

# RADIO INDEX

The All-Wave Radio Log Authority

No. 138

JULY - AUGUST, 1940

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Also Complete Lists of the North American Broadcasting Stations, Arranged by Frequencies, by Locations and by Call Letters.

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# RAD<sup>IO</sup> IN DEX

Reg. U. S. Patent Office



SIXTEENTH YEAR

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## HIGH FREQUENCY GLOBE TROTTING

By Ray La Rocque

### Report-o-Meter

G. R. Jewell, Jr. ....	100%
M. F. Williams .....	50%
Edward Laudansky .....	35%
Anton Jansen .....	34%
John D. Long .....	30%

Familiar to top spot on the meter is the name of G. R. Jewell, Jr., of San Diego, California, so we can hardly acclaim as unusual his accomplishments this month. M. F. Williams is by no means a newcomer to the meter, and both Anton Jansen, and John D. Long held spots in the select five last month. The name of Edward Laudansky is a new one for our meter, but we hope it will appear often in the future.

Honorable mention this month is awarded to a few who came close, namely; J. A. Brooks, Hylton Brown,

Jack Stephenson, and Charles Meyers. To these and the others who reported, we say try again and better luck next time.

### ASK US ANOTHER

Let's start off with an answer. For Ernest R. Forrest of Oklahoma City: "The Chinese station you heard on 9630 kcs. is XGOY at Chungking and is on 9650 kcs., exactly. The address is Central Broadcasting System at Chungking, China." This from G. R. Jewell, Jr., P. O. Box 386, San Diego, Calif., who asks a question also. The question is regarding a station on 15190 kcs. heard at 8:20 a.m. giving the call and frequency of another station on which the next transmission would be heard as station NR-1 on 9660 kcs. "Can anyone give me the call and location of the 15190 kcs. station?" is the query of Radexer Jewell.

Jack Stephenson, (R1470), Okla-

homa City, Okla. would like information on how to get a veri out of TIEP! . . . A mystery station for H. W. Hartley (R1535), is the one heard from 11:30 a.m. to noon on 11950 kcs. . . The address and call letters of "Radio Continental" on 4795 kcs. in Caracas is desired by Edward Laundansky, 1 Mather St., Dorchester, Mass. And another question from Ed concerns a Uruguyan station heard on 17900 kcs. at 5:30 p.m. "Oall was announced, but all I got was the location—Montevideo," says Radexer Laundansky. (There is a "Radio Contiente," YV5RY, in Caracas on 4750 kcs.—RL)

Charles A. Mills (R1667), Box 326, Strathrog, Ontario comes through with the following for Henry Bennett: "WMI verified my report which was mailed to WMI, Lorain County Radio Corp, Lorain, Ohio. The veri was a typed postcard and was received in si days." Then from Henry Bennett, himself we have more questions. One concerns the station on 6300 kcs. announcing as "London," another concerns WNRO at Swainsboro, Georgia on 2800 kcs. Regarding the latter, Radexer Bennett wants to know the address and type of station. Another and his last query is about the call letters of the police station at Norristown, Penna. "Call is listed in various places as WMCN and WCMC. Which is right?" Address any replies to Henry Bennett (R1342), 644 Atlantic Ave., Collingswood, N. J.

A station announcing as PKDE has been heard broadcasting pro-Nazi news in English by C. R. Bendes, 239 Cairo St., Pittsburgh, Penna. Still from Radexer Bendes' letter we quote, "This Sunday morning, I heard a station broadcastign church services just below GSV. They signed at 9:15 a.m. with a chime. Can anyone identify it?" . . . Donald Graydon, 67 Fermaugh Ave., Tor-

## FIRE DESTROYS OUR PRINTER'S PLANT

The building and equipment of The Kimball Press were totally destroyed by fire just as this issue of RADEX was ready to go to press.

The loss was entirely covered by insurance and the plant will be rebuilt immediately. To produce this issue, however, it was necessary to rent temporary quarters in Paterson. A smaller press than the cylinder press formerly used, required RADEX to be printed on smaller forms.

It is expected that this issue will be about two weeks late, for which we ask our readers' kind indulgence.

onto, Ontario replies to Warren Reichardt: "The Australian station on 9640 kcs. is VLQ-5 in Sydney."

Typical of many letters is the question of Niel Wald, 21 E. 87th St., New York, N. Y. He wants to know how to transpose the megacycle readings on his dials to kilocycles. A megacycle is 1000 kilocycles, hence, 19.5 megacycles is written in kilocycles thusly—19500 kcs.

"I would like to know if PSH verifies. A friend and myself have had report out since July 1939 to them. EAQ promised to send one of their new cards when ready. That was back in December, 1939—I have not heard from them since. Has anyone else?" The preceding is from Hylton R. Brown, Jr. (R989), Silver Spring, Md. . . . An oriental station heard on 15190 kcs. in close proximity to DJB is bothering Charles Meyers, 3643 W. Flourncy St., Chicago, Ill., who wants to know if it could be ZBW-4 heard at 6:30 a.m. Still another question from Radexer Meyers, "Can anyone identify a French speakingn station heard at 12:45 a.m. on 11408 kcs."

### QUOTE AND UNQUOTE

C. R. Bendes, 239 Cairo St., Pittsburgh, Penna: "My HP5A card was sent my mistake to Jack Fern, who forwarded it to me promptly. I would like to thank Jack publicly for this."

**William Mc. Mahon, 6 Central Ave., Glen Cove, N. Y.:** "Only for the past six months have I been getting Radio Index regularly and I think it is the best of any magazine, in that it is so strongly devoted to the listener instead of just to the amateur or radio builder. I listen to medium and shortwaves almost exclusively, occasionally trying some DX on the long wave band. I have been a shortwave and DX fan for about six years. My introduction to shortwaves came when my brother bought a new radio with a shortwave band on it."

**J. B. Coursey, Cape Fear Railways, Inc., Fort Bragg, N. C.:** "I would like to know if any of your readers have been able to pick up the transmissions of Radio Club Mozambique on 30.88 meters, and on 19.62 meters. I have been a reader of RADEX for the past year or so, and have enjoyed unusually good reception with verifications from Australia, Japan, Sweden, etc."

**Albert C. Smith, Mitchell, South Dakota:** "I have bought my first copy of RADEX and I am writing to find out a few things that have puzzled me since I have read it. I have always DX'ed on the bands from 16-50 meters for foreign reception and thought that was called DX. According to a lot of reports that are listed in the magazine, DX also includes the broadcast band. I am a little mixed up now, not knowing whether I was wrongly calling my hobby DXing or not!!! ("DXing covers the entire hobby of the search for distant stations regardless of any band or of any band or of any different approach to the hobby—it is still DXing—RL)

**M. F. Williams, 119 S. 8th Street, Newark, N. J.:** "In addition to the information given in RADEX last month regarding the American QSL Bureau, I'd like to inform RADEX readers that the we, the XYL and myself, keep an accurate file of all cards received and forwarded as well

as QTH of the sender. Each addressee has a reference number. In order that we might locate his card quickly and enter all information we request that they place that they place that reference number in the upper left-hand corner of their card. Radex Club members can use their club indicia as a reference number—we can use these as easily as any other reference number and it will enable us to determine how many addressees learned of the bureau through RADEX."

#### **NOT SO SHORT WAVES**

LS-8, Naval station on 3415 kcs. heard talking to GP-9 and Tank No. 2.

W10XLG on 4423 kcs., "Horace E. Horton" heard in contact with W9XTD on 4283 kcs.

WNXI on 2174 kcs., the "Silverland" heard from the Pacific coast. (Roman—III.)

#### **ULTRA HIGH**

YDA, the Netherland Indies Radio, shortwave station, on ten meters was heard here last winter on a two-tube outfit, creating some kind of a record. (Wood-Minn.)

W4XA on 26150 kcs. Nashville, Tenn. was heard at 6:30 p.m. with dinner music. The signal was QSA-5, R-8, (Kastner—Texas)

W8XNU on 25950 kcs. in Cincinnati, Ohio was heard at 7:15 p.m. with a QSA-5, R-7 signal. (Kastner—Texas)

W9RPD on 25900 kcs. in St. Louis, Mo. was heard at 5:38 p.m. with an R8 signal. (Kastner—Texas)

Calls of 7-meter police stations heard here are: WPDS, WQLO, WALG, WQJS, WQHO, KQDH, WPDW. Locations are not known. (Kastner—Texas)

#### **Green Light For "FM"**

Giving "FM" or Frequency Modulation the go-ahead signal and assigning to it many new channels, the FCC acclaimed this new type of broadcasting as "one of the most significant contributions to radio in recent years." The strip from 42000-

50000 kcs., divided into channels of 200 kilocycles in width has been allotted to "FM". This band is then sub-divided, the first few channels from 42100-42900 kcs. are for non-commercial educational stations, and the remainder of the channels are for experimental and regular "FM" broadcast stations. The educational stations now operating in that band with the old style amplitude modulation will not be required to change to "FM", but no new licenses will be granted for amplitude modulation on these channels.

There are a number of "FM" stations now operating and still a larger number of applicants for new stations. The new applications will be dismissed, after which the applicant will be allowed to re-submit his application in accordance with the new rules—which will be forthcoming. The stations presently operating on these bands will be given until January 1, 1941 to terminate activities. Upon termination of their present licenses (experimental), they will be allowed to apply for regular broadcast licenses under the new ruling.

Stations in operation or with construction permits for "FM" are: 42698 kcs.

W1XK Hull, Mass. (1000 w.)

W1XSN E. Springfield, Mass. (1000 w.)

W2XWG New York, N. Y. (1000 w.)

W3XMC Washington, D. C. (1000 w.)

W8XAD Rochester, N. Y. (1000 w.)

W9XAO Milwaukee, Wis. (1000 w.)

42800 kcs.

W2XMN Alpine, N. J. (40000 w.)

W9XEN Chicago, Ill. (1000 w.)

43000 kcs.

W1XOJ Paxton, Mass. (50000 w.)

W8XVH Columbus, Ohio (250 w.)

W9XYH Superior, Wis. 1000 w.)

43200 kcs.

W1XSO Avon, Conn. (1000)

W2XDA Schenectady, N. Y. (50

w.)

W2XOY Albany, N. Y. (150 w.)

W2XQR New York, N. Y. (1000

w.)

W8XFM Cincinnati, Ohio (1000

w.)

43400 kcs.

W1XPM Meriden, Conn. (1000 w.)

W1XTG Holden, Mass. (1000 w.)

W2XOR Newark, N. J. (1000 w.)

W3XO Georgetown, D. C. (1000 w.)

The new "FM" Channels will not be the same as those shown above. All new "FM" station licenses granted will be not for channels beginning with 43100 kcs., and then to 43000 kcs. and so on every 200 kcs. up to 49900 kcs.

Perhaps a little explanation regarding "FM" itself is in order. The basic difference between amplitude modulation (as used for present Broadcasting and frequency modulation is as follows: Modulation is a process of imparting sound or other signal (intelligence) to transmitted radio wave. The radio wave while the amplitude remains constant.

Short bits about FM: An "FM" channel is 200 kcs. wide. . . Only the strongest signal is heard, thus eliminating the possibility of inter-station interference. . . . Atmospheric and man made static vary in amplitude, hence they are not picked up on an FM receiver. . . An FM signal cannot be received distinctly on a regular high frequency broadcast receiver. . . Most FM receivers will come in combinations and will be capable of receiving both types of emissions. . . . The local coverage of an FM station is considerably greater than a regular station as there is little background noise or interference. However, the range of the signal is not as great as on the bcb as the high frequency signals do not travel far. The sky-wave may strike back to earth at some points—this is one phase of "FM" which still has to be determined by experiment. . . . The

day and night coverage of a station will be approximately the same . . . It is claimed that "FM" will merely supplement, but not supplant the present type of broadcasting. . . . An "FM" signal on an "FM" receiver renders true high-fidelity tone—something which has never been achieved on radio sets in the past. . . . Your questions concerning "FM" and its stations are welcomed. We will do our best to answer them. And, DX-ers, there is fertile ground for DX-ing on these bands—so get in on "FM" DX now! Let's have your reports on "FM" stations and by all means let the stations have your reports. Tell them you read about "FM" in RADEX.

#### Australia

Complete list of stations:

VLQ Sydney 9615 kcs. 16000 w.

VLQ2 Sydney 11870 kcs. 16000 w.

VLQ5 Sydney 9680 kcs. 16000 w.

VLR Lyndhurst 9580 kcs. 2000 w.

VLR3 Lyndhurst 11850 kcs. 2000 w.

VLW2 Perth 9650 kcs. 2000 w.

VLW3 ePerth 11830 kcs. 2000 w.

VLW4 Perth 9665 kcs. 2000 w.

VLQ on 9615 kcs. at Sydney was heard with terrific signal (Calif.) at 2 a.m., at which time they came on the air in French, Spanish' and English. (Jewell—Calif., Budden—Quebec, and Meyers—Ill., Long-Ga.)

VLQ-2 on 11870 kcs. at Sydney heard from 2:30-3:30 a.m. (Jewell—Calif.)

VLQ-5 on 9680 kcs. at Sydney heard with R9 signals from 7:30 a.m. to sign off at 8 a.m. News in English at 7:30 a.m. followed by classical music until sign off at 8 a.m. (Jewell—Calif.)

VLR-3 on 11850 kcs. at Melbourne is being heard with heard with R6 signals from 1-3 a.m. Music and war news are heard. (Jewell—Calif.)

VLW-4 on 9665 kcs. is heard every morning until 10 a.m. when signal fades. (Jewell—Calif.)

VLW-3 on 11830 kcs. at Perth is being with R6-7 signals relaying BBC war news at 3 a.m. After the



The QSL card from OQ5AB in Elizabethville, in the Belgian Congo. It is printed in dark brown on a light tan card. (Courtesy of Myron Unger, Detroit, Mich.)

news, American dance tunes are played, which provides easy veri data. Several time signals are given during this program. (Jewell—Calif.)

#### Angola

CR6RB on 10950 kcs., "Radio Club of Benguela is on daily from 2:30-4p .m. and Sundays from Noon to 1:30 p.m. (Butcher—La.)

CR6RC on 11740 kcs. "Radio Club Angola," may be addressed Caixa Postal 229, Luanda, Anogla. (Butcher—La.)

#### Argentina

LRA-1 on 9688 kcs. in Buenos Aires is on the air daily from 11 a.m. to 2 p.m., 3:30-4:30 p.m. and 5-10 p.m. (M. F. Williams—N. J., and Jewell—Calif.)

LRX on 9660 kcs. is heard with R8 signals nightly with dance music from 6-11 p.m. (Jewell—Calif.)

LSX on 10350 kcs. heard irregularly in the evening here with good signals. Verification is a white card with large red call letters. Power stated on veri is 20 kw. (Brown—Md.)

#### Bahama Islands

ZNS on 6090 kcs. usually signs off at 10:20 p.m. on Sundays. Veri is a printed letter-folder. (Laudowsky—Mass.)

**Brazil**

PRF-5 on 11885 kcs. in Rio de Janeiro is being heard between 5:55 and 7 p.m. (Williams—N. J.)

PSH on 10220 kcs. heard with strong signals on Monday from 8-8:30 p.m. (Jewell—Calif., Laudansky—Mass.)

**Canada**

CFCX on 6005 kcs. at Montreal heard, but badly QRM'd by HP5K on Sunday at 10 p.m. (Laudansky—Mass.)

CJRX on 11720 kcs. heard at 8 p.m. and again from 1-1:30 a.m. with dance music. (Scholz—Mo., Jewell—Calif., and Boscawen—Calif.)

**Canary Islands**

Letter from EA-1PEP "Comandancia Militar de Las Palmas" says that their regular transmissions have been suspended but on the 1st and 15th of each month they still have a regular transmission. No time is mentioned but it is supposed they are on till 1 p.m. (Jansen—Netherlands)

**Chile**

CB-970 on 9710 kcs. at Valparaiso heard announcing as "Radio Telegraphica." Very strong signals early in evening. (Laudansky—Mass.)

**China**

XGOY on 9650 kcs. at Chungking is one of the best early morning catches. The XGOY station on 9650 kcs. has all English programs. Announcements are made by both man and lady and reports and comments are requested to be sent to the "Voice of China", Chungking, China. XGOY is heard with very good signal from 8:30-9:30 a.m., but sign off time is very irregular. (Jewell—Calif.)

XGOY on 11900 kcs. at Chungking is heard signing on about ten minutes after the 9650 station signs off every morning. (Jewell—Calif., and Meyers—Ill.)

XMHA on 11900 kcs. at Shanghai was heard at 1:30 a.m. with R8 signal. Also heard again from 11-11:15 a.m. with Chinese Dance Music. (Jewell—Calif.)

XPSA on 7010 kcs. at Kweiyang heard at 9 a.m. with news in English and R8 signals from 8:30-9:30 a.m., at which time the signal fades. Native and American music are heard, as well as news. Announcements are by male and female announcers and a series of chimes after station announcement in several languages is used as identification. (Jewell—Calif.)

XTC on 9295 kcs. at Shanghai, was heard with R5 signal on April 25 with program of Chinese music. (Jewell—Calif.)

ZBW-3 on 9525 kcs. at Hong Kong is being heard with R7-8 signals from 8:30 a.m. Female announcers are used. (QRM is very bad shortly after 8:30. (Jewell—Calif.)

**Colombia**

HJCO on 4945 kcs. in Bogota is heard between 7-8 a.m. Slogan is "Emisora Sud-America." (Williams—N. J.)

HJCX on 6122 kcs. (official freq. 6018 kcs.) in Bogota is now putting in R6 signal from 6-11 p.m. (Jewell—Calif.)

HJHE on a new frequency of 4775 kcs. now. Station is in Buenaventura. (Williams—N. J.)

**Costa Rica**

TIEM on 10050 kcs. at San Jose was heard with popular recordings on Sunday from 9:45 p.m. (Laudansky—Mass.)

TIPG on 9615 kcs. is heard with strong signals from 8-010:30 p.m. nightly. English program, "The Hour of Costa Rica" is heard on Wednesday and Sturdy's--oonsF9nuu amrf day and Saturday from 9:30-10 p.m. (Jewell—Calif., Laudansky—Mass.)

COBZ on 9030 kcs. verifies with

**Cuba**

a photographic card showing views of their studios. (Brown—Md.)

COCN on 8437 kcs. in Havana was reported under construction some time ago by R552. It was heard with good signals April 28 relaying broadcast station CMLB. Address is unknown. Identification



signal was three strokes of a gong. Sign off came at 11 p.m. (Stephenson—Okla.)

COGF on 11800 kcs. and located in Matanzas heard with a "Pan American Hour" between 4-5 p.m. with English program. (Williams—N. J.)

COK on 11570 kcs. at Havana started broadcasting as COCSD, but later changed call to COK. They are apparently campaigning for Batista for the presidency as they announce "COK-OK Batista." Schedule s from 7:30-11:30 p.m. Address reports to P. O. Box 625. A number of picture views of Cuba are promised to those reporting reception correctly (Jenkins — Ill., Johns — Ill., Jewell—Calif., Stephenson — Okla., Brown—Md., Long—Ga., Williams—N. J., and Boscawen—Calif.)

COX-7 on 6450 kcs. verified with letter signed by Lt. Enrique S. Morales. (Address is COX-7, Ciudad Militar, Havana, Cuba.)

COCH on 9437 kcs. relays COHI on 6450 kcs. COCY on 9230 kcs. relays CMBX on 1180 kcs. and sometimes CMCY on 590 kcs. (Carriazo—Cuba)

#### Dominican Republic

HIT at Trujillo heard signing off at 8:30 p.m. with National Anthem. (Laudansky—Mass.)

HI-1N on 6243 kcs. at Trujillo broadcasts from Noon to 2 p.m. and from 7:30-9:30 p.m. with 750 watts power. (Laudansky—Mass.)

HI-1S on 6420 kcs. signs off at 8:30 p.m. with "Indian Love Call" and National Anthem. They have a program to North America at 7:30 p.m. at which time reports are read.

#### Ecuador

HCJB on 12460 kcs. at Quito is being heard nightly from 9-10 p.m. except Monday. This program is known as the "Goodwill Hour." Also from 6-7 p.m. nightly is heard "Ecuadorian Echoes". All reports will be verified. Working in parallel with this channel are HCJB's other stations on 970 kcs. and 4107 kcs.

(Woollacott—N. Y., Bendes — Pa., Boscawen—Calif., Brown—Md., Long—Ga., Williams—N. J., Laudansky—Mass., and Jewell—Calif.)

#### Egypt

The station on approximately 38 meters about which I wrote you in one of my former reports apparently is Cairo. The station is announced as "Hoonaa Kashira." "Hoonaa" apparently means "here" in Arabic and "Kashira" is the arabic name for "Cairo." (Jansen—Netherlands)

#### Fiji Islands

VPD-2 on 9535 kcs. in Suva is being heard between 3-4 a.m. (Williams—N. J.)

#### France

Latest schedule of broadcast to North and Central America from "Paris Mondial:

7:45-8:15 a.m. on TPC-5 on 15240 kcs.

11:30 a.m. to 12:30 p.m. on TPB-8 (11845 kcs.) and TPC-5 (15240 kcs.)

8:00 p.m. to midnight on TPA-4 (11720 kcs.), TPB-8 (11845 kcs.) and TPC-13 (9520 kcs.)

For the Pacific Coast of North America: 1-2 a.m. on TPC-14 (9520 kcs.)

A French shortwave station has been heard around 33 or 34 meters relaying the programs of "Radiodiffusion Nationale" at various times of the day. (Jansen—Netherlands)

"Radio Beaux-Arts" is a somewhat mysterious station heard in the 80 meter band on a Saturday at 3 p.m. after musical chimes had been heard. A lady announces "Radio Beaux-Arts without giving any location. Much classical music was heard and the station said the station's aim was to bring relief in these troubled times. All languages used was French. (Jansen—Netherlands)

"Paris Mondial" is still jumping from one frequency to another with all the gay abandon of the Chinese and Russian stations, as well as constantly changing the times of their news in English. Have heard news in English lately at 8 a.m. on 15243

kcs., and at 11:30 a.m. on 15243 and 11843 kcs. (Brooks—Mich.)

"Paris Mondial" on 9520 kcs. has news in English from 8-8:30 p.m. (Bendes—Pa.)

"Paris Mondial" on 9550 kcs. heard at 9 p.m. carrying news and talks, along with music. (Jewell—Calif.)

"Paris oMndial" on 11885 kcs. was heard at 10 p.m. requesting reports. (Laudansky—Mass.)

#### French Indo China

"Radio Saigon" on 11780 kcs. is being heard with R9 signal (Calif.) from 10-11:06 a.m. News in English is heard, being relayed from "Paris Mondial" at 10:46 a.m. for a ten-minute period. Address is P. O. Box 413. Reports and comments are requested. "La Marseillaise" is heard at sign off. (Jewell—Calif., Meyers—Ill.)

#### French Somaliland

FZE-8 on 17280 kcs. in Djibouti is heard on the 1st Thursday at the month between 8-8:30 a.m. The first 15 minutes of the transmission are on cw, and the last 15 minutes on phone. (Williams—N. J.)

#### Germany

Three illegal stations against the present regime in Germany have been operating on a more or less regular schedule.

"Deutscher Freiheitsender" on 10100 kcs. has been heard on this and other frequencies with anti-Nazi speeches, etc. It is believed to be portable and operating somewhere within Germany. It is usually heard from 4-5 p.m., though this schedule is not always regular. (Jansen—Netherlands, and Brooks—Mich.)

"Freier Deutschlandsender" operates according to their announcements aidly on 33, 58, and 76 meters at 12:30 a.m., Noon, and 1 p.m. Sometimes their 12:30 a.m. transmission is replaced by one at 10 a.m. (Jansen—Netherlands)

"Geheimsender de Deutschen Revolution" is the third of these "under cover" stations. They announce their frequency as 6505 kcs., and 8442 kcs.,

They cannot be heard here on 8442 kcs., and on 6505 kcs. they are so badly distorted that it is difficult to follow the speech. They operate for 25-minute periods from the beginning of each hour from 11 a.m. to 5 p.m. Transmissions begin and end with a German Military March (Jansen—Netherlands)

"Prague," still announced as OLR4A, heard some nights with good signal with a bugle or horn being blown slowly as man announces. Heard from 6:15-8:30 p.m. They sign off with a carillon of beautiful chimes. (Long—Ga.)

Tow new transmitters on 7300 kcs. and 7230 kcs. are heard in the late afternoon and evenings. (Schluback—R. I.)

DXJ on 7240 kcs. is a new Berlin transmitter used along with DJB, DXB, and DJD for news to North America at 8:15 p.m. (Jewell—Calif.)

DXB on 9610 kcs. is heard at 2 a.m. with news in English. (Jewell—Calif.)

Another new German station is heard on 10550 kcs. along with DJD carrying English news at 10-10:30 p.m. (Jewell—Calif., and Boscawen, Calif.)

DXS on 15160 kcs. is heard from 7-9 a.m. and DXT on 15230 kcs. is heard from 8-9 a.m. (Williams—N. J.)

DJQ on 15280 kcs. is heard with a fair signal at midnight broadcasting in parallel with another group of stations. (Fisher—Calif.)

English News Schedule from Germany:

- 6:30 a.m. on DJB or DJL
- 8:15 a.m. on DJB or DJL
- 11:15 a.m. on DJB or DJL
- 1:15 p.m. on DJA (not heard well)
- 4:00 p.m. on DXB
- 4:50 p.m. on DJB (sometimes DJD and DXB also)
- 6:00 p.m. on DJB (sometimes DJD, DXB, or DXJ)
- 8:35 p.m. on DJB (sometimes DJD, DXB, or DXJ)

10:30 p.m. on DJB (sometimes DJD, DXB, or DXJ)

12:00 midnight on DJB along DJD, DXB or DXJ

(Brooks—Mich.)

Mr. Kempton has not discovered a new interval signal for German stations as mentioned in last RADEX. The bell he mentions is rung once for every enemy ship or airplane destroyed during the previous 24-hours. (Brooks—Mich.)

DZB on 10543 kcs. has been heard calling CBS in New York around 6:45 p.m. for war news from Berlin. (Budden—Quebec)

**Great Britain**

GSE on 11860 kcs. is being heard in parallel with GSD and GRX, along with GSC, and GSB from 1-2 a.m. with news in English. (Jewell—Calif.)

GGSV on 17810 kcs. comes on at 9 a.m. on Sundays with news in Spanish until 9:20 at which time an English program follows. (Bendes—Pa.)

GSW on 7230 kcs. has been heard at 7 p.m. (Meyers—Ill.)

**Guatemala**

TKWA on 15170 kcs. is on Sundays from 1:45-5:20 p.m., and Daily from 1:45-2:45 p.m. (Jewell—Calif. Bendes—Pa.)

TGWA on 9685 kcs. is on Daily from 10-11:30 p.m. and Saturdays and Sundays from 7 p.m. to 1 a.m. (Jewell—Calif.)

TGWB and TGWC begin transmissions same time as TGWA, but both remain on the air after TGWA signs off. These stations feature beautiful marimba music such as can be heard only in Guatemala. (Jewell—Calif.)

**Haiti**

HH2S on 5960 kcs. is on evenings with R7 signals. (Laudansky—Mass.)

**Hungary**

HAD-3 on 11850 kcs. broadcasts to South America daily from 5 p.m. to 8 p.m.

HAT-5 on 9625 kcs. broadcasts to

North America daily from 6:35-8 p.m. (Long—Ga.)

**India**

Complete list of shortwave stations:

Delhi has VUD-2 on 9590 kcs. and 4960 kcs., and VUD-3 on 15160 kcs., and 9590 kcs.

Bombay has VUB-2 on 9550 kcs., and 4880 kcs.

Calcutta has VUC-2 on 9530 kcs., and 4840 kcs.

Madras has VUM-2 on 8530 kcs. (changed recently from 11870 kcs.) and 4920 kcs. (Jansen—Netherlands)

VUM-2 on 4920 kcs. has been by far the best of the India stations on the 60 meter band, at times it is the only one which can be heard. (Jansen—Netherlands)

VUC-2 on 4840 kcs. was heard with R5 signal at 8:30 a.m., VUB-2 on 4880 kcs. R7, and VUM-2 on 4920 kcs. R5 at the same time. (Jewell—Calif.)

**Iraq**

Bagdad on 7084 kcs. has been received regularly during the afternoon and early evening, signing off at 2:30 or 3 p.m. At noon news is given in two languages, one of them being Arabic. Last part of program consisted of native music. Just as the report is being made, the Bagdad station has ceased to be heard after having heard regularly for some months. (Jansen—Netherlands)

**Italy**

English news broadcasts from Italian radio stations:

1:35 a.m. on 12RO-3 and 12RO-6

6:15 a.m. on 12RO-6 and 12RO-8

10:45 a.m. on 12RO-4 and 12RO-8

1:28 p.m. on 12RO-3

2:25 p.m. on 12RO-4 and 12RO-6

4:15 p.m. on 12RO-3

6:30 p.m. on 12RO-9.

10:00 p.m. on 12RO-3, 12RO-4, and 12RO-6

(Brooks—Mich.)

IQA on 14795 kcs. was heard with good signal relaying a program to New York. (Brown—Md.)

12RO-3 verified with a card 4x6

inches. E. I. A. R. is at top of card, with 2RD at bottom. (Stephenson—Okla.)

12RO-8 on 17820 kcs. is now carrying the American hour from 6-10 p.m. in place of 12RO-6 on 15300 kcs. 12RO-3 on 9630 kcs., and 12RO-4 on 11810 kcs. will continue to be used on this transmission. (Jewell — Calif., and Brown—Md.)

12RO-11 on 7220 kcs. has been heard irregularly on the "American Hour". (Brown—Md., and Meyers—Ill.)

12RO-13 on 11900 kcs. was picked up at 1 a.m. on one occasion. (Jewell—Calif.)

12RO-14 on 15230 kcs. heard in the morning with announcement in Italian and English. (Meyers—Ill.)

12RO-20 on 17770 kcs. in Rome is scheduled between 9 a.m. and 12:30 p.m. Best heard from 11 a.m. to 12:30 p.m. (Williams—N. J.)

#### Jamaica

ZQI on 4750 kcs. in Kingston is being heard on Fridays between 5:30 and 6:30 p.m. (Williams—N. J.)

#### Japan

JLST on 17845 kcs. in Tokyo is a new station being heard simultaneously with JZK at 8 p.m. Signal reaches R7-8. (Long-Ga.)

JLG-3 on 11705 kcs. is heard in parallel with JZJ and continues after the latter has signed at 12:30, until 2:30 a.m. (Jewell-Calif.)

JLT-2 on 9645 kcs. was heard broadcasting in Japanese from 8:30 a.m. (Jewell-Calif.)

JZJ on 11800 kcs. is being heard in English from 12:30-1:30 a.m. with signals reaching R8. They are even stronger on 9:30 a.m. transmission. (Jewell-Calif.) JZJ verified in 2½ months and sent a questionnaire on reception, enclosing an IRC for my reply. (Fisher-Calif.)

JZJ on 15160 kcs. heard from 12:30-1:30 a.m. on May 7 in parallel with JZJ. National anthem and a series of gongs are used at sign off. Morning program at 8:30 is heard R6-7. (Jewell-Calif., and Boscawen-Calif.)

#### Java

PLP on 11000 kcs. is being heard on this coast well from 9:30-10 a.m. with classical music. It is in parallel with PMN on 10260 and YDC on 15150 kcs. IRC's are necessary for verification. Address: N. I. R. O. M., Batavia, Java, Netherlands, Indies. (Jewell-Calif.)

#### Kenya

VQ7LO on 6083 kcs., located at Nairobi, is heard during the early morning hours. Address all reports to P. O. Box 777. (Williams-N.J.)

