                                   |

|             | NORTH AME                            | RICA     | B. C. STATIONS                                | S BY C   | CALLS                                |
|-------------|--------------------------------------|----------|---|----------|--------------------------------------|
|             | WFDF 1310 100                        |          | WHAM 1150 50000                               |          | WIBM 1370 100                        |
|             | Flint, Mich.<br>WFEA 1340 500        | 82       | Rochester, N. Y. WHAS 820 50000               |          | Jackson, Mich.<br>WIBU 1210 100      |
| -           | Manchester, N. II.<br>WFIL 560 1000  | 8 ~      | Louisville, Ky.<br>WHAT 1310 100              |          | Poynette, Wis.<br>WIBW 580 1000      |
|             | WFIL 560 1000<br>Philadelphia, Pa.   |          | WHAT 1310 100<br>Philadelphia, Pa.            |          | Topeka, Kans.                        |
|             | WFLA 620 1000                        |          | WHAZ 1300 1000<br>Troy, N. Y.                 |          | WIBX 1200 100<br>Utica, N. Y.        |
|             | Tampa, Fla.<br>WFMD 900 500          |          | WHB 860 1000                                  |          | WICA 940 250                         |
|             | Frederick, Md.<br>WFMI 1420 100      |          | Kansas City, Mo.<br>WHBB 1500 100             |          | Ashtabula, Ohio<br>WICC 600 500      |
|             | Youngstown, Ohio                     |          | WHBB 1500 100<br>Selma, Ala.<br>WHBC 1200 100 |          | Bridgeport, Conn.                    |
|             | WFNC 1340 250<br>Fayetteville, N. C. |          | WHBC 1200 100<br>Canton, Ohio                 |          | WIL 1200 100<br>St. Louis, Mo.       |
| -           | WFOR 1370 100                        |          | WHBF 1210 100                                 |          | WILL 580 1000                        |
|             | Hattiesburg, Miss.<br>WFOY 1210 100  |          | Rock Island, Ill.<br>WHBI 1250 1000           |          | Urbana, Ill.<br>WILM 1420 100        |
|             | St. Augustine, Fla.                  |          | WHBI 1250 1000<br>Newark, N. J.               |          | Wilmington, Del.                     |
|             | WFTC 1200 100<br>Kinston, N. C.      |          | WHBL 1300 250<br>Sheboygan, Wis.              |          | WIND 560 1000 Gary, Ind.             |
|             | WGAL 1500 100                        |          | WHBQ 1370 100                                 |          | WINS 1180 1000                       |
|             | Lancaster, Pa.<br>WGAN 640 500       |          | Memphis, Tenn.<br>WHBU 1210 100               |          | New York, N. Y.<br>WIOD 610 1000     |
|             | Portland, Me.                        |          | Anderson, Ind.                                |          | Miami, Fla.                          |
|             | WGAR 1450 500<br>Cleveland, Ohio     |          | WHBY 1200 100<br>Green Bay, Wis.              |          | WIP 610 1000<br>Philadelphia, Pa.    |
|             | WGAU 1310 100                        |          | WHDF 1370 100                                 | 1401     | _WIRE 1400 1000                      |
| <u> </u>    | Athens, Ga.<br>WGBB 1210 100         |          | Calumet, Mich.<br>WHDH 830 1000               | 1770     | Indianapolis, Ind.<br>WIS 560 1000   |
|             | Freeport, N. Y.                      |          | Boston, Mass.                                 |          | Columbia, S. C.                      |
|             | WGBF 630 500<br>Evansville, Ind.     |          | WHDL 1400 250<br>Olean, N. Y.                 |          | WISN 1120 250<br>Milwaukee, Wis.     |
|             | WGBI 880 500                         |          | WHEB 740 250                                  |          | WJAC 1310 100                        |
|             | Scranton, Pa.<br>WGCM 1210 100       |          | Portsmouth, N. H. WHEC 1430 500               |          | Johnstown, Pa.<br>WJAG 1060 1000     |
|             | Gulfport, Miss.                      |          | Rochester, N. Y.                              |          | Norfolk, Neb.                        |
|             | WGES 1360 500<br>Chicago, Ill.       |          | WHEF 1500 100<br>Kosciusko, Miss.             |          | WJAR 890 1000<br>Providence, R. I.   |
|             | WGH 1310 100<br>Newport News, Va.    |          | WHFC 1420 100                                 |          | WJAS 1290 1000                       |
|             | WGIL 1500 250                        |          | Cicero, Ill.<br>WHIO 1260 1000                |          | Pittsburgh, Pa.<br>WJAX 900 1000     |
|             | Galesburg, 111.<br>WGL 1370 100      |          | Dayton, Ohio                                  |          | Jacksonville, Fla.<br>WJBC 1200 100  |
|             | Fort Wavne, Ind.                     |          | Hammond, Ind.                                 |          | Bloomington, Ill.                    |
|             | WGKV 1500 100<br>Charleston, W. Va.  |          | WHIS 1410 500                                 |          | WJBK 1500 100<br>Detroit, Mich.      |
| 77          | WGN 720 50000                        |          | Bluefield, W. Va.<br>WHJB 620 250             |          | WJBL 1200 100                        |
| 12          | Chicago, Ill.<br>WGNC 1420 100       |          | Greensburg, Pa.<br>WHK 1390 1000              |          | Decatur, Ill.<br>WIBO 1120 500       |
|             | Castonia, N. C.                      |          | Cleveland, Ohio                               |          | Baton Rouge, La.                     |
|             | WGNY 1210 100<br>Newburgh, N. Y.     |          | WHKC 640 500<br>Columbus, Ohio                |          | WJBW 1200 100<br>New Orleans, La.    |
|             | WGPC 1420 100                        |          | WHLB 1370 100                                 |          | WJBY 1210 100                        |
|             | Albany, Ga.<br>WGR 550 1000          |          | Virginia, Minn.<br>WHLS 1370 250              |          | Gadsden, Ala.<br>WJDX 1270 1000      |
| ;           | Buffalo, N. Y.                       |          | Port Huron, Mich.                             |          | Jackson, Miss.                       |
|             | WGRC 1370 250<br>New Albany, Ind.    |          | WHMA 1420 100<br>Anniston, Ala.               |          | WJEJ 1210 100<br>Hagerstown, Md.     |
| <del></del> | WGRM 1210 100                        |          | WHN 1010 1000                                 |          | WJHL 1200 100                        |
|             | Grenada, Miss.<br>WGST 890 1000      | $\vdash$ | New York, N. Y.<br>WHO 1000 50000             |          | Johnson City, Tenn.<br>WJIM 1210 100 |
|             | Atlanta, Ga.                         |          | Des Moines, Iowa                              |          | Lansing, Mich.                       |
|             | WGTM 1310 100<br>Wilson, N. C.       |          | WHOM 1450 250<br>Jersey City, N. J.           |          | WJJD 1130 20000<br>Chicago, Ill.     |
|             | WGY 790 50000                        |          | WHP 1430 500                                  |          | WJMC 1210 250                        |
| -           | Schenectady, N Y.<br>WHA 940 5000    | $\vdash$ | Harrisburg, Pa.<br>WIBA 1280 1000             | <u> </u> | Rice Lake, Wis.<br>WJMS 1420 100     |
|             | Madison, Wis.                        |          | Madison, Wis.                                 |          | Ironwood, Mich.                      |
| 1           | WHAI 1210 250<br>Greenfield, Mass.   |          | WIBC 1050 1000<br>Indianapolis, Ind.          |          | WJNO 1200 100<br>W. Palm Beach, Fla  |
|             | WHAL 950 500                         |          | WIBG 970 100                                  |          | I aim Deach, File                    |
|             | Saginaw, Mich.                       | <u> </u> | Glenside, Pa.                                 | <u> </u> | <u> </u>                             |