#### Manchukuo

MTCY on 11775 kcs. at Hsingking is being heard best here (Calif.) from 1:30-2:20 a.m. with a program directed to Pacific Coast and Hawaii in English. Program is of native music and popular American music. News is in English at 2:00 a.m. with sign off including National Anthem . . . MTCY is also heard in English from 9:30-10:20 a.m. when they ask for reports and comments to be sent to Central Broadcasting System, Hsingking, Manchukuo. Verifications are promised for all correct reports. (Jewell-Calif., Meyers-Ill., and Boscawen-Calif.)

#### Mexico

XEQQ verified my report in 17 days with a typed postal card. The call is typed on the back of card. (Stephenson-Okla.)

XEWX on 9500 kcs. is heard on Sundays from 4:45-5:30 p.m. with popular and Spanish recordings. . . Also heard with strong signals daily from 10 a.m. to 2 p.m. (Laudansky-Mass., Jewell-Calif.)

XXA on 6174 kcs. heard from 7-8 p.m. with R6 signal. English hour from 11:30 p.m. to midnight. (Jewell-Calif.)

#### Mozambique

CR7BG on 15285 kcs. in Lourenço Marques is heard from 7-8 a.m. (Williams-N.J.)

CR7BE in a letter state that they have changed recently to 30.88 meters and would like reports on this new using CR7BG on 19.62 meters from

7-8 a.m., but have not had any reports from the S.A. on this frequency on this schedule. (Coursey-N.C.)

**Netherlands**

PCJ on 9590 kcs. was last heard here on May 7th with their regular Tuesday English program to North America from 9:45-10:15 p.m. No signals from this station have since been heard. (Jewell-Calif.)

**Newfoundland**

VONG on 9580 kcs. now announces as VONH. The veri from VONG is a beauty in white with B.C.N. (Broadcast Corp. of Nfld.) in light yellow. A solid map of Newfoundland in blue is printed over this. (Bennett-N.J., Laudansky-Mass., and Mills, Ontario)

**Nicaragua**

YNOP on 6880 kcs. now—a new frequency! (Williams-N.J.)

YN2FT on 7193 kcs. in Granada is heard between 8-10 p.m. Slogan is "La Voz de la Sultana". (Williams-N. J.)

**Panama**

HP5A on 11700 kcs. is heard with dance music from 9:30-9:50 p.m. and with popular recordings until 10 p.m. on Wednesdays. (Laudansky-Mass.)

HP5G on 11780 kcs. in Panama City was heard on test program on April 20, 2-2:30 a.m. Received verification in one month—signed by Mr. Geo. Williams who wrote that if I had any trouble getting a QSL from ANY Latin American station to let him know and he would personally see that I get the card from the station in question. HP5G's QRA: "Ron Dalley", BoBx 1121, Panama City, Panama. (Jewell-Calif.)

HP5K in Colon sent a very attractive photograph showing their Studio A. (Laudansky-Mass.)

**Paraguay**

ZP-7 on 11705 kcs. in Asuncion is heard between 7-8 p.m. (Williams-N.J.)

ZP-14 on 11721 kcs. verifies with a gray and blue card. (BrBown-Md.)

**Peru**

OAX-4R on 15150 kcs. is heard on Saturday afternoons with interesting

program, from 5:15-5:45 p.m. (Brown-Md. OA4R at this time on Saturday is presenting a program by the Touring and Automative Club of Peru. The broadcast is in English and will have for a purpose, the education of United States public to the affairs, landscape beauty, color, background, folk music, and home life of Peruvian and other South American people. The program is in charge of Senor Victor Llona, who resided fifteen years in the United States, and who is one of the leading newspapermen in Peru. (Official)

OAX-4T on 9562 kcs. from 7:30-8 a.m. and from 11:30 a.m. to 1:30 p.m. (Jewell-Calif., and Williams-N. J.)

OAX6B on 11708 kcs. in Arequipa is heard during the early evening hours. Slogan is "Radio Sur." (Williams-N. J.)

**Philippine Islands**

Stations in operation are KZRH on 9640 kcs., KZIB on 9500 kcs., KZRF on 6140 kcs., and KZRM on 9570 kcs. (Podall-Vt.)

KZIB on 9490 kcs. (actually) is heard up to 8 a.m. when QRM overrides them. (Jewell-Calif.)

KZRH on 9640 kcs. at Manila is heard from 8:30-9:30 a.m. with R9 signal (Jewell-Calif.)

**Portugal**

CSW-5 on 11040 kcs. is being heard irregularly with R5 signals from 3-4:30 p.m. with classical music. (Jewell-Calif.)

CSW-7 on 9740 kcs. announces in English and gives call and frequency and requests reports. They are heard from 3-3:30 p.m. on Wednesday and Saturday. (Jewell-Calif.) CSW-7 heard one evening at 9 p.m. with weather report in Portuguese language. (Bendes-Pa.)

**Roumania**

"Radio Experimental", the Roumanian shortwave station on about 32 meters which relays the Roumonia National Program sent by medium wave "Radio Bucaresti" and long-wave station "Radio Romania," is

apparently very seldom on the air. (Jansen-Netherlands)

#### Salvador

YSD on 7890 kcs. in San Salvador is being heard in parallel with YSP on 10400 kcs. at 10 p.m. with Latin American music. (Jewell-Calif.)

#### Spain

FET-1 on 7006 kcs. at Valladolid is heard every morning from 8-8:45 a.m. with R 7-9 signals. XPSA sometimes QRM's FET-1. (Jewell-Calif.)

#### Spanish Morocco

EA9AH on about 43 meters has been heard with a fine signal, mostly with Arabic type programs until 5 p.m. They announce as "Hoona EA9AH" or "Hoona Radio Tetuan." (Jansen-Netherlands)

#### Straits Settlements

ZHP on 9690 kcs. in Singapore is being heard here at 9:30 a.m. with an R8 signal. Popular music and news are featured on the programs.

PZH in Paramaribo has shifted

#### Surinam

frequency from 6790 kcs. to 6530 kcs. (Williams-N. J.)

#### Sweden

SBP on 11705 kcs. in Motala is heard with programs for the United States from 8-9 p.m. nightly. The American Swedish News Exchange of 630 Fifth Ave., New York, N. Y. requests reports on signals from Swedish Broadcasting stations. (Williams-N. J., Long-Ga., and Meyers-III.)

SBT on 15155 kcs. in Motala, Sweden is heard almost nightly in parallel with SBP on the program mentioned above. (Long-Ga., and Meyers-III.)

#### Switzerland

HBL on 9345 kcs. can often be heard contacting NBC or CBS in New York. (Budden-Quebec)

HBP on 7797 kcs. was heard with a very fine signal relaying Stockholm to New York. (Brown-Md.)

HBO on 11402 kcs. at Geneva has been heard with fair signals from 8:45 to 10 p.m. on Mondays. Also heard contacting WGC for point-to-

point service. (Jewell-Calif.)

Station on 15100 kcs. heard with a talk on industries of Switzerland during an English program from 9-10 p.m. Address was given as Swiss Broadcasting Corp., Berne, Switzerland. (Bendes-Pa.)

#### Tahiti

FO-8AA on 7090 kcs. at Papeete was heard here with R6 signal at 11:30 p.m. (Jewell-Calif.)

#### Union of South Africa

ZRD on 61475 kcs. at Durban (300 w.) operates from 11:45 p.m. to 12:50 p.m., 3:50-7:30 a.m., 9-11:15 a.m., and 11:20 a.m. to 3:45 p.m. on weekdays, and from 5:30-7 a.m., 9-11:15 a.m., and 11:20 a.m. to 3:20 p.m. on Sundays.

ZRG on 9523 kcs. at Pretoria (5000 w.) operates from 5-6:15 a.m. on weekdays and from 3:30-6:15 a.m. on Sundays.

ZRH on 6607 kcs. at Pretoria (5000 w.) operates from 11:45 p.m. to 12:50 a.m., 9:30 a.m. to 12:45 p.m., and 2-3:30 p.m. daily and from 8:30 a.m. to 12:45 p.m., and 2-3:15 p.m. on Sundays.

ZRJ on 6607.5 at Johannesburg (200 w.) operates from 11:45 p.m. to 12:50 a.m., 3:15-7 a.m., and 9-11:30 a.m. on weekdays and from 3:30-4:30 a.m., 5:30-7 a.m. on Sundays.

ZRK on 6097.5 kcs. at Cape Town (5000 w.) operates from Noon to 4 p.m. on weekdays, and from Noon to 3:20 p.m. on Sundays.

ZRL on 9606 kcs. at Cape Town (5000 w.) operates from 11:45 p.m. to 12:50 a.m., 3:20-7:30 a.m., 9-11:45 a.m. weekdays and from 3:30-5 a.m., 5:30-7 a.m., 9-11:45 a.m. on Sundays.

ZDO on 9755 kcs. at Durban (500 w.) operates same schedule as ZRD (above.)

ZTD on 4878 kcs. (500 .), and ZTE on 11800 kcs. (300 w.) both at Durban are listed but have no regular schedule.

(From So. African Broadcasting Corp.)

**Uruguay**

CXA-8 on 9640 kcs. in Colonia is heard from 12:30-2:30 p.m. (Williams-N. J.)

CXA-3 on 6075 kcs. at Montevideo "Radio Nacional" is heard at 11:30 p.m. (Williams-N. J.)

Shortwave stations owned by SODRE (Servicio Oficial de Difusion Radio Electrica) are as follows: CXA-4 on 6125 kcs., CXA-6 on 9620 kcs., CXA-10 on 11895 kcs., and CXA-18 on 15300 kcs., all in Montevideo. Each station evidently has two transmitters, one of 3 kw. power and another of 20 kw. power. (Jansen-Netherlands)

**U. S. A.**

WBOS on 9570 kcs. in Boston relays CBS programs and not those of stations WBZ-WBZA. (Schlubach-R. I., Grant-Mich.)

WCBX official schedule: On 17830 kcs. from 7 a.m. to 2:30 p.m. daily and 7 a.m. to 3:30 p.m. on Sunday.

On 15270 kcs. from 3-5 p.m. daily and 4-5 p.m. on Sunday.

On 11830 kcs. from 5:30-9 p.m. daily and 5:30-9 p.m. Sundays.

On 9650 kcs. from 9:30-10:30 p.m. seven days a week.

On 6120 kcs. (June and August) or 6170 kcs. (July) from 11 p.m. to 1:00 a.m. seven days a week (RX)

WGEA on 15330 kcs. operates from 10:15 a.m. to 5 p.m. (Jones-Pa.)

WGEO on 9530 kcs. operates from 2-10:45 p.m. (Jones-Pa.)

WPIT on 6140 kcs., 9570 kcs., 11870 kcs., 15210 kcs., 17780 kcs., and 21540 kcs. has been granted permission to move transmitter from Saxonburg Penna., to Hull, Mass. (RX)

WRUW in Boston has been granted permission to add 15250 kcs., and 11790 kcs. to its present assignment. (RX)

**U. S. S. R.**

RAN on 9600 kcs. heard from 5:30-5:45 p.m. with English news. (Meyers-III.)

RKI on 7520 kcs. is heard in parallel with RAN on the above program and with RAN on the above program. (Meyers-III., and Schulbach-R. I.)

RNE on 12000 kcs. is heard coming on the air at 7 p.m. and with English announcements at 7:15 p.m. (Laudansky-Mass., Draper-Vt.)

RV-15 on 4273 kcs. at Khabarovsk was heard with R7 signal on a program of music and talk. Announcement in English by a female announcer was heard from 8-8:30 a.m. (Jewell-Calif.)

RV-96 on 15180 kcs. heard from 7 p.m. in parallel with RNE. (Draper-Vt., Long-Ga., Meyers-III., Brown-Md.)

Announcements from the Moscow stations regarding wavelengths are seldom complete. You may be hearing them on several wavelengths, but announce only one. (Jansen-Netherlands)

**Vatican City**

HVJ on 11740 kcs is heard every Thursday and Sunday nights from 8:15 (actual program starts 8:30) 8:30 p.m.) until 8:50 p.m. with program directed to North America. (Long-Ga., Brown-Md.)

**Venezuela**

YV10 on 4780 kcs. is heard with popular recordings from 8:15-8:45 p.m. and signs off at 10 p.m. (Jewell-Calif., Williams-N. J.)

YV1RT on 4770 kcs. at Maracaibo heard with light classical music from 7-9 p.m. daily. (Laudansky-Mass.)

YV3RF on 3480 kcs. at Acarigua was heard with a very weak signal in the evening. (Jewell-Calif.)

YV3RX on 4990 kcs. has a program of popular records every Monday at 7:1" p.m. (Jewell-Mass.)

YV4RO on 4950 kcs. at Valencia relays YV4RA from 11 a.m. to 2 p.m., and from 5-10 p.m. (Laudansky-Mass.)

YV5RH on 4830 kcs. signs off nightly at 10:30 p.m. (Stephenson-Okla.)

YV5RM on 5010 kcs. verifies with a white card with black type. Calls YV5RB and YV5RM are in red across the top. (Stephenson-Okla.)

YV5RN on 5040 kcs. in Caracas is badly QRM'd in the United States by Airways ground stations. Four strokes of gong is identification on signal. (Stephenson-Okla.)

YV5RV on 3500 kcs. in La Guaira is barely breaking through the code stations in the evening. (Jewell-Calif.)

YV5RW on 3400 kcs. in Caracas is heard with R9 signal early evenings with Spanish music. They announce as "Radio Tropical" Chimes used at intervals. (Jewell-Calif.)

#### Yugoslavia

Complete list of shortwave stations: YUA on 6100 kcs., YUB on 6100 kcs. (used for special transmissions to Europe), YUC on 9505 kcs., YUD on 9505 kcs. (to So. America), YUE on 11735 kcs. (to No. America), YUF on 15240 kcs. (to So. America), and YUG on 15240 kcs. (to No. America). (Jansen-Netherlands)

YUB on 6100 kcs. has replaced YUA and YUC on regular daily transmission. YUB is much stronger than YUA on same frequency (Jansen-Netherlands)

YUK on 15240 kcs. is heard with R9 signals in the evenings between 8 and 9:30 p.m. "Radio Belgrade" is the slogan used and a horn blowing slowly is the identification signal. Verification is plain card with station slogan on it. (Long-Ga., Laudansky-Mass., Jewell-Calif.)

#### Radex Reporters

R9, Mo. 1: Walter V. Scholz, 2nd, Webster Groves, Mo.

R152: Chester Roman Chicago Ill.

R552: M. F. Williams, Newark, N. J.

R638: Edward H. Draper, West Burke, Vt.

R834: G. R. Jewell, San Diego, Calif.

R924: Harold Tear, Roanoke, Va.

R946: Bertram Podall, Gilman, Vt.

R989: Hylton Brown, Silver Springs, Md.

R1132: C. R. Bendes, Pittsburgh, Penna.

R1186: John Jenkins, Glen Ellyn, Ill.

R1273: John D. Long, Dalton, Ga.

R1298: Melvin Fisher, Berkeley, Calif.

R1342: Henry Bennett, Collingswood, N. J.

R1470: Jack Stephenson, Oklahoma City, Okla.

R1497: Cyril J. Herwig, Muscatine, Iowa

R1535: H. W. Hartley

R1566: Roy Woollacott, Rochester, N. Y.

R1568: Niel Wald, New York N. Y.

R1576: Geo. Boscawen, San Francisco, Calif.

R1667: Charles A. Mills, Strathrog, Ontario

R1676: Don Johns, Des Plaines, Ill.

J. A. Brooks, Detroit, Mich.

R. H. Budden, Montreal, P. Q.

Eric Butcher, New Orleans, La.

Jose Carriazo, Havana, Cuba

J. B. Coursey, Fort Bragg, N. C.

Fred W. Grant, Detroit, Mich.

Donald Graydon, Toronto, Ont.

Anton Jansen, Boskoop, Netherlands

Herbert B. Jones, Johnstown, Penna.

Edward Laudansky, Dorchester, Mass.

William Mc Mahon, Glen Cove, N. Y.

Charles Meyers, Chicago, Ill.

Eric Schlubach, Providence, R. I.

Albert C. Smith, Mitchell, S. D.

G. Wood, Minneapols, Minn.



# HAM HOUNDING

The welcome number of responses to the contest idea being very gratifying, the only thing left to do is to list the rules and let everyone get to work. Many of you have made many good suggestions, which have been carefully considered and incorporated in the regulations.

First of all, there will be four major winners; four coveted places for you DXers to attain. For six issues, RADEX will carry the names of the four winners in a box in Ham Hounding column for all to see.

Thus, Mr. X will be designated as the best Ham Hounder in the World in Class A, and Mr. Y. will be second. In Class B, Mr. So-and-So will be the best, with Mr. Whos is a close second. Get the idea? You winners will bask in the sunshine of publicity and you will be known among your fellow men far and wide as the kings of SWL.

Not only that but your pictures will be published and the public will be told what kind of antenna, receivers, etc., you used in winning your title.

So come on, all you dial twirlers. Grab those ear phones so you won't wake up the rest of the family with your late tuning, get that pencil ready and those stamps and reach out for those veris. Here are the rules:

1. You may enter one or both of the two parts of this contest. Class A is for the old-timer who may include in his list all verifications he has on hand. In other words, it is a race to determine who has the most verifications from amateur radio stations, no matter how long the contestant has been DXing.

2. The other part, Class B, is to discover the most prolific DXer, the one who can tune in and verify the most amateur stations in one year—the length of the contest.

Send your reports for Ham Hounding direct to  
Owen P. Callin  
61 W. California Ave.,  
Columbus, Ohio

3. Both contests will run a year beginning July 1, 1940 and ending midnight June 30, 1941. Those who enter Class A may get together all their veris and start with that number. To them throughout the year they may add the new ones. Those entering Class B must start from scratch and start listening July 1.

4. Only verifications will count. Just hearing a station doesn't mean a thing unless you get the station card. However, the card may not state exactly that you heard the station. Just as long as you get the card or letter—that's what counts.

5. Don't send me your veris. Here's how you score yourself. First of all, count the entire amount of veris you have. Then look through them and note the number of different countries, using the regular system of cataloguing used by Radex and the ARRL. Suppose you have 700 verifications from 20 different countries. Your score would be 700 times 20, or 14000. Those with the highest scores will win.

6. Send in your total every month or so and we'll compare your progress. Since the sport of DXing is one in which pleasure is supreme, everyone will be on his honor, since it's no fun to report a veri, you haven't received.

So start writing for those verifications. If there are any questions we'll be glad to answer them if you will write in. We want to know who

the best four DXers are, and anyone may enter, whether he lives in Canada, Mexico, Cuba, or Moscow.

\* \* \*

Amateurs will do well to take a look at the 160-meter band. The FCC has allotted 1715 to 1800 kilocycles for code operation, but there is seldom more than three CW stations heard there at one time, according to Frank osik (R1724).

Other interests are gazing with avid eyes at that part of that particular amateur band, especially the police. The FCC, it is rumored, has been watching and if more of the amateurs don't start operating there it won't be surprising if there is a curtailment of kilocycles there soon.

A newly-developed camera tube is pointing the way for two-way visual communications between amateurs. Used in the electronic television system, the tube is the newest step in perfecting this off-spring of radio. It is a sort of miniature of the iconoscope of commercial television, bringing the expense of a transmitting layout within the means of amateur operators.

According to James Lamb, ARRL research engineer, the new system made possible by this tube requires but a 400 kilocycle portion of the radio spectrum to operate, compared with the 6000 kilocycles for commercial work under present standards.

So it may not be long before amateurs may not only talk to each other but may also see each other. One thing is certain—it will prevent a ham from reading a magazine or talking to a friend while the other one is operating!

The Virginia chapter of the Radex Club will continue to put out its bulletin throughout the lull of the summer months—only if they have the support of members and SWLs in Virginia.

Since that is a brave thing to do—and a fine one, to keep interest alive in a poor time for DX—it is up to the

Virginia DXers to help the Virginia club out. New members are always met with open arms, too, and you're welcome to join. It is The Virginia Chapter of the Radex Club—Harold Tear, President, 1317 Thomas Ave., Roanoke, Virginia.

News from VK's is incorporated in the description of VK5RQ, one of the four hams in our personality parade this month. The other three are familiar to nearly every DXer—although war duties now are occupying all of one's time.

VK5RQ—Australian hams are making a valiant effort to get back on the air, and they are trying to induce the government to allow transmission and radio experimental work on the ultra-high frequencies—two and a half and five meter bands. They have already petitioned without successes and are nearly ready for a second try.

The argument they use is that long-distance transmissions to points outside of the country are impossible. Of course, the argument against them is that a spy could build a transmitter and easily switch coils to operate on other wave lengths.

Claude Sellick, operator of VK5RQ in pre-war days, now is in the army, he writes in his last letter. Before the war he worked in the largest sheet metal works in South Australia, in Adelaide. He designed new types



Many DXers have this ham's card. By it one may see that he has two loves, radio and airplanes. K4FCG will send this 10 by 5 inch card for a correct report and return postage.

of products and undertook any special job that came along.

One of the VK's who QSL's regularly, Claude explains that he takes pleasure in getting SWL reports—in fact, he has more respect for them than the hams, since the latter often fail to QSL.

His final word is to the W hams: "Good wishes and tell them (the hams) to sit on the commercials and keep the bands open!"

ZLAGY—Eric Brown may be in the Mediterranean now with other Australian troops, since in his last letter he intimated that "the day was not far off when he might be a few thousand miles from New Zealand." This was when he was stationed at a home naval base.

Obtaining his license in Feb., 1934, Eric started with the old Hartley circuit, but soon added an oscillator—and from then on tried many circuits.

He belongs to the Radio Emergency Corps of New Zealand, which has proved its value in times like these. Before the war ZL was divided into sections, with three ham stations in each. Field days were held regularly, creating fast operators. Two emergency frequencies were allotted by the government. Since there were 12 operators to a section work was carried on every night with much club dope transmitted. Every week all ops had to copy a broadcast from the commanding officer in Wellington.

In fact, the set-up was a good deal like the National Guard radio hook-up in many of our states.

For the past six years Eric had been a member of the Royal Naval Volunteer Reserve and now is a leading Telegraphist in the navy.

Home on Christmas leave, Eric became acquainted with the radio ops in Byrd's expedition, who stopped in Dunedin on their way to Little America.

KA1LZ—Luigi Zavattero has one of the handiest transmitters we have

ever described. Listen to this round-up:

There are two 250TH's in the final, push-pull, with a pair of 35T's driving the final, in turn driven by a pair of 616g's from a 6F6G master oscillator.

Crystal plugs into the panel front. Five coils plug-in to afford quick change from 20 to 10 meters.

AVC incorporated in the audio enables a higher modulation level with less overmodulation. An adjustable equalizer accentuates the most desirable speech frequencies.

The mike is dynamic. Change to CW may be accomplished in 30 seconds! A home-made oscilloscope connected to the receiver checks incoming signals and Luigi's own.

All switching is done by relay, including antenna change-over. Add a four-element rotary and an H-beam with a signal squirter beam for 10 and 20 meters, and there is a nice rig!

Luigi has worked 61 countries since Aug. 27, 1939, his latest, three Spanish stations. He belongs to the Ruede del Oeste and the Philippine Amateur Radio Association (ARRL).

There are five other local Manila stations running a kilowatt besides KA1LZ, Luigi tells us. They are: KA1ME, 1HS, 1FH, 1ZL, and 1BB.

K4FCG—So many of you have written to tell me about Angel N. Franceschi's QSL card (which we already have received) that it seems he deserves consideration for his 100 per cent QSLing for SWL's.

Combining flying with amateur radio, Angel owns a Monocoupe plane equipped with two-way radio. He has a special license to communicate with amateurs, since there are no aeronautical stations in Puerto Rico or the islands.

When he attended the annual air carnival in Miami in 1938 he flew over, keeping in constant touch with his station K4FCG on phone and CW. His plane's transmitter has the

call KHBLM, operating on 6210 kilocycles.

The plane outfit is a Lear 30 watt transmitter with a wind-driven generator to keep the batteries charged. Interference from the motor ignition is prevented by complete shielding. A fixed antenna from the leading edge of the wing to the tail of the ship and a reel antenna are used.

Angel has the distinction of being the first Portorican to fly solo from St. Louis, Mo., to San Juan, Porto Rico.

\* \* \*

Widening of the scope of the war has further narrowed the DX field as far as ham radio is concerned by the silencing of more stations and lengthening the time when the shutdown stations will again be on the air.

But here is our newest list:

ALASKA—Some frequencies of K7's heard recently: K7GSC, 14.180; K7BUB, 14.230; K7EVM, 28.695; K7HCM, 14.160; K7HAR, 14.240; K7AOC, 14.160. HAR may not verify and AOC rarely QSL's. BUB verifies with salmon-colored card with map of Alaska and green call letters.

ANARCTICA—Many have reported reception of the three KC stations of Byrd's expedition. We're rather curious whether verifications may be obtained and where to send for them. We'll appreciate any information on the matter. 4USA is on nightly 11 pm-2 am, and has a schedule every Sunday morning 1:30-2:30 with W1FH.

ARGENTINA—More frequencies for your dope book: LU1DA, 14.110 and 28.370; LU7BU, 28.070; LU5HE, 14.060; and LU1QA, 14.080.

BELGIAN CONGO—OQ5AE, 28.212 and OQ5AB, 14.130 QSL promptly. 5AE heard during ARRL contest on 14.130. Phil Craig wants the QRA of OQ5IM.

BOLIVIA—CP2AC is a new one on 14.080. The QRA is Carlos Godoy, Box 268, La Paz. Weston

CANAL ZONE—K5AT was active during the contest on 28.400. K5AP reported heard besides K5AM.

CANTON ISLAND—Many are reporting KF6JEG, "The Voice of the Blue Lagoon" on 14.195. Cliff Tavenner has a card from him on which he marked over his old call K6JEG. He uses a 350-watt transmitter with an 8JK and V-beam antenna. He will answer all reports that are accompanied by a self-addressed stamped envelope. Amateur Radio KF6JEG, Henry K. Lee, Canton Island should reach him OK.

CHILE—Many of the CE stations are being heard lately. CE1AR QSL's with a brown card and green call letters.

CHINA—Eight XU stations have been reported on 20-meter phone: XU1B, 14.262, and XL1A, both in Canton; XUoA of Chungking; XU8AM and 8RJ in Shanghai; XU8RB, 8ZA (14.140) and 8LA (14.178).

CUBA—Cuba now has a CO4 station with the birth of CO4AA. The QRA: Pedro Torres Jespes, Nueva Gerona, Isle de Pines. Hylton Brown, Jr., wants the QRA of COMP.

ECUADOR—HC2CC, 14.251, QSL's promptly with a green card. He runs 100 watts into a three-element beam.

EL SALVADOR—Licenses now are being issued by the government for YS stations. Most active ham is YS1MS, and quite a few SWL's would like to know his QRA. He may be heard on 7.060, 7.100, and 14.000. He said in a QSO that YS1OL, YS1RP, and YS1JS were also active on 20-meter phone.

ESTHONIA—ES hams may still operate, untouched by war activities, but with this provision: they have been placed under strict supervision of government and local police authorities. Best ES has been ES1E, 14.100, in Tallinn, the capital. He is heard near 11:30 p.m. The most consistent station is the old faithful

Richards (R101) also reports hearing CP9AI.

BRAZIL—PY5AQ runs 200 watts. His QRA: Harold Carvalho, Cons. Barradas 641, Curitiba, Parana. His card is light brown with blue print. PY4EJ, 14.100, verified after six months.

ES5D, 14.044, in Rakvere.

FRANCE—Evidently F8GO is the only French ham to be on the air, and even now may be silent, his "cow shed" destroyed by a bomb!

"Andre", the only name he would give, was heard to say that his transmitter was located in a cow in a little village 25 miles from Paris. He is running 320 watts with a rhombic beam antenna. Because "postal employees in France nab interesting postage stamps," he advises W's and SWL's to QSL in a plain envelope.

The nearest authoritative address as far as we can learn is this: Amateur Radio F8GO, Paliseau, Pres Paris, France. On 14.260, he is supposed to have full permission from the French government to operate.

GERMANY—Evidently many D hams are operating with the sanction of their government, but only on CW, with D4BUF the best. According to D4BIU, the following are licensed: 4ACE, 4ACF, 4BIU 4BUF, 4RGF, 4TRV, 4HCF, and 4DKN.

GUAM—KB6OCL and KB6ILT are still both on the air and being heard regularly.

GUANTANAMO BAY — NYAD, 14.216 and 28.300 verifies promptly.

GUATEMALA—TG5JG, perhaps the most powerful ham station in North America with a 1200 watt output, is operated by Juan Guillen and Julius Caballeros, the director general of communications in Guatemala. Frequency is 14.020 and the station is heard frequently at 3 a.m. testing with recordings. TG9RV, 14.090, heard at 10:30 p.m.

HAITI—HH4AS returned an SWL card stamped "confirmed". He has good signal with his 32 watts.

HAWAII—Following K6's have verified: 6QHU, 14.230; 6PIT, 14.216 (operated by Bob Meade of the famous SWL brothers of Kansas City); 6OQM, 28.530; and 6RVG, 28.870.

HUNGARY—The Hungarian phones are coming in nicely, according to the reports. Best of the lot is HA7P, 14.080, using but 20 watts and a two-tube receiver. Also well-heard is HA7C on 40 watts. Others are HA8C, 14.060; HA6T, 14.060; HA3B, 14.100; HA9Q, 14.130.

ITALY—I1TAK, 14.080 was heard with I1JKV speaking over the mike. I1JKV, 14.010, is heard at odd intervals, and won't give his QRA over the air, since he is unlicensed. He said, however, to QSL via the Italian QSL Bureau or via W2DMJ or W3EOZ.

JAPAN—J2KI is the new station of the month. Heard on 14.080, he advises to QSL via the Japanese Amateur Radio Relay League, Box 377, Tokyo. Others reported are: J2NF, 14.080; J2XA, 14.020; J8CI, and J2NS. 2NF has an irregular schedule with XE1AC on Saturday mornings at 3:45 a.m. J5CW, heard on 14.070, runs 300 watts and verifies promptly. He saves stamps and appreciates any old ones you might send him. J2PU, 14.050, running 20 watts, verifies with a red call on a pink card.

JOHNSTON ISLAND—K6NYD, portable KE6NYD, was heard during the ARRL contest about 14.215, giving his location as Puke Pinnacle in the Johnston group. He said that he was using low power and a 600-ft wire for an antenna.

LITHUANIA—Best heard ham here is LY1J, 14.090. The op said that due to the war it takes QSL cards two or three months to reach him.

MEXICO—QRA of XE2HD is Marina Bovio, Guanacevi, Durango. He verifies with a light-colored brown card, orange and black print.

NETHERLANDS E. INDIES—PK's are being heard well. PK3GD, 3BD, and 2LZ on 14.040; 10G on 14.090; 1VM, 14.110; 2AY, 14.010; and 3KG and 4KS.

PERU—Some more OA's logged with frequencies: OA3B, 14.060; 4AI, 14.030; 4C, 14.010; and 4R, 14.040.

PARAGUAY—If you hear ZP6AB on the air chances are good for a veri, since he belongs to the Ruede del Oeste.

PHILIPPINES—KA1GC, heard by Ken Munn, said that he was only 12 years old! KA1RV, 14.160, supposed to be the newest KA. Others reported: 1HQ, 14.160, operated at Fort Stotsenburg, Manila; 1GC, 14.130 (he's having some cards printed!); and 4LH, 14.140, who verifies with a card depicting his shack in the jungle with a caricature of a crocodile speaking into the mike.

SPANISH MOROCCO — EA9AI, originally on 40 meter phone broadcasting nationalist propaganda during the Spanish war, now is on 14.060. Dr. Angel Mora, the op, verifies with a folder showing photos of the rig and location. QRA is Canalejas No. 1, Melillax, Spanish Morocco.

RUSSIA—Many U stations are being heard on CW, but none is on phone. U3BB is best of the CW gang.

VENEZUELA — YV5ACG sends a brown cards with black letters picturing his two antennas and an Indian.

VIRGIN ISLANDS — KB4FE is being heard occasionally. Phil Bates would like his QRA.