|             | NORTH AME                            | RICA | N B. C. STATIONS                        | BY ( | CALLS                                |
|-------------|--------------------------------------|------|---|------|--------------------------------------|
| 742         | WJR 750 50000                        |      | WLNH 1310 100                           |      | WNAD 1010 1000                       |
| 172         | Detroit, Mich.<br>WJRD 1200 250      |      | Laconia, N. H. WLS 870 50000            |      | Norman, Okla.<br>WNAX 570 1000       |
|             | Tuscaloosa, Ala.                     |      | Chicago, Ill.                           |      | Yankton, S. D.                       |
| 14/2        | WJSV 1460 10000                      |      | WLTH 1400 500                           |      | WNBC 1380 250<br>New Britain, Conn.  |
| 170         | Washington, D. C.<br>WJTN 1210 100   |      | Brooklyn, N. Y. WLVA 1200 100           | -    | WNBF 1500 100                        |
|             | Jamestown, N. Y.                     |      | Lynchburg, Va.                          |      | Binghamton, N. Y.                    |
|             | WJW 1210 100                         |      | WLW 700 500000<br>Cincinnati, Ohio      | 1    | WNBH 1310 100<br>New Bedford, Mass.  |
|             | Akron, Ohio<br>WJZ 760 50000         |      | WMAL 630 250                            |      | WNBX 1260 500                        |
|             | New York, N. Y.                      |      | Washington, D. C.                       |      | Springfield, Vt.                     |
|             | WKAQ 1240 1000<br>San Juan, P. R.    | 67   | WMAQ 670 50000<br>Chicago, Ill          |      | WNBZ 1290 100<br>Saranac Lake, N. Y. |
|             | WKAR 850 1000                        |      | WMAS 1420 100                           |      | WNEL 1290 1000                       |
|             | East Lansing, Mich.                  |      | Springfield, Mass.<br>WMAZ 1180 1000    |      | San Juan, P. R.<br>WNEW 1250 1000    |
|             | WKAT 1500 100<br>Miami Beach, Fla.   |      | WMAZ 1180 1000<br>Macon, Ga,            |      | New York, N. Y.                      |
|             | WKBB 1500 100                        |      | Macon, Ga. WMBC 1420 100 Detroit, Mich. |      | New York, N. Y.<br>WNLC 1500 100     |
|             | East Dubuque, Ill.<br>WKBH 1380 1000 |      | WMBD 1440 1000                          |      | New London, Conn.<br>WNOX 1010 1000  |
|             | La Crosse, Wis.                      |      | Peoria, Ill.                            |      | Knoxville, Tenn.                     |
|             | WKBN 570 500<br>Youngstown, Ohio     |      | WMBF 610 1000                           |      | WNYC 810 1000<br>New York, N. Y.     |
|             | WKBO 1200 100                        |      | Miami, Fla.<br>WMBG 1350 500            |      | WOAI 1190 50000                      |
|             | Harrisburg, Pa.                      |      | Richmond, Va.                           |      | San Antonio, Texas                   |
|             | WKBV 1500 100<br>Richmond, Ind.      |      | WMBH 1420 100                           |      | WOC 1370 100<br>Davenport, Iowa      |
| -           | WKBW 1480 5000                       |      | Joplin, Mo.<br>WMBI 1080 5000           |      | WOCB 1210 100                        |
|             | Buffalo, N. Y.<br>WKBZ 1500 100      |      | Chicago, Ill.<br>WMBO 1310 100          |      | Cape Cod, Mass.<br>WOI 640 5000      |
|             | Muskegon, Mich.                      |      | Auburn, N. Y.                           |      | Ames, Iowa                           |
|             | WKEU 1500 100                        |      | WMBR 1370 100                           |      | WOKO 1430 500                        |
|             | Griffin, Ga.<br>WKOK 1210 100        |      | Jacksonville, Fla.<br>WMBS 1420 250     |      | Albany, N. Y. WOL 1310 1000          |
|             | Sunbury, Pa.                         |      | Uniontown, Pa.                          |      | Washington, D. C.                    |
| 64          | WKRC 550 1000<br>Cincinnati, Ohio    |      | WMC 780 .000                            |      | WOLS 1200 100<br>Florence, S. C.     |
| <del></del> | WKST 1250 250                        |      | Memphis, Tenn.<br>WMCA 570 1000         |      | WOMI 1500 100                        |
|             | New Castle, Pa. WKY 900 1000         |      | New York, N. Y.                         |      | Owensboro, Ky. WOMT 1210 100         |
|             | Oklahoma City, Okla.                 |      | WMEX 1500 100<br>Roston Mass            |      | Manitowoc, Wis.                      |
|             | WKZO 590 1000                        |      | Boston, Mass.<br>WMFD 1370 100          |      | WOOD 1270 500                        |
|             | Kalamazoo, Mich.<br>WLAC 1470 5000   |      | Wilmington, N. C. WMFF 1310 100         |      | Grand Rapids, Mich.<br>WOPI 1500 100 |
|             | Nashville, Tenn.                     |      | Plattsburg, N. Y.                       |      | Bristol, Tenn.                       |
|             | WLAK 1310 100<br>Lakeland, Fla.      |      | WMFG 1210 100                           | 71   | WOR 710 50000<br>Newark, N. J.       |
|             | WLAP 1420 100                        |      | Hibbing, Minn.<br>WMFJ 1420 100         |      | WORC 1280 500                        |
|             | Lexington, Ky.                       |      | Dayton Beach, Fla.                      |      | Worcester, Mass.                     |
|             | WLAW 680 1000<br>Lawrence, Mass.     |      | WMFO 1370 100                           |      | WORK 1320 1000<br>York, Pa.          |
|             | WLB 760 1000                         |      | Decatur, Ala.<br>WMFR 1200 100          |      | WORL 920 500                         |
|             | Minneapolis, Minn                    |      | High Point, N. C.                       |      | Boston, Mass.<br>WOSU 570 750        |
|             | WLBC 1310 100<br>Muncie, Ind.        |      | WMIN 1370 100<br>St. Paul, Minn.        |      | WOSU 570 750<br>Columbus, Ohio       |
|             | WLBL 900 5000                        | 100  | WMMN 890 500                            |      | WOV 1130 1000                        |
|             | Stevens Point, Wis.<br>WLBZ 620 500  | 89   | Fairmont, W. Va.<br>WMPC 1200 100       | 1    | New York, N. Y.<br>WOW 590 1000      |
|             |                                      |      | Lapeer, Mich.                           | :    | Omaha, Neb.                          |
|             | Bangor, Me.<br>WLEU 1420 100         |      | Lapeer, Mich.<br>WMPS 1430 500          |      | WOWO 1160 10000                      |
|             | Erie, Pa.<br>WLLH 1370 100           |      | Memphis, Tenn.<br>WMRO 1250 250         |      | Fort Wayne, Ind.<br>WPAD 1420 100    |
|             | Lawrence, Mass.                      |      | Aurora, Ill.                            |      | Paducah, Ky.                         |
|             | WLLH 1370 100                        |      | Aurora, Ill.<br>WMSD 1420 100           | -    | WPAR 1420 100<br>Parkersburg, W. Va. |
|             | Lowell, Mass.                        | -    | Muscle Shoals C., Ala.<br>WMT 600 1000  |      | WPAX 1210 100                        |
|             |                                      |      | Cedar Rapids, Iowa                      |      | Thomasville, Ga.                     |
|             |                                      |      | WNAC 1230 1000<br>Boston, Mass.         |      |                                      |
|             |                                      |      | Doston, Mass.                           |      |                                      |
|             |                                      |      |   |      |                                      |
| _           |                                      |      |   |      |                                      |