That's all the reports. For their excellent work we want to thank Cliff Tavener, R716; Hylton Brown, Jr., R989; Jack Wells; Philip Craig, R574; H. W. Hartley, R1535; Weston Richards, R101; Philippe Bates, R1231; George Boscawen, R1576; Alan I. Breen; Allen G. Verill; Harry O'Meara, R1638; and N. Wehrli, R1183.

Sterling Fisher has compiled a list of slogans used by hams and based on their calls. Here are a few—recognize them?—W6QOG (Six Quarts of Gin); W6MBD (Man Bites Dog); K4FOW (Funny Old Woman); W9KIP (Kick in the Pants); W5WX (The Weather Stationn); W9RVP (Rest Very Peacefully); W9YXS (Your X-ray Specialist); W5IFM (I'm From Missouri).

Phil Craig and Hylton Brown come up with this list of Non-QLSers: CE1AC, CO2GY, CO2HY, CO6OM, CO7VP, CX1BA, CX2BK, VP4TK, VP1WB, VP7NS, VP5PZ, VP9R, ZS5P, G8HN, HA1K, HC1JB, HC2HP, HH5PA, HI6Q, HI7Q, HI7G, K4FAY, OA3B, PY7AI, TG9BA, TI2LR, K4EZR, K6MVA, LU1QA, SU1MW, PY2AK, CE3BK, CE3DW, ZS6EF, ZS2X, ZS6S, LU4BC, ON4DI, G2AV, VO6J, HC1PZ, XE1A, KA1ME, TI6HP, I1TKM, CT1ZA, ZK1AA, F8LX, CW5PH, SV1KE, CE1AO, and PK6XX.

Phil would also like to have the following QRAs: HA8B, PK1OG, HA9Q, and ES4G.

CHATTER: Thomas Moss (R1101) is busy stirring interest in Radex Club insignia on letter heads and badges like the other clubs. It may be that soon we will have them. Philippe Bates likes the idea. What do you think, Radexers?

When you drop into San Francisco to take in the Epo look up George Boscawen (R1576), who is operating a rifle gallery at Playland. Although he works at night he has an impressive list of 36 countries verified, using three antennas. George is nearly ready to take the exam for his ham ticket so he can talk to his DX, too! W6PTS is teaching him the tricks of the trade.

Phil Craig has some dope about K4FAY, who he says hasn't been on the air since last September. A navy man, he was transferred to the U. S. S. Hamilton, and the station was dis-

mantled. Many of you will remember Jack Heay and his morning contacts with PK6XX. Jack retires in about three or four years and then K5FAY may once more be on the air. Phil also bought his new Hammarlund HQ-120-X and his interested in corresponding with other owners of this kind of a receiver.

An old-timer comes through with his first report: Walter V. Scholz, R9; thanks, Walt . . . R. E. Sparkes listed 200 stations heard in a week. . . . Herbert Bell (R1097) has a mark for 20-meter DXers to shoot at with 17 countries logged in one day. . . . Vic Samardza now has two VACs with cards from J2KN and J8CA. . . . H. W. Hartley (R1535) reports from Hawaii that 160 meters has been no good there lately. . . . To Allen Verrill: yes, a report on what's hot on the ham bands from Massachusetts would be welcome and thanks for the fine one you sent in. . . . Jack Wells now has a Halli-crafter SX24 and got a chance to use it in the contest (mine is a Sky Challenger, Jack). . . . Bill Scott (R626) now has 46 sates and 20 countries on five continents verified. . . . Thanks for your first report, Glenn Thor-mann—let's have more. . . . Also to Lawrence Swanson (R1540) who sends in his first from Detroit: that's the way to do it—list the unusual you hear, especially the DX stations, when heard, kilocycles, etc. . . . Glad Radex satisfies, John Jenkins, Jr. . . . Harry O'Meaa: your idea of two receiver classes for the contest is good, but since it is agreed that antennas, and NOT receivers are what count in DXing, I have an idea that you'll get along all right with your set. . . . XU's heard completed the HAC for Sterling Fisher. . . . George Bos-cawen said K6NYD did not QSL but the navy lieutenant did for Philippe Bates. . . . Walter Welch has logged 20 LU's and 16 YV's. . . .

That's the dope, fellow dial twirlers. Incidentally, to you who have sent me your SWL cards, thanks. I like to receive them but since I have none as yet the the favor won't be returned until mine are printed.

## Amateur Calls Heard

The names and addresses of persons reporting the stations are indicated by small letters following the call signs. Key to the small letters is given at the end of the column.

### Ten Meters

CE1AH (s); CE1AO (e); CE2AR (f); CE2BX (eikns); CE3AG (s); CE3BT (n); CE3CZ (e); CO2AM (fkv); CO2JM (fvk); CO2RO (nv); CO2WM (fkv); CX2CO (efs); HA8B (e); HC1JB (efsv); HC2CC (s); HH4AS (nr); HI2K (s); HI7G (ek); HR5C (es); J2XA (s); KA1ME (s); K4CVV (e); K4ESH (v); K4EZR (esv); K4FDC (v); K4FKC (fktv); K4FOW (efnrsv); K4FSB (s); K4GIG (efns); K4UG (e); K5AT (s); K6LKN (i); K6MVV (efi); K6MXM (i); K6NYD (fi); K6OQM (is); K6OTH (i); K6PAS (i); K6PIR (i); K6PLZ (ik); K6PPR (s); K6PRR (i); K6PTW (fik); K6PUL (i); K6REF (is); K6ROJ (s); K6RVG (is); K6SBX (s); K6SCB (s); K6SHG (is); K7EVM (s); LU1DA (fsv); LU2BG (n); LU3AA (f); LU5AN (fkv); LU5HE (s); LU7BK (s); LU7BU (s); LU8AB (n);

NY4AD (efkstv); OA4A (e); OA4R (fk); OQ5AB (efv); OQ5AB (efv); OQ5IM (es); PY2DA (e); PY2LN (e); PY5AQ (efv); TI3AV (iv); TI5NA (s); W2DGM (s); W5HQP (s); W6BOY \*(s); W6NWK (s); XE1GE (n); XE1GG (k); XE2AF (efkn); XE2HD (e); YN1IP (e); YS1MS (e); YV4AE (f).

### Twenty Meters

CE1AA (u); CE1AB (cekgs); CE1AC (einpu); CE1AD (cf); CE1AH (ko); CE1AJ (a); CE1AO (fiopv); CE1AR (cehiknsprsv); CE1AS (accinoprsv); CE1AX (o); CE1AZ (e); CE1BB (e);

CE1BC (i); CE1BD (c); CE1BE (e); CE1AX (c); CE1BT (f); CE1OX (k); CE1S (k); CE2AR (e); CE2BX (ceikn-suv); CE2CK (c); CE2MR (g); CE3AA (cins); CE33AG (aci); CE3AM (e); CE3BE (cikv); CE3BK (cv); CE3BT (e); CE3BU (c); CE3BV (e); CE3BV (e); CE3CG (air); CE3CO (v); CE3CO (v); CE3CZ (acenopv); CE3DW (aru); CE3EE (c); CE4AC (s); CE4AO (c); CE7AA (a); CO2AJ (p); CO2AL (k); CO2AM (acfikov); CO2BA (acfiknoprv); CO2BG (a); CO2BL (av); CO2CC (an); CO2CX (q); CO2DA (a); CO2DB (kn); CO2DR (afkv) CO2GA (a); CO2GL (aciknrv); CO2GO (a); CO2GY (acfiknoprv); CO2HL (a); CO2HL (av); CO2JH (ov); CO2JJ (if); CO2JM (afikv); CO2JV (v); CO2KC (a); CO2KL (o); CO2KP (a); CO2KY (a); CO2LA (acpv); CO2LL (av); CO2LY (acinprv); CO2MA (kv); CO2MG (acknv); CO2NG (c); CO2RA (f); CO2RD (v); CO2RH (ckp) CO2RL (fk); CO2RR (ai); CO2RZ (an); CO2SV (kp) CO2UF (acr); CO2US (ak); CO2VK (av); CO2WL (akv); CO2WM (acfikov); CO2WN (c); CO2XF (a) CO2XY (nv); CO2YW (acfv); CO4AA (ceiks); CO4XX (k); CO6CC (n); CO6OM (afilnprv); CO6SD (1); CO7AS (acfkv); CO7BA (a); CO7CX (acfknpv); CO7VP (afnprv); CO8AE (fkv); CO8AS (f); CO8BC (v); CO8JK (acfiknop); CO8MP (an); CO8VC (n); CP1BA (i); CP1XA (es); CP2AC (egi); CP9AI (p); CT1AB (p); CX1AM (a); CX1BA (e); CX1CC (e); CX2BK (fp); CX2CO (eifknoqrv); EA7BA (abefilnprsv); EA9AI (nr); EK1AF (abcefiklnprsv); EK1AK (o); ES5D (t); ES5E (u).

F8GO (aenqsv); HA1K (e); HA1P (n); HA7P (ef); HA9Q (e) HC1FG (ai); HC1PZ (v); HC1VT (p); HC2CC (efiknspqsv); HC2HC (t); HC2HP (iqrv); HH2B (acefiklnotv); HH2G (alv); HH2HB (acios); HH2HB (acios); HH2TB (a); HH2X (al); HH4AS (aei-oprv); HH5PA (aefknopv); HI2K (av); HI3N (acefiklnprv); HI5X (aefiknv); HI6Q (aknsv); HJ1K (c); HK1AB (a); HK1AG (i); HK1AP (n); HK1AT (asv); HK1AW (efiknv); HJ1K (c);

HK1AB (a); HK1AG (i); KK1AP (n); HK1AT (asv); HK1AW (aefiknv); HK1BA (q); HK1PAA (cfnov); HK3CC (inocv); HK3CI (av); HK3CK (aiv); HK3CO (n); HK3CY (nv); HK4BK (n); HK4DC (nv); HK4DF (v); HK4DJ (anr); HKDK (a); HK4EH (n); HK4JJ (r); HP1A (aeffiqrv); HR5C (ekpqr).

I1JKV (ev); I1OA (s); I1RE (s); J2IB (s); J2KC (s); J2NF (s); J2NS (su); J5CW (s); J7CT (s); J8CI (su); KA1AF (i); KA1BB (epsv); KA1BC (f); KA1CW (ensv); KA1FG (im); KA1FH (efikntv); KA1GC (ms); KA1GG (e); KA1HP (c); KA1HQ (csu); KA1JH (ckp); KA1LB (efiknsv); KA1LH (k); KA1LZ (e); KA1ME (cefikmnpv); KA1NN (n); KA1OZ (ks); KA1RV (cekn); KA1ZL (ce); KA3KK (s); KA4FH (f); KA4LA (e); KA4LH (efikv); KA4RP (s); KA7FS (s); KB4FE (a); KB4FTU (es); KB6CBN (sv); KB6OCL (p); KC4USA (jnpsuv); KC4USC (emsv); KE6NYD (msu); KF6JEG (cvs); K4BU (fv); K4DDH (nv); K4DSE (efl); K4EGZ (a); K4EJF (alrv); K4EMG (akv); K4END (c); K4ENT (anpv); K4ESH (f); K4EZR (e); K4FAY (c); K4FCG (afioqrv); K4FKC (acefiknotv); K4GSG (a); K4UG (acov); K5AP (av); K6BNR (ceikv); K6CIB (g); K6DJD (q); K6FNL (i); K6FVL (k); K6GAS (cikp); K6IAE (i); K6ILW (ikpv); K6IKQN (p); K6KGA (ciknpq); K6KQK (s); K6KRG (cik); K6KUF (k); K6LCV (koq); K6LEJ (cpu); K6LKN (cikpv); K6MTA (k); K6MVA (c); K6MVS (u); K6NKQ (p); K6NLD (p); K6NYD (aefikoptv); K6NZQ (ip); K6OJI (ceikpq); K6OQE (c); K6OTH (k); K6PAS (e); K6PCF (ekv); K6PIR (i); K6PIT (i); K6PLV (hk); K6PLZ (aecikopqv); K6PRG (i); K6PRI (k); K6PRI (c); K6PTW (ceikopv); K6QHU (cenv); K6UHV (n); K6QHV (in); K6OUJ (q); K6RVU (i); K6TIT (c); K6WK (p); K7AOC (c); K7BUB (cvs); K7GSC (k); K7HAR (bceks); K7HCX (cekqs); K7HPJ (g).

LU1BA (c); LU1CA (a); LU1DA (acefgisv); LU1DA (v); LU1HB (v); LU1JC (e); LU1QA (aceins); LU2AW





The KA1LZ QSL card. The printing, the map and the radio tower are shown in black, and the border and call letters in blue.

(e); LU2BG (c); LU2DG (k); LU2VG (g); LU3AF (v); LU3DF (cv); LU3EQ (i); LU5BC (qv); LU4BH (ic); LU4CZ (iv); LU4DJD (n); LU4KA (ei); LU4NB (k); LU4PB (e); LU4QZ (p); LU4VA (k); LU4XA (c); LU5AG (v); LU5AM (i); LU5AN (acenfhkqsv); LU5BK (o); LU5BT (e); LU5DD (kv); LU55HE (efv); LU6DJ (nv); LU6KE (a); LU7AG (v); LU7BK (cekrv); LU7BU (f); LU7HE (ei); LU9HA (ev); LU9HK (k); LY1J (aefsv); LY1S (env); NY4AB (a); NY4AD (fknqs); OA1AM (g); OA3B (s); OA4AI (kp); OA4AL (np); OA4AW (is); OA4C (efks); O A 4 R (aceikorsv); OQ5AB (efv); PK1AJ (q); PK1JR (fk); PK1MF (s); KKIOG (efkmps); PK1SM (s); PK1VM (s)! PK2AY (efs); PK2JK (f); PK2LZ (efs); PK3BD (e); PK3GD (efksv); PK3JK (p); PK3KT (s); PK3ZL (p); PK4BA (s); PK4DA (s); PK4KS (ps); PY1AN (o); PY1BD (r); PY1BE (aefkn); PY1BF (v); PY1DS (e); PY1IF (a); (afknosv); PY1MS (efk); PY2AB (a); PY2AC (acfinp); PY2AK (aefv); PY2BF (o); PY2CK (anv); PY2DA (aefkodv); PY2DH (k); PY2ER (av); PY2ET (ei); PY2FA (o); PY2GA (f); PY2GC (e); PY2HT (efn); PY2HV (v); PY2IG (e); PY2II (r); PY2IM (e); PY2IT (aefkv); PY2KP (k); PY2KT (v); PY2LN (aefiknv); PY2LR (e); PY3DR (ef); PY4EJ (s); PY5AQ (afikv); PY7AI

(anprsv); PY8AB (v); PY8HB (e).

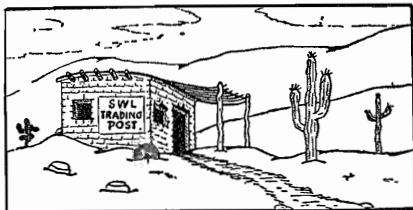
TG5JG (aouv); TG9BA (aefiknoqstuv); TI2AB (eiknqs); TI2AC (inqpqrur); TI2AV (ev); TI2LA (u); TI2LR (ci); TI2RC (afkop); TI5JRX (p); TI5ZS (o); TI7AS (c); W5ETI (s); W6OMJ (s); XE1A (ap); XE1AC (acfnp); XE1AG (c); X E 1 A K (c); XE1AM (c); XE1AT (e); XE1BL (p); XE1BY (v); XE1CA (i); XE1CJ (a); XE1CK (c); XE1CX (f); XE1FF (cp); XE1GE (a); XE1GG (cf); XE1GL (f); XE1IY (c); XE1IZ (k); XE1LK (ev); XE1LL (p); XE1KK (k); XE1MF (p); XE1Q (v); XE2AB (e); XE2AC (ck); XE2AD (c); XE2AF (acefkprv); XEAH (e); XE2AS (e); XE2AY (p); XE2BK (e); XE2F (p); XE2FA (c); XE2FC (crv); XE2FG (p); XE2GO (c); XE2GS (p); XE2HA (c); XE2HB (ecv); XE2HD (aefkv); XE2HV (k); XE2HY (cefkv); XEIA (c); XE2IK (co); XE2IY (v); XE2JC (p); XE2KA (cv); XE2KH (c); XE2O (k); XE3AH (s); XE3BK (aosv); XE3O (e); XE3R (ps); XUoA (ds); XU1B (defks); XU2LA (c); XU6MJ (s); XU8AM (cdfps); XU8RJ (g); XU8ZA (cdf); XU8LA (d); XU8RB (d); XU8RJ (d).

YNU1 (acinopqus); YN1AP (a); YN1AZ (aevv); YN1FF (s); YN1IP (aefiqv); YN1SS (i); YS1JS (v); YS1MF (r); YS1MS (eimnpqsv); YSIOL (ps); YS1RP (s); Y V A C 9 (sv); YV1AE (o); YV1AN (ov); YV1AP (ahinoqrv); YV1AQ (afkpv); YV1AT (j); Y V 1 A V (achinoprsv); YV1AP (ahinoqrv); YV1AQ (afkpv); YV1AT (j); YV1AV (achinoprsv); YV1AVE (1); YV3AG (a); YV3AQ (kv); YV4AA (q); YV4AB (v); YVAE (achiknpyrv); YV4AF (f); YV4AN (p); YV4AX (fv); YV5AB (pq); YV5AB (pq); YV5ABAR (v); YV5S YV5ABE (afhknv); YV5ABF (i); YV5ABY (afiv); YV5AC (f); YV5ACA (fov); YV5ACE (nv); Y V 5 A C G (anv); YV5ACH (iv); YV5AE (a); YV5AK (a); YV5AO (q); YV5AV (a); YV5AC (a); ZP5AC (s);

**The Reporters**

- (a) Philippe Bates, Philadelphia, Pa.
- (b) Charles A. Black, York, Pa.

- (c) George Boscawen, San Francisco, Calif.
- (d) Alan I. Breen, Dunedin, New Zealand
- (e) Philip Craig, Waterville, Maine
- (f) Sterling Fisher, North Tarrytown, N. Y.
- (g) H. W. Hartley, Honolulu, Hawaii
- (h) John Jenkins, Jr., Glen Ellyn, Ill.
- (i) Ralph Kastner, New Braunfels, Texas
- (j) Frank J. Kosik, Chicago, Ill.
- (k) Richard Loetz, Sturgis, Mich.
- (l) John D. Long, Dalton, Ga.
- (m) Ken Munn, Albuquerque, N. Mex.
- (n) Harry O'Meara, Manchester, Mass.
- (o) Bertam Podall, Gilman, Vermont
- (p) Weston Richards, Zion, Ill.
- (q) Wm. Scott, Johnson City, Tenn.
- (r) Lawrence Swanson, Detroit, Mich.
- (s) Cliff Tavener, Rosenberg, Texas
- (t) Glenn Thormann, Westbury, N. Y.
- (u) Norman Wehrli, Kilgore, Texas
- (v) Walter E. Welch, Lynn, Mass.



Matthew Leshner tells us that his correspondent, Wilfred Tarbotton of England, has advised him that filled-out SWL cards addressed to England may have unpleasant consequences for their recipients. A British short-wave listener, upon receiving a card on which the symbols "QSA5, R9" were written, had the card intercepted by the Post Office, and his entire stock of SWL cards was confiscated.

It is urgently suggested, therefore, that SWL cards to England, or to any country at war, should not bear any reference to a transmission. It will be safe only to sign the cards and confine the remarks to personal greetings written in plain language.

Exchangers for this month are:  
 Edward Laudansky, 1 Mather St., Dorchester, Mass. (SWL) cards).  
 Lawrence Blagbrough, 15 Crowtrees Crescent, Rastrick, Brighthouse, Dorchester, Mass. (SWL cards).  
 Walter V. Scholz 2nd, 33 N. Maple Ave., Webster Groves, Mo. (SWL cards).

Harry O'Meara, 38 Sea St., Manchester, Mass. (Correspond with National SW-3 owners).

Matthew E. Leshner, 181 Bailey St., Lawrence, Mass. (SWL cards).

Wm. Scott, 313 W. Holston Ave., Johnson City, Tenn. (Correspond with DXers in eastern Tennessee).  
 Vernon Lee Gibbs, Jeffersonville, Ky. (SWL cards, correspondence, exchange used and unused postage stamps with DXers outside [the U.S.A.]).


Conrad J. Klank, 723 N. Division St., Buffalo, N. Y. (SWL cards).

Walter L. Shirley, Jr., 3864 N. New

## Radio Amateur Call Book

**LATEST EDITION**

Lists over 40,000 amateurs in every country in the world, and complete lists of all the high frequency commercial stations. Every listener interested in amateur stations should have one. 292 pages. We pay the postage.



**RADEX**  
Emerson, N. J.

**\$1.25**

- Jersey St., Indianapolis, Ind. (SWL cards).
- James Reilly, 33-35—201st St., Bay-side, N. Y. (Swap cards and correspondence).
- Glenn Thormann, 271 Park Ave., Westbury, N. Y. (SWL cards, correspondence, photos).
- Raymond Skidmore, 171 W. 73rd St., New York City. (Wishes to visit with SWL's in Maryland, Pennsylvania, New Jersey and New York).
- Walter Eggert, 1114 W. Braden, Chariton, Iowa.
- Frank J. Kosik, 1816 Allport St., Chicago, Ill. (Correspond with owners of Hallicrafter Sky Buddy S19-R).
- Roy Gunn, 2 Third Ave., Kingsland, Auckland, New Zealand. (Correspond with DXers 17-21 yrs. old, boys or girls).
- John Jenkins, Jr., 423 Hill Ave., Glen Ellyn, Ill. (Exchange listening post photos and will correspond).
- Anthony Arsenault, VE1FR, has moved to 355 Water St. W., P. O. Box 444, Summerside, P.E.I., Canada. (Exchange cards).
- Joseph Becker, Sr., 415 S. 11th St., Hamilton, Ohio, wishes to collect postal card views of different post office buildings, for which he will send Hamilton views in exchange.

**DU MONT DISCONTINUES  
SMALL-IMAGE TELEVISION  
RECEIVERS**

CONVINCED, after selling hundreds of its television receivers in the New York metropolitan area, that the public does not care to have "peep-hole" television entertainment, the Allen B. Du Mont Laboratories, Inc., Passaic, N. J., has discontinued all development activities on small picture television receivers. All its resources are now concentrated on the production of Du Mont large-screen direct-vision television receivers, using the 14-inch and the 20-inch Du Mont teletrons. The Du Mont slogan is "Large Screen Television."

States Allen B. Du Mont personally: "Television long ago passed through its 'head-phone stage,' just as did sound broadcasting in its earlier days. Today the public is interested in large images that can be comfortably viewed by a group.

"The few dollars that can be saved by using smaller cathode-ray tubes are not worth while. Once the public sees a large-image television set in operation, most interest ceases in 5-inch and 9-inch jobs even if a few dollars might be saved. While we believe our 14inch job is adequate for most purposes the buying interest certainly switches to the 20-inch job when that is also shown.

"Quite obviously then my organization is going ahead with 'Large Screen Television', in the firm belief that the public wants comfortable television reception."

**Foreign Language Broadcasts  
From the B. C. C.  
(All times are Eastern Standard)**

**Afrikaans**

11:30 am-11:45 am: GSV  
1:30 pm- 1:45 pm: GSD and GSI

**Arabic**

12:45 pm- 1:10 pm: ON GSC and GSP

**Bulgarian**

2:00 pm-2:15 pm: CRX, GSA and GSW

**Czech**

Midnight-12:15 am: GSA, GSW, and GRX  
2:00 pm- 2:15 pm: GSA, GSW and GSE  
5:45 pm- 6:00 pm: GSA, GSW and GRX

**Danish**

4:40 pm- 4:45 pm: GRX, GSA, GSB, GSC, GSD, GSF, GSP, GSW

**Dutch**

7:00 am- 7:15 am: G S A, G S E, GSF, GSG, GSH, GSJ, GST and GSW.  
Noon -12:15 pm: CRX, GSA, GSW.

5:07 pm- 5:15 pm: CRX, GSA, GSB, GSW.

**Finnish**

1:15 pm- 1:30 pm: CRX, GSA and GSW.

**French**

6:15 am- 6:30 am: GSA, GSE, GSH, GSP, GST and GSW.

12:15 pm-12:30 pm: GSA, GSW and CRX.

2:15 pm- 2:30 pm: GSA, GSW and CRX.

4:00 pm- 4:15 pm: CRX, GSA, GSC, GSD and GSP.

6:45 pm- 7:00 pm: GRX, GSA, GSC, GSD and GSW.

**German**

7:30 am- 7:45 am: GSA, GSE, GSH, GST, GSV and GSW.

8:30 pm- 3:15 pm: CRX, GSA, GSC, GSD, GSI and GSW.

4:15 pm- 4:40 pm: GRX, GSA, GSB, GSC, GSD, GSF GSW.

5:15 pm- 5:30 pm: GRX, GSA, GSB and GSW.

11:00 pm-11:57 pm: CRX, GSA and GSW.

**Greek**

1:25 pm- 1:45 pm: GSC and GSP.

**Hindustani**

9:20 am- 9:30 am: GSF and GSG.

**Italian**

1:30 am- 1:45 am: GRX, GSA and GSW.

6:30 am- 6:45 am: GSA, GSE and GSW.

1:30 pm- 1:45 pm: GRX, GSA, GSF and GSW.

4:45 pm- 5:00 pm: CRX, GSA, GSB, GSC and GSW.

5:45 pm- 6:00 pm: CRX, GSA, GSB, GSF and GSW.

**Magyar**

3:15 pm- 3:30 pm: CRX, GSA and GSW.

**Norwegian**

12:45 am- 1:00 am: CRX, GSA and GSW.

12:30 pm-12:45 pm: GRX, GSA and GSW.

6:20 pm- 6:30 pm: CRX, GSA and GSW.

**Polish**

2:00 am- 2:15 am: CRX, GSA and GSW.

9:15 am- 9:30 am: GSA, GSE and GSW.

2:30 pm- 2:45 pm: GRX, GSA and GSW.

**Portuguese**

7:15 am- 7:30 am: GSA, GSE, GSH, GST, GSV, CSW.

4:00 pm- 4:45 pm: GSB, GSF and GSW.

7:00 pm- 7:15 pm: CRX, GSA, GSB, GSE, GSF and CSW.

**Romanian**

3:30 pm- 3:45 pm: CRX, GSA and GSW.

**Serbo-Croat**

3:45 pm- 4:00 pm: GRX, GSA and GSW.

**Spanish**

7:45 am- 8:00 am: GSA, GSE, GST, GSV and GSW.

5:30 pm- 5:45 pm: GRX, GSA, GSF and GSW.

9:00 pm- 9:15 pm: GSB, GSE and GSF.

**Swedish**

12:45 pm- 1:00 pm: CRX, GSA and GSW.

**Turkish**

1:10 pm- 1:25 pm: GSC and GSP.

**The Frequencies**

CRX, 9690 kcs., 9.69 megs.  
 GSA, 6050 kcs., 6.05 megs.  
 GSG, 9510 kcs., 9.51 megs.  
 GSC, 9580 kcs., 9.58 megs.  
 GSD, 11750 kcs., 11.75 megs.  
 GSE, 11860 kcs., 11.86 megs.  
 GSF, 15140 kcs., 15.14 megs.  
 GSG, 17790 kcs., 17.79 megs.  
 GSH, 21470 kcs., 21.47 megs.  
 GSI, 15260 kcs., 15.26 megs.  
 GSJ, 21530 kcs., 21.53 megs.  
 GSJ, 21530 kcs., 21.53 megs.  
 GSP, 15310 kcs., 15.31 megs.  
 GST, 21550 kcs., 21.55 megs.  
 GSV, 17810 kcs., 17.81 megs.

# IMPORTANT ANNOUNCEMENTS

## West Coast Editor Foreign Contacts Prohibited

Regretfully we announce that "Tony" Tarr of Seattle, Washington, has resigned as the west coast editor of Radex. Commencing with our next issue, Melvin Fisher of Berkeley, California will conduct the west coast column.

All readers living in the Mountain Standard and Pacific Standard Time Zones are requested to send their DX reports direct to the new editor,

**Melvin Fisher,  
1401 Bancroft Way  
Berkeley, Calif.**

The Federal Communications Commission has prohibited the amateur radio stations of this country to communicate with any foreign stations. The order was issued without any warning, to take effect immediately. It is believed that the order was due to the European war.

Communication between amateurs within the United States or its possessions and territories will be permitted, and United States citizens in the Philippines and the Canal Zone will still be able to communicate with amateurs here.

This ruling will have no effect upon the amateur contest announced in this issue of Radex, except of course that the contest will be more difficult since many foreign stations will no longer direct their beam aeri-als in our direction, and many for-tongues whereas formerly they have employed English when talking with us.

The Grand National SWL Club is an organization for SWL card swap-pers, and only those who will agree to exchange card for card will be ad-mitted to membership. Particulars may be obtained from The Grand Na-tional SWL Club, Box 141, Station V, Cincinnati, Ohio.



The QSL card of ZL4GY, printed in black, and the map in red.

## Federal Communications Com-mission Makes 40 Wide-band Channels Available to New Broadcast System; Sees Business Benefits in its Development

Hailing frequency modulation as "one of the most significant" contributions to radio in recent years and declaring that FM broadcasting on a commercial basis is desirable in the public interest, the Federal Communications Commission has announced the availability of the frequency band of 42,000 to 50,000 kilocycles for that purpose. This will provide 40 FM channels, each 200 kilocycles wide—35 to regular high-frequency broadcast stations and 5 to non-commercial educational broadcast stations.

"Frequency modulation is highly developed," declares the Commission in unanimous report. "It is ready to move forward on a broad scale and on a full commercial basis. On this point there is complete agreement among the engineers of both the manufacturing and the broadcasting industries. A substantial demand for FM transmitting stations for full operation exists today. A comparable public demand for receiving sets is predicted. It can be expected, therefore, that this advancement in the broadcast art will create employment for thousands of persons in the

manufacturing, installation and maintenance of transmitting and receiving equipment and the programming of such stations."

At the same time the Commission points out that there was agreement among witnesses at its recent hearing that this new service will not supplant the service of standard broadcast stations generally and that, therefore, FM will not make obsolete the receivers now in use. Standard broadcasting is on an entirely different frequency band from that to be occupied by frequency modulation. FM will not interfere with it. Present standard broadcasting will continue, and certainly for a number of years will render full service. The extent to which in future years the listeners will be attracted away from the standard band cannot be predicated. Testimony at the hearing indicated that manufacturers will provide receiving sets capable of receiving both services.

The chief claims for FM are that it gives more fidelity and less interference than standard broadcasts. The principles of frequency modulation has long been known but its practical use was not demonstrated until recently.

There was unanimous agreement at the March hearing that FM is superior to amplitude modulation for broadcasting on frequencies above 25,000 kilocycles. The use of a wide band of frequencies makes possible a reduction of noise to a greater extent than attained with narrow-band standard broadcast. There was testimony that a band width of less than 200 kilocycles can be used for FM, but this lessens the noise-discriminating quality which has been established by experimental operation with the wide channel. Testimony advocating the narrower band width was not supported by experience use of facsimile transmission on the same channel. The Commission believes that regular program service should begin on a 200-kilocycle band basis

which can be conveniently reduced if developments warrant. By adopting the wide-band FM channels at this time, it will be possible for the public to continue the use of receivers designed for wide-band reception even though narrower channels may later be authorized.

The opening of a new band for commercial broadcast will help to correct numerous defects and inequalities now existing in the standard broadcast system. These inequalities result from the scarcity of frequencies, their technical characteristics, and the early growth of broadcasting without technical regulation. There is today a lack of stations in some communities, and other communities do not have sufficient choice of program service. The establishment of the new broadcast band in the higher frequencies will enable many communities to have their own broadcast stations.