|          |  |     | 1  |          |   |
|----------|--|-----|--|----------|---|
|          | WPAY 1370 100  |     | WSAL 1200 250  |          | WTAQ 1330 1000  |
|          | Portsmouth, Ohio   |     | Salisbury, Md.   |          | Green Bay, Wis.   |
|          | WPEN 920 1000  |     | WSAN 1440 500  |          | WTAR 780 1000   |
| 1        | Philadelphia, Pa.  |     | Allentown, Pa.   | l i      | Norfolk, Va.  |
| -        | WPG 1100 5000  |     | WSAR 1450 1000   |          | WTAW 1120 500   |
|          | Atlantic City, N. J.   | i . | Fall River, Mass.  | 1 1      | College Station, Tex.   |
|          | WPIC 780 250   |     | WSAU 1370 100  |          | WTAX 1210 100   |
| 1        | Sharon, Pa.  |     | Wausau, Wis.   | 1 1      | Springfield, Ill.   |
|          | WPIV 1210 100  |     | WSAV 1310 100  |          | WTBO 800 250  |
| 1        | Petersburg, Va.  | 1   | Bavannah, Ga.  | i        | Cumberland, Md.   |
| -        | WPRA 1370 100  |     | WSAY 1210 100  |          | WTCN 1250 1000  |
|          |  |     | Rochester, N. Y.   | 1        | Minneapolis, Minn.  |
|          | Mayaguez, P. R.  |     | Rochester, N. 1.   | <u> </u> | WTEL 1310 100   |
| 1        | WPRO 630 500   | 1   | WSAZ 1190 1000   | 1        | Philadelphia, Pa.   |
|          | Providence, R. I.  |     | Huntington, W. Va.   |          |   |
| 1        | WPRP 1420 100  | 1   | WSB 740 50000  |          |   |
|          | Ponce, P. R.   |     | Atlanta, Ga.   |          | Hartford, Conn.   |
|          | WPTF 680 5000  | 1.  | WSBC 1210 100  |          | WTIC 1040 50000   |
|          | Raleigh, N. C.   |     | Chicago, Ill.  |          | Hartford, Conn.   |
|          | WQAM 560 1000  |     | WSBT 1360 500  |          | WTJS 1310 100   |
| 1        | Miami, Fla.  |     | South Bend, Ind.   |          | Jackson, Tenn.<br>WTMA 1210 100   |
| -        | WQAN 880 500   |     | WSFA 1410 500  |          | WTMA 1210 100   |
|          | Scranton, Pa.  |     | Montgomery, Ala.   |          | Charleston, S. C.   |
|          | WOBC 1360 1000   |     | WSGN 1310 100  |          | WTMJ 620 1000   |
| 1        | Vicksburg, Miss.   | ı   | Birmingham, Ala.   | I        | Milwaukee, Wis.   |
| _        | WQDM 1390 1000   |     | WSIX 1210 100  |          | WTMV 1500 100   |
| 1        | St. Albans, Vt.  |     | Nashville, Tenn.   |          | East St. Louis, Ill.  |
|          | WQXR 1550 1000   |     | WSJS 1310 100  |          | WTNJ 1280 500   |
| 1        | New York, N. Y.  | l . | Winston-Salem, N. C.   | i .      | Trenton, N. I.  |
|          | WRAK 1370 100  |     |  | <u> </u> | Trenton, N. J. WTOC 1260 1000   |
| 1        | WRAK 1370 100  | 1   |  | 1        | Savannah, Ga.   |
|          | Williamsport, Pa.  |     | Jackson, Miss.   |          | WTOL 1200 100   |
|          | WRAL 1210 100  | i i | WSM 650 50000  |          | Toledo, Ohio  |
|          | Raleigh, N. C.   |     | Nashville, Tenn.   |          | WTRC 1310 100   |
|          | WRAW 1310 100  | 1   | WSMB 1320 1000   |          | WIRC 1310 100   |
| L        | Reading, Pa.   |     | New Orleans, La.   |          | Elkhart, Ind.   |
|          | WRAX 920 1000  |     | WSMK 1380 200  | J 1      | WTRY 950 1000   |
|          | Philadelphia, Pa.  |     | Dayton, Ohio   |          | WTRY 950 1000<br>Troy, N. Y.<br>WVFW 1400 500   |
|          | WRBL 1200 100  |     | WSNJ 1210 100  |          | WVFW 1400 500   |
|          | Columbus, Ga.  |     | Bridgeton, N. J.   |          | Brooklyn, N. Y.   |
|          | WRC 950 1000   |     | WSOC 1210 100  |          | WWAE 1200 100   |
| 1        | Washington, D. C.  | l . | Charlotte, N. C.   |          | Hammond, Ind.   |
|          | WRDO 1370 100  |     | WSPA 920 1000  |          | WWJ 920 5000  |
| 1        | Augusta, Me.   | 1   | Spartanburg, S. C.   |          | Detroit, Mich.  |
| $\vdash$ | WRDW 1500 100  |     | WSPD 1340 1000   | - No. 10 | WWL 850 10000   |
| 1        | Augusta, Ga.   | l . | Toledo, Ohio   | 85       | New Orleans, La.  |
| _        | WREC 600 1000  |     | WSPR 1140 500  |          | WWNC 570 1000   |
| 1        |  |     |  |          |   |
| 1        | Memphis. Tenn.   |     | Springfield, Mass.   |          | Asheville, N. C.  |
|          | Memphis, Tenn.   |     | Springfield, Mass.   |          |   |
|          | Memphis, Tenn.<br>WREN 1220 1000   |     | WSTP 1500 100  |          | WWRL 1500 100   |
|          | Memphis, Tenn.<br>WREN 1220 1000<br>Lawrence, Kans.  |     | WSTP 1500 100<br>Salisbury, N. C.  |          | WWRL 1500 100<br>Woodside, N. Y.  |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100  |     | WSTP 1500 100<br>Salisbury, N. C.  |          | WWRL 1500 100<br>Woodside, N. Y.<br>WWSW 1500 100   |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga.  |     | WSTP 1500 100<br>Salisbury, N. C.<br>WSUI 880 500<br>Iowa City, Iowa   |          | WWRL 1500 100<br>Woodside, N. Y.<br>WWSW 1500 100<br>Pittsburgh, Pa.  |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100  |     | WSTP   1500   100<br>  Salisbury, N. C.<br>  WSUI   880   500<br>  Iowa City, Iowa<br>  WSUN   620   1000  |          | WWRL 1500 100<br>Woodside, N. Y.<br>WWSW 1500 100<br>Pittsburgh, Pa.<br>WWVA 1160 5000  |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis.   |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla.   |          | WWRL 1500 100 Woodside, N. Y. WWSW 1500 100 Pittsburgh, Pa. WWVA 1160 5000 Wheeling, W. Va.   |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNI. 880 500   |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 WSUN 520 1000 Salisbury, Fla. WSVA 550 500   |          | WWRL 1500 100<br>Woodside, N. Y.<br>WWSW 1500 100<br>Pittsburgh, Pa.<br>WWVA 1160 5000<br>Wheeling, W. Va.<br>WXYZ 1240 1000  |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va.  |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va.  |          | WWRL 1500 100 Woodside, N. Y. WWSW 1500 100 Pittsburgh, Pa. WWVA 1160 5000 Wheeling, W. Va. WXYZ 1240 1000 Detroit, Mich.   |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500  |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50   |          | WWRL 1500 100 Woodside, N. Y. WWSW 1500 100 Pittsburgh, Pa. WWVA 1160 5000 Wheeling, W. Va. WXYZ 1240 1000 Detroit, Mich. W3XDD 50000   |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill.   |     | WSTP   1500   100 Salisbury, N. C. WSUI   880   500 Iowa City, Iowa WSUN   620   1000 St. Petersburg, Fla. WSVA   550   500 Harrisonburg, Va. WSVS   1370   50 Buffalo, N. Y.  |          | WWRL 1500 100 Woodside, N. Y. WWSW 1500 100 Pittsburgh, Pa. WWVA 1160 5000 Wheeling, W. Va. WXYZ 1240 1000 Detroit, Mich. W3XDD 5000c Whippany, N. J.   |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100   |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50   |          | WWRL 1500 100 Woodside, N. Y. WWSW 1500 100 Pittsburgh, Pa. WWVA 1160 5000 Wheeling, W. Va. WXYZ 1240 1000 Detroit, Mich. W3XDD 5000c Whippany, N. J. W3XJ 1060 100   |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn.  |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100  |          | WWRL 1500 100 Woodside, N. Y. WWSW 1500 100 Pittsburgh, Pa. WWVA 1160 5000 Wheeling, W. Va. WXYZ 1240 1000 Detroit, Mich. W3XDD 50000 Whippany, N. J. W3XJ 1060 100 College Park, Md.   |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WPP 1280 100   |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt.   |          | WWRL 1500 100 Woodside, N. Y. WWSW 1500 100 Pittsburgh, Pa. WWVA 1160 5000 Wheeling, W. Va. WXYZ 1240 1000 Detroit, Mich. W3XDD . 5000c Whippany, N. J. W3XJ 1060 100 College Park Md. XEAA 750 200   |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WPP 1280 100   |     | WSTP   1500   100 Salisbury, N. C. WSUI   880   500 Iowa City, Iowa WSUN   620   1000 St. Petersburg, Fla. WSVA   550   500 Harrisonburg, Va. WSVS   1370   50 Buffalo, N. Y. WSYB   1500   100 Rutland, Vt. WSYR   570   1000   |          | WWRL 1500 100 Woodside, N. Y. WWSW 1500 100 Pittsburgh, Pa. WWVA 1160 5000 Wheeling, W. Va. WXYZ 1240 1000 Detroit, Mich. W3XDD 5000c Whippany, N. J. W3XJ 1060 100 College Park, Md. XEAA 750 200 Mexicall, B. C.  |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100   |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y.   |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Wheeling, W. Va. WXYZ 1240 Detroit, Mick. W3XDD 50000 Whippany, N. J. W3XJ 1060 College Park, Md. XEAA 750 Mexicali, B. C. XEAC 980 1000  |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100   |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000   |          | WWRL 1500 100 Woodside, N. Y. WWSW 1500 100 Pittsburgh, Pa. WWVA 1160 5000 Wheeling, W. Va. WXYZ 1240 1000 Detroit, Mich. W3XDD 5000c Whippany, N. J. W3XJ 1060 100 College Park, Md. XEAA 750 200 Mexicall, B. C.  |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va.   |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000 Syracuse, N. Y.  |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Voa. Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park, Md. XEAA 750 Mexicali, B. C. XEAC 980 Fijuana, L. C.  |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va. WRUF 830 5000   |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000 Syracuse, N. Y. WTAD 900 1000   |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park Md. XEAA 750 Mexicalli, B. C. XEAC 980 Lijuana, L. C. XEAF 990 750  |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va. WRUF 830 5000 Gainesville, Fla.   |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000 Syracuse, N. Y. WTAD 900 1000 Quincy, Ill.  |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park Md. XEAA 750 Mexicali, B. C. XEAF 980 Tijuana, L. C. XEAF 990 Nogales, Son.   |
|          | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va. WRUF 830 5000 Gainesville, Fla. WRVA 1110 5000  |     | WSTP   1500   100 Salisbury, N. C. WSUI   880   500 Iowa City, Iowa WSUN   620   1000 St. Petersburg, Fla. WSVA   550   500 Harrisonburg, Va. WSVS   1370   50 Buffalo, N. Y. WSYB   1500   100 Rutland, Vt. WSYR   570   1000 Syracuse, N. Y. WSYU   570   1000 Syracuse, N. Y. WTAD   900   1000 Quincy, Ill. WTAG   580   1000  |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Von Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park, Md. XEAA 750 Mexicali, B. C. XEAC 980 Fijuana, L. C. XEAF 990 Nogales, Son. XEAG 1310 10   |
| ///+     | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va. WRUF 830 5000 Gainesville, Fla. WRVA 1110 5000 Richmond, Va.  |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000 Syracuse, N. Y. WTAD 900 1000 Quincy, Ill. WTAG 580 1000 Worcester, Mass.   |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park Md. XEAA 750 Mexicali, B. C. XEAC 980 Cijuana, L. C. XEAC 990 Nogales, Son. XEAG 1310 Cordoba, Ver.   |
| 1//+     | Memphis, Tenn. WREN 1220 Lawrence, Kans. WRGA 1500 Rome, Ga. WRJN 1370 Racine, Wis. WRNL 880 Richmond, Vs. WROL 1310 Knoxville, Tenn. WRR 1280 Dallas, Texas WRTD 1500 Richmond, Va. WRUF 830 Gainesville, Fla. WRVA 1110 Richmond, Va. WRVA 1110 Richmond, Va. WRVA 1110 Richmond, Va. WRVA 11330 1000  |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000 Syracuse, N. Y. WTAD 900 1000 Quincy, Ill. WTAG 580 1000 Worcester, Mass. WTAL 1310 100   |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park Md. XEAA 750 Mexicali, B. C. XEAF 990 Nogales, Son. XEAG 1310 Cordoba, Ver. XEAI 1250 500   |
| ]//+     | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va. WRUF 830 5000 Gainesville, Fla. WRVA 1110 5000 Richmond, Va. WRVA 1110 5000 Richmond, Va. WSAI 1330 1000 Cincinnati, Ohio |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000 Syracuse, N. Y. WTAD 900 1000 Quincy, Ill. WTAG 580 1000 Worcester, Mass.   |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Von Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park, Md. XEAA 750 Mexicali, B. C. XEAC 980 Cijuana, L. C. XEAF 990 Nogales, Son. XEAG 1310 Cordoba, Ver. XEAI 1250 Mexico City, D. F.           |
| ///+     | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va. WRUF 830 5000 Gainesville, Fla. WRVA 1110 5000 Richmond, Va. WRVA 1130 1000 Cincinnati, Ohio WSAJ 1310 100                |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000 Syracuse, N. Y. WTAD 900 1000 Quincy, Ill. WTAG 580 1000 Worcester, Mass. WTAL 1310 100   |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park Md. XEAA 750 Mexicali, B. C. XEAC 980 Cijuana, L. C. XEAC 980 Cijuana, L. C. XEAG 1310 Cordoba, Ver. XEAI 1250 Mexico City, D. F. XEAL 660 1000 |
| ]//+     | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va. WRUF 830 5000 Gainesville, Fla. WRVA 1110 5000 Richmond, Va. WRVA 1110 5000 Richmond, Va. WSAI 1330 1000 Cincinnati, Ohio |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000 Syracuse, N. Y. WTAD 900 1000 Quincy, Ill. WTAG 580 1000 Worcester, Mass. WTAL 1310 100 Tallahassee, Fla. WTAM 1070 50000                             |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Von Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park, Md. XEAA 750 Mexicali, B. C. XEAC 980 Cijuana, L. C. XEAF 990 Nogales, Son. XEAG 1310 Cordoba, Ver. XEAI 1250 Mexico City, D. F.           |
| ]//+     | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va. WRUF 830 5000 Gainesville, Fla. WRVA 1110 5000 Richmond, Va. WRVA 1130 1000 Cincinnati, Ohio WSAJ 1310 100                |     | WSTP   1500   100 Salisbury, N. C. WSUI   880   500 Iowa City, Iowa WSUN   620   1000 St. Petersburg, Fla. WSVA   550   500 Harrisonburg, Va. WSVS   1370   50 Buffalo, N. Y. WSYB   1500   100 Rutland, Vt. WSYR   570   1000 Syracuse, N. Y. WSYU   570   1000 Syracuse, N. Y. WTAD   900   1000 Quincy, Ill. WTAG   580   1000 Worcester, Mass. WTAL   1310   100 Tallahassee, Fla. |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park Md. XEAA 750 Mexicali, B. C. XEAC 980 Cijuana, L. C. XEAC 980 Cijuana, L. C. XEAG 1310 Cordoba, Ver. XEAI 1250 Mexico City, D. F. XEAL 660 1000 |
| ///+     | Memphis, Tenn. WREN 1220 1000 Lawrence, Kans. WRGA 1500 100 Rome, Ga. WRJN 1370 100 Racine, Wis. WRNL 880 500 Richmond, Va. WROK 1410 500 Rockford, Ill. WROL 1310 100 Knoxville, Tenn. WRR 1280 500 Dallas, Texas WRTD 1500 100 Richmond, Va. WRUF 830 5000 Gainesville, Fla. WRVA 1110 5000 Richmond, Va. WRVA 1130 1000 Cincinnati, Ohio WSAJ 1310 100                |     | WSTP 1500 100 Salisbury, N. C. WSUI 880 500 Iowa City, Iowa WSUN 620 1000 St. Petersburg, Fla. WSVA 550 500 Harrisonburg, Va. WSVS 1370 50 Buffalo, N. Y. WSYB 1500 100 Rutland, Vt. WSYR 570 1000 Syracuse, N. Y. WSYU 570 1000 Syracuse, N. Y. WTAD 900 1000 Quincy, Ill. WTAG 580 1000 Worcester, Mass. WTAL 1310 100 Tallahassee, Fla. WTAM 1070 50000                             |          | WWRL 1500 Woodside, N. Y. WWSW 1500 Pittsburgh, Pa. WWVA 1160 Wheeling, W. Va. WXYZ 1240 Detroit, Mich. W3XDD 5000 Whippany, N. J. W3XJ 1060 College Park Md. XEAA 750 Mexicali, B. C. XEAC 980 Cijuana, L. C. XEAC 980 Cijuana, L. C. XEAG 1310 Cordoba, Ver. XEAI 1250 Mexico City, D. F. XEAL 660 1000 |