Experimental operations show that FM stations can operate on the same channel without objectionable interference with much less mileage than is possible with standard broadcast stations. FM has the ability to exclude all except the strongest signal. Also, FM stations require much less mileage separation than do standard broadcast stations. The service range of FM stations, though limited, will in many cases be greater than obtained from the primary service of comparable standard broadcast stations.

The licensing of classes of standard broadcast stations in the same area with different frequencies and different power has resulted in a wide disparity in the extent of service to the public. The system of classification now employed for standard broadcast stations will not be used for FM stations. The rules and regulations and engineering standards to be issued for FM in the near future will enable applications to be made for facilities to serve a specified area. FM stations will be rated on the basis of

coverage rather than power. Competitive stations in the same center of population will be licensed to serve the same area.

The present situation of certain standard broadcast stations having large daytime coverage and restricted nighttime coverage on duplicated channels will be avoided. The coverage of FM stations will be substantially the same both day and night. However, FM stations do not have the long-distance coverage of the present high-powered clear-channel standard broadcast stations. The latter may be required indefinitely, for widespread rural coverage. But for covering centers of population and trade areas, the new class of station offers a distinct improvement.

The Commission deems it in the public interest to allocate a contiguous band of frequencies to accommodate both commercial and educational FM stations. The band between 42,000 and 50,000 kilocycles is particularly suited for this service. Under the new allocation, the same number of frequencies heretofore assigned to non-commercial educational stations has been retained, the only change being that the position of such stations has been moved 1000 kilocycles higher in the spectrum. This arrangement permits the same receiver to be used for the two services. The three educational institutions now authorized to use amplitude modulation in the non-commercial band can continue to do so, but the Commission hopes that subsequent applicants for non-commercial educational broadcast facilities will find it economic and otherwise preferable to utilize FM.

Applications for FM broadcast stations will be considered by the Commission when revised rules and regulations are promulgated, and new application forms made available. Meanwhile, pending applications for high-frequency broadcast stations on an experimental basis, filed under the old rules and regulations, will be dis-

missed without prejudice and the way opened to file new applications for either experimental or regular FM broadcast stations, which may include the simultaneous transmission of facsimile programs, when the new regulations are announced. Likewise, authorization of existing high-frequency experimental stations are terminated by January 1 next, also without prejudice, for the filing of new applications for either type of service.

### How Frequencies Were Reallocated

Readjustment of the ultra-high radio frequencies to provide the 40 FM channels between 40,000 and 50,000 kilocycles, as well as seven channels below 108,000 kilocycles for television service, is pursuant to allocations contained in Commission Order No. 67.

The solution to finding space in the crowded radio spectrum for the needs of these two services was achieved with the cooperation of the Inter-department Radio Advisory Committee in shifting Government frequencies. This committee, representing 13 Federal agencies, advises the President in allocating radio channels for Government use.

The arrangement gives private services priority rights between 60,000 and 66,000 kilocycles and between 118,000 and 119,000 kilocycles in exchange for relinquishment to the Government of the bands 41,000 to 42,000 kilocycles and 132,000 to 140,000 kilocycles.

In addition the Commission discontinued television service in the present television channels Nos. 1 and 8 (44,000-50,000 kilocycles and 156,000-162,000 kilocycles respectively). Accordingly, old television vision channel No. 2 will be assigned from 60,000 to 66,000 kilocycles. Former television channel No. 8 (156,000-162,000 kilocycles), together with frequencies between 116,000 and 119,000 kilocycles, will be used to replace the assignments in the band

132,000 to 140,000 kilocycles. There is no change in the other eleven channels comprising the 162,000 to 300,000 television band.

The new allocations become effective immediately on a limited basis. After January 1, unlimited operation may be authorized. Regular commercial service employing wide-band FM, which may include the multiplexing of facsimile transmission simultaneously with aural broadcasting, will use the 43,000 to 50,000 kilocycle band, and non-commercial educational broadcasting stations are given the new frequencies 42,100, 42,300, 42,500, 42,700 and 42,900 kilocycles. This provides a continuous band for FM thus assuring a degree of uniformity in the quality of the different frequency modulation channels and tending toward simplicity and economy of FM receiving sets.

The rearrangement permits the Commission to maintain seven television channels below 108,000 kilocycles and at the same time provide an adequate number of channels for frequency modulation. It expects these and other services to benefit by the changes.

It points out that sky wave interference on frequencies immediately below 50,000 kilocycles is greater than on the higher frequencies. While it likewise recognizes that shadows and fading become more pronounced as the frequency increases, it nevertheless believes that such factors are not substantially different on frequencies in the vicinity of 60,000 kilocycles. Furthermore, it is now most acute on frequencies immediately below 50,000 kilocycles. Thus, by allocating 60,000 to 66,000 kilocycles instead of 44,000 to 50,000 kilocycles to the television service, a good balance has been achieved between the effects of sky waves and diathermy interference on the lower frequencies and the effects of shadows and fading on the higher bands.

The miscellaneous radio services now assigned frequencies between



Henry Bennett of Collingswood, N. J., submits this card from XERA as proof of the fact that this Mexican station does verify. It is printed in red and black.

132,000 and 140,000 kilocycles will benefit by the changes in that 9,000 kilocycles are now allocated where formerly only 8,000 kilocycles were available. This can provide 70 channels as compared with 57 channels in the past. The change has the further advantage of providing two large blocks of frequencies for experimentation with different propagation characteristics.

"In considering these changes," explains the Commission, "it was necessary to weigh the particular needs and problems of the various non-Federal services as well as the Government's requirements, and to determine the permissibility of the allocation under our international undertakings; also to have regard for the future of radio operation in the services involved, from an international standpoint, so far as could be foreseen. The changes should result in improved service for all stations which are affected by the Commission's order and will fully meet the varied situations presented of a national and international character."

The channels made available by Order 67 to FM broadcast stations, including the multiplexing of facsimile transmission simultaneously with



# Radexing with the Radexers

Interest continues to run very high in the Supremacy listings. The past few months have found the Old Timers Supremacy receiving more than its share of entries; in fact so many changes have occurred that we are omitting the Countries Verified listing in favor of the Old Timers this month. A few DXers are apparently harboring a misconception of our Supremacy rulings. The Supremacy listings are for verifications received for reception on the standard broadcast band only!

**SUPREME SUPREMACY:** For the total number of stations verified—**not heard:**

Becker	1036
Forestieri (R133)	1028
Horton (R1305)	981
Walker (R1643)	890
Botzum (D42)	825

**BEGINNER'S SUPREMACY:** Total number of stations verified by DXers who have been DXing two years or less.

France (R701)	20 mo.	475
Richards (R101)	12 mo.	286
F. Lee (R695)	14 mo.	223
T. Lee (R1631)	5 mo.	127
Grannes (R1630)	9 mo.	116

**OLD TIMER'S SUPREMACY:** For the oldest dated verification.

Podall (R946)	Nov. 1916
Barnhart (R1620)	Feb. 1923
Causse (R1117)	Mar. 1925
Balt (R964)	Sept. 1927
Diedrich	Nov. 1927

**T. P. SUPREMACY:** For the most Trans-Pacific stations verified:

Reichardt (R1633)	84
Tarr (RT)	50
Botzum (R42)	25
Lippincott (R168)	15
Burnham (R1632)	15

**T. A. SUPREMACY:** For the most Trans-Atlantic stations verified.

Reichardt (R1633)	158
Botzum (R42)	33

Readers living in the Eastern and Central Standard Time ones may send their reports direct to

Ray LaRocque  
4 Wachusett St.,  
Worcester, Mass.

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Forestieri (R133)	23
Lippincott (R168)	18
Burnham (R1632)	13

**S. A. SUPREMACY:** For the most South American stations verified.

Reichardt (R1633)	35
Botzum (R42)	32
Forestieri (R133)	19
Burnham (R1632)	15
Daneker (R1122)	7

And there, friend readers, are the standings to date! Listings omitted are **COUNTRIES VERIFIED**, **NORTH AMERICA**, and **U. S. SUPREMACY**. Most interesting of all entries were those in the **OLD TIMER'S SUPREMACY**. It will be noticed that there is an entirely new set of names appearing in this department this month—the new entries having been so numerous and good enough to entirely surpass the complete roster shown last month.

The entries also brought about the discovery of a veri dated November 20, 1916 from the Columbia Graphophone Corp. Bertram Podall of Gilman, Vermont entered this one. John C. Barnhart recalled some old time thrills as he entered a set of verifications heard in 1923 on a crystal set. No doubt there are more old veries in the possession of our readers which can squeeze themselves into these listings. We'll be interested to see what the next two months will bring in the way of old verifications.

## THIS 'N' DATA

Three Texas stations bit the dust as the commission ruled KTBC, KNET, and KRBA off the air. The ruling is the result of the commission's finding

that the construction permits of the stations were obtained under misleading representation regarding ownership. . . . The following readers want to go on record as being in favor of Tom Moss' suggestion regarding stationery, seals and buttons: Jack Stephenson, Oklahoma City, Okla.; James O. Weaver, Elkhart, Ind.; Charles A. Mills, Strathron, Ontario; and Melvin Fisher, Berkeley, Calif.

Henry Bennett, R1342, 644 Atlantic Ave., Collingwood, N. J., is anxious to know the status of WSAL in Salisbury, Md. . . . For Ralph Bates—Joseph Janato, R843, Astoria, N. Y. has received a cream colored veri from XERA with call in large red letters. . . . A mystery to be solved! Howard Perkins (R838), Cleveland, Ohio would like to know the call and location of station which tested on April 19 on 1370 kcs. The station was tuned at 2:25 a.m. Music was played with no announcements. If you have the answer, write Howie at 1256 East 111th St.

Sam Cade (R1708), Franklin, Indiana is puzzled by the strange Cuban interfering with WOWO . . . "I received replies from Eugene Francis and Bob Brown in response to my query about the 640 kcs. Cuban. The Correct call is CMKN in Santiago"—James O. Weaver.

In order to remedy the many problems of stations in St. Louis and vicinity the FCC has made some very drastic shifts, resulting in improved service by all stations. KSD gets full time on 550 kcs. as KFUE leaves that channel for a spot on the 830 kcs. channel where it will be limited to daytime hours. WGBF and KFRU will both vacate 630 kcs. to make room for KXOK which will move there from 1250 kcs. The Evansville station will take over the 1250 kcs. channel, while KFRU will go to 1370 kcs. with 250 watts full time. KWK will remain on 1350 kcs., but will increase power to 5 kw. . . In-

cluded in the log of H. W. Hartley (R1535) are such catches as 2YH, JOHK, KZRM, and JOAK-2.

Another query! This one from Hal Robie (R1691), Springfield, Mass. The station in question was on April 7 from 2:15-2:58 a.m. Language was Spanish and it was believed that Guatemala was mentioned on the broadcast. The station was in the vicinity of 1140 or 1150 kcs. and signed with a march which might have been a national anthem. This column will appreciate your letter if you can help Hal.

#### P. O. BOX R9

DECORAH, IOWA—Merlin Steen, Route 6: "I would like information about the following stations; that is, when they were established, and when they have a test program, if any: WORC, WTAG, WCOP, WGAN, WCSH, WDAE, WDRC, WTBO, WORK, WGAL, WCLS, WCRW, WABI, and WEEL."

OKLAHOMA CITY, OKLA.—Jack Stephenson: "For C. R. Bendes: XENT does verify. It is a white card, printed in black and has a picture of the station on it. I want to welcome my city colleague, Ernest R. Forrester into the inner circle of DXERS."

BROOKLYN, N. Y.—Ed Medric, 1302 Troy Ave.: "Having just purchased my first copy of RADEX. I find it very interesting and helpful. I was a nightly listener of XERA and XEAW. I noticed the shift of XERA, but did not find out about XEAW until I read about it in RADEX. Before reading RADEX, I thought my receiver was faulty! My receiver is an RCA AC-DC table model using five tubes with loop antenna."

EDMONTON, ALBERTA—Harold Shortridge, 11341 94th St.: "I now have a small library of fifteen issues of RADEX and they sure are an encyclopedia of information for the DXER. I have had to turn to the back numbers many times for in-

formation. In the latter part of February and the beginning of March, the TA's and TP's were plentiful here. I sent letters to 2YA, 1YA, 4QN, MTCY, JOBK-2, 5CK, and the Home Service station on 767 kcs., as well as Rennes. When I found out that it was possible to log these stations on the broadcast band, you couldn't make me go to bed."

VALLEY STREAM, N. Y.—Edgar Newman, 214 Munro Blvd.: "In two weeks I have heard 42 stations with veri requests out to 28 of them. I have received 21 replies from 14 states. WOAI replies with an illustrated folder, and WCKY also sends an illustrated brochure showing employees of the station, studios, stars, and executives."

SCHOFIELD BARRACKS, HAWAII—M. L. Gibson, Division Signl Office: "Among the sttions heard here are WJR, WJZ, WBAP, WCCO, WBRC, KFAR and many west coast stations. I am using an inverted "L" antenna with a rebuilt 1939 Howard 638 receiver. The antenna is about 100 feet long, and is directional to the states. I find that reception of mainland stations is much better here during the winter months, but the short wave stations seem to be consistent. I started DXing last November and need only sixteen states to have heard every state in the union."

JOHNSON CITY, TENN.—Bill Scott (R626): "I would like to get in touch with DXers in this immediate vicinity."

WILDWOOD, N. J.—Frnk B. Lee (R695), 222 E. Maple Ave: "Reception here was marred this season by atmospheric conditions which ruined real DX reception 75% of the time. The past month (March) was terrible. Static and weak signals predominated throughout the whole month. This past season cannot compare with the previous season (1938-39). The boys who did not get in last year missed a golden opportunity.

Here's hoping the coming year holds in store for us another season like 1938-39."

HAMILTON, OHIO—Joseph J. Becker, Sr., 415 S. 11th Street: "In the U. S. A. I need KTUC, WTMC, KWAL, WTRY, KBPS, KBND, KBKR, KUIN, KVNU, KOVO, WFVA, KVOS—12 active stations yet to be logged. Not active yet, but with call letters assigned, I need 45 stations!"

ORLANDO, FLORIDA — T. E. Smith, Jr., 19 Neola Drive: "On April 15, 1940 I heard a station broadcasting war news on about 1500 kcs. The announcer had a decided British accent and kept talking of 'here in London'. This station was heard from 11:14 p.m. to 11:29 p.m. when it faded out. Can anyone tell me what station I heard?" (We'd say that the time heard would lead one to believe that it was some domestic rebroadcasting the BBC news—which U. S. stations are now permitted to do according to a new FCC ruling—RL)

KANSAS CITY, MO.—Laurence O'Connor (R760): "I do most of my DXing on the broadcast band and to date I have heard 200 American stations including 5 Canadian and 6 Mexican stations. I have verified 61 of these and letters are out to four other stations."



XEMO, broadcast band station in Tijuana, Lower California, verifies with the card shown above. It is printed in green. (Courtesy of Weston Richards, Zion, Ill.)

BALTIMORE, MARYLAND—Henry Wilkinson, Jr., Birch Ave., Arbutus: "I DX'ed when there was so much criticism over the fact that two DXers in Eastern Pennsylvania tuned in two or three TP's on their small home built set of 3 tubes. I haven't many foreigners in my log but have several good catches among my North American stations. Log includes, 4RK, 3AR, 4QG, HIX, HHK, ZNS, YV1RC, LS-2, LR-8, LR-8, LR-5, CP-4, CX-26, LR-1, I-1TR, I-1MI, I-1TO, VE9EK, 10-BQ, 10-BQ, 10-BP, 10-AB, KFPF, WKAQ, WNEL, WPRA, TGW, Heilsburg, Radio Normandie, and Poste Parisien. This log was compiled in about two and a half seasons of DXing. Next fall will find me back in the 'ranks' again, if I can get suitable bearings."

PITTSBURGH, PENNA.—C. R. Bendes (R1132): "After DXing for three months, I got my first copy of RADEX in January, 1939. Since then I have raised my broadcast band log from 35 to 321! I like the idea of Tom Moss regarding RADEX Club stationery."

BERKELEY, CALIF.—"I began DXing last fall, buying my first copy of RADEX at the same time as I purchased my new 7-tube Philco—since then traded for a 12-tube Zenith. I have not missed a single copy of RADEX since that time. It is the only radio magazine I have ever seen that gives both information and interesting reading matter at the same time—the ideal combination for the radio listener who usually knows very little of the technical side of radio. . . . On the BCB, my first season has far exceeded my expectations—330 stations have been logged, with 84 verified, including 4QS, WKAQ, CBL. Heard, but not logged were JOAK-1, JOBK-1 JOHK, JOIK, JOAK-2, 2YA, 1YA, 3YA, 4YA, 2YC."

LESTER, PENNSYLVANIA—Roger Causse (R1117): "I used to do my DXing in the old days mentioned by Frank S. Macolly of Philadelphia and I have verifications from most of the old-timers he mentions, such as AT-9, KOP, WEAM, WOAX, PWX, CJCM, 6KW, WOO, WQJ, CNRV, WABZ, KTNT, KFNF, KNRC, etc. I heard G5SW in 1924, but did not verify him till years later. I also verified AGC—Berlin, RUS—Salvador, HRB—Honduras, NBA—Canal Zone, all before 1930. I wonder if anyone else has a veri taken from NBA on the broadcast band? I logged KUJ in Longview, Wash. when it was using but 10 watts and KFPW in Arkansas when it had but 7½ watts!"

TROY GROVE, ILLINOIS—Ray H. orn: "I left off DXing five years ago, but lately I've taken to reading RADEX again. I find the short waves fascinating and full of surprises, but I'm not going in for verifications. I have about 230 old veries from 1931-36—mostly broadcast band stations, including some good ones like 10-AB, XFX, 1YA, YV-12RM, KGU and two diplomas from CX-26. I have Radio Service Bulletin for 1934, '35, '37 complete to trade for a travel book or detective novels."

## COVERING THE CONTINENTS

### Domestic Dialings

Komments from the K District: KWYO verifies with a photo of its tower . . . KFAB on 770 kcs. uses 10 kc. It belongs to the Central States Broadcast System which also owns KOIL and KFOR . . . KMA has a 488 ft. self-supporting tower. No postage is necessary for verification. (Le Roy Swanson, R1152, Chariton, Iowa)

KGCA in Decorath, Iowa on 1270 kcs. is absolutely deleted . . . KCRC in Enid, Okla. have a DX program the third Wednesday of February, April, June, August October, and December from 1:00-5:00 a.m. Send re-

ports to Herman Kramm, Engineer . . . KSAL at Salina, Kansas was testing their new 1000 watt transmitter on their new frequency of 1120 kcs. on March 19 . . . KPOF in Denver have a test program from 2:45-3:15 a.m. on the second Friday of each month. They have no printed verification, but verify by postal in handwriting . . . KID on 1320 kcs. at Idaho Falls, Idaho have a test program on the second Sunday of every month from 3-3:30 a.m. They also have a very nice veri card! (Merlin Steen, R814, Decorah, Iowa)

KOAM on 790 kcs. verified in less than a week with a postal type card, printed in black. It is signed by R. L. Jones, engineering staff. They use the slogan, "The Four State Station" . . . KWTO signifies "Keep Watching The Ozarks" (Jack Stephenson, R1470, Oklahoma City, Okla.)

KGIR on 1340 kcs., KRBM on 1420 kcs., and KPFA on 1200 kcs. heard with good signal strength through WEDC—all carrying the Montana Boosters Program after 3 a.m. . . KFI's audio frequency test was received on my small table model and it picked up as high as KFI transmitted . . . KOCY on 1310 kcs. and KICA on 1370 kcs. heard on May 14 at 5:32 a.m. after it had become daylight. (James O. Weaver, R1397, Elkhart, Indiana)

KGFL on 1370 kcs. at Roswell, N. Mex. has not verified a Newark News Radio Club report (or any other, so far as known) since 1938! . . . (Eugene Francis, Bronx, New York)

KFUO put on a DX show on December 9 and another DXer in Pontiac, R. I. and myself were the only reporters from Rhode Island. We received a copper ash tray for souvenir. (Phillip Potten, R1547, Washington, R. I.)

W's In The East: WBOW in Terre Haute is on 1200 kcs., not 1310 kcs. They changed frequency at the same time as WJBL changed to WSOY on 1310 kcs. . . WDLF on

1200 kcs. at Panama City, Florida had its initial test on March 18—veri card is nice . . . WFIG in Sumter, S. C. on 1310 kcs. was heard on equipment test March 5, 6 and 7th. (Merlin Steen, R814, Decorah, Iowa)

WNYC is now on daily until 8:30 p.m. . . WISE on 1370 kcs. is on every Sunday morning from 2-4 a.m. instead of Tuesday from 1-3 a.m. They offer woven material for a suit of clothes to most distant listener. . . WHLD on 1220 kcs. was heard on equipment test on March 24 . . . WSLB had their equipment test on March 23. (Theo. J. Neider, R796, Sea Cliff, N. Y.)

WSAL was heard on February 28 from 1:25-1:36 at the conclusion of a test program. They verified with a card in four days . . . WBBS verified with a postcard of a statue of the Pioneer Woman which was unveiled by Will Rogers in 1930! The letters are penned on the front of the card. (Charles A. Mills, R1667, Ontario)

WBRU was the call first assigned to the Brunswick, Georgia station. In two weeks they (the call letters) were changed to WMOG. This to correct an item by a reader. (William Cunningham, Hollywood, Calif.)

WJHL comes on at 6:38 a.m. week days and off at 11:15 p.m. On Sundays they sign on at 7:00 a.m. and go off at at 10:30 p.m. They will verify all correct reports for return postage. (Bill Scott, R626, Johnson City, Tenn.)

WISE verification just received. It's a colorful postal with a view of Mount Pisgah and "The Rat" as seen from the grounds of the Asheville School in Western North Carolina. Call letters are in black in the left hand corner along with a wise old owl. (Hal Robie, R1691, Springfield, Mass.)

WEEU in Reading, Pa. was verified at 3:30 in the afternoon with no interference from WHDH! The only time I can hear WHDH is at night! (Phillip Patten, Washington, R. I.)

WLAC is a member of the Colum-

bia Broadcasting System. It is not listed as such in RADEX. (Gerald Harris, R739, Kansas City, Kans.)

WHIS on 1410 kcs is the voice of the great Pocahontas coalfields, which usually ships to the world's markets 30,000,000 tons of the finest bituminous coal. The station is 2612 feet above sea level. (Le Roy Swanson, R1152, Chariton Iowa)

WBNX has announced that they are using 5000 watts now. . . WHOM on 1450 kcs. will increase to 500 watts. WQXR will jump to 5000 watts on August 1. . . WOV has begun broadcasting from its new 350 ft. toploading antenna system on May 1. (Joseph Janata, Astoria, N. Y.)

WSLB on 1370 kcs. in Ogdensburg, N. Y. has tested a short time each morning for the past ten days. . . WOLF is now conducting tests. They are located in Syracuse, N. Y. (Eugene Francis, Bronx, New York)

WBOW has changed to 1200 kcs. (Sam Cade, Franklin, Indiana—R1708) program director Ben Bezoff. The station uses 1260 kcs. and is now operating commercially. (Conrad J. Klauk, Buffalo, N. Y.)

WBHP's veri is signed by Victor C. Bankowsk. (H. H. Whittier, Mansfield, Mass.)

WTMV in East St. Louis is on daily from 7-1 a.m. . . WIL is on from 8 a.m. till 3 a.m. the following day. . . WEW schedules can be written in sevens, Daily 7 a.m. to 7 p.m. 7 days a week. (Walter V. Scholz, 2nd, R9, Mo. 1, Webster Groves, Mo.)

**Bahama Islands:** ZNS operating on 790 kcs. was heard on a Saturday night with R7 signal. They were heard at 7:30 with a relay of London. After the program, the announcer spoke, "This is Nassau calling," then a weather report was heard. (John D. Long, R1273, Ga. 5, Dalton, Ga.)

**Canada:** CKCD and CKFC are deleted. CJOR and CKWX have construction permits for 1 kw. with CKWX moving to 950 kcs. This might be changed if KFIO's application for 950 is granted. (William Cunningham, Hollywood, Calif.)

CFRC in Kingston, a 100 watter was heard with powerful signal and verified. (Harry M. Bracken, R1429, Yonkers, N. Y.)

CFCF sent a veri from CFCX in response to my request! (Theo. J. Neider, R796, Sea Cliff, N. Y.)

CKCD, CKMO, and CKFC have been ordered to cease broadcasting. CKCD has already done so. (James Dagg, R1539, British Columbia)

**Newfoundland:** VONF uses 10000 watts and VOWR is on 680 kcs! You might as well list VOMA, Battle Harbour, Labrador, as after all it is a station, no matter how small! (William Cunningham, Hollywood, Calif.)

**Argentina:** LRA on 750 kcs. tests often after 3 a.m. Power is 30 kw! (Harold Tear, R924, Roanoke, Va.)

**Colombia:** HJCR on 1200 kcs. heard at 4 a.m. when 1200 kcs. was clear. They use 5 kw. (Harold Tear, Roanoke, Va.)

HJBJ on 1140 kcs. in Santa Marta was heard from 2:35-2:56 a.m. This was a special test program and the average signal was R7-8. (James O. Weaver, Elkhart, Ind.)

HJAN is the call of the 1190 kcs. Colombian! (Norman L. Maquis, R636, Bethlehem, Pa.)

Thanks for a complete list of Columbian broadcast stations to Arthur Parfitt, Cleveland, Ohio.

**Cuba:** CMBY is on 1410 kcs. and never uses 1180 kcs. CMBX and CMBG are on 1180 kcs. . . CMKG is on 1150 kcs. and there is not any permission from the Cuban government to broadcast on 990 kcs. . . CMCH never has been on kcs., but

1050 kcs. Perhaps the reader has heard CMBH on 1580 kcs. off frequency. (Jose Carriazo, Jr., Havana, Cuba)

CMBZ and CMCU increase to 5 kw., and CMBG to 1½ kw. . . CMJL is call assigned to Nuevitas station, while CMKB goes to the new one at Puerto Padre. . . Nine new Cubans owned by the Cadena Radio Habana: CMAN, Pinar del Rio (570), CMKV, Holguin (570), CMJN, Camaguey (610), CMKN Santiago de Cuba (640), and CMGN Jovellanos (740) are on the air. CMKU at Victoria Tunas (730), and CMKJ at Guantánamo (760) are still under construction. CMHN at Santa Clara (730), and CMJM Ciego de Avila (870) are testing. . . . CMQ's new chain station are at Santa Clara and Santiago de Cuba. No call letters assigned as yet. . . CMAC at Pinar del Rio on 1030 kcs. with 100 watts is a new station. . . CMKE at Manzanillo is another new one to use 1310 kcs. with 200 watts. (William Cunningham, Los Angeles, Calif.)

Mexico: XEON on 920 kcs. with 2000 watts is a new one being heard. They sign off at 1 a.m. and give mailing address as Box 101, San Diego, Calif., or Box 115, Tijuana, Mexico. . . XEY on 1450 kcs. at San Luis, Mexico gives their mailing address as Yuma, Arizona. . . XEAU on 1400 kcs. at Tijuana is another new one. (Jim Wilson, R1639, Maywood, Calif.)

XERA, now on 960 kcs., and XEAW, now on 1020 kcs. are asking for reports. (Vernon Lee Gibbs, Jeffersonville, Ky.)

XENT's veri states that they are licensed for 150000 watts, but are using 75-100 kw. XENT's veri card shows pictures of studios and antenna towers. (Sam Cade, Franklin, Ind.)

XENT is heard on 900 instead of 910 kcs., XERA on 920 instead of 840 kcs., and XEAW on 1010 instead of 960 kcs. Is this the new reallocation already? (Mexican high power

border stations are not allowed under the new allocation, so this is evidently not part of the new frequency allocation plan—RL) (Don C. Johns, 1342 Campbell Ave., Desplaines, Ill.)

XEAZ in Reynost with 250 watts on 1490 kcs. is a new station. . . XEKF at Merida on 1450 with 100 watts is another new one. . . XEK and XEAF have increased to 1000 watts. . . XEDF moves to 1240 kcs. . . XEAM and XEI change to 250 watts soon. . . XEBC, XEPN, and XEDD are deleted. . . XEH is using only 100 watts. Other stations using less power than authorized are XES—100 watts, XEBW—50 watts, XELO—10 kw., XENT—50 kw., XERA—180 kw. (William Cunningham, Los Angeles, Calif.)

XENT veri card shows exterior view of XENT. (Joseph Janata, R843, Astoria, N. Y.)

XEAW reports should be sent to XEAW, 912 Commerce St., Dallas, Texas. (Merlin Steen, R814, Decorah, Iowa)

XEL on 1150 kcs. heard many times in the early mornings with definite announcement. (James O. Weaver, R1397, Elkhart, Ind.)

XEJS on 1240 kcs. with 100 watts at Cananea is another new Mexican. The new XEON in Tijuana on 920 kcs. is on the air as is XEAU. . . A broadcast band station of 1000 watts is being erected at Morelia by the owner of shortwave XEKW. The new station will work in parallel with XEKW. . . Although the State of Veracruz stations are "temporarily suspended", every indication is that they will be back with us again. They are still in the official list of Mexican Broadcast Stations. (William Cunningham, Hollywood, Calif.—2nd report)

### Tuning The TA's

All of the notes on European broadcast band radio are furnished

by two letters from Anton Jansen, Boskoop, Netherlands. Both letters, mailed before the invasion of the Netherlands did not reach here until after the papers carried the news of the plight of the little lowland country. No information has been forthcoming from RADEXER Jansen since that time, and it is ours as well as the hope of all DXers over here that he has suffered no harm or personal loss.

**Bulgaria:** "Radio Sofia" on 850 kcs. (100 kw.) usually transmits daily until 4:30 p.m. signing off with two Bulgarian national anthems. . . Stara Zagora on 1402 kcs. with 2 kw. has same schedule. Station announcements are made in Bulgarian, French, and German. Announce in Bulgarian as "Radio Sofia, Stara Zagora, i Varna" . . . Varna on 1276 kcs. with 2 kw. also operates in parallel.

**Czechoslovakia:** Last month I mentioned that Troppau is apparently the former Czechoslovak station Moravska Ostrava. Since then I have heard the Prague announce as "Praha, Moravska Ostrava." Apparently both stations are working in parallel—so there must still be a Moravska-Ostrava. . . It might be possible that the Banska Bystrica station on 392 kcs. is now called Moravska Ostrava and that the former Moravska Ostrava station is now called Troppau, and used as a relay transmitter for Breslau. As will be noted on a map, Troppau and Moravska Ostrava are very close to each other Geographically.

**Denmark:** Kalundborg on 240 kcs. is still operating normally as are all other Danish stations.

**Finland:** The frequency of Finnish broadcast stations have been shifted, but do not affect the stations in the rest of Europe as they merely interchanged wavelengths among themselves. Helsinki is on 1420 kcs., Turku is on 895 kcs., Vassa on 527 kcs., Pori is still on 749 kcs., Tampere is on 1528 kcs., Kuopio is on

527 kcs., and Pietersaari is on 1492 kcs. This leaves Jonsuu and Lahti for longwave stations on 967, and 1807 meters respectively.

**Germany:** Saarbrucken is apparently still operating and not out of service as mentioned in my last report. On announcement heard through Cologne, the stations as Stuttgart, Frankfort, Saarbrucken, Cologne and shortwave DXH-2 were mentioned as carrying the same program. . . . The Hauptsender Lodz 1 on the wavelength of the destroyed longwave station at Warsaw on 224 kcs. is no longer heard, and "Bremen II" is being heard on this frequency. It is more than probable that the transmitter was never at Lodz, but merely announced as such.

**Norway:** It has been announced in the radio publications that the evacuated Norwegian Government had installed a radio station on 519 kcs. with no power or location indicated. . . . Longwave station "Oslo" on 260 kcs. is again operating on normal schedule. . . . At the moment of writing most of the Norwegian stations are under German control except some of the smaller ones, such as Bodo, Tromso, etc.

**France:** Several of the French broadcast stations now broadcast only the programs of the French State Broadcasting system and no longer have programs of their own.