|   | NORTH AME                                | RICAN    | N B. C. STATIONS                | BY           | CALLS                              |
|---|--|----------|---------------------------------|--------------|------------------------------------|
|   | XEAM 750 25                              |          | XEDP 1080 500                   |              | XENC 860 50                        |
|   | Matamoros, Tams.                         |          | Mexico City, D. F.              |              | Mexico City, D. F.                 |
|   | XEAO 660 250                             |          | XEDR 1490 100                   |              | XENT 910 150000                    |
|   | Mexicali, B. C.                          |          | Guaymas, Son                    |              | Nuevo Laredo, Tams.                |
|   | XEAP 1340 50                             |          | XEDW 1150 20                    |              | XEOJ                               |
|   | Obregon, Son.                            | <u> </u> | Minatitlan, Ver.<br>XEE 1210 50 |              |                                    |
| 1 | XEAS 1160 100<br>Saltillo, Coah.         |          | Durango, Dgo.                   |              | XEOK 760 2500                      |
|   | XEAT 1210 250                            | _        | XEF 1450 100                    |              | Tijuana, L. C.<br>XEP 1160 500     |
| 1 | Parral, Chih.                            | 1        | Juarez, Chih.                   |              | Juarez, Chih.                      |
|   | XEAW 960 100000                          |          | XEFB 870 200                    |              | XEPN 730 100000                    |
|   | Reynosa, Tams.                           | ,        | Monterrrey, N. L.               |              | Piedras Negras, Coah.              |
|   | XEB 1030 10000                           |          | XEFC 1340 100                   |              | XEQ 710 50000                      |
|   | Mexico City, D. F.                       |          | Merida, Yuc.                    |              | Tijuana, L. C.                     |
|   | XEBA 1080 20                             |          | XEFE 980 250                    |              | XERA 840 250000                    |
|   | Guzman, Jal.                             |          | Nuevo Laredo, Tams.             |              | Villa Acuna, Coah.                 |
| 1 | XEBG 820 1000                            |          | XEFI 1440 250                   | :            | XERB 730 100000                    |
|   | Tijuana, B. Cfa.<br>XEBH 930 500         |          | Chihuahua, Chih.                |              | Rosarito Beach, B. Cfa.            |
|   | XEBH 930 500<br>Hermosillo, Sonora       |          | XEFO 940 5000                   |              | XES 990 250                        |
|   | XEBI 1000 25                             |          | Mexico City, D. F.              |              | Tampico, Tams.                     |
|   | Aguascalientes, Ags.                     |          | XEFQ 1010 50<br>Cananea, Son.   |              | XET 690 5000<br>Monterrey, N. L.   |
|   | XEBK 1080 100                            |          | XEFV 1210 100                   |              | XETB 1310 125                      |
|   | Neuvo Laredo, Tams,                      |          | Juarez, Chih.                   |              | Torreon, Coah,                     |
|   | XEBL 1220 50                             |          | XEFW 1310 300                   |              | XETH 1210 100                      |
|   | Mazatlan, Sin.                           |          | Tampico, Tams.                  |              | Puebla, Pue.                       |
|   | XEBO 1310 25                             |          | XEG 1230 250                    |              | XEU 1010 250                       |
|   | Irapuato, Guan.                          |          | Monterrey, N. L.                |              | Veracruz, Ver.                     |
|   | XEBP 1150 250<br>Durango, Dgo.           |          | XEH 720 250                     |              | XEW 890 50000                      |
|   | XEBS 1340 200                            |          | Monterrey, N. L.                |              | Mexico City, D. F.<br>XEX 1310 125 |
| 1 | Mexico City, D. F.                       |          | XEI 1370 125<br>Morelia, Mich.  |              | Monterrey, N. L.                   |
|   | XEBU 1240 50                             |          | XEI 1020 1000                   |              | XEXB 1270 250                      |
|   | Chihuahua, Chih.                         |          | Juarez, Chih.                   |              | Talapa, Ver.                       |
|   | XEBX 640 250                             |          | XEIP 1130 100                   | ;            | XEXD 1340 350                      |
|   | Sabinas, Coah.<br>XEBZ 810 100           |          | Mexico City, D. F.              |              | Jalapa, Ver.                       |
| 1 | Mexico City, D. F.                       |          | XEK 990 100                     | ٠.           | XEXE 1270 17                       |
|   | XEC 1150 100                             |          | Mexico City, D. F.              | <del>-</del> | Texcoco, D. F.<br>XEXH 1250 250    |
|   | Tijuana, L. C.                           |          | XEKL 1240 500                   | •            | San Luis Potosi, S.L.P.            |
|   | XECA 1230 250                            |          | Leon, Guan.<br>XEL 1100 250     |              | XEXM 610 500                       |
| 1 | Tampico, Tam.                            |          | Mexico City, D. F.              |              | Mexico City, D. F.                 |
|   | XECL 1230 250                            |          | XEW 890 100000                  |              | XEXS 1310 100                      |
| Ĺ | Tampico, Tam.                            |          | Tijuana, B. Cfa.                |              | Mexico City, D. F.                 |
|   | XECZ 1370 100                            |          | XELZ 1370 100                   |              | XEXX 1170 1000                     |
|   | San Luis Potosi, S.L.P.<br>XED 1160 2500 |          | Mexico City, D. F.              |              | Mexico City, D. F.<br>XEYO 610 500 |
|   | Guadalajara, Jal.                        |          | XEME 1240 50                    |              | XEYO 610 500<br>Mexico City, D. F. |
|   | XEDA 1220 200                            |          | Merida, Yuc.                    |              | XEZ 630 500                        |
|   | Gral. Anava, D. F.                       |          | XEMO 860 5000                   |              | Merida, Yuc.                       |
|   | XEDF 810 100                             |          | Tijuana, L. C.<br>XEMU 580 250  |              | YSS 640 500                        |
|   | Nuevo Laredo, Tams.                      |          | Piedras Negras, Coah.           |              | San Salvador, E. S.                |
|   | XEDH 1340 200                            |          | XEMX 1280 100                   |              | ZNS 540 400                        |
|   | Villa Acuna, Coah.                       |          | Mexico City, D. F.              | 1,           | Nassau, Bahamas                    |
|   |  |          | XEN 780 1000                    |              |                                    |
|   |  |          | Mexico City, D. F.              |              |                                    |
|   | 1  |          |                                 |              |                                    |

NEXT MONTH IN RADEX—We are very pleased to announce that we have arranged to have a Twenty Meter Amateur column written for us each month, commencing with the January issue. We are sorry that the writer prefers to remain anonymous, but we assure our readers that he is an experienced shortwave listener, and has had unusual success on

the amateur bands. We are sure that all our readers who enjoy listening to 14 megacycles, will enjoy reading this instructive and well-written column. There will be pictures of amateur cards, and of well-known "ham" stations, as well as the regular "Amateur Calls Heard" column.

## BROADCASTING STATIONS OF NORTH AMERICA

Compiled from RADEX records, with the assistance of Ed M. Vickers. This supplementary call letter index began in the September, 1938 issue of RADEX, and will appear on these pages every month until completed.

The abbreviations used throughout this list are familiar to all our readers, except perhaps "CP" for Construction Permit, "LS" for Local Sunset, and "ss" for sunset.

- San Francisco, Calif., 790 kcs., 7500 w. unltd. Network: NBC Blue. Transmitter: 54th Ave. and E. 18th St., Oakland. Aerial: 2 towers, 150 ft. Manager: Lloyd E. Yoder. Owner: Na-
- and E. 18th St., Oakiand. Aeriai: 2 towers, 150 ft. Anamager: Lloyd E. Yoder. Owner: National Broadcasting Co., 111 Sutter St.

  KGU, Honolulu, Hawaii, 750 kcs., 2500 w., Ltd. Network: NBC. Aerial: 2 towers, 160 ft. Manager: Marion A. Mulrony. Owner: Advertiser Publishing Co., Ltd., Advertiser Square.

  KGVI, Greenville, Texas, 1200 kcs., 100 w. to Is. Transmitter: 2610 Washington St. Aerial: veitical, 205 ft. Owner: Fred Horton. Licensee: Hunt Broadcasting Association.
- KGVO, Missoula, Mont., 1260 kcs., 1 kw nights, 5 kw to LS, unltd. Network: CBS. Aerial: vertical, 220 ft. Manager: A. J. Mosby. Licensee: Mosby's, Inc., 240 N. Higgins Ave. KGW, Portland, Ore., 620 kcs., 1000 w. nights, 5 kw to LS. unltd. Networks: NBC Red and Northwest Triangle. Transmitter: North Portland. Aerial: vertical, 625 ft. Manager: W.
- KGY,
- Carey Jennings. Licensee: Oregonian Publishing Co., 325 Adler St. Olympia, Wsh., 1210 kcs., 100 w. itd. Network: Mutual Aerial: 2 towers, 75 ft. Manager: W. R. Taft. Licensee: KGY, Inc., 11th and Capitol Way. HILO, Hawaii, 1400 kcs., 250 w. unltd. Networks: CBS and MBS. Transmitter: 1283 Kalanianaole St. Aerial: vertical, 179 ft. Manager: Webley Edwards. Licensee: Honolulu Broadcasting Co., Ltd., Box 595. KHBC,
- KHBG, Okmulgee, Okla., 1210 kcs., 100 w. to LS. Aerial: vertical, 204 ft. Manager: Thomas R. Putnam. Licensee: Okmulgee Broadcasting Corp., Parkinson Hotel.
- Los Angeles, Calif., 900 kcs., 1000 w. nights, 5 kw to LS, unltd. Network: MBS. Transmitter: 1076 W. Seventh St. Aerial: 2 towers, 125 ft. Manager: Lewis Allen Weiss. Licensee: KHJ,
- Don Lee Brdcstg. System, 7th and Bixel Sts.

  Spokane, Wash., 590 kcs., 1 kw nights, 5 kw to LS, unltd. Network: NBC Red and Northwest Triangle. Aerial: vertical, 803 ft. Manager: Harvey Wixson. Licensee: Louis Wasmer, KHO. Inc., Sprague and Post.
- Chico, Calif., 1260 kcs., 250 w. unltd. Trans: Hooker, Oak, and Madrone Ave. Aerial: vertical 270 ft. Manager: Harold Smithson. Licensee: Golden Empire Brdcstg. Co. KHSL,
- KHUB,
- Watsonville, Calif., 1310 kcs., 250 w. to LS. Aerial: vertical, 185 ft. Manager: John H. Bennett. Licensee: John P. Scripps. Clovis, N. Mex., 1370 kcs., 100 w. Specified Hours, Shares with KGFL. Aerial: vertical, 179 ft. Manager: Chas. C. Alsup. Licensee: Western Broadcasters, Inc., 412 Pile St. (P. O. KICA,
- Box 111). KID, Idaho Falls, Idaho, 1320 kcs., 500 w. nights, 1 kw to LS, unltd. Aerial: vertical, 330 ft. Permit: for 5 kw to LS. Manager: Jack W. Duckworth. Licensee: KID Brdcstg. Co., B. W. & M. Bldg. (P. O. Box 487).
- KIDO, Boise, Idaho, 1350 kcs., 1 kw nights, 2500 w. to LS, unltd. Network: NBC. Trans: 4½ miles west of Boise. Aerial: vertical, 235 ft. Permit: for 5 kw to LS. Manager: C. G.
- KIDW,
- miles west of Boise. Aerial: vertical, 235 ft. Permit: for 5 kw to LS. Manager: C. G. Phillips. Licensee: Boise Brdcstg. Station, Hotel Boise.

  Lamar, Colo., 1420 kcs., 100 w., Specified Hours, Shares with KGIW. Aerial: 2 towers, 60 ft. Manager: Sherrill Ellsworth. Licensee: Southwest Brdcstg. Co., 129 W. Elm St. Eureka, Calif., 1450 kcs., 500 w. night, 1 kw to LS, unltd. Network: MBS. Trans: Humboldt Bay. Aerial: vertical, 168 ft. Manager: Wm. B. Smullin. Licensee: Redwood Brdcstg. Co., Inc., Vance Hotel.

  Glendale, Calif., 850 kcs., 250 w. to LS. Aerial: 2 towers, 137 ft. Owner: David H. Cannon. Licensee: Cannon System, Ltd., 701 E. Broadway.

  Juneau, Alaska, 1310 kcs., 100 w. unltd. Trans: A-J Rock Dump. Aerial: vertical, 145 ft. Permits: 1430 kcs, 250 w. unltd. Manager: C. B. Arnold. Licensee: Edwin A. Kraft, Goldstein Bldg. KIEM,
- KIEV.
- KINY. stein Bldg.
- KIRO, Seattle, Wash., 710 kcs., 1000 w. unltd. (This power and frequency under Special Authorization-assigned 650 kcs., 250 w. ltd.). Network: CBS. Aerial: 2 towers, 120 ft. Manager: H. J. Quilliam. Licensee: Queen City Brdcstg. Co., 66 Cobb Bldg.
- Yakima, Wash., 1250 kcs., 250 w. nights, 500 w. to LS, unltd. Network: MBS. Aerial: vertical, 195 ft. Permit: for 500 w. nights, 1 kw to LS. Manager: James A. Murphy. Licensee: Carl E. Haymond, 109½ E. Yakima Ave. KIT,
- KITE, Kansas City, Mo., 1530 kcs., 1 kw. unltd. Trans: 86 Terrace and Summit. Aerial: vertical, 142 ft. and 3 reflectors, 120 ft. Manager: Sidney Q. Noel. Licensee: First National Television, Inc., 106 W. 14th St., Power & Light Bldg.
- Garden City, Kans., 1210 kcs., 100 w. unltd. Trans: Warren Terrace, Garden City. Aerial: 2 towers, 100 ft. Manager: F. D. Conard. Licensee: Garden City Brdcstg. Co., 440 N. Main KIUL,
- KIUN, Pecos, Texas, 1420 kcs., 100 w. unltd. Aerial: vertical, 164 ft. Manager: Jack Hawkins. Licensee: Jack W. Hawkins and B. H. Tubbs, KIUN Bldg.
   KIUP, Durango, Colo., 1370 kcs., 100 w. unltd. Aerial: vertical, 180 ft. Manager: Ray M. Beckner.
- Licensee: San Juan Brdcstg. Co., 2800 Main St.
- San Francisco, Calif., 1070 kcs., 500 w. Ltd. Network: Northern California. Trans: 1470 Pine St. Aerial: vertical, 250 ft. Manager: Ralph R. Brunton. Licensee: Julius Brunton & KJBS, Sons Co., 1380 Bush St.