**Iceland:** A medium wave transmitter at Eidar should now be in operation on 615 kcs. with 1000 watts. Programs of the longwave station at Reykavik are picked up at Eidar on a high quality receiver and are then sent by cable to the transmitter which re-transmits them.

### TP Topics

**British India:** Stations operating here on the broadcast band are: VUP, Peshawar on 1500 kcs., VUL, Lahore on 1086 kcs., VUD-1, Delhi on 886 kcs.; VUB-1, Bombay on 1231 kcs.; VUW, Lucknow on 1022

(Please turn to Page 94)



## Way Paved For More Television Stations

Full commercialization of television was today promised by the Federal Communications Commission as soon as the engineering opinion of the industry is prepared to approve any one of the present competing television systems. Accordingly, the Commission will promptly license applicants to provide further experiments on the different systems on a comparative basis. Additional cities under consideration by the Commission for television facilities include San Francisco, Los Angeles, Chicago, Washington, Albany, Cincinnati, and Boston.

"There is no room for squatters" in the public domain occupied by television, says the Commission in announcing that these experimental stations will be apportioned among various parts of the country with the view of forestalling any concentration of facilities in particular centers of population to the exclusion of the rest of the country. To further prevent monopoly and promote free competition, there will be strict limitation on the number of stations authorized to any one licensee.

The Commission expects the industry to insist upon such standards as will give definite assurance of satisfactory performance and continuity of service for the public comparable to the continuity of service displayed in the past history of the radio industry.

"Contrary to the experience of other industries which have found that technical improvements were stimulated by large public use in the television field a major portion of the industry takes the view that successful promotional activities at this time can act only as an anchor on experimental efforts to go forward." Premature crystallization of standards, it adds, will "remove the incentive for technical research toward higher levels of efficiency"

Widespread public distribution of sets of a system operating on present levels, the Commission holds, will undermine incentive for further advance in television broadcasting and make frozen television standards an accomplished fact. Under present conditions television transmission will satisfactorily serve only sets designed to receive the number of lines and frames and the type of synchronizing pulse transmitted. Due to this "lock-and-key" relationship of the television transmitter and receiver, substantial changes cannot be brought about once widespread distribution of receivers operating on a particular combination of these factors has locked the system to that level. The Commission explains:

"It is this consideration that distinguishes the development of television from that of sound radio. At the time of the initial distribution of sound radio receiving sets to the public, these sets were capable of receiving all types of radio transmission then being considered. General public use and improvement in radio transmission and reception could,



George Cryder of Delaware, Ohio, an all-wave DXer for a little over two years. He has logged about 600 stations from 16 different countries; heard all states. On the shortwaves he has heard 76 different countries, verified all continents on shortwave broadcast, and verified five continents on the ham bands.

therefore, go forward together without any substantial risk that the distribution of receiving sets would result in freezing transmission standards to the then levels. However, since television receiving equipment adequate to receive transmission on one system would often be incapable or inadequate to receive transmissions by another system, the widespread distribution of such receiving equipment would tend to cause the particular system of transmission to which it is geared to become a firmly rooted and immobile standard."

In May of last year the Commission's Television Committee reported that television had not progressed to a point where it would be in the public interest to adopt standards, and, further that acceptance of any fixed standards would tend to check or retard further progress. Last November this same committee, while noting some progress in television, felt that the industry had not advanced beyond the experimental stage and cautioned that "no interests should be permitted to raise public hopes falsely, nor to encourage public investments where the state of scientific or economic development leaves any doubt that such hopes and expenditures are justified for the use of the public property in the radio spectrum."

A January hearing, which ran for eight days, "revealed a serious conflict of engineering opinion upon the question of standards among the representatives of various responsible elements in the industry engaged in important research and experimental work in the television field." Dissatisfaction with standards which had been proposed by the Radio Manufacturing Association was voiced by Zenith Radio Corporation, Allen B. DuMont Laboratories, and Philco Radio and Television Corporation, which were engaged in research on alternative proposals for which mark-

ed advantages were claimed. Defense of the RMA standards was assumed by the Radio Corporation of America and the Farnsworth Television and Radio Corporation, which claimed superiorities for the RMA system over other known alternatives.

Argument at the January hearing mainly concerned frame frequencies and numbers of lines required in making television pictures, and the type of synchronizing pulse used to transmit such pictures. The RMA proposal of a frequency of a fixed system of 30 frames per second and 441 lines per frame was challenged on the grounds that it does not permit a sufficient picture detail, and that it precludes development of larger pictures. Alternate suggestions involved (1) a flexible frame frequency range of from 15 to 30 frames and a range of between 441 lines and 800 lines per frame, and (2) a frequency of 24 frames per second with 500 lines or more per frame. There was also testimony that further research was under way to develop retentive screens intended to eliminate objectionable flicked and smear in the pictures.

"Although a divergence of engineering opinion existed with respect to the merits and demerits of the various systems in question, the members of the industry appearing before the Commission were in substantial unanimity of the need for the possibilities of improvement in these basic aspects of the television art." As a result, the Commission on February 29 issued a report based on the points raised, formally adopted rules without fixing standards, and opened television to restricted sponsored program service to begin September 1.

# The SHORTWAVE STATIONS.

● The shortwave list, arranged by frequencies in kilocycles, gives the schedules of the shortwave broadcasting stations. When requesting verifications from radio stations, return postage should always be sent. Return postage to foreign countries can be sent in the form of an International Reply Coupon, available at any post office at 9c each. Unused postage stamps from many foreign countries, which can be sent instead of Reply Coupons, are available from the Return Postage Bureau, 85 Francisco Ave., Rutherford, N. J.

Time is Eastern Standard.

Subtract 1 hour for Central, 2 hours for Mountain and 3 hours for Pacific.

4820 YV9RN	Barquisimeto, Venezuela. 11:30 am-1:30 pm; 5:30-9:30 pm.	5460 YNOP	Managua, Nicaragua. 8:30-9:30 pm; Sun. 2-3 pm.
4825 HJED	Cali, Colombia. 7 am-1 pm; 7-10:30 pm.	5725 HC1PM	QQuito, Ecuador. Mon, Tues, Thurs, 8-10 pm.
4825 HJAE	Cartagena, Colombia. 7 am-6 pm; 7-11 pm.	5820 TIGPH2	San Jose, Costa Rice. Noon-2pm; 7-11 pm.
4840 YV4RX	Maracay, Venez. 7-10 pm.	5830 TIGPH	San Jose, Costa Rice. 7-10 pm.
VUC2	Calcutta, India. 6:30 am-12 noon; Snuday, 7:30 am.	TIX	San Jose, Costa Rice. 10 pm-midnight.
4845 HJCD	Bogota, Colombia. 6-11 pm.	5875 HRN	Tegucigalpa, Honduras. 6-11 pm.
4850 YV1RZ	Valera, Venez. 11:30 am-1 pm; 5:45-8:45 pm.	5885 TGXI	Guatemala City, Guat. 8-11:30 pm.
4855 HJCF	Bogota, Colombia. Weekdays, 7 pm-midnight.	HI9B	Santiago, Dominican Rep. 6-11 pm.
4860 YV1RL	Maracaibo, Venez. 11 am-1 pm; 4:30-10:30 pm.	5900 ZNB	Mafeking, British Bechuana-land. 6-7 am; 1-2:30 pm.
4865 HJFK	Pereira, Colombia. 6-10:30 pm.	5936 PJC1	Curacao, N. W. I. Sun. 10:36 am-12:36 pm; week-days 6:36-8:36 pm.
4875 HJFH	Armenia, Colombia. 8-11 am; 6-10 pm.	5940 OAX2A	Trujillo, Peru. Tues, Thur, Sat, Sun, 7-10 pm.
4880 YV1RM	Maracaibo, Venez. 7-9:30 pm.	5960 HI1J	San Pedro de Macoris, Domi-nican Rep. 11:40 am-1:40 pm; 6-8:30 pm.
VUB2	Bombay, India. 6:30 am-noon.	5968 HVJ	Vatican City.
YV6RU	Bolivar, Venez. Weekdays 6:30-9:30 pm.	5975 VONG	St. John's Newfoundland. 4:30-9:30 pm.
4885 HJDP	Medellin, Colombia. 8 am-2 pm; 6-11 pm.	OAX4P	Huancayo, Peru. 9-11 pm.
4890 HJGD	Bucaramanga, Colombia. 5:30-6:30 am; 11:30 am-1 pm; 6-11 pm.	5977 CS2WD	Lisbon, Portugal. 3:30-6 pm.
YV1RX	Maracaibo, Venez. 10:30 am-1:30 pm; 4:30-10:30 pm.	5985 HH2S	Port-au-Prince, Haiti. 6:30-9 pm.
4895 HJCH	Bogota, Colombia. 11:30 am-2 pm; 6-11 pm.	5990 ZEA	Salisbury, Southern Rhodesia. Sunday 3:30-5 am.
4900 YDA	Batavia, Java. 5:30 am.	6000 HP5K	Colon Panama. 7-9 am; 11:30 am-1 pm; 6-11 pm.
YV6RT	Bolivar, Venez. 5:30-9:30 pm.	....	Moscow, U. S. S. R. 3:30-4 pm.
4905 HJAB	Barranquilla, Colombia. 11 am-11 pm; Sun. 11 am-8 pm.	6005 XEBT	Mexico City, D. F. 10 am-1:45 am.
4910 YV1RY	Coro, Venez. 6:30-10 pm weekdays.	VE9DN	Montreal P. Q.
4920 VUM2	Madras, India. 5:30 am-noon.	6007 XYZ	Rangoon, Burma. Sat. 9:30-11:30 pm; Weekdays 6:30-10 am; 9-11 pm.
4940 YV5RO	Caracas, Venez. 7-10 pm.	ZRH	Capetown, Union of S. Africa. 10:45 am-3 pm.
4945 HJCO	Barranquilla, Colombia. 7:30-10 pm.	6010 CFCX	Montreal, P. Q. 7:45 am-1 am; Sunday 9 am-11:15 pm.
4950 YV4RD	Valencia, Venez. Noon-1 pm; 6-9:30 pm.	CJCX	Sydney N. S. 7 am-1:30 pm; 4-8:30 pm.
4955 YV5RH	Caracas, Venez. 6:30-7:30 am; 10:30 am- pm; 3:30-10 pm.	OLR2A	Prague, Bohemia.
4960 VUD2	Delhi, India. 6:30 am-noon.	PRA8	Recife Brazil. 4.9 pm.
YV5RS	Caracas, Venez. 4:30-9:30 pm.	6017 HI3U	Santiago, Dom. Rep. Sun. 12:30-2 pm; 5-6 pm; Week-days 7:10-8:55 am; 11:40 am-1:40 pm; 4:40-6:40 pm.
4975 YV1RJ	Coro, Venez. 5:30-10:30 pm.	HJCX	Bogota Colombia. 9-11:30 pm.
4990 YV3RX	Barquisimeto, Venez. 10 am-9:30 pm.	6020 DJC	Berlin, Germany. 11:30 am-4:25 pm.
5010 YV5RM	Caracas, Venez. 3:30-10:15 pm; Sunday 8 am-10:30 pm.	6023 XEUW	Vera Cruz, Ver. C. 10 pm-1 am.
5020 YV4RQ	Puerto Cabello, Venez. 7-8:30 pm.	6030 CFVJ	Calgary, Alta. 10 am-2 pm.
5035 YV5RN	Caracas, Venez. 4-11:30 pm; Sunday 8-11:30 am; 3:30-10:30 pm.	RV96	Moscow, U. S. S. R. 1-7 pm; 8:30-9 pm.
5145 PMY	Bandoeng, Java, N. E. I. 5:30 am-noon.	6033 HP5B	Panama City Panama. 10:30 am-2 pm; 6-10 pm.
OK1MPT	Prague, Bohemia.		

- 6040 KZIB Manila Beach, Fla. Sun. 4-6 pm. Weekdays 1-3 pm; 9 pm-1 am.  
WRUL Boston, Mass. Sun. 2-9 pm; Weekdays 5:30-8:30 pm.
- 6045 XETW Tampico, Tams. 7 pm-1 am.  
6050 GSA London, Gt. Britain. 12:25-5 am; 5:40-11:30 am; 11:45 am-6 pm; 6:30-8 pm.  
HP5F Colon, Panama. 7-9 pm.  
6055 HJFA Pereira, Colombia. 9 am-noon; 6:30-10 pm.  
VK9MI S. S. "Kanimbla." Sun, Wed, Thurs, 7-7:30 am.
- 6060 WCAB Philadelphia, Pa. Sun, Tues. Fri. 6:30-11 pm; Wed. 6:30-8:30 pm.  
WLWO Cincinnati, Ohio. Sun. 8 am-6:30 pm; Weekdays 5:45 am-Bandoeng, Java, N. E. I. 5:30 am.
- 6070 CFRX Toronto Ont. 7 am-12:30 am; Sun. 10 am-11 pm.  
6080 OAX4Z Lim. Peru. 7 pm-midnight.  
6090 CRXC Toronto, Ont. Sun. 9:30 am-11 pm; Other days 6:45 am-4 pm.  
KZRH Manila, Philippines. 4.11 am.  
XEBF Jalapa, Ver. C. 8-9:30 pm.  
ZBW2 Hong Kong.  
ZNS2 Nassau, Bahamas. 8-9 am; 3-4 pm; 7-9 pm.
- 6095 JZH Tokyo, Japan.  
6097 ZRJ Johannesburg, Union of S. Africa. 3-7 am.
- 6100 WNBI Bound Brook, N. J. 8:45 pm-1 am.  
YUA Belgrade, Jugoslavia. 12:45-2 pm; 2:20-4:20 pm.  
6105 HJFB Manizales, Colombia. Sat. 5:30-11 pm; Sun. 2:30-5 pm; pm; Other days 5:30-10 pm.  
6110 XEGW Mexico City, D. F. 11 pm-1 am.  
6112 HI6H Trujillo, Dom. Rep. 5-8:30 pm.  
6116 .... Saigon, French Indo-China. 12:15-12:45 am; 6-10:15 am.  
6117 XEUZ Mexico City, D. F. 9 am-1 pm; 7 pm-2 am.  
6120 WCBX New York, N. Y. Midnight until 2 am.  
6122 HP5H Panama City, Panama. 6-10:30 pm.  
6125 MTCY Hsingking, Manchukuo. 8:30-9:30 am.  
6130 CHNX Halifax, N. S. Sat. 8 am-11:30 pm; Sun. Noon-11 pm; Other days 6:45 am-11:15 pm.  
HS4PJ Bangkok, Thailand. 8-10 am.  
TIEM San Jose, Costa Rica. Sun. 10 am-p pm; Weekdays 11 am-11 pm.  
VLW Perth, Australia.  
6132 COCD Havana, Cuba. Sun. 5:30-8 pm. Weekdays 9 am-10:30 pm.
- 6135 FK8AA Noumea, New Caledonia. 2:30-3:30 am.  
6137 CR7AA Lourenco Marques, Mozambique. Sun. 5-7 am; 10 am-1:15 pm; Weekdays Midnight to 1 am; 4:30-6:30 am.  
6140 OQ2AA Leopoldville, Belgian Congo. Sunday 5:30-7 am.  
KZRF Manila, Philippines. 4:30-11 am.  
WPIT Pittsburgh, Pa. 9-10 pm; 11 pm-1 am.
- 6148 ZTD Durban, Union of S. Africa. Sun. 11:55 pm-3 am; Other days 11:45 pm-3:15 am.  
am.  
HJDE Medellin, Colombia. 9:30 am-1 pm; 5-11:30 pm.  
YSW San Salvador, E. S. 7-9:15 pm.
- 6152 HI5N Moca, Dominican Rep. 6:40-9:10 pm.  
6150 CJRO Winnipeg, Man. 3:30 pm-1:30  
6160 HJCD Nueva Granada, Colombia. 11:30 pm.  
6170 WCBX New York N. Y. Midnight to 2 am.  
6175 XEXA Mexico City, D. F. 8-11 am; 2:30-4 pm; 7:30 pm-12:45 am.
- 6180 LRA2 Buenos Aires, Argentina. Sat, Sun, 7-9 pm. Other days 6-9 pm.  
6185 TIRCC San Jose, Costa Rica. Tues, Thur, Sat, 6-7 pm; Sun. 8-10 pm.
- 6190 HI1A Santiago, Dom. Rep. 10:40 am-1:40 pm; 6:40-9:40 pm.  
HVJ Vatican City. Sun. 8:30-9 pm; 9-9:30 pm; Sun, Wed, 9:30-10 pm.  
KGEI San Francisco, Calif. Midnight-3 am.
- 6193 TG2 Guatemala City, Guat. 7:30-10 am; 6-11:30 pm.  
6195 HI2D Trujillo, Dom. Rep. 5:10-7:10 pm.  
6200 CP5 La Paz, Bolivia. 6:30-11 pm.  
HI8Q Trujillo, Dom. Rep.  
6215 .... Saigon, French Indo-China. 7:30-9:45 am; 11:45 pm-1 am.
- 6235 HRD La Ceiba, Honduras. 8-11 pm.; Sat. 8 pm.-1 am; Sun. 4-6 pm.  
6245 HIIN Ciudad Trujillo, D. R., 5:10-9:40 or 10:10 pm.  
6255 CPI2 La Paz, Bolivia. 7-9 pm.  
6280 HIIG Trujillo City, D. R., 6:40-8:40 am., 11:40 am.-2:10 pm., 3:40-9:40 pm.
- 6300 OAX4G Lima, Peru. Daily 6-12 mid.  
6310 HIIZ Cuidad Trujillo, D. R., Daily except Sun. 11:40 am.12:40 pm., 5:10-7:40 pm.  
6330 COCW Havana, Cuba, 7:55 am.-12:15 am.; un. 9:55 am.12:15 pm.  
6335 OAXIA Ica, Peru. 8-11 pm.  
6340 HIIX Ciudad Trujillo, D. R., Sun. 7:40-9:40 am., daily 8:10-10:10 pm.
- 6345 HH3W Port-Au-Prince, Haiti, -2, 7-9 pm. Sun. 5-8 pm.  
6357 HRPI San Pedro Sula, Honduras. 6-7:30 am., 2-4 pm.  
6375 COCO Havana Cub. 6:50 am.1 am.  
6380 TIWS Puntarenas, C. R., 5-7, 7:30-10 pm.; Sun. 5-6 pm.  
6384 ZIZ Basseterre, St. Kitts, 4-4:45 pm., Wed. 7-7:30 pm.  
6395 HI9B Santiago, D. R., 7:40-8:40 pm.  
6396 COX7 Havana, Cuba, 2-3, 6-10:30 pm.  
Fri. 8-11 pm. Sat. 8 pm.-1 am.; Sun. 7:30 am.-3 pm.  
6400 TGQA Quezaltenango, Guat. Mon.-Santiago, D. R., 5:40 9:10 pm. Ex. Sun.

H14V	San Francisco De Macoris, D. R., 11:40 am-1:40 pm, 5:10-9:40 pm.	7250 YDA	Tandjonkpriok, Java, N. E. I. Sat. :30 pm-2 am; other days 10:30 pm-2 am.
6455 COHI	Santa Clara, Cuba. 6:42 am-12:15 am.	7258 JVV	Tokyo, Japan. 2-4 pm.
6457 TGWB	Guatemala City, Guat. Daily 7:45-9 am. 12:45-3:45 pm., 7:30 pm., 12:15 am. Sun. 10:30 am-5:15 pm., 7 pm.-12 pm.	7260 CSWS	Lisbon, Portugal. Tues. Thurs. Sat. 5-6 pm. London, Gt. Britain.
6500 HIIL	Santiago De Los Caballeros, D. R., 5:30-9:30 pm. ex. Sun.	7270 DXM	Berlin, Germany.
6540 YNIGG	Managua, Nicaragua, 1-2:30, 8-10 pm. Except Sun.	7280 TPB25	Paris, France. 1-4 am; 10:15 am-4:15 pm.
TIRCC	San Jose Costa Rica. Sun. 11 am.-2 pm., 6-7, 8-9 pm. Daily 12 noon-2 pm., 6-7 pm., Thurs. 6-11 pm.	7284 YN1IP	Managua, Nicaragua. Sun. 10-11 am.
6550 XBC	Vera Cruz, Ver. C., 8:15-9 am.	7290 DIJ	Berlin, Germany. 5-5:15 am.
6558 HI4D	Ciudad Trujillo, D. R., 12:30-2, 6-8 or 9 pm. Except Sun.	7295 JTE	Tawan. 9-10:30 am.
6565 HI5P	Puerto Plata, D. R., 5:40-7:40, 9:40-11:40 pm.	7310 VIG	Port Moresby, Papua. Sat. 3-5 am.
6610 YNLG	Managua, Nicaragua. 1:30-2:30, 6:10:15 pm.	7380 XECR	Mexico City, D. F. Sun. 6-7 pm.
6625 PRAGO	Rio Bamba, Ecuador, Thur. 9-11:45 pm.	7410 HCJB4	Quito, Ecuador. 7-9:30 pm.
6630 HIT	Ciudad Trujillo, D. R., Daily exc. Sun. 12:40-1:40 pm., 4:40-8:40 pm; also Sat. 10:40 pm.-12:40 am.	7440 FG8AH	Pointe-a-Pitre, Guadeloupe. Sun. 9:30-11 am; Daily 6-7 pm.
6635 HC2RL	Guayaquil, Ecuador. Sun. 5:45-7:45 pm., Tues. 9-15-11:15 pm.	7450 TI2RS	San Jose, Cost Rica. 7-11 pm.
6675 HBQ	Geneva, Switzerland. Sun. 1:45-2:45 pm.	7490 EAJ43	Tenerife, Canary Islands. 7-8 pm.
6695 TIEP	San Jose, Costa Rica, 7-Midnight.	7520 KKH	Kahuku, Hawaii. Sat. Sun. 8:30-9 pm.
6720 PMH	Bandoeng, Java, N. E. I. 4:30-11 or 11:30 am. Also Sat. 8:30 pm.-1:30 am.	7614 CR6AA	Lobito, Port. West Africa. Mon. Wed. Sat. 2:30-4:30 pm.
6730 TI3C	La Romana, Dom. Rep., 4:55-8 pm.	7660 YNDG	Leon, Nicaragua. Weekdays 8:30-9:30 pm.
6760 YNRF	Managua, Nicaragua. 6:40-10:40 pm.	7797 HBP	Geneva, Switzerland.
6760 HI7P	Ciudad Trujillo, Dom. Rep., 7:10-8:40 pm. Sun. 9:40-10:40 pm.	7854 HC2JSB	Guayaquil, Ecuador. 11 am-2 pm; 4-11 pm.
6800 PZH	Paramaribo, Surinam. Sun. 8:40-10:40 am. Tues. & Fri. 5:40-8:40 pm. 1st & 3rd Thurs. monthly 6:40-8:40 pm.	7870 HC1RB	Quito, Ecuador. 3:30-11:30 pm.
6810 HIH	San Pedro De Macoris, Dom. Rep., 7-9:40 pm. Sun. 5:20-6:40 pm.	7894 YSD	San Salvador, El Salvador. 7-10:30 pm.
6847 YNOP	Managua, Nicaragua. 8-9:30 pm.; Sun. 2-3 pm.	7968 HSP6	Bannngkok, Thailand. 7-11 am.
6850 XOJD	Hankow, China 6-8:35 am.	8200 PSK	Rio de Janeiro, Brazil. 5:45-7 pm.
6900 HI6H	Trujillo City, D. R., 7:40-8:40 pm.	8580 YPR	Maagua, Nicaragua. 12:45-2:15 pm; 6:45-10:15 pm.
6960 Z2B	Wellington, N. Z., Mid-7 am.	8665 W2XGB	Hicksville, N. Y. 9 am and 5 pm.
6977 XBA	Tacubaya, D. F., 9:30 am-1 pm., 7-8:30 pm.	8700 COCO	Havana, Cuba. 7:50 am-12:50 am.
7010 XPSA	Kweiyang, China. 5:30, or 6-11 am. 5-6 pm.	HKV	Bogota, Colombia. Tues. Fri. 7-7:20 pm.
7100 FO8AA	Papeete, Tahiti. Tues. and Fri. 11 pm-12 mid.	8830 COCQ	Havana, Cuba. 7:30 am-midnight.
7177 GR6AA	Lobito, Portuguese West Africa. Mon. Wed. Sat. 2:45-4:30 pm.	8960 TPZ2	Algiers, Algeria. Tues. 12:30-1:30 pm.
7210 ZRO	Rome, Italy. 6-7:55 pm.	8960 COKG	Santiago, Cuba. 5-9:50 pm.
7220 EAJ9	Malaga, Spain. 4-6 pm.	9030 COBZ	Havana, Cuba. 7:45 am.12 mid. Sun. 7:45 am.-1 am.
HAD	Bodapest, Hungary. 9 pm-midnight.	9125 HAT4	Budapest, Hungary. Daily 7-8:30 pm. Sat. 6-7:30 pm.
YDX	Medan, Sumatra, N. E. I. Sat. 7:30 pm-1:30 am; Other days 10:30 pm-2 am; 6-10:30 am.	9130 HC2W	Guayaquil, Ecuador. 11 am-1, 7-11 pm.
		9175 HCIGO	Quito, Ecuador. Mon. Wed. Sat. 9-10:30 pm.
		9190 HC2ET	Guayaquil, Ecuador. 8-10 pm. Sun. 8:30-10:30 pm.
		9200 COCX	Havana, Cuba. 8 am.12 mid.
		9200 ZMEF	Sunday Island. 1:45-2:15 am. Irreg.
		9205 PYA2	Rio De Janeiro, Brazil. 5-8 pm.
		9225 COCY	Havana, Cuba. 8 am.- 12 mid. Sun. 8 am.-10 pm.
		9230 COCY	Havana, Cuba. 12 noon-12 midnite.
		9234 ....	Bucharest, Roumania. 12:02-7 pm.
		9295 HI2G	Cuidad Trujillo, D. R. 6:40-8:40 am., 11:40 am.2:10 pm., 3:40-4:40 pm.

- 9340 OAX4J Lima, Peru. 12 noon-3 pm., 5 pm.-12 midnight.
- 9345 HBL Geneva, Switzerland. Mon., Wed., 8:45-10:15 pm.
- 9375 COBC Havana, Cuba. 7 am. to 12 mid. Sun 7 am.-10:30 pm.
- 9440 OAX5C Ica, Peru. 7-11:30 pm.
- 9440 COCH Havana, Cuba. 6:40 am.-10:15 pm., exc. Sun.
- 9445 HCODA Guayadquil, Ecuador. 8:15-10:15 pm., exc. Sun.
- 9465 TAP Ankara, Turkey. Daily 10:30 am.-4:30 pm.
- 9475 VONG St. Johns, Newfoundland. 8:30 am.1:30 pm. 4:30-9:30 pm.
- 9492 KZIB Manila, Philippines. 10 am. and 6-11 pm.
- 9501 PRF5 Rio De Janeiro, Brazil. 4:45-5:55 pm.
- 9503 XEWW Mexico City. 7:45 am.-12:30 am.
- 9505 YUD Belgrade, Yugoslavia. 11:20 am.4:20 pm., 8-9 pm.
- 9510 .... Hanoi, French Indo-China. 12 m.-2 am., 6-10 am.
- 9510 HS8HJ Bangkok, Thailand. Daily Ex. Mon. 7-10 am.
- 9510 GSB Daventry, Gt. Britain. 12:57-3:15 am., 3:50-6; 6:24-9:15; 9:37 pm.-12:30 am.
- 9517 XEDQ Guadalajara, Jal. No-4:30 4:30 pm., 1pm.-midnight.
- 9520 RV96 Moscow, U. S. S. R. 1-6 pm.
- 9520 TPC Paris, France, 4:30-7:45 pm. 8 pm.-1:45 am.
- 9523 ZRG Roberts Heights, S. Africa. Daily 5:15-9, 11 am.-noon. Sun. 6-9, 10:40 am.-1:30 pm.
- 9525 ZBW3 Hongkong. 5-10 am., 11:30 pm.1:15 am. Sun 5-9:30 am.
- 9528 VUC2 Calcutta, India. 10-11 pm., 12 m.-1 am., 2-4 am. Sat. 10 pm.-2 am.
- 9530 WGEO Schenectady, N. Y. 3-6 pm. 6-11:45 pm.
- 9535 JZI Tokyo, Japan. 7-9:30 am.
- 9535 SCU Motala, Sweden. 4:35-5:05 pm. 8-9 pm.
- 9538 VPD2 Suva, Fiji. 5:30-7 am., exc. Sun.
- 9540 DJN Berlin, Germany. 12:05-2:30, 9:30-11 am., 4:55-10:50 pm.
- 9550 YDB Soerabaja, Java, N. E. I. Daily exc. Sat. 6-9 pm., 10:30 pm.-2 am.-4:30-10:30 am. Sat. 7 pm. 2 am.
- 9556 XEFT Vera Cruz, Ver C. 7:30 pm.-Midnight.
- 9550 OLR3A Prague, Bohemia. Irreg. 4:40-5:10 pm.
- 9550 WGEA Schenectady, N. Y. 6:15-9:15 pm.
- 9550HVJ Vatican City. Sun. 5-5:30 am., 8:30-9:45 pm. Wed. 2:30-3 pm. Thur. 8:30-9:45 pm.
- 9550 TPBII Paris, France. 11:15 am.-7 pm., 9:30 pm.-mid.
- 9556 OAX4T Lima, Peru. 7-8, 11:30 am.-1:30 pm.
- 9560 XEFA Monterrey, 10 am. Midnite.
- 9560 XGAP Peiping, China. 4 -9 am.
- 9570 WBOS Boston, Mass. 6-9 am. 3 pm.-1 am.
- 9570 KZRM Manila, P. I. Weekdays 4:30-6 pm. Sat. 5-10 am., Sun. 4-10 am.
- 9570 CXA2 Montevideo, Uruguay. 11 am.-4, 4:30-9:30 pm.
- 9570 VUM2 Madras, India. 9-10:30 pm., 2:30-4 am.
- 9580 VLR Melbourne, Australia. 2:30-9, 9-9:30 am.
- 9590 VK2ME Sydney, Australia. Sundays only, m.-2 am. 5-8:30 am.
- 9590 WCAB Philadelphia, Pa. Mon., Thurs. & Sat. 6:30 pm.-2 am., Wed. 9 pm.-2 am.
- 9690 VUD2 Delhi, India. 6:30 am.-12:05 pm. 5pm.12 pm., Mon., Tues., 1-4:10 am. Wed. 2-4 am. Thur., Fri., Sat. 1-3:30 am. Sat. 5 pm.-3:30 am.
- 9595 .... Athlone, Ireland. 12:30-4:30, 5-6 pm.
- 9600 CB960 Santiago, Chile. 8-11:30 pm.
- 9600 RAN Moscow, U. S. S. R. 3-7, 7-3:30 pm. 8:30-9 pm.
- 9607 HP5J Panama City, Panama. 7-8 am., 12 noon to 1:30 pm., 6:30-10:30 pm.
- 9610 DXB Berlin, Germany. 4:50 pm., 7 pm.-1 am.
- 9615 ZRL Klipheuvell, South Africa. Daily, exc. Sat. 11:45 pm. 2:50 am. Daily exc. Sun. 3:20-7:20, 9-11:45 am., Sun. 3:30-4:30 or 4-5, 5:30-7, 9-11:45 am.
- 9620 TIPG San Jose, Costa Rica. 7-9:30 am., 12-2, 6-11:30 pm.
- 9625 HAD Budapest, Hungary. 6-9 pm.
- 9625 CXA6 Montevideo, Uruguay. 10:30 am.-12:30, 3:30-9:30 pm.
- 9630 HJCT Bogota, Colombia. 6-11 pm.
- 9630 JFO Taihoku, Taiwan. 4-10:30 am.
- 9630 I2RO3 Rome, Italy. 1-2 am. 12:07-2:35, 4:15-4:45 pm., 6-9 pm.
- 9635 KZRH Manila, Philippines. 4-11 am.
- 640 CXAS Colonia, Uruguay. 5 am.-10:45 pm. Sat. to 1 am.
- 9645 VLW2 Perth, W. Aust( 6-11 am.
- 9645 XGOY Szechwan, China. 1-3, 8-9:30 am.
- 9650 CR7BE Lourenco Marques, Mozambique. 7-8 am. 2-4 pm.
- 9650 DJV Berlin, Germany. Irreg. 4:50 pm.-1 am.
- 9650 I2AA Addis Abea, Ethiopia. 3:30-5:30 am. Sun. 2:30-5:30 am. 8 am.-2:30 pm.
- 9650 WCBX New York City. 10:30-11:30 pm.
- 9600 HVJ Vatican City. Sun. 5-5:30 am., 8:30-9:45 pm.; Thurs. 8:30-9:45 pm.
- 9660 LRX Buenos Aires, Arg. 5:30-6:45 am., 10:15 am.-11 pm.
- 9665 .... Rome, Italy. 1-6:30, 7:30-9 pm.
- 9760 WRCA Bound Brook, N. J. 4 pm.-1 am.
- 9675 DJX Vienna, Germany. 10:40 am.-4:25 pm.
- 9675 .... Saigon, Indo-China. 7:30-9:45 am.
- 9680 VLQ Sydney, Australia. 2-4, 6:30-7, 7-8, 8:15-8:45, 10:30-11:30 am.
- 9680 TPC23 Paris, France. 6-7:45 pm. 8 pm.-12:30 am.
- 9680 XEQQ Mexico, D. F. 5 pm.-1 am.
- 9680 GSC Daventry, Gt. Britain. 12:57-1:45, 11:52 am.-3:30; 3:50-6 pm., 6:25-9:15, 9:37 pm.-12:30 am.
- 9685 TGWA Guatemala City, Guat. Near 12:30 am.