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- KJR, Seattle, Wash., 970 kcs., 5 kw. unltd. Network: NBC Blue, Northwest Triangle. Trans: 2600 26th Ave., S. W. Aerial: vertical, 570 ft. Manager: Charles A. Bailie. Licensee: Fishers Blend Station, Inc., Skinner Bldg.
- KLAH, Carlsbad, N. Mex., 1210 kcs., 100 w. nights, 250 w. to LS, untid. Aerial: vertical, 183 ft. Manager: Jack Hawkins. Licensee: Carlsbad Brdcstg. Co., Crawford Hotel.
- KLBM, La Grande, Ore., 1420 kcs., 100 w. nights, 250 w. to LS, unltd. Aerial: vertical, 173 ft. Licensee: Harold M. Finley and Mrs. Eloise Finley.
- KLCN, Blytheville, Ark., 1290 kcs., 100 w. to LS. Licensee: Charles Leo Lintzenich, Main and Division Sts.
- KLO, Ogden, Utah, 1400 kcs., 500 w. unltd. Network: NBC Blue. Trans: Riverdale. Aerial: vertical, 144 ft. Manager: Paul R. Heitmeyer. Licensee: Interstate Brdcstg. Corp., Hotel Ben Lomond.
- KLPM, Minot, N. Dak., 1240 kcs., 250 w. Shared with KGCU. Aerial: vertical, 180 ft. Permit: 1360 kcs., 500 w. night, 1 kw to LS, unltd. Manager: Richard J. Schmidt. Licensee: John P. Cooley, Fair Block (P. O. Box 707).
- KLRA, Little Rock, Ark., 1390 kcs., 1000 w. nights, 5 kw. to LS, Unltd. Network: CBS. Trans: N. Little Rock, P. O. Box 550. Aerial: vertical, 300 ft. Manager: S. C. Vinsonhaler. Licensee: Arkansas Brdcstg. Co., Gazette Bldg.
- KLS, Oakland, Calif., 1280 kcs., 250 w. unltd. Aerial: vertical, 179 ft. Manager: S. W. Warner. Licensee: Warner Brothers, 327-21st St.
- KLUF, Galveston, Texas, 1370 kcs., 100 w. unltd. Network: MBS. Aerial: 2 towers, 190 ft. Manager: Lawrence D. Yates. Licensee: KLUF Brdcstg. Co., Inc., 1225-23rd St.
- KLX, Oakland, Calif., 880 kcs., 1000 w. unltd. Manager: P. D. Allen. Licensee: Tribune Bldg. Co., Tribune Tower.
- KLZ, Denver, Colo., 560 kcs., 1000 w. nights, 5 kw days, unltd. Network: CBS. Trans: Englewood. Aerial: vertical, 444 ft. Manager: F. W. Meyer. Licensee: KLZ Brdcstg. Co., Shirley-Savoy Hotel.
- KMAC, San Antonio, Texas, 1370 kcs., '100 w. nights, 250 w. to LS. Shares KONO. Trans: 315 Avenue "A". Aerial: vertical, 184 ft. Manager: Howard W. Davis. Licensee: W. W. Mc-Allister, Smith-Young Tower.
- KMBC, Kansas City, Mo., 950 kcs., 1000 w. nights, 5 kw to LS, unltd. Network: CBS. Trans: Kansas City, Kans. Aerial: vertical, 274 ft. Manager: Arthur B. Church. Licensee: Midland Brdcstg. Co., Pickwick Hotel.
- KMED, Medford, Ore. 1410 kcs., 250 w. unltd. Network: NBC. Trans: Ross Lane R.F.D. Aerial: vertical, 179 ft. Licensee: Mrs. W. J. Virgin, Sparta Bldg.
- KMJ, Fresno, Calif., 580 kcs., 1000 w. unltd. Special Authorization for facsimile from midnight until 6 am, PST. Network: NBC. Aerial: vertical, 203 ft. Manager: Keith Collins. Licensee: McClatchey Brdcstg. Co., Van Ness & Calaveras.
- KMLB, Monroe, La., 1200 kcs., 100 w. nights, 250 w. to LS, unltd. Aerial: vertical, 246 ft. Manager: J. C. Liner, Sr. Licensee: Liner's Brdcstg. Station, Inc., Frances Hotel.
- KMMJ, Clay Center, Nebr., 740 kcs., 1000 w. to LS, ltd. Aerial: 2 towers, 150 ft. Manager: Randall Ryan. Licensee: KMMJ, Inc.
- KMO, Tacoma, Wash., 1330 kcs., 1 kw. unltd. Network: MBS. Aérial: vertical, 200 ft. Manager: Carl E. Haymond. Licensee: KMO, Inc., 914½ Broadway.
- KMOX, St. Louis, Mo., 1090 kcs., 50 kw. unltd. Network: CBS. Aerial: 2 towers, 300 ft. Manager: Merle S. Jones. Licensee: Columbia Brdcstg. System, Mart Bldg.
- KMPC, Beverly Hills, Calif., 710 kcs., 500 w. Ltd. Aerial: 2 towers, 130 ft. Manager: Leo B. Tyson. Licensee: KMPC The Station of the Stars, Inc., 9631 Wilshire.
- KMTR, Los Angeles, Calif., 570 kcs., 1 kw. unltd. Aerial: 2 towers, 253 ft. Licensee: KMTR Radio Corp., 1000 Cahuenga Blvd.
- KNEL, Brady, Texas, 1500 kcs., 250 w. to LS. Aerial: vertical, 164 ft. Licensee: G. L. Burns, Box 1077.
- KNET, Palestine, Texas, 1420 kcs., 100 w. to LS. Aerial. vertical, 175 ft. Owner: Bonner Frizzell. Licensee: Palestine Brdcstg. Association, Box 467.

KNOW, Austin, Texas, 1500 kcs., 100 w. unltd. Aerial: vertical, 135 ft. Network: Columbia, Mutual. Manager: James W. Pate. Licensee: KUT Broadcasting Co., Norwood Bldg.

KNX, Los Angeles (Hollywood) Calif., 1050 kcs., 50000 w. unltd. Network: CBS. Aerial: vertical, 465 ft. Transmitter: Sherman Oaks. Manager: Donald W. Thornburgh. Licensee: Columbia Broadcasting System, Inc., 5939 Sunset Blvd.

KOA, Denver, Colo., 830 kcs., 50000 w. unltd. Network: NBC Red. Trans: Colfax Ave. Aerial: vertical, 470 ft. Manager: Robert H. Owen. Licensee: National Broadcasting Co., Inc., NBC Bldg.

#### STATEMENT OF THE OWNERSHIP, MANAGE-MENT, CIRCULATION, ETC.

Required by the Acts of Congress of Aug. 24, 1912, and March 3, 1933.

Of Radio Index, published monthly except July and August, at Teaneck, New Jersey for Oct. 1, 1938. State of New Jersey, County of Bergen, ss.:

Before me, a Notary Public in and for the State and county aforesaid, personally appeared Page Taylor, who, having been duly sworn according to law, deposes and says that he is the Business Manager of the RADIO INDEX, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, to wit:

- That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, The Radex Publishing Co., 289 Queen Anne Road, Teaneck, N. J., Editor, Page Taylor, 289 Queen Anne Road, Teaneck, N. J.; Managing Editor, None; Business Manager, Page Taylor, 289 Queen Anne Road, Teaneck, N. J.
- 2. That the owner is: The Radex Publishing Co., 289 Queen Anne Road, Teaneca, N. J. The following are the names and addresses of stockholders holding l per cent or more of the capital stock of The Radex Publishing Co.; L. A. Byrne, 137 E. 38th St., N. Y., N. Y. and L. A. Byrne, 137 E. 38th St., N. Y., N. Y. as trustee for E. H. Carswell, Hospital Pl., Hackensack, N. J., A. F. Wiese, 91 Griggs Ave., Teaneck, N. J. and W. C. Auer, 148 Copley Ave., Teaneck, N. J.
- 3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: None.
- 4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

Page Taylor, Business Manager.
Sworn to and subscribed before me this 26th day of September, 1938.
(Seal.) William Butterworth.