- 9690 LRA1 Buenos Aires, Arg. 10:30 am-1 pm; 2:30-3:30 pm; 4-9 pm.
- 9692 TI4NHR Heredia, Costa Rica. Tues. Thurs. Sat. 9-10 pm; Sun. 7-8 am.
- 9690 CRX London, Gt. Britain. 12:25-5 am; 11:50 am-8 pm.
- 9695 JIE3 Tyureki, Taiwan. 9-10:20 am.
- 9703 .... Fort de France, Martinique. 6-8:10 pm.
- 9710 HJCF Bogota, Colombia. 7-11 pm.
- 9730 CB970 Valparaiso, Chile. 7 am-11:30 pm.
- HJFK Pereira, Colombia. 7-9 am.
- 9740 CSW7 Lisbon, Portugal. Tues. Thurs. Sat. 3:40-4 pm. Daily 4-5:30 pm; 5:45-9 pm.
- 9750 HJ6FAH Armenia, Colombia. 8-10:30 am; 5-10:30 pm.
- 9780 HH3W Port-au-Prince, Haiti. Sun. 1-2 pm; 5-8 pm; Other days 1-2 pm; 7-9 pm.
- 9815 IRF Rome, Italy. 5:20-5:40 am; Noon-12:25 pm; 1:50-2:30 pm; 6-7:25 pm.
- 9825 COCM Havana, Cuba. 8 am-midnight.
- 9840 XGSE Somewhere in China. At 7 am.
- 9855 EAQ Madrid, Spain. 5-7:30 pm; 7:45-8:50 pm; 8:50-11:30 pm.
- 9892 CP1 Sucre, Bolivia. 11 am to noon; 7-9 pm.
- 9925 JDY Dairen, Manchukuo. 7-8 am.
- 9985 COCB Havana, Cuba. 6 am-midnight.
- 10060 TIEM San Jose, Costa Rica. 4:30-8 pm.
- 10070 .... Deutsche Freiheitssender. Somewhere in Germany (?). 4-5 pm.
- 10220 PSH Rio de Janeiro, Brazil. Mon. 8-8:30 pm; Fri. 7-7:30 pm; Other days 6-7 pm.
- 10290 DZC Berlin, Germany. 3-3:10 pm; 6:30-9 pm.
- 10350 LSX Buenos Aires, Arg.
- 10360 EAJ43 Tenerife, Canary Islands. 3-4:30 pm; 5-7 pm; 7:45-8:45 pm; 9-10 pm.
- 10400 YSP San Salvador, E. E. 6:30-11 pm.
- 11760 2RO15 Rome, Italy. 11:40 am-2:40 pm, 3-3:30, 5:30-6 pm.
- 11760 TGWA Guatemala City, Guat. 10-11:30 pm. Sun. 6-11:30 pm.
- 11760 OLR4B Prague, Bohemia. Daily exc. Sun. 8:25-10:05 am.
- 11750 GSD Daventry, England. 12:57-5, 9-1-1:30 am. 11:52 am. 3:30, 9-15 pm., 9:37 pm.-12:30 am.
- 11740 HVJ Vatican City. 2-5:55 m., Weds. -9:30 pm.
- 11740 CBII74 Santiago, Chile. 6-11 pm. Sun. 6-10:30 pm.
- 11740 CR6RC Loanda, Angola. 6:30-7:45 am. Tues., Wed., Sat. 3:30 pm., Sun. :30 am-1 pm.
- 11735 YUE Belgrade, Yugoslavia. 7-9:05 pm.
- 11730 WRUW- Boston, Mass. Sun. 2-8 pm.; WRUL 5:20-18:30, 8:45-10:30 am.
- 11725 JVV3 Tokyo, Japan. 1-7 am.
- 11720 ZPI4 Villarica, Paraguay. Mon. to Fri. 4-8 pm.; Sat.-Sun. 11 am.-6 pm.
- 11718 CR7BH Laurenco Marques, Portuguese E. Africa. Daily 12:05-1, 4:30-6:30, 9:30-11 am., 12:05-4 pm., Sun. 4-7 am., 10 am.-2 pm.
- 11718 TPA4 Paris, France. 1-5:15 pm. 6:1-7:45, 8 pm.-12m.
- 11710 YSM San Salvador, El Salvador. 1-2, 7-9:30 pm.
- 11710 .... Saigon French Indo-China. 7:30-9:45 am.
- 11700 CBII70 Santiago Chile. 10 am.-2 pm., 3:30-Midnight.
- 11700 HP5A Panama City, Panama. 7-10:40 am. 5-10:45 pm. Sun. 6-10:45.
- 11700 IQY Rome, Italy. 5:20-5:40 am. 1:50-2:30 pm.
- 11650 XGOK Canton, China 7-9 am.
- 11402 HBO Wed. 6:45-8:15 pm. Tues. Geneva, Switzerland. Mon., 12:45-2:15 pm. Sat. to 2 pm.
- 11400 CJRX Winnipeg, Canada. 4 to 8:30 pm.
- 11040 CSW5 Lisbon, Portugal. 12-3:30 pm. Sun. 10 am.-3:30 pm.
- 11000 PLP Bandoeng, Java. 6-9 pm. 10:30 pm.-2 am., 4:30-10:30 or 11 am. Sat. until 11:30 am.
- 10950 FIQA Tananrive, Madagascar. 12:30-45, 10-11 am., 2:30-4 am.
- 10660 JVN Nazaki, Japan. 1:50-7:40 am.
- 10660 ZIK2 Belize, Br. Honduras. Tues., Thurs., Sat. 1:30-2, :30-9 pm.
- 11900 XEWI Mexico City, Mexico. Mon., Wed., Fri. 3-4 pm., 9 pm.-12 m. Sat. 9 pm.-12 m., Sun. 12:30-2 pm.
- 11895 .... Moscow, U S S R. 6:30-7 am., 4-6 pm.
- 11885 TPA3 Paris, France. 1-4, 10:15 am.-5:15.
- 11880 TPB7 Paris, France. 4:45-7:45 pm. 8 pm-12 m.
- 11870 WPIT Pittsburgh, Pa. 3-9, 10-11 pm.
- 1170 VUM Madras, India. 8:45 am.
- 11870 VLQ2 Sydney, Australia. 2:30-3:30 am.
- 11860 GSE Daventry, England. 5:40-11:30 am. 6:25-9:15 pm.
- 11855 XMHA Shanghai, China. Wkdys. 11 pm.-1 am., 5-11 am. Sat. 10 pm.-Sun. 11 am.
- 11855 DJP Berlin, Germany. 12:05-2 am., 4:50-10:50 pm.
- 11850 VLR3 Melbourne, Australia. 3:30 pm.-2:15 am. Also 6:35-7 am.
- 11850 HAD Budapest, Hungary. 3-6 pm.
- 11850 CBII85 Santiago, Chile. Sat. 6-11 pm.
- 11845 TPC8 Paris, France. 10:30 am.-5 pm.
- 11840 OLR4A Prague, Bohemia. 6:55-10:15 pm.
- 11840 CSW Lisbon Port, 11:30 am.-1:30 pm.
- 11830 VLVW3 Perth W. Australia. 1-5 am.
- 11830 WCBX New York City. 1-6 pm. 6:30-10 pm.
- 11826 XEBR Hermosilla, Son. 10 am.-4 pm., 8-10:30 pm.
- 11825 CXA14 Colonia, Uruguay. 3:30-9:20 pm.
- 11810 ZRO4 Rome, Italy. 4:30-9, 10 am.-2:30 pm., 6-7:25, 7:30-9 pm. to N. A.

11801 DJZ	Berlin, Germany. 4:50-10:50 pm.	11945 CBII80	Santiago, Chile. 7-8 am, 4:50-11 pm.
11880 JZJ	Tokyo, Japan. 12-1:30 am. 7-9:30 am., 2-4 pm.	11940 TI2XD	San Jose, Costa. 7:30 am-noon, 4-10 pm.
11880COGF	Matanzas, Cuba. 9 am.-11:30 pm.	11910 CDII90	Valdivia, Chile. 10 am.-1 pm., 5-10:30 pm.
11800 XGOK	Canton, China. 6-8:35 am.	11900 XGOY	Szechwan, China. 5:30-7:35, 7:40-9, 9:40-11, 11:10-11:50 am. 2-4:20, 4:30-6:20 pm.
11790 WRUL	Boston, Mass. 2-5 pm. Sat. 3-5 pm. Suns 10 am. 12 noon.	17310 W2XGB	Hicksville, L. I., N. Y. Tests 9:30-11:30 am, except Sat. and Sun.
11780 ....	Saigon, Indo-China. 10:30-11 am.	17280 FZE8	Djibouti, French Somaliland. Thurs. 8-8:30 am.
11780 HP5G	Panama City, Panama. Noon-1 pm., 6-10 pm.	15410 RV96	Moscow, U. S. S. R. 5-7:30 am., 8-55-10:30 pm.
11775 MTCY	Hsinking, Manchukuo. 1:30-2:20 to N. A. Also 9:50-10:55 am., 4-4:50 pm.	15370 HAS3	Budapest, Hungary. Sun. 9-10:30 am.
11770 ZTE	Durban, So Africa. 3:30-11:45 am. exc. Suns. Sun. 3:55-11:45 am. Also, 11:45 pm.-2 am.	15430 DJR	Berlin, Germany. 12:05-11 am., 4:55-10:50 pm.
11770 DJD	Berlin, Germany. 10:45 am.-4:25 pm., 4:50 pm.-1 am.	15330 KGEI	San Francisco, Calif. 6:30-11:15 pm.
15170 TKWA	Guatemala City, Guat. 12:45-1:45 pm.; Sun. 1:45-5:15 pm.	15330 WGEA	Schenectady, N. Y. 8 am.-6 pm.
15160 JZK	Tokyo, Japan. 4:30-5:30, 8-9 pm.	15325 JLT3	Tokya, Japan. 9-10:30 pm.
15160 XEWV	Mexico City, Mexico. 12 n.-12 m. irregular.	15310 GSF	Daventry, England. 2-5 am., 11-52 am.-1:25 pm. 1:30-3:30, 3:50-6 pm.
15155 SBT	Motala, Sweden 1-4:30 pm.	15310 PDB	Soerabaja, Java, N. E. I. 10:30 pm.2 am., Sat. 7:30 pm.-2 am.
16150 YPC	Bandoeng, Jaya. 6-9 pm. ex. Sat. 10:30 pm.-2 am., Sat. 7:30 pm.-2 am., daily 4:30-10:30 am.	15300 2RO6	Rome, Italy. 4:10-4:55 am.; 10 am.-12:06 pm.; 1-2:15, 5-9:25 am., 11 am.-6 pm. 8:15-10:10 pm.
15140 GSF	Daventry, England 2:18-5, 5:40-8:45, 9-11:30 am.; 3:50-6 pm.	15295 TPB4	Paris, France. 5-5:30, 7:30-8 am.
15135 ILU3	Tokyo, Japan. 8-9:30 am.	15290 VUD3	Delhi, India. 8-10:30 am., 11:30 am.-2:30 pm., 9:20 pm.12 m.; Mon. 1-4 am.; Tues. Thurs., Fri., Sat., 3:30 am.; Wed. 2-4 am.; Sat. 9:30 am.-3:30 am.
15130 TPB	Paris, France. 11:30 am.-12:30 pm.	15290 LRU	Buenos Ares, Arg. 8-10 am.
15130 WRUW-	Boston, Mass. 2-5, 8:45-10:30 pm.; Sat. 3-5 pm., Sun. 10 am.-noon.	15280 DJQ	Berlin, Germany. 12:05-11:10 am.
15120 CSW4	Lisbon, Portugal. 7-9 am.	15270 WCBX	New York City. Daily exc. Sat. and Sun. 1-3:30 pm., Sun 1-2:30 pm.
15120 HVJ	Vatican City. Tues. 8:30-9, 10-10:30 am., Suns. 1-1:30 pm. Wed. 8:30-9 pm.	15270 HI3X	Ciudad Trujillo, D. R. Sun. 8:10-10:10 pm. 7:40-9:40 am. Tues. and Fri. Phila., Pa. 12 n.6 pm.
15110 DJL	Berlin, Germany. 12:05-2 am., 10:40 am.-4:25 pm.	15270 WCAB	Daventry, England 12:57-5 am., 11:52 am.-3:30 pm.
15100 2RO12	Rome, Italy. 4-5:30, 6-7:25, 7:30-9 pm.	15260 GSI	Boston, Mass. Daily exc. Sat. and Sun. 10 am.-11 am.
15040 RKI	Moscow, U. S. S. R. 7-8:30 pm. 8:30-9 pm.	15245 TPA2	Paris, France. 5-10 am.
14940 PSE	Rio De Janeiro, Brazil. 6-7 pm., Thurs. 3-3:30 pm.	15240 YUF	Belgrade, Yugoslavia. 7-8 pm.
14920 KQH	Kahuku, Hawaii. Sats. 8:30-9 pm. Sun. 9-9:30 pm.	15240 CR7BD	Lourenco Marques, Mozambique, 4:30-6:30, 9:30-11 am., noon-4 pm.
14795 IQA	Rome, Italy. 4:30-5 am.	15210 WPIT	Pittsburgh, Pa. 8 am.-3 pm.
14600 JVH	Nazaki, Japan. 4-8 am.	15200 DJB	Berlin, Germany. 12:05-6:30-9, 9:15-9:30 am.; 11:10-11:40 am., 4:50-10:45 pm.
14635 HBJ	Geneva Switzerland. Wed. 6:45-8:15; 8:40-10:15 pm.	15190XGOX	Szechwan, China. 830-9:30, 10-11:05 pm.
14460 DZH	Berlin, Germany. 7-10:50 pm.	15180 RV96	Moscow, U. S. S. R. 3-3:45 am.
14420 HCIJB	Quito, Ecuador. 7-8:15, 11:30 am.-2:30, 4-4:45 pm.-10:15 pm. Exc. Mon.	21540 WPIT	Pittsburgh, Pa. 6:30-8 am.
13900 YNDG	Leon, Nicaragua. Sun. 12:30-1.	21530 GSJ	Daventry, England. 5:40-8:45 am.
12862 W9XDH	Elgin, Ill. Press Wireless, Tests 2-5 pm.	21520 WCAB	Phila., Pa. 12 n. to 3:45 pm. exc. Sat. & Sun. Sun. 12 n.-2:30 pm.
13486 HIIN	Trujillo City, Dom Rep. 6:40-10:40 am., 5:10-9:40 pm.	21510 2RO16	Rome, Italy. 9-9:55 am.
12450 HCJB	Quito, Ecuador. 7-8:15, 11:30 am.-2:30, 5-10:30 pm.	21500 WGEA	Schenectady, N. Y. 8-11 am.
12310 VOFB	St. Johns, Newfoundland. 5:30-7:30 pm.		
12000RNE	Moscow, U. S. S. R. 7-9 pm. 9-11 am.		
11970 HI2X	Ciudad Trujillo, D. R. Tues. and Fri. 8-10-10:10 pm. Sun. 7:40-9:40 am.		



- 21470 GSH Daventry, England. 5:40-8:45 am.
- 21460 WRUL Boston, Mass. 10 am-noon
- 21450 DJS Berlin, Germany. 12:05-7:55 am.
- 19020 HS6PJ Bangkok, Thai. Mondays 8-10 am.
- 18480 HBF Geneva, Switzerland. Fri 8:45-10:15 am
- 17970 KHE Kahuku, Hawaii Sats. Suns. 8:30-9 pm.
- 17845 DJH Berlin, Germany. 12:05-7:50, 8-11 am.
- 17840 HVJ Vatican City. 12 n. on Wednesday.
- 17830 LRA5 Buenos Aires, Arg. Fri., 5-5:30 pm.
- 17830 WCBX New York City. 8 am-12:30 pm.
- 17820 2R08 Rome, Italy. 4:30-7:15 am, 9:30-10:55am, 6-7:55 pm.
- 17810 GSV Daventry, England. 7-8:45, 17970 GSG Daventry, England. 5:40-8:45; 9-10:15 am.
- 17780 WNB1 Bound Brook, N. J. 9 am-4:15 pm. 4-8:15 pm.
- 17765 TPB3 Paris France. 5-10 am.
- 17760 DJE Berlin, Germany. 12:05-11 am.
- 26550 W2XOO New York City. Noon-9 pm.
- 26500 WXTA Harrisburg, Ill. 1-4 pm.
- 26400 W9XAZ Milwaukee, Wis. 1 pm. to midnight.
- 26150 W4XA Nashville, Tenn. Noon-1, 6:30-10 pm.
- 26150 W9XUP St. Paul, Minn. 8 am-1 am.
- 26125 W5XAU Oklahoma City, Okla. 7 am-11 pm.
- 26100 W9XJL Superior Wis. 11 am-3 pm.
- 26050 W9XTC Minneapolis, Minn. 10 am-8 pm.
- 26050 W9XH South Bend, Ind. 2:30-6:30 pm., exc. Sat. and Sun. and Thurs.
- 26000 W8XUJ Cincinnati Ohio. 2-4 pm.
- 26000 W9XA Kansas City. Mo. 12 noon-3 pm.
- 25900 W9XPD St. Louis Mo. 10 am.-1, 4-8 pm.
- 25400 W9XLA Denver, Colo. 10 am.-12 mid.
- 25300 W5XD Dalas, Texas. 12:30-2:30 pm.
- 25300 W2XJI New York, N. Y. 11:30 am-3:45, 5-6 pm.
- 25250 W2XUP New York City. 4-6 pm
- 21630 WRCA Bound Brook, N. J. Noon-3:30 pm.
- 21570 WCBX New York City. 8 am-12:30 pm.
- 21550 GST Daventry, England. 5:40-8:45, 9-9:15, 9:20-11:30 am.

Hilversum—Transmitters at Huften. PCJ is "The Happy Station." Announcements in Dutch, German, French, English, Spanish, Portuguese. Sign off with National Anthem. N. V. Philips' Radio, Eindhoven.

Johannesburg—All programs originate in J/B. Announce "Johannesburg Calling." English and Afrikaans. Open with bugle call. South African Broadcasting Corp., Box 4559, Johannesburg.

London—Transmitters are at Daventry. Interval signals are Bow Bells; Greenwich time signal on even hours; and, irregularly, Big Ben, preceded by Westminster Chimes, strikes the hours. Sign off with "God Save The King." British Broadcasting Corp., London W1.

Oslo—Norsk Rikskringkasting, Shortingsgaten 2B, Oslo, Norway.

Paris—Transmitters at Essarts-le-Roi. Announce as "ParisMondial," (Paris Embracing The World), and sign off with "La Marseillaise." Minister of Posts, Telegraphs and Telephones, 98 bis Blvd. Hausmann.

Rome—"Radio Roma-Napoli." Transmitter at Prato-Smeraldo. Interval signal, chirping of bird. Announcements usually by a lady. Sign off with 2 anthems, "Giovinezza" and "Marcia Reale." Ente Italiano per le Audizioni Radiofoniche, Via Montello 5.

Tokyo—Transmitters are at Nazaki. Sign off with national anthem, "Kimagayo." Nippon Hoso Kyokai, 2-Chome, Uchisaiwaicho, Kojimachi-ku.

HVJ—Announcements in Dutch, Italian, Polish, English, German, French, Spanish, Russian. A clock or metronome ticks seconds during 5 minutes preceding broadcasts. Bells of St. Peters strike hour. Open and close with Laudetur Jesus Christus." Pontifica Accademia Della Scienze, Roma-Castua Pio IV

KGEL—Transmitter at Treasure Island, General Elec. Co., 235 Montgomery St., San Francisco, Calif.

TGWA—Radiodifusora National, "La Voz de Guatemala." Relay TGW. Return postage is not necessary for verifications.

VLR—Transmitter at Lyndhurst. Australian Broadcasting Commission Victorian Division), P. O. Box 1686, GPO, Melbourne, Vic., Australia.

WCAJ—Trans. at New Town Square. Relays CBS-WCAU. WCAU Brdctg. Co., 1622 Chestnut St., Philadelphia, Pa.

WCBX—Transmitter at Wayne Twp., N. J. Relays CBS-WABC. Sign off, "Star Spangled Banner." Columbia Broadcasting Sys., 485 Madison Ave., New York City.

WGEA—Transmitter at South Schenectady. Relays NBC-WGY. Programs commence with discharge of mn-mad lightning. General Elec. Co., 1 River Road.

WLWO—Transmitter at Mason. Relays NBC-WLW. Crosley Corp., 1320 Arlington St., Cincinnati, Ohio.

WNB1—Transmitter at Bound Brook, N. J. Relays NBC-WJZ. Sign off with "Star Spangled Banner." NBC, Inc., 30 Rockefeller Plaza, New York, N. Y.

WPIT—Transmitter at Saxonburg. Relays NBC-KDKA. Westinghouse Electric & Mfg. Co, Grant Bldg., Pittsburgh, Pa.

## Addresses

Ankara—Radio Ankara." Ann: Turkish, Eng, Fr, Ger. Sign off, National anthem. Turkish Brdctg. System, Correspondence Dept.

Berlin—These transmitters are located at Zeesen, near Berlin. Interval signal is the tune, repeated several times, "Ever Be True and Honest," and sign off theme, two national anthems, "Horst Wessel Lied" and "Deutschlandlied". Address is Reichs-Rundfunk G. m. b. H., Haus des Rundfunk, Masurenallee, Berlin-Charlottenberg 9.

# The WORLD'S Radio Stations

(Continued From May-June Issue)

A complete listing of the radio stations of  
the world, from 500 kcs to 500,000 kcs.

The addresses of the shortwave broadcasting stations are not shown in this list. Readers are referred to The Shortwave Broadcasting Station List for this information.

15280	DJO	B	50000	Berlin, Germany
	HI3X	B	900	Trujillo, Dom. Rep.
	LRU	B	5000	Buenos Aires, Argentina
15295	TPB4	B	25000	Paris, France
15300	I2RO6	B	100000	Rome, Italy
	LYZ4	B	....	Kaunas, Lithuania
15305	....	B	25000	Bern, Switzerland
15310	GSP	B	....	London, Gt. Britain
15320	OLR5B	B	35000	Prague, Bohemia
15325	JLP2	T	....	Nazaki, Japan. Nippon Hoso Kyokai, Kojimachi-ku, Tokyo
15330	KGEI	B	20000	San Francisco, Calif.
	WGEA	B	25000	Scenectady, N. Y.
15340	DJR	B	....	Berlin, Germany
15355	KWU	T	15000	Dixon, Calif. Transpacific Communications, 140 New Montgomery, San Francisco.
15360	ZG	B	....	Berlin, Germany
15370	HAS3	B	20000	Budapest, Hungary
15400	HRM3	C	400	Tela, Honduras. Tela Railroad Co.
15410	....	B	50000	Bucaresti, Romania
15415	KWO	T	20000	Dixon, Calif.
15440	XEBM	B	50	Mazatlan, Sin., Mexico
15505	CMA5	C	1000	Havana, Cuba. Cuba Transatlantic Radio Corp., Obispo y Aguiar
15520	HRA3	C	400	Puerto Castilla, Honduras. Tela Railroad Co.
15600	HRE4	C	400	Tegucigalpa, Honduras. Tropical Radio & Telegraph Co.
	XOJ	C	....	Shanghai, China
15810	LSL3	T	....	Buenos Aires, Arg. Cia. Internacional de Radio, S. A.
15880	WBC	C	40000	Hicksville, N. Y. Press Wireless, Inc.
15905	TD1	T	....	Sinkio, Manchukuo. Man. Telegraph & Telegraph Co., Ltd.
16030	KKP	C	50	Kahuku, Hawaii. RCA Communications, Inc.
16140	GBX	C	....	Rugby, Gt. Britain
16350	CIA	T	....	Barrie, Ont. Dept. of Nat'l. Defense
16560	KHC1Y	A	100	NC-18997. American Export Airlines
16790	KCK	C	....	Clearwater, Calif. Mackay Radio & Teleg. Co.
	KOK	CT	....	Clearwater, Calif. Same as KCK.
16800	WSL	C	....	Amagansett, N. Y. Mackay Radio & Teleg. Co.
16820	NAA	Time	....	Arlington, Va. Time signals at 9:55 am EST.
17080	GBC	C	5000	Rugby, Gt. Britain
17120	WOO	T	20000	Ocean Gate, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., NYC.
17225	ICEJ	S	....	S. S. "Rex."
17260	CMA5	C	1000	Havana Cuba. Cuba Transatlantic Radio Corp., Obispo y Aguiar
17280	CPX7	C	....	Viacha, Bolivia
	FE8	B	....	Djibouti, French Somaliland
17210	KHRH	RB	100	NC-1994. Howard R. Hughes, NYC.
	KSFM	RB	....	New York City. NBC, Inc.
	K4XAO	E	....	San Juan, Puerto Rico. University of P. R.
	WCBN	RB	....	New York City. CBS, Inc.
	W2XGB	GE	10000	Hicksville, N. Y. Press Wireless, Inc.
	K6XAK	GE	500	Kaena Point, T. H. Globe Wireless, Inc.
	WNBM	RB	....	New York City. NBC Inc.
	W3XAB	E	....	Camden, N. J. RCA Mfg. Co.
	W4XID	E1	50	W. Palm Beach, Fla. Gray Radio Co.
	W4XIJ	FA	1000	Coral Gables, Fla. Pan-American Airways, Inc.
	W6XQW	GE	1000	Palo Alto, Calif. Stanford University
	W6XKT	GE	5000	Portable. Press Wireless, Ltd.
	W7XBA	E	15	Portable. Northern Radio Co.
	W7XEY	E1	60	Seattle, Wash. Radio Labs., Inc.
	W7XE	E1	60	Seattle, Wash. Radio Labs., Inc.
	W8XUK	GE	10	Portable. W. Va. Univ., Dept. of Physics

**1160 kcs. (258.5 m.)**

CMHJ	...	200
KEX	B	5000
WOWO	B1	10000
WWVA	C1	5000
XEAS	...	100
XED	...	2500
XEFM	...	500
KEP	...	500

- a Cienfuegos, Cuba
- a Portland, Oreg.
- a Fort Wayne, Ind.
- a Wheeling, W. Va.
- a Saitillo, Coah.
- a Guadalajara, Jal.
- a Leon, Gto.
- z Juarez, Chih.

Richardo Ugalde  
H. C. Singleton, Ch. Eng.  
...  
E. A. Hadden, Eng.  
Manuel R. Rodriguez  
...  
Estaban Perra

**1170 kcs. (256.3 m.)**

CMBS	...	200
WCAU	C	50000
XEXX	...	1000

- a Havana, Cuba
- a Philadelphia, Pa.
- z Mexico City, D. F.

Enrique Artalejo  
J. G. Leitch  
...

**1180 kcs. (254.1 m.)**

KOB	N	10000
WDGY	LM	1000(5)
WINS	L	1000
WMAZ	CL	1000(5)

- a Albuquerque, N. Mex.
- a Minneapolis, Minn.
- a New York, N. Y.
- a Macon, Ga.

T. M. Pepperday, Mgr.  
Dr. Geo. W. Young  
...  
...

**1190 kcs. (252 m.)**

CMKX	...	200
WOAI	EN	50000
WSAZ	L	1000

- z Banes, Cuba
- a San Antonio, Texas
- a Huntington, W. Va.

Oscar Vidal Benitez  
...  
Glenn E. Chase, Ch. Eng.

**1200 kcs. (249.9 m.)**

CHAB	F	100(.25)
CHGB	F	100

- z Moose Jaw, Sask.
- z St. Anne de la Pocatierra, P. Q.

A. E. Jacobson, Ch. Eng.  
G. Thomas Desjardins

CKNX	...	100
CKTB	F	100
CKVD	...	100
CMCO	...	200
KADA	EMX	100
KAST	...	250
KBTM	...	100(.25)
KELO	N	250
KFJB	...	250
KFXD	...	250
KFXJ	...	250
KGDE	...	100(.25)
KGEK	...	100
KGFJ	...	100
KGHI	...	250
KHAS	P	250
KHBC	CM	250
KMLB	...	250
KOOS	M	250
KPHO	P	100(.25)
KSUN	E	250
KVCV	M	250
KVEC	M	250
KVNU	...	250
KVOS	M	250
KWBD	DP	100
KWG	BE	100
KWNO	E	250
TIRCC	...	500
WABI	C	250
WAIM	C	100
WAYX	...	250
WBAB	P	100(.25)
WBBZ	M	250
WBHP	...	100
WBOW	N	250
WCAT	D	100
WCAX	C	250
WCBT	P	250
WCLO	...	250
WCPO	...	250
WDLF	P	100(.25)
WDSM	M	100
WENY	M	250
WEST	...	250
WESX	...	100

- a Wingham, Ont.
- a St. Catharines, Ont.
- z Val d'Or, P. Q.
- a Havana, Cuba
- a Ada, Okla.
- a Astoria, Ore.
- a Jonesboro, Ark.
- a Sioux Falls, S. Dak.
- a Marshalltown, Iowa
- a Nampa, Idaho
- a Grand Junction, Colo.
- b Ferqus Falls, Minn.
- f Sterling, Colo.
- a Los Angeles, Calif.
- a Little Rock, Ark.
- z Hastings, Nebr.
- a Hilo, Hawaii
- a Monroe, La.
- a Marshfield, Ore.
- z Phoenix, Ariz.
- a Lowell, Ariz.
- a Redding, Calif.
- a San Luis Obispo, Calif.
- z Logan, Utah
- d Bellingham, Wash.
- z Plainview, Texas
- a Stockton, Calif.
- a Winona, Minn.
- z San Jose, C. Rica
- a Bangor, Maine
- a Anderson, S. C.
- a Waycross, Ga.
- z Atlantic City, N. J.
- a Ponca City, Okla.
- a Huntsville, Ala.
- a Terre Haute, Ind.
- a Rapid City, S. Dak.
- a Burlington, Vt.
- z Roanoke Rapids, N. C.
- a Janesville, Wis.
- a Cincinnati, Ohio
- z Panama City, Fla.
- z Superior, Wis.
- d Elmira, N. Y.
- a Easton, Pa.
- z Salem, Mass.

B. Howard Bedford, Asst. Mgr.  
E. T. Sandell  
...  
Enrique Lasanta  
Warren Moore, Prog. Dir.  
Lawrence King, Ch. Eng.  
Jay P. Beard, Mgr.  
Joseph Henkin, Mgr.  
Homer Griffith, Mgr.  
Edward Hurt, Mgr.  
Rex Howell, Mgr.  
Mat E. Wakz, Ch. Eng.  
Elmer G. Beehler  
Thelma Kirchner, Prog. Dir.  
R. G. Terrill, Mgr.  
...  
Wesley Edwards, Mgr.  
J. C. Liner, Jr., Mgr.  
Roger L. Spaugh, Ch. Eng.  
...  
Carleton W. Morris, Mgr.  
Harold Smithson, Mgr.  
Earl Travis, Ch. Eng.  
J. M. Reeder, Ch. Eng.  
...  
W. B. Dennis  
George Ross, Mgr.  
A. E. Mickel, Mgr.  
Carlos Borge  
Ralph Wallace, Mgr.  
Ennis Bray, Mgr.  
Jack Williams  
...  
Don Mitchell, Ch. Eng.  
...  
C. M. Rowe, Prog. Dir.  
James Tierney, Ch. Eng.  
...  
Charles Brannen, Ch. Eng.  
Glen A. Davis, Ch. Eng.  
...  
Fred A. Baxter  
...  
J. E. Mathiot, Ch. Eng.  
...

**1080 kcs. (277.6 m.)**

CMBX ... 200  
 CMKM ... 200  
 WBT C 50000  
 WCBD LI 5000  
 WMBI LI 5000  
 XEBA ... 20  
 XEBK ... 100  
 XEDP ... 500

a Havana, Cuba  
 a Manzanillo, Cuba  
 a Charlotte, N. C.  
 a Chicago, Ill.  
 g Chicago, Ill.  
 z Guzman, Jal.  
 z Nuevo Laredo, Tam.  
 a Mexico City, D. F.

Alberto Alvarez  
 Jesus Armesto  
 ....  
 A. P. Frye, Ch. Eng  
 Javier Velasco  
 J. M. Cortes  
 ....

**1090 kcs. (275.1 m.)**

CMHA ... 200  
 HIN ... 100  
 KMOX C 50000  
 XERB ... 50000

z Sagua la Grande, Cuba  
 z Trujillo, D. R.  
 a St. Louis, Mo.  
 a Tijuana, B. Cfa.

Abelardo Menocal  
 J. M. Bonetti  
 G. L. Tevis, Ch. Eng.  
 ....

**1100 kcs. (272.6 m.)**

CBR F 5000  
 CMHP ... 200  
 KGDM DM 1000  
 KWKH CH 1000  
 WCAR DP 1000  
 WOV P 5000

a Vancouver, B. C.  
 z Placetas, Cuba  
 f Stockton, Calif.  
 a Shreveport, La.  
 z Pontiac, Mich.  
 z New York, N. Y.

....  
 ....  
 A. H. Green, Mgr.  
 John McCormack, Mgr.  
 ....  
 ....

**1110 kcs. (270.1 m.)**

CMCJ ... 200  
 KSOO LN 5000  
 WRVA CM 50000  
 XECL ... 1000

a Havana, Cuba  
 a Sioux Falls, S. Dak.  
 a Richmond, Va.  
 z Mexicali, B. Cfa.

Rafael Rodriguez  
 ....  
 Les Frake  
 Alfonso A. Lacarra

**1120 kcs. (267.7 m.)**

CBJ F 100  
 CHLP F 100  
 CHSJ F 100  
 CKOC F 500(1)  
 CKX F 1000  
 CMGF ... D 200  
 KFIO D 100  
 KFSG a 1000(.5)  
 KRKD a 1000(.5)  
 KSAL ... 500(1)  
 KRSC EX 250  
 KTBC DG2 1000  
 WCOP D 500  
 WDEL R 250(1)  
 WISN C 250(1)  
 WJBO BX 500  
 WTAW G2 500

a Chicoutimi, P. Q.  
 a Montreal, P. Q.  
 a St. John, N. B.  
 a Hamilton, Ont.  
 a Brandon, Man.  
 a Matanzas, Cuba  
 a Spokane, Wash.  
 a Los Angeles, Calif.  
 a Los Angeles, Calif.  
 a Salina, Kans.  
 a Seattle, Wash.  
 z Austin, Texas  
 a Boston, Mass.  
 a Wilmington, Del.  
 a Milwaukee, Wis.  
 a Baton Rouge, La.  
 a College Station, Texas

....  
 ....  
 ....  
 ....  
 ....  
 Bernabe de la Torre  
 Arthur L. Smith, Mgr.  
 Ruth Pritchard  
 Dr. Giles N. Knight, Mgr.

**1130 kcs. (265.3 m.)**

CMJI ... C 200  
 KSL C 50000  
 WJJD L 20000  
 XEJP ... 100

a Ciego de Avila, Cuba  
 a Salt Lake City, Utah  
 a Chicago, Ill.  
 z Mexico City, D. F.

Gilberto Gesse Lopez  
 E. G. Pack; Earl J. Glade  
 J. L. Allabough  
 Salvador Monterrubio R.

**1140 kcs. (263 m.)**

CMBG ... N 200  
 KVOO N 25000  
 WAPI C 5000  
 WSPR LM 500

z Havana, Cuba  
 a Tulsa, Okla.  
 a Birmingham, Ala.  
 a Springfield, Mass.

John J. Stowers  
 Wm. B. Way, Mgr.  
 N. McFarland  
 Hillis W. Holt

**1150 kcs. (260.7 m.)**

WHAM N 50000  
 XEBP ... 250  
 XEC ... 100  
 XEDW ... 300  
 XEL ... 250  
 XEXH ... 400  
 .... P 1000

a Rochester, N. Y.  
 z Durango, Dgo.  
 a Tijuana, B. Cfa.  
 a Minatitlan, Ver. C.  
 z Mexico City, D. F.  
 z Oaxaca, Oax.  
 z Holguin, Cuba

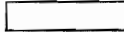
John J. Long, Ch. Eng.  
 ....  
 Manuel Cano M.  
 Luis F. Encisco  
 Hector Silva Canto  
 ....  
 ....

XEAF ... 750  
 XEK X 100  
 XES ... 250  
 .... P 1000

a Nogales, Son.  
 a Mexico City, D. F.  
 a Tampico, Tam.  
 z Pinar del Rio, Cuba

.....  
 Fernando Sada  
 Arturo Martinez  
 .....

**1000 kcs. (299.8 m.)**

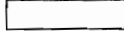


CMKG ... 10000  
 KFVD L 1000  
 TIFA ... 250  
 WHO KR 50000  
 XEBI ... 250

z Santiago de Cuba  
 a Los Angeles, Calif.  
 z San Jose, C. Rica  
 a Des Moines, Iowa  
 a Aguascalientes, Ags.

.....  
 Frank Burke, Mgr.  
 Francisco Ariel  
 Paul A. Loyat, Ch. Eng.  
 Pedro C. Rivas

**1010 kcs. (296.9 m.)**



CHML F 100  
 CKCK F 1000  
 CKCO F 100  
 CKIC ... 50  
 CKWX F1 100  
 CMCU ... 200  
 KGGF M2 1000  
 KOW M 1000 (5)  
 WHN ... 1000 (5)  
 WNAD 2 1000  
 WNOX C 1000 (5)  
 XEFQ ... 50  
 XEU ... 500

a Hamilton, Ont.  
 a Regina, Sask.  
 a Ottawa, Ont.  
 a Wolfville, N. S.  
 a Vancouver, B. C.  
 a Havana, Cuba  
 a Coffeyville, Kans.  
 a San Jose, Calif.  
 a New York, N. Y.  
 a Norman, Okla.  
 a Knoxville, Tenn.  
 a Cananea, Son.  
 a Veracruz, Ver. C.

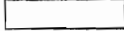
.....  
 Dr. G. H. Geldert  
 .....

Jorge Garcia Serra  
 Hugh J. Powell  
 C. S. Harper, Mgr.  
 .....

T. M. Beard, Prog. Dir.  
 Pedro L. Diaz  
 .....

Fernando Pazos S.

**1020 kcs. (293.9 m.)**



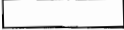
CMHO ... ..  
 CMJK ... 200  
 KYW R 10000  
 WDZ D 1000  
 XEJ ... 1000

z Sagua la Grande, Cuba  
 a Camaguey, Cuba  
 b Philadelphia, Pa.  
 a Tuscola, Ill.  
 a Juarez, Chih.

.....  
 .....

Leslie W. Joy, Mgr.  
 Mark C. Spies, Ch. Eng.  
 Pedro Meneses, Jr.

**1030 kcs. (291.1 m.)**



CFCN F 10000  
 CJBR F 1000  
 CKLW FM 5000  
 CMKW ... 1000  
 TIHO ... 500  
 XEB ... 20000  
 .... P 1000

a Calgary, Alta.  
 a Rimouski, P. Q.  
 a Windsor, Ont.  
 z Santiago de Cuba  
 z San Jose, C. Rica  
 a Mexico City, D. F.  
 z Santiago de Cuba

E. Marshall  
 J. A. Brilliant  
 .....

Claudio Alvarez Soriano  
 Guillermo Zuniga R.  
 .....

**1040 kcs. (288.3 m.)**



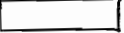
KRLD C 50000  
 KWJJ HL 500  
 KYOS DM 250  
 VOCM ... 100  
 WTIC HR 50000  
 .... P 1000

a Dallas, Texas  
 a Portland, Ore.  
 a Merced, Calif.  
 z St. John's, Nfld.  
 a Hartford, Conn.  
 z Matanzas, Cuba

John W. Runyon  
 Art Morey, Ann'cr.  
 John W. Crews, Mgr.  
 .....

T. C. McCray  
 .....

**1050 kcs. (285.5 m.)**



CBA F 50000  
 CMCH ... ..  
 HIT ... 50  
 KFBI LY2 5000  
 KNX C 50000  
 WEAU L2 1000 (5)  
 WIBC D 1000

a Sackville, N. B.  
 z Havana, Cuba  
 z Trujillo, D. R.  
 a Abilene, Kans.  
 a Los Angeles, Calif.  
 a Eau Claire, Wis.  
 a Indianapolis, Ind.

.....  
 .....

A. L. Pichardo  
 Donald Thornburgh, Mgr.  
 .....

**1060 kcs. (282.8 m.)**



KTHS HN 10000  
 VOAC 1065 40  
 WBAL BM 10000  
 WJAG L 1000

a Hot Springs, Ark.  
 z St. John's, Nfld.  
 a Baltimore, Md.  
 a Norfolk, Nebr.

Mary F. Loyd, Sec'y.  
 .....

Gerald Cooke, Ch. Eng.  
 Art Thomas, Mgr.

**1070 kcs. (280.2 m.)**



CMJW ... 200  
 KJBS L 500  
 TINBC P 5000  
 WCAZ D 100  
 WTAM R 50000

z Camaguey, Cuba  
 z San Francisco, Calif.  
 z San Jose, C. Rica  
 a Carthage, Ill.  
 a Cleveland, Ohio

M. Caymares Silva  
 Miriorn Ford, Traffic Dept.  
 Oscar Martinez N.  
 .....

May Draxell

RADEX

CMKD ... 1000  
XENT Q 5000

a Santiago de Cuba  
a Nuevo Laredo, Tam.

Francisco Meneau  
T. Yount, Mgr.

920 kcs. (325.9 m.)

CMHT ... 200  
CMZ ... 5000  
KFEL M 1000  
KOMO R 1000(5)  
KPRC ER 1000(5)  
TIRS 925 200  
WAAF D 1000  
WORL D 500  
WPEN ... 1000  
WSPA D 1000  
WWJ R 1000(5)  
XEON ... 2000

z Trinidad, Cuba  
z Havana, Cuba  
a Denver, Colo.  
a Seattle, Wash.  
a Houston, Texas  
z San Jose, C. Rica  
a Chicago, Ill.  
a Boston, Mass.  
a Philadelphia, Pa.  
a Spartanburg, S. C.  
a Detroit, Mich.  
z Tijuana, B. Cfa.

F. E. Soto del Valle  
Gene O'Fallon, Mgr.  
Lee Barnes, Aud. Mail Dept.  
Kery Tips, Mgr.  
Rogelio Sotela B.  
Wm. E. Hutchinson, Mgr.  
E. S. Long, Ch. Eng.  
Ty Tyson

930 kcs. (322.4 m.)

CFAC F 1000  
CFCH F 100  
CFLC ... 100  
CHNS F 1000  
CKPC ... 100  
CMJF ... 200  
KMA B 1000(5)  
KROW ... 1000  
WBRC R 1000(5)  
WDBJ C 1000(5)  
WELI ... 250(.5)  
XEBH ... 500

a Calgary, Alta.  
a North Bay, Ont.  
a Prescott, Ont.  
a Halifax, N. S.  
z Brantford, Ont.  
z Camaguey, Cuba  
a Shenandoah, Iowa  
a Oakland, Calif.  
a Birmingham, Ala.  
a Roanoke, Va.  
a New Haven, Conn.  
a Hermosillo, Son.

R. H. Thomson  
Vincente Salgado  
J. Rapp, Mgr.  
H. P. Drey, Mgr.  
James T. Milne, Mgr.  
Carlos Balderrama

940 kcs. (319 m.)

CMBZ ... 200  
KOIN CX 1000(5)  
TIOS ... 500  
WAAT D 500  
WAVE N 1000  
WCSH R 1000(2.5)  
WDAY N 1000(5)  
WHA D 5000  
WICA DX 250  
KEFO ... 5000

a Havana, Cuba  
a Portland, Ore.  
z San Jose, C. Rica  
a Jersey City, N. J.  
a Louisville, Ky.  
a Portland, Maine  
a Fargo, N. Dak.  
a Madison, Wis.  
a Ashtabula, Ohio  
a Mexico City, D. F.

Manuel Salas  
B. J. Parrish, Mgr.  
Guillermo Castro S.  
Paul H. LaStayo, Mgr.  
G. Fred Crandon, Ch. Eng.  
Julius Hetland, Ch. Eng.  
C. A. Rowley

950 kcs. (315.6 m.)

CBV F 1000  
CJRM F 1000  
CMKL ... 200  
KFWB E 5000  
KMBC CX 1000(5)  
VOAR ... 25  
WHAL DP 500  
WRC RX 1000(5)  
WTRY DP 1000

a Quebec, P. Q.  
a Regina, Sask.  
z Bayamo, Cuba  
a Los Angeles, Calif.  
a Kansas City, Mo.  
z St. John's, Nfld.  
z Saginaw, Mich.  
a Washington, D. C.  
z Troy, N. Y.

Alberto Alvarez Ferrera  
Harry Maizlish, Mgr.  
Arthur B. Church, Mgr.  
Audience Mail Dept.

960 kcs. (312.3 m.)

CBM FR 5000  
CFRN F 100  
CMKY ... 5000  
XEAW ... 100000

a Montreal, P. Q.  
a Edmonton, Alta.  
z Santiago de Cuba  
a Reynosa, Tam.

H. D. Munal

970 kcs. (309.1 m.)

CMCK ... 5000  
KJR B 5000  
WCFL N 5000  
WIBG D 100

z Havana, Cuba  
a Seattle, Wash.  
a Chicago, Ill.  
a Glenside, Pa.

Luis Casas R.  
Audience Mail Dept.  
Maynard Marquardt, Ch. Eng.

980 kcs. (306 m.)

KDKA B 50000  
XEAC ... 5000  
XEFE ... 250

b Pittsburgh, Pa.  
a Tijuana, B. Cfa.  
z Nuevo Laredo, Tam.

A. E. Nelson Mgr.  
Jorge I. Revera  
Rafael T. Carranza

990 kcs. (302.8 m.)

WBZ BS 50000  
WBZA BS 1000

a Boston, Mass.  
a Springfield, Mass.

Dwight Myer, Ch. Eng.  
H. E. Randol, Mgr.

840 kcs. (356.9 m.)

CBL	F	5000
VOGY	...	400
XERA	...	250000

a	Toronto, Ont.
a	St. John's, Nfld.
a	Villa Acuna, Coah.

W. C. Little, Ch. Eng.  
 ....  
 Don Howard

850 kcs. (352.7 m.)

CMCM	...	200
KIEV	D	250
WESG	CD	1000
WKAR	DX	1000
WWL	C	50000

a	Havana, Cuba
a	Glendale, Calif.
a	Elmira, N. Y.
a	E. Lansing, Mich.
a	New Orleans, La.

V. Montes  
 David H. Cannon  
 True McLean, Ch. Eng.  
 Norris Grover, Ch. Eng.  
 J. D. Bloom, Ch. Eng.

860 kcs. (348.6 m.)

CMJA	...	200
TIEMC	...	250
WABC	Ca	50000
WBOQ	QA	50000
WHB	DM	1000
XEMO	...	5000

a	Camaguey, Cuba
z	San Jose, C. Rica
a	New York, N. Y.
a	New York, N. Y.
a	Kansas City, Mo.
a	Tijuana, B. Cfa.

Rafael Valdes  
 Rafael Hine Ch.  
 ....  
 ....  
 M. H. Straight, Mgr.  
 Fernando Federico Ferreira

870 kcs. (344.6 m.)

WENR	Ba	50000
WLS	Ba	50000
XEFB	...	200
....	P	1000

b	Chicago, Ill.
a	Chicago, Ill.
a	Monterrey, N. L.
z	Ciego de Avila, Cuba

....  
 T. L. Rowe, Ch. Eng.  
 Jesus Quintanilla  
 ....

880 kcs. (340.7 m.)

CBO	F	1000
CFJC	F	1000
CMX	...	15000
KFKA	M2	500(1)
KLX	...	1000
KPOF	Z	1000
KVAN	D	250
TILS	...	500
WCOC	C	1000
WGBI	CI	500(1)
WQAN	I	500(1)
WRNL	DX	500
WSUI	X	500(1)

a	Ottawa, Ont.
a	Kamloops, B. C.
a	Havana, Cuba
a	Greeley, Colo.
a	Oakland, Calif.
z	Denver, Colo.
z	Vancouver, Wash.
b	San Jose, C. Rica
a	Meridan, Miss.
f	Scranton, Pa.
a	Scranton, Pa.
a	Richmond, Va.
a	Iowa City, Iowa

Lillian E. de Olloqui  
 L. Irwine, Ch. Eng.  
 Raoul Karman, Dir.  
 H. E. Green, Mgr.  
 P. D. Allen, Mgr.  
 Wesley O. Lomlin, Annc'r.  
 Paul W. Spargo, Ch. Eng.  
 Luis Saenz Mata  
 John B. Rogers, Ch. Eng.  
 K. R. Cooke, Ch. Eng.  
 ....  
 Walter R. Selden, Ch. Eng.  
 Sylvanus Ebert, Ch. Eng.

890 kcs. (336.9 m.)

KARK	N	1000
KFNF	X2	500(1)
KFPY	C	5000
KTKC	M	1000
KUSD	Z	500
WBAA	...	500(1)
WGST	C	1000(5)
WJAR	R	1000(5)
WMMN	C	1000(5)
XEW	...	100000

a	Little Rock, Ark.
a	Shenandoah, Iowa
a	Spokane, Wash.
f	Visalia, Calif.
a	Vermillion, S. Dak.
a	W. Lafayette, Ind.
a	Atlanta, Ga.
a	Providence, R. I.
a	Falmont, W. Va.
a	Mexico City, D. F.

Jack Lewis, Prog. Dir.  
 Wm. MacDonald, Com. Mgr.  
 T. W. Symons, Mgr.  
 Chas. P. Scott, Mgr.  
 B. B. Brockett, Mgr.  
 Ralph R. Townsley, Ch. Eng.  
 Ben Akerman, Ch. Eng.  
 Thomas Prior, Ch. Eng.  
 J. R. Hæck, Ch. Eng.  
 ....

900 kcs. (333.1 m.)

HIG	...	250
KGBU	X	500
KHJ	M	1000(5)
KSEI	N	250(1)
TIAFB	...	500
WBEN	R	1000(5)
WFMD	D	500
WJAX	N	1000(5)
WKY	N	1000(5)
WLBL	D	5000
WTAD	D	1000

z	Trujillo, D. R.
a	Ketchikan, Alaska
a	Los Angeles, Calif.
a	Pocatello, Idaho
z	San Jose, C. Rica
a	Buffalo, N. Y.
a	Frederick, Md.
a	Jacksonville, Fla.
a	Oklahoma City, Okla.
a	Stevens Point, Wis.
a	Quincy, Ill.

Andres Cordero Puello  
 James A. Britton, Mgr.  
 Lewis Allen Weiss, Mgr.  
 R. A. Fletcher, Prog. Dir.  
 Mayid Borzuna  
 Ralph Kingsley, Ch. Eng.  
 John A. Fels, Ch. Eng.  
 Harry Cole, Mgr.  
 Earl C. Hull, Ch. Eng.  
 F. R. Calvert, Mgr.  
 Paul E. Miller, Ch. Eng.

910 kcs. (329.6 m.)

CBF	FN	50000
CJAT	F	1000
CKY	F	15000
CMBO	...	5000

a	Montreal, P. Q.
a	Trail, B. C.
a	Winnipeg, Man.
a	Havana, Cuba

....  
 ....  
 ....  
 ....

**750 kcs. (399.8 m.)**

CMBL	...	5000
KGU	LN	2500
TING	...	375
WJR	C	50000
XEAA	...	200
XEAM	...	25

- a Havana, Cuba
- a Honolulu, Hawaii
- z San Jose, Costa Rica
- a Detroit, Mich.
- a Mexicali, B. Cfa.
- z Matamoros, Tam.

Laureano Suarez  
 Marion A. Mulrony, Mgr.  
 Narcisco Garcia  
 Geraldine Elliott, Prog. Dir.  
 Alberto Gonzalez  
 Manuel L. Salinas

**760 kcs. (394.5 m.)**

KXA	X	250(.5)
WBAL	BHMS	2500
WCAL	D2	5000
WEW	D	1000
WJZ	BS	50000
WLB	D2	5000

- a Seattle, Wash.
- a Baltimore, Md.
- a Northfield, Minn.
- a St. Louis, Mo.
- a New York, N. Y.
- a Minneapolis, Minn.

Florecen Wallace, Mgr.  
 Gerald Cooke, Ch. Eng.  
 Milford Jensen, Ch. Eng.  
 Geo. Rueppel, Ch. Eng.  
 Audience Mail Dept.  
 Waldemar Klima, Ch. Eng.

**770 kcs. (389.4 m.)**

KFAB	CSXZ	10000
TILJ	775	450
WBBM	CS	50000

- a Lincoln, Nebr.
- z San Jose, C. Rica
- a Chicago, Ill.

Mark W. Bullock, Tech. Dir.  
 Lola Monje Peralta  
 A. Boyes

**780 kcs. (384.4 m.)**

CHWK	F	100
CKSO	F	1000
CMQ	N	25000
KECA	...	1000(5)
KFDY	D	1000
KFOD	...	250
KGHL	N	1000(5)
WEAN	BM	1000(5)
WMC	JR	5000
WPIC	D	250
WTAR	N	1000(5)
XEN	...	1000

- f Chilliwack, B. C.
- a Sudbury, Ont.
- a Havana, Cuba
- a Los Angeles, Calif.
- a Brookings, S. Dak.
- b Anchorage, Alaska
- a Billings, Mont.
- a Providence, R. I.
- a Memphis, Tenn.
- a Sharon, Pa.
- g Norfolk, Va.
- a Mexico City, D. F.

Jack Pilling, Ch. Eng.  
 W. E. Mason  
 Miquel Gabriel, Adm.  
 Jack Gross, Mgr.  
 S. W. Jones, Mgr.  
 R. E. McDonald, Mgr.  
 Ed Yocum, Mgr.  
 Rose M. Powers  
 J. C. Eggleston, Mgr.  
 John MacDonald, Eng.  
 Lee Chadwick, DX  
 Correspondent  
 Guillermine de del Conde

**790 kcs. (379.5 m.)**

KGO	B	7500
KOAM	DN	1000
WGY	R	50000
ZNS	...	1000

- a San Francisco, Calif.
- a Pittsburg, Kans.
- a Schenectady, N. Y.
- d Nassau, Bahamas

Lloyd E. Yoder, Mgr.  
 R. L. Jones, Eng.  
 W. J. Purcell, Ch. Eng.  
 K. P. Brown, Sec'y.

**800 kcs. (374.8 m.)**

HIX	...	800
TIXD	...	1000
WBAP	ENa	50000
WFAA	ENa	50000
WTBO	D	250

- a Trujillo, D. R.
- z San Jose, Costa R.
- a Fort Worth, Texas
- a Dallas, Texas
- a Cumberland, Md.

J. R. Saladin  
 Andrea Venegas  
 Ellen Flake, Sec'y.  
 Irvin Gross, Mgr.  
 Geo. R. Lenhart, Ch. Eng.

**810 kcs. (370.2 m.)**

CMCF	...	5000
WCCO	C	50000
WNYC	D	1000
XEBZ	...	100
XEDF	...	100

- a Havana, Cuba
- g Minneapolis, Minn.
- a New York, N. Y.
- a Mexico City, D. F.
- a Nuevo Laredo, Tam.

Oscar Gutierrez  
 Hugh McCartney, Ch. Eng.  
 Issac Brimberg, Ch. Eng.  
 ...  
 Ruperto Villarreal

**820 kcs. (365.6 m.)**

WHAS	C	50000
XEBG	...	1000

- a Louisville, Ky.
- z Tijuana, B. Cfa.

Credo Fitch Harris, Dir.  
 Angel B. Fernandez

**830 kcs. (361.2 m.)**

CMHI	E	1000
KOA	R	50000
TIEP	...	3000
WEEU	DR	1000
WHDH	L	1000
WRUF	L	5000
XERC	...	500

- a Santa Clara, Cuba
- a Denver, Colo.
- a San Jose, C. Rica
- a Reading, Pa.
- a Boston, Mass.
- a Gainesville, Fla.
- z Mexico City, D. F.

...  
 T. E. Stepp  
 Eduardo Pinto H.  
 M. Leonard Savage, Eng.  
 M. Bresnahan  
 Joseph Weil, Ch. Eng.  
 Carlos Dragome Narro



650 kcs. (461.3 m.)

TIGPH P  
WSM KN 50000

z San Jose, C. R.  
a Nashville, Tenn.

Gonzalo Pinto H.  
Harry Stone, Gen. Mgr.

660 kcs. (454.3 m.)

CMJX ... 200  
CMOA ... 200  
KOWH BD 500  
WEAF R 50000  
XEAO ... 250

z Camaguey, Cuba  
z Havana, Cuba  
a Omaha, Nebr.  
a New York, N. Y.  
a Mexicali, B. Cfa.

Rodolfo Gonzales S.  
Juan Fernandez D.  
W. F. Myers, Mgr.  
Audience Mail Dept.  
....

670 kcs. (447.5 m.)

WMAQ R 50000  
XELO ... 50000  
.... P 1000

b Chicago, Ill.  
a Tijuana, B. Cfa.  
z Jovellanos, Cuba

Audience Mail Dept.  
....  
....

680 kcs. (440.9 m.)

CMHW ... 200  
KFEQ ... 500(2.5)  
KPO R 50000  
VAS 685 2000  
WLAW D 1000  
WPTF JN 5000

f Santa Clara, Cuba  
a St. Joseph, Mo.  
a San Francisco, Calif.  
f Glace Bay, N. S.  
a Lawrence, Mass.  
a Raleigh, N. C.

Guillermo Domenech G.  
J. Wesley Koch, Ch. Eng.  
Audience Mail Supervisor  
....  
Geo. R. Leckley, Ch. Eng.  
Graham Poyner, Prog. Dir.

690 kcs. (434.5 m.)

CFRB C 10000  
CJCJ F 100  
CMBC ... 5000  
TIGH ... 1000  
XET ... 5000

a Toronto, Ont.  
a Calgary, Alta.  
z Havana, Cuba  
b San Jose, Costa Rica  
a Monterrey, N. L.

H. Sedgwick, Man. Dir.  
R. H. Henderson, Ch. Eng.  
O. Fernandez  
Gonzalo Garcia  
....

700 kcs. (428.3 m.)

VOWR ... 500  
WLW KN 50000  
WBXO Exp 500000

b St. John's, Nfld.  
a Cincinnati, Ohio  
a Cincinnati, Ohio

....  
Wilfred Guenther, Mgr.  
Wilfred Guenther, Mgr.

710 kcs. (422.3 m.)

CMGH ... 200  
CMKS ... 200  
KIRO C 1000  
KMPC C 1000(5)  
WOR KM 50000  
.... P 1000

a Matanzas, Cuba  
a Guantanamo, Cuba  
a Seattle, Wash.  
a Beverly Hills, Calif.  
a Newark, N. J.  
z Camaguey, Cuba

....  
....  
H. J. Quilliam, Mgr.  
L. A. Schambin, Mgr.  
J. R. Poppele, Ch. Eng.  
....

720 kcs. (416.4 m.)

CMK ... 200  
TI4NRH 725 750  
WGN KM 50000  
XEWE ... 20

a Havana, Cuba  
f Heredia, Costa Rica  
b Chicago, Ill.  
z Silao, Gto.

Fausto Mentiel  
Amando Cespedes Marin  
Quinn A. Ryan, Gen. Mgr.  
....

730 kcs. (410.7 m.)

CFPL F 100  
CJCA F 1000  
CKAC C 5000  
XEQ ... 50000  
.... P 1000

a London, Ont.  
a Edmonton, Alta.  
a Montreal, P. Q.  
a Mexico City, D. F.  
z Victoria Tunas, Cuba

L. J. Yorke, Ch. Eng.  
W. T. Cranston, Mgr.  
Leonard Spencer, Ch. Eng.  
J. M. Marroqui II  
....

740 kcs. (405.2 m.)

KMMJ L 1000  
KTRB D 250  
WHFB D 250  
WSB R 50000  
XEH ... 250  
XEPN AQ 50000  
.... P 1000

a Grand Island, Nebr.  
a Modesto, Calif.  
a Portsmouth, N. H.  
a Atlanta, Ga.  
a Monterrey, N. L.  
z Piedras Negras, Coah.  
z Guantanamo, Cuba

Randall Ryan, Mgr.  
Don R. Stevens  
T. R. McTammany, Mgr.  
C. F. Daugherty, Ch. Eng.  
Constantino de Ternava  
....  
....

CKUA	F	500
KMJ	EKN	1000
KSAC	2	500(1)
WCHS	C	500(5)
WDBO	C	1000(5)
WIBW	C2	1000(5)
WILL	D	5000
WTAG	R	1000
XEMU	...	250

**590 kcs. (508.2 m.)**

CMCY	...	15000
KHQ	ER	5000
WEEI	C	5000
WKZO	BDX	1000
WOW	R	5000

**600 kcs. (499.7 m.)**

CFCF	BF	500
CFQC	F	1000
CJOR	...	500
FON	609	250
KFSB	B	1000
TIGPH	605	1000
WCAO	C	500(1)
WICC	BM	500(1)
WMT	BM	1000(5)
WREC	C	1000(5)

**610 kcs. (491.5 m.)**

CHNC	F	1000
KFAR	...	1000
KFRK	MX	1000(5)
WCLE	DM	500
WDAF	R	5000
WIOD	Na	1000
WIP	X	1000
WMBF	Qa	1000

**620 kcs. (483.6 m.)**

KGW	R	1000(5)
KTAR	N	1000
KWFT	C	250(1)
TIPG	625	5000
WFLA	Na	1000(5)
WHJB	D	250
WLBZ	MN	500(1)
WSUN	Na	1000(5)
WTMJ	N	1000(5)

**630 kcs. (475.9 m.)**

CFCO	F	100
CFCY	F	1000
CJRC	F	1000
CKOV	F	1000
CMCD	...	15000
KFRU	i	500(1)
KGFX	D	200
KVOD	B	1000
WGBF	N1	500(1)
WMAL	BX	250(5)
WPRO	C	1000(5)
XEZ	...	2000

**640 kcs. (468.5 m.)**

HOK	...	...
KFI	R	50000
VONF	...	12500
WGAN	CL	500
WHKC	LM	500
WOI	D	5000
XEBX	...	250
YSS	...	500

- b Edmonton, Alta.
- a Fresno, Calif.
- a Manhattan, Kans.
- a Charleston, W. Va.
- a Orlando, Fla.
- a Topeka, Kans.
- a Urbana, Ill.
- a Worcester, Mass.
- z Piedras Negras, Coah.