William Butterworth.
(My commission expires Sept. 7, 1942.)

#### **New Zealand Stations**

The National Commercial Broadcasting Service's station 2ZB is now conducting tests on 6960 and 3480 kcs. irregularly, but it can generally be heard between midnight and 7:30 am EST. A power of 200 watts is used, and they verify readily.

The Commercial Service has opened a new station at Palmerston North with the call sign 2ZA, on 1400 kcs. with 250 watts.

#### DIALING

(Continued from page 14)

Early reports seem to confirm the predictions of a banner season and who knows but what the watchful DXer will stumble across a morning comparable to that memorable October day five years ago, when there was a veritable invasion of Eastern states by the Japanes and Chinese broadcasters.

## TURNER DIAL

(Continued from page 9)

for 6 ohms or one-half of the new speaker and its wire. All right. Solder 'em up to those taps!" concluded Turner.

Turner walked toward the front of the store. "All soldered!" shouted Bill Wood.

"Turn the set on," replied Turner. In a few seconds the new speaker was giving forth perfect music. Turner was elated. "Sounds fine! Come and listen," he called.

Wood hurried up front. "Sounds good as ever back there at the set," he said.

Turner walked back. The tone of the original speaker was the same as always. He turned the set off. "That's all," he called to Bill. "Take off this long wire, and tomorrow morning we'll make the installation out at Mr. West's."

"But what about that baffle business?" inquired Bill Wood. "We'll have to do something about that before we go."

Turner grinned. "Mr. West will be so pleased that I think I'll sell him a nice wall baffle. It hangs up out of the way but inclines downward so as to throw the sound over the room. They cost only a few dollars." Stanley B. LaRue, president of the Before Breakfast DX Club, announced the winners of the BBDXC SWL card contest, in a recent letter to RADEX. The winners were Theodore Domby, St. Louis, Mo., Anthony C. Tarr, Seattle, Wash., and J. P. Barnes, Faversham, England. The winner took first place with SWL cards from thirty-five different countries.

As we go to press, we learn that the FCC has authorized the Vancouver Radio Corporation to construct a new station at Vancouver, Wash., to operate on 880 kcs., with 250 watts, day-time only.

Walter H. Koester of the Return Postage Bureau, 85 Francisco Ave., Rutherford, N. J., informs us that two countries have been added to the list which was published in the November RADEX. Unused stamps to be used when writing to foreign stations are now available from The Netherlands (at 7c each) and from Grenada (at 5c each), in addition to the countries shown in last month's list.

## QUICK INDEX TO STATION DATA

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| City and State   |

# The DX Calendar

STATIONS

| ESI                   | SIATIONS   | P31                      |
|-----------------------|--|--------------------------|
| Dec. 4, 6, 3-4 am     | HJ7ABD, 9630 kcs.,<br>Bucaramanga, Colombia (IDA)  | Dec. 4, 6, midnt1 am     |
| Dec. 9, 1:30-2 am     | WJAG, 1060 kcs.,<br>Norfolk, Nebr.   | Dec. 8, 10:30-11 pm      |
| Dec. 9 and 10, 2-4 am | TIXD, 800 kcs. TIRH, 950 kcs. TI2XD, 11920 kcs., San Jose, Costa Rica (IDA and Joe Lippincott) | Dec. 8 and 9, 11 pm-1 am |
| Dec. 18, 1-2 am       | EAJ7, 1095 kcs.,<br>Madrid, Spain (IDA)  | Dec. 17, 10-11 pm        |
| Jan. 8, 1-2 am        | "Radio Strasbourg," 859 kcs.,<br>Strasbourg, France (IDA)                                      | Jan. 7, 10-11 pm         |
| Jan. 8, ?             | DJC, 6020 kcs.,<br>Berlin, Germany (IDA)   | Jan. 8, ?                |
| Jan. 13, 1:30-2 am    | WJAG, 1060 kcs.,<br>Norfolk, Nebr.   | Jan. 12, 10:30-11 pm     |
| Jan. 15, 9-10 pm      | OAX4J, 9330 kcs.,<br>Lima, Peru (IDA)  | Jan. 15, 6-7 pm          |
| Jan. 22, 3-4 am       | TG1, 1310 kcs.,<br>Guatamala City, Guat. (IDA)   | Jan. 22, 12:01-1 am      |
| Jan. 22, 2-3 am       | PRF3, 960 kcs.,<br>Sao Paulo, Brazil (NRC-NNRC)  | Jan. 21, 11 pm-midn't.   |
| Mar. 20, 1-2 am       | YSD, 7894 kcs.,<br>San Salvador, E. S. (IDA)   | Mar. 19, 10-11 pm        |

## Special DX Programs

Special programs arranged since the DX Calendar was put into type, have been announced by Bill Stone of Toronto.

Dec. 4, CJCA, Edmonton, Alta., 3-4 am EST (12:01-1 am PST).

Dec. 10, CFGP, Grande Prairie, Alta., 3-4:30 am EST (12:01-1:30 am PST).

Dec. 11, CJCJ, Calgary, Alta., 3:30-4:30 EST (12:30-1:30 am PST).

Dec. 12, CKCH, Hull, P. Q., 3-4 am EST (12:01-1 am PST). CKCH offers prizes, souvenirs and photographs to DXers who report on this program.

Dec. 12, CFAR, Flin Flon, Man., will transmit all morning, commencing at 2 am, EST, or 11 pm the previous night, PST.

Dec. 17, CJBR, Rimouski, P. Q., 4-5 am EST (1-2 am PST).

Dec. 18, CKWX, Vancouver, B. C., 3-4 am EST (12:01-1 am PST).

Jan. 7, 1939, CKBI, Prince Albert,

Sask., 2-3 am EST, or Jan. 6, 11 pm until midnight, PST.

PST

Jan. 15, CHRC, Quebec, P. Q., 2-3 am EST, or Jan. 14, 11 pm until midnight, PST. CHRC will charge a fee of five cents for verifications.

Harry Gordon announces the following special programs for the National Radio Club:

Nov. 27, WRNL, Richmond, Va., 880 kcs., 1-4 am EST (Nov. 26, 10 pm to 1 am, Nov. 27, PST).

Dec. 1, WPA, Portsmouth, Ohio, 1370 kcs., 4-4:30 am EST (1-1:30 am PST).

Dec. 4, CFRN, Edmonton, Alta., 960 kcs., 3:30-4:30 am EST (12:30-1:30 am PST).

Jan. 7, 1939, CFJC, Kamloops, B. C., 880 kcs., 3-4 am EST (12:01-1 am PST).

Jan. 22, 1939, PRF3, Sao Paulo, Brazil, 960 kcs., 2-3 am EST (Jan. 21, 11 pm to midnight, PST).

J. E. SMITH, President National Radio Institute Established 1914

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my own Radio
business which
shows thire,
hundred dollars a month



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Radio broadcasting stations employ engineers, operators, station managers and pay up to \$5,000 a year. Fixing Radio sets in spare time pays many \$200 to \$500 a year—full time lobs with Radio obbers, manufacturers and dealers as much as \$30, \$50, \$75 a week. Many Radio Experts open full or part time Radio sales and repair businesses. Radio manufacturers and jobbers employ testers, insucctors, foremen, engineers, servicemen, and pay up to \$6,000 a year. Automobile, police, aviation, commercial Radio, loud speaker systems are newer fields offering good opportunities now and for the fitture. Television promises to open many good jobs soon. Men I trained have good jobs in these branches of Radio, Read how they got their jobs. Mail Coupon.

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I. E. SMITH, President

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