- a Havana, Cuba
- a Spokane, Wash.
- a Boston, Mass.
- a Kalamazoo, Mich.
- a Omaha, Nebr.

- a Montreal, P. Q.
- a Saskatoon, Sask.
- a Vancouver, B. C.
- a St. Pierre, Miquelon
- a San Diego, Calif.
- a San Jose, Costa Rica
- a Baltimore, Md.
- f Bridgeport, Conn.
- a Cedar Rapids, Iowa
- a Memphis, Tenn.

- a New Carlisle, P. Q.
- z Fairbanks, Alaska
- b San Francisco, Calif.
- a Cleveland, Ohio
- a Kansas City, Mo.
- a Miami, Fla.
- a Philadelphia, Pa.
- a Miami, Fla.

- a Portland, Ore.
- a Phoenix, Ariz.
- z Wichita Falls, Tex.
- b San Jose Costa Rica
- a Tampa, Fla.
- a Greensburg, Pa.
- a Bangor, Maine
- a St. Petersburg, Fla.
- a Milwaukee, Wis.

- a Chatham, Ont.
- a Charlottetown, P. E. I.
- a Winnipeg, Man.
- a Kelona, B. C.
- a Havana, Cuba
- a Columbia, Mo.
- a Pierre, S. Dak.
- a Denver, Colo.
- a Evansville, Ind.
- a Washington, D. C.
- a Providence, R. I.
- a Merida, Yuc.

- z Colon, Panama
- f Los Angeles, Calif.
- a St. John's, Nfld.
- a Portland, Maine
- a Columbus, Ohio
- a Ames, Iowa
- z Sabinas, Cosh.
- a San Salvador, E. S.

- ....
- I. E. Dickinson, Ch. Eng.
- L. L. Longsdorf, Prog. Dir.
- Odes Robinson, Ch. Eng.
- James E. Yarbrough, Ch. Eng.
- Ben Ludy, Gen. Mgr.
- A. James Ebel, Ch. Eng.
- Lillian Murphy, Prog. Dir.
- ....

- A. Valdes, Gen. Mgr.
- Harvey Wixson, Mgr.
- Margaret Grady
- John Fetzer, Gen. Mgr.
- Wm. Kotera, Ch. Eng.

- Kenneth Paul, Ch. Eng.
- A. A. Murphy, Gen. Mgr.
- D. E. Laws, Mgr.
- G. Salomon
- Leah McMahon, Prog. Dir.
- Gonzalo Pinto, H.
- M. W. Lewis
- aGro Ray, Ch. Eng.
- C. F. Quentinn, Ch. Eng.
- S. D. Wooten Jr., Ch. Eng.

- Dr. Charles Houde, owner
- A. E. Lathrop, owner
- Ward Ingram, Mgr.
- E. L. Gove, Tech. Sup.
- J. A. Flaherty, Ch. Eng.
- Ruth Richardson
- James Allen Prog. Dir.
- ....

- H. C. Singleton, Ch. Eng.
- Richard Lewis, Mgr.
- D. A. Kahn, Mgr.
- Claudia Hartinos
- W. Walter Tison, Mgr.
- Walter McCoy, Ch. Eng.
- Lucille Weeks
- Louis Link, Ch. Eng.
- Don Abert, Mgr.

- John Beardall
- John Q. Adams, Ch. Eng.
- G. A. Titus, Mgr.
- James Browne, Ch. Eng.
- J. Benitez, Mgr.
- Robert Haigh, Ch. Eng.
- Robt. Dye, Ch. Eng.
- T. C. Ekrem, Mgr.
- Pat Roper, Prog. Dir.
- A. E. Johnson, Ch. Eng.
- Margaret O'Rourke
- Jorge Palomeque

- ....
- Dorothy Roe
- ....
- C. E. Gatchell
- J. E. Anderson, Ch. Eng.
- W. E. Stewart, Ch. Eng.
- Benito Garzo O.
- ....

# NORTH AMERICAN BROADCASTING STATIONS BY FREQUENCIES WITH VERIFICATION SIGNERS

## 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 and daytime power is shown in parentheses in kilowatts. Thus: (.25) indicates 250 watts. Exact frequencies, when not multiples of ten are shown in the second column.

### Second Column Symbols

- A—Status in doubt.
- B—National "Blue" Network.
- C—Columbia Network.
- D—Daytime only.
- E—Minor Network.
- F—Canadian Network.
- G—Specified Hours.
- H—Assigned another frequency using this one under Special Authorization.
- J—Assigned lower power but using this power under Special Authorization.
- K—Licensed for facsimile.
- L—Limited time.
- M—Mutual Network.

N—National "Red" and "Blue" Networks.

P—Has Construction Permit only.

Q—Station not in use.

R—National "Red" Network.

S—Synchronized.

X—Has Permit to change power.

Y—Has Permit to change location.

Z—Has Permit to change frequency.

a-b-c—Small letters show stations using same trans-

mitter.

1-2-3—Figures denote stations sharing time.

?—Reported but not officially confirmed.

....—No information.

a—verifies for return postage.

b—Verifies only occasionally.

d—Verifies for government postal card.

e—Verifies free.

f—Verifies for 10 cents.

g—Card for postage; veri stamp for 10c.

z—No information available.

### 540 kcs. (552.2 m.)

CBK F 50000

a Watrous, Sask. ....

### 550 kcs. (545.1 m.)

CFNB F 1000  
 CMW ... 2500  
 KFUD 2 500(1)  
 KFVR N 1000(5)  
 KOAC ... 1000  
 KOY C 1000  
 KSD 2R 1000(5)  
 K TSA C 1000(5)  
 WDEV D 1000  
 WGR CM 1000(5)  
 WKRC 1000(5)  
 W SVA DX 500

a Fredericton, N. B. ....  
 a Havana, Cuba ....  
 a St. Louis, Mo. ....  
 a Bismarck, N. Dak. ....  
 a Corvallis, Ore. ....  
 g Phoenix, Ariz. ....  
 a St. Louis, Mo. ....  
 a San Antonio, Texas ....  
 a Waterbury, Vt. ....  
 a Buffalo, N. Y. ....  
 a Cincinnati, Ohio ....  
 a Harrisonburg, Va. ....

Herman Hohenstein Mgr.  
 W. R. Griffin, DX Ann'cr.  
 Luke L. Roberts, Mgr.  
 ....  
 Geo. Burbach, Mgr.  
 G. W. Johnson, Mgr.  
 Melvin Stickles, Ch. Eng.  
 I. R. Lounsbury, Gen. Mgr.  
 Vera Tyson  
 Wendell Siler Prog. Dir.

### 560 kcs. (535.4 m.)

KFDM N 1000  
 KLZ CX 1000(5)  
 KSFO C 1000(5)  
 KWTO D 5000  
 WFIL BM 1000  
 WIND C 1000(5)  
 WIS N 1000(5)  
 WQAM C 1000

a Beaumont, Texas ....  
 a Denver, Colo. ....  
 a San Francisco, Calif. ....  
 a Springfield, Mo. ....  
 a Philadelphia, Pa. ....  
 a Gary, Ind. ....  
 a Columbia, S. C. ....  
 a Miami, Fla. ....

Bernice Anderson, Sec'y.  
 G. W. Meyer, Mgr.  
 Philip G. Lasky, Mgr.  
 Ralph D. Foster, Mgr.  
 Roger W. Clipp, Gen. Mgr.  
 Kenneth Shirk, Ch. Eng.  
 Floyd Rodgers, Prog. Dir.  
 Norman MacKay, Prog. Dir.

### 570 kcs. (526 m.)

KGKO N 1000(5)  
 KMTR ... 1000  
 KVI C 1000(5)  
 TISCV 575 100  
 WKBN C1 500(1)  
 WMAM D 250  
 WMCA ... 1000  
 WNAX C 1000(5)  
 WOSU G1 1000  
 WSYR Ba 1000  
 WSYU Qa 1000  
 WWNC C 1000  
 .... P 1000

a Fort Worth, Tex. ....  
 a Los Angeles, Calif. ....  
 a Tacoma, Wash. ....  
 z Alajuela, Costa Rica ....  
 a Youngstown, Ohio ....  
 z Marinette, Wis. ....  
 a New York, N. Y. ....  
 a Yankton, S. Dak. ....  
 a Columbus, Ohio ....  
 a Syracuse, N. Y. ....  
 a Syracuse, N. Y. ....  
 a Asheville, N. C. ....  
 z Santa Clara, Cuba ....

Harold V. Hough, Mgr.  
 Kenneth Tinkham, Mgr.  
 J. W. Wallace, Ch. Eng.  
 Carlos Lindberg A.  
 C. L. Lindberg  
 ....  
 F. Hapton  
 Clifton Todd, Ch. Eng.  
 A. Hammerschmidt, Ch. Eng.  
 Armand G. Belle Isle Ch. Eng.  
 Armand G. Belle Isle Ch. Eng.  
 G. B. Hoskins Ch. Eng.  
 ....

### 580 kcs. (516.9 m.)

CFPR ... 50  
 CHRC ... 100  
 CKCL F 100  
 CKPR F 1000

a Prince Rupert, B. C. ....  
 a Quebec, P. Q. ....  
 a Toronto, Ont. ....  
 a Fort William, Ont. ....

Felix E. Batt  
 ....  
 ....  
 ....

San Juan, P. R., United Theaters, Inc., 580 kcs. 1 kw. unlt'd.  
 Santa Monica, Calif., A. E. Austin, 1160 kcs. 100(.25).  
 Shelby, N. C., Jos. A. Lattimore, 1370 kcs. 100(.25) unlt'd.  
 Springfield, Ohio, Radio Voice of Springfield, 1310 kcs. 100 unlt'd.  
 Springfield, Ohio, S. Radio Corp., 1310 kcs. 100 unlt'd.  
 Springfield, Ohio, S. Radio Service, 780 kcs. 250 days.  
 Steubenville, Ohio, Valley Brdcstg. Co., 930 kcs., 1 kw D.  
 Tacoma, Wash., Tacoma Brdcstg. Co., 1420 kcs. 100(.25).  
 Tacoma, Wash., Michael J. Mingo, 1400 kcs. 250 unlt'd.  
 Traverse City, Mich., Northern Brdcstg. Co., 570 kcs. 500 days.

Valdosta, Ga., John F. Arrington, Jr., 1230 kcs. 250 unlt'd.  
 Watertown, N. Y., Black River Valley Brdcstg. Co.  
 Watertown, N. Y., Watertown Brdcstg. Corp.  
 Watertown, S. Dak., Midland Brdcstg. Co., 1210 kcs., 100(.25).  
 kcs. 250 days.  
 Wisconsin Rapids, Wis., Wm. F. Huffman, 1310 kcs., 100(.25).  
 Worcester, Mass., Winfield A. Schuster, 1200 kcs. 100 unlt'd.  
 Worcester, Mass., C. T. Sherer Co., Inc., 1200 kcs. 100(.25).

**Stations Using Special Frequencies**

Call	City	Assigned	Using
KTHS	Hot Springs	1040	1060
WTIC	Hartford	1060	1040

**The Month Changes in Station Data**

**New**

1200 KPHO Phoenix, Ariz.  
 1200 WCBT Roanoke Rapids, N. C.  
 1200 WLOF Orlando, Fla.  
 1200 WLOG Logan, W. Va.  
 1300 WLOL Minneapolis, Minn.  
 1310 WINX Washington, D. C.  
 1370 WARM Scranton, Pa.  
 1370 WJHO Opelika, Ala.  
 1370 WKPT Kingsport, Tenn.

**Frequency**

550 KOY Phoenix, Ariz., from 1390  
 740 XEPN iPedras Negras, Coah., from 730  
 1310 CFGP Grande Prairie, Alta., from 1200  
 1370 CJOC Lethbridge, Alta., from 1210  
 1370 KWLK .ongview, Wash., from 780  
 1400 XEAU Tijuana, B. Cia., from 1310

**Location**

550 KFUO Clayton, Mo., from St. Louis.

**Power**

580 KMJ Fresno, Calif., 5000 from 1000  
 990 XEK Mexico City, D. F., 200 from 100  
 1010 XEFO Cananea, Son., 500 from 50  
 1100 KWKH Shreveport, La., 50000 from 1000  
 1200 KADA Ada, Okla., 250 from 100  
 1210 CBKI Prince Albert, Sask., 250 from 100  
 1210 WJEJ Hagerstown, Md., 250 from 100  
 1240 XEDL Navajoa, Son., 500 from 250  
 1240 XEME Merida, Yuc., 400 from 50  
 1310 XEBO Irapuato, Gto., 500 from 25  
 1320 WSMB New Orleans, La., 5000 from 1000(5)  
 1350 WMBG Richmond, Va., 1000(5) from 500

**Delete**

1010 CKCD Vancouver, B. C.  
 1100 WBIL New York City  
 1100 WPG Atlantic City, N. J.  
 1130 WOV New York City  
 1410 CKFC Vancouver, B. C.

**Permit to Change Power**

550 WSWA Harrisonburg to 1000  
 560 KLZ Denver to 5000  
 590 WKZO Kalamazoo to 250(1)  
 610 KFRC San Francisco, to 5000

610 WIP Philadelphia, to 5000  
 630 WHAL Washington, to 5000  
 740 WHEB Portsmouth, to 1000  
 760 KXA Seattle, to 1000  
 770 KFAB Lincoln, to 50,000  
 850 WKAR E. Lansing, to 5000  
 880 WRNL Richmond to 1000  
 880 WSUI Iowa City, to 1000(5)  
 890 KFNF Shenandoah, to 1000(5)  
 900 KGBU Ketchikan, to 1000  
 940 KOIN Portland, to 5000  
 950 KMBC Kansas City, to 5000  
 950 WRC Washington, to 5000  
 990 XEK Mexico City, to 500  
 1200 WSKB McComb, to 250  
 1120 KRSC Seattle, to 1000  
 1200 KADA Ada, to 250  
 1200 WJBW New Orleans, to 250  
 1210 WFPW Fort Smith, to 250  
 1210 WCOL Columbus, to 250  
 1210 WHIZ Zanesville, to 250  
 1210 WJEJ Hagerstown, to 250  
 1220 WCAE Pittsburgh, to 5000  
 1220 WDAE Tampa, to 5000  
 1300 WFBC Greenville, to 5000  
 1310 KRRV Sherman, to 1000  
 1310 KTSM El Paso, to 500  
 1310 WNBH New Bredford to 250  
 1420 KGMB Honolulu, to 5000  
 1320 WADC Akron to 5000  
 1320 WSMB New Orleans, to 5000  
 1330 KSCJ Sioux City, to 5000  
 1330 KGB San Diego, to 5000  
 1330 WDRG Hartford, to 5000  
 1330 WSAI Cincinnati, to 5000  
 1330 WTAQ Gren Bay, to 5000  
 1340 WSPD Toledo, to 5000  
 1350 KWK St. Louis, to 5000  
 1350 WMBG Richmond, to 1000(5)  
 1370 KERN Bakersfield, to 1000  
 1370 KFRO Longview, to 1000  
 1370 WMSL Decatur, to 250  
 1370 WPRA Mayaguez, to 1000(2.5)

**Permit to Change Location**

1050 KFBI Abilene, to Wichita  
 1210 WGRM Grenada, Miss., to Greenwood  
 1260 WNBX Springfield, Vt., to Keene, N. H.

**Permit to Change Frequency**

770 KFAB Lincoln, to 1080  
 1210 KFPW Fort Smith, to 1370  
 1210 WCOL Columbus, to 1200  
 1260 KPAC Port Arthur, to 1220  
 1310 KRRV Sherman, to 880  
 1310 KTSM El Paso, to 13350  
 1320 KGMB Honolulu, to 590  
 1370 KERN Bakersfield, to 1380  
 1370 KFRO Longview, to 1340

## Applications to the FCC

CP—Construction permit.  
mod.—modification.  
lic.—license.  
ltd.—limited time.  
unltd.—unlimited time.  
S. H.—specified hours.

KDON, Monterey, CP 500(1), 1440 kcs.  
KEEN, Seattle, CP 1370 kcs. to 1420 kcs.  
KFBB, Great Falls, mod. of lic. for 900 kcs.,  
5 kw.

KFLO, Spokane, CP 950 kcs., 1 kw. unltd  
KFNF, Shenandoah, mod. of CP to move  
to Council Bluffs.

KFPW, Ft. Smith, CP 1370 kcs.  
KFRU, Columbia, to 1370 kcs., 250 w. unltd.  
KFYO, Lubbock, to 1380 kcs., 500(1).  
KGM, Stockton, 1530 kcs., 1 kw. unltd.  
KMAC, San Antonio, CP 930 kcs., 1000 w.  
unltd.

KOV, Valley City, CP 1340 kcs., 500(1).  
KOY, Phoenix, mod. of lic. for 550 kcs.  
KRBC, Abilene, CP 940 from 1420; 1 kw.  
KRM, Jamestown, CP 900 kcs., 1 kw.  
KRRV, Sherman, CP 880 kcs., 1 kw. unltd.  
KSD, St. Louis, CP 630 kcs.  
KSEI, Pocatello, CP 600 kcs., 1 kw. unltd.  
KTBS, Shreveport, CP 620 kcs., 1000(5)  
unltd.

KWK, St. Louis, CP 630 kcs.  
KXL, Portland, CP 730 kcs., 10 kw. unltd.  
KXOK, St. Louis, CP 630 kcs., 1000(5).  
KXYZ, Houston, CP 710 kcs.; 10 kw.  
KYOS, Merced, CP 1390 from 1040; 500(1)  
unltd.

WAPI, Birmingham, CP 1050 kcs., kw.  
WCAD, Canton, CP Watertown, N. Y.  
WCOL, Columbus, to 1200 kcs., 250 w. unltd.  
WGBF, Evansville, CP 1250 kcs., 1000(5)  
unltd.

WGRC, New Albany, CP 880 kcs., 250 w.  
unltd.

WHA, Madison, CP 670 kcs. 50 kw. unltd.  
(facilities of WMAQ).

WIBC, Indianapolis, mod. lic. 1130 from  
1050; 1 kw.

WJTD, Chicago, CP 1040 from 1130;  
1000(25) unltd.

WKAQ, San Juan, CP 620 kcs. 5 kw.  
WLAP, Lexington, CP 1270 kcs. 1 kw. unltd.

WMBC, Detroit, CP 600 kcs.  
WREN, Lawrence, CP Kansas City.

WROL, Knoxville, CP 620 kcs. 500(1).

WSBT, South Bend, CP 930 kcs. 500 w.  
unltd.

WSFA, Montgomery, CP 1410 kcs. 1 kw.  
unltd.

WSPR, Springfield, CP 1240 from 1140; 500  
w unltd.

WTJS, Jackson, CP 1380 from 1310; 1 kw.;  
mod. lic'd 250 unltd.

WWVA, Wheeling, CP 1140 from 1160; 50  
kw.

### Applications for New Stations

Albemarle, N. C., Albemarle Brdcastg. Sta-  
tion, 1370 kcs. 100 w. days.

Arlington, Va., Arlington Brdcastg. Corp., 1420  
kcs 250 unltd.

Asheville, N. C., Publix-Bamford Theaters,  
Inc., 1430 kcs. 1 kw. unltd.

Atlantic City, N. J., Atl. City Brdcastg. Co.,  
1100 kcs. 5 kw. sharing with WBIL.

Atlantic City, N. J., Neptune Brdcastg. Corp.,  
1420 kcs. 100(25).

Bainbridge, Ga., Post Search Light Co., 1500  
kcs., 100(25).

Bellingham, Wash., Bell Brdcastg. Co., Inc.,  
1200 kcs. 100(25).

Birmingham, Ala., B. News Co., 590 kcs. 1  
kw. unltd.

Boston, Mass., Mayflower Brdcastg. Corp.,  
1410 kcs. 500(1).

Bridgeport, Conn., Chas. Greenblatt, 1190  
kcs. 250 w. ltd.

Bridgeport, Conn., Harold Thomas, 1420 kcs.  
250 unltd.

Brownwood, Tex., Brown County Brdcastg.  
Co., 990 kcs. 1 kw. days.

Burlington, Iowa, Burlington Brdcastg. Co.  
Burlington, N. C., Burlington Brdcastg. Co.,  
1420 kcs., 100 D.

Burlington, N. C., Central Carolina Brdcastg.  
Co., 1420 kcs., 250 unltd.

Cedar Rapids, Iowa, The Gazette Co., 1420  
Cheyenne, Wyo., Western Brdcastg. Co., 1210  
kcs. 100(25).

Cleveland, Ohio, Cuyahoga Valley Brdcastg.  
Co., 1500 kcs. 100 w. days.

Clinton, Iowa, Clinton Brdcastg. Corp.  
Columbus, Miss., Birney Imes, 1370 kcs.  
100(25) unltd.

Ely, Nev. Eastern Nev. Brdcastg. Co., 1500  
kcs. 100 days.

Everett, Wash., Cascade Brdcastg. Co., 1420  
kcs. 100(25) unltd.

Ft. Myers, Fla., Palm Radio Co., 1210 kcs.,  
250 unltd.

Greenville, Tex., Hunt Brdcastg. Assn., 940  
kcs., 1 kw D.

Hannibal, Mo., Courier Post Pub. Co.  
High Point, N. C., High Point Brdcastg. Co.,  
1120 kcs., 250 unltd.

Jacksonville, Ill., Stephenson, Edge & Kors-  
meyer, 1370 kcs., 250 unltd.

Kosciusko, Miss., P. K. Ewing, 1500 kcs.,  
100(25) unltd.

Las Vegas, Nev., Las Vegas Brdcastg. Co.,  
1420 kcs. 100(25).

Las Vegas, Nev., Nev. Brdcastg. Co., 1370  
kcs. 100(25) unltd.

Lookout Mt., Ga., Lookout Mt. Corp., of Ga.,  
1370 kcs., 100(25).

Louisville, Ky., Gateway Brdcastg. Co., 880  
kcs. 500 unltd.

Miles City, Mont., E. E. Krebsbach 1310 kcs.,  
100(25).

Miles City, Mont., Star Printing Co., 1310  
kcs., 250 unltd.

Norfolk, Va., Colonial Brdcastg. Corp., 1370  
kcs. 100(26).

North Sacramento, Calif., Grant Union High  
School District, 1530 kcs., 1 kw.

Pawtucket, R. I., Pawtucket Brdcastg. Co.,  
1390 kcs. 1 kw. unltd.

Pontiac, Mich., King-Trendle Brdcastg. Corp.,  
1440 kcs. 250 unltd.

Riverside, Calif., Brdcastg. Corp. of America,  
1390 kcs. 1 kw.

Riverside, Calif., Richard T. Sampson, 1390  
kcs. 250 days.

Rochester, N. Y., Edward J. Doyle, 1270  
kcs. 500 days.

Salina, N. Y., Sentinel Brdcastg. Corp., 620  
kcs. 1 kw. unltd.

Sandusky, Mich., Thumb Brdcastg. Co., 880  
kcs. 1 kw. days.

San Diego, Calif., Jack Hazard, 1430 kcs.,  
500 w. unltd.

San Juan, P. R., Enrique Abarca Sanfeliz,  
580 kcs. 1 kw. unltd.

	WPET	MP	....	Lexington, Ky. (8 units - 10 w).
	WPGU	MP	....	Cohasset, Mass. (3 units - 10 w).
	WQIF	MP	....	Holyoke, Mass. (5 units - 10 w).
	WQNC	MP	15	Dearborn, Mich.
	WQND	MY	15	Dearborn, Mich.
	WRAG	MP	....	Bourne, Mass. (2 units - 10 w).
	WRAQ	MP	....	Barnstable, Mass. (2 units - 10 w).
	WRAR	MP	....	Barnstable Co., Mass. (4 units - 10 w).
	WQTB	MP	20	Union Twp., N. J., (3 units - 10 w).
	WOOY	MP	....	Bronxville, N. Y. (2 units - 12 w).
	WOYH	MY	50	Verona, N. J. (2 units - 50 w).
	WRBT	MP	50	Lakewood, N. J.
	WRHY	MP	15	Norwood, Pa.
	WRJJ	MP	20	Des Plaines, Ill. (units - 15 w).
	WRJV	MP	....	Concord, N. H. (1 unit - 15 w).
	WRJX	MP	....	Glenolden, Pa. (1 unit - 15 w).
	WRLO	MP	15	Yeadon, Pa.
37980	W9XAI	RB	25	Milwaukee, Wis. The Journal Co.
	W9XBF	RB	25	Fargo, N. Dak. WDAY, Inc.
	W9XEG	RB	6	Aurora, Ill. Martin R. O'Brien
38600	W1XEQ	B	100	Fairhaven, Mass. E. Anthony & Sons.
	W2XDG	B	150	New York, N. Y.
	W2XDV	B	50	New York City.
	W6XDA	B	100	Los Angeles, Calif. CBS, Inc.
38650	W2XDG	B	....	New York City. NBC, Inc.
38800	W10XJT	E1	20	Portable. Bell Telephone Labs., Inc. W10XJT and XJU are FM stations for conducting tests with W10XJV and W, communicating between aircraft and autos within 100 miles of NYC.
	W10XJU	E1	20	Same as above.
	W10XJV	E1	15	Portable. Bell Telephone Labs., Inc. W10XJV and W are amplitude modulated stations, for comparative tests with the above FM stations.
	W10XJW	E1	15	Same as W10XJV.
38900	W9XEA	RB	40	Paducah, Ky. P. Brdstg. Co.
39020	WBQA	PR	10	Portable. United Press Ass'n.
39100	WRAD	MP	100	Elizabeth, N. J. (1 unit - 15 w).
	WRIO	MP	5	Larchmont, N. Y.
	WRQE	MP	....	Garfield, N. J. (4 units - 10 w).
39260	KEJC	RB	2	Denver, Colo. NBC, Inc.
	KEJH	RB	2	San Francisco, Calif. NBC, Inc.
	WEJJ	RB	2	New York City. NBC, Inc.
	WEJK	RB	2	Chicago, Ill. NBC, Inc.
	WEJO	RB	2	Cleveland, Ohio. NBC, Inc.
	WEJS	RB	2	Washington, D. C. NBC, Inc.
	W7XCY	RB	4½	Portland, Ore. Oregonian Pub Co.
39300	W9XEA	RB	40	Paducah, Ky. P. Brdstg. Co.
39340	....	SEM	....	Portable. Hayiside Co.
39360	WRJC	MP	....	Huntington Woods, Mich. (1 unit - 12 w).

**Explanation of the Third Column Symbols:**

A—Aircraft.  
 B—Broadcast.  
 C—Commercial Telegraph.  
 F—Forestry.  
 G—Government.  
 P—Police.  
 S—Ship.  
 T—Radio Telephone.  
 FA—Aeronautical (ground).  
 FMB—Frequency modulated broadcasting station.  
 GEO—Geophysical.  
 RC—Circular radiobeacon.  
 RD—Directional radiobeacon.  
 RG—Direction finding station.  
 LH—Lighthouse.  
 RR—Radio range station.  
 MP—Municipal police.  
 SP—State police.  
 ZP—Zone police.

FM—Emergency.  
 SEM—Special emergency.  
 MF—Marine fire.  
 MR—Marine relay.  
 PR—Press relay.  
 RB—Relay broadcast.  
 FAC—Facsimile.  
 TV—Television video.  
 TA—Television audio.  
 NCE—Non-commercial educational.  
 CC—Coastal Telegraph.  
 CH—Coastal harbor.  
 CHC—Coastal harbor telegraph.  
 MT—Coastal harbor telephone.  
 E  
 E1  
 E2  
 E3  
 GE—General Experimental.  
 SE—Special Experimental.

All the Mobile and Portable-Mobile police stations installed in police automobiles bear the same call letters as the Fixed police broadcast station to which they report, and in many cases they work on the same frequency. We list herewith the Fixed station, and in parentheses we show the number, and the power of the Portable and Portable-Mobile units attached to that station, as for example: WRHD MP 250 Louisville, Ky. (2 units-12 w).

	KOCX	MP	25	Pueblo, Colo.
	KOCY	MP	10	Petaluma, Calif. (2 units - 5 w).
	KODA	MP	5	San Mateo, Calif. (2 units - 5 w).
	KODF	MP	15	Merced, Calif. (3 units - 5 w).
	KOLZ	MP	....	Nashville, Tenn. (3 units - 5 w).
	KOLZ	MP	....	Garden City, N. Y. (7 units - 10 w).
	WOKO	MP	....	White Plains, N. Y.
	WOKS	MP	5	Ventnor, N. J. (3 units - 10 w).
	WQOX	MP	15	Longport, N. J.
	WQNF	MP	50	Long Branch, N. J. (17 units - 10 w).
	WQNH	MP	....	Ossining, N. Y. (1 unit - 10 w; 1 unit - 15 w).
	WQNT	MP	8	Belmar, N. J.
	WQOB	MP	25	Fayette Co., Ky.
	WQON	MP	....	Cheltenham, Pa. (1 unit - 5 w).
	WQOB	MP	15	Beaver, Pa. (1 unit - 10 w).
	WQRP	MP	....	Quincy, Mass.
	WQRY	MP	100	Madison Co., Ill.
	WQTA	MP	10	Princeton, N. J.
	WQTI	MP	30	Hingham, Mass.
	WQTI	MP	50	Kingsport, Tenn. (1 unit - 15 w).
	WQXP	MP	13	Kingston, N. Y.
	WQYD	MP	50	Hull, Mass.
	WQYE	MP	50	Hull, Mass.
	WQYK	MP	100	Hammond, Ind.
	WRAB	MP	75	Gary, Ind.
	WRAF	MP	15	New Britain, Conn.
	WRAP	MP	15	Hornell, N. Y.
	WRGB	MP	25	Wellsville, Ohio. (2 units - 12 w).
	WRGY	MP	25	Hickory, N. C.
	WRGZ	MP	15	Meadville, Pa. (2 units - 12 w).
	WRHF	MP	15	Holidays Cove, W. Va. (12 units - 10 w; 2 units - 5 w).
	WRHG	MP	5	Nutley, N. J. (3 units - 5 w).
	WRHQ	MP	50	Daytona Beach, Fla. (2 units - 15 w).
	WRID	MP	5	Stauton, Va.
37220	KGPJ	MP	....	Beaumont, Tex. (1 unit - 15 w; 1 unit - 10 w).
	WGZA	MP	....	Fresno, Calif. (25 units - 25 w).
	KPAT	MP	....	Port Arthur, Tex. (1 unit - 10 w).
	KQDV	MP	....	Piedmont, Calif. (8 units - 10 w).
	WAFU	MP	....	Lima, Ohio. (3 units - 15 w).
	WPDW	MP	....	District of Columbia. (8 units - 5 w).
	WQJW	MP	....	Du Page Co., Ill. (9 units - 15 w).
	WRIW	MP	....	Downers Grove, Ill. (2 units - 15 w).
37340	WAIF	RB	25	Chicago, Ill. WGN, Inc.
	WAIG	RB	1	Chicago, Ill. WGN, Inc.
37380	WQZX	SP	1	Portable in Mass. Commonwealth of Mass, Dept. of Pub. Safety, Div. of State Police.
37420	WBQA	PR	1	Portable. United Press Ass'n.
37460	WJAB	F	2	Harrisburg, Pa. Commonwealth of Pa.
	WRAI	F	15	Portable. State of N. Y.
	WRLF	F	15	Shiloh, Md. Md. State Dept of Forestry
	WRWK	F	20	Portable. State of N. Y.
	WRWL	F	....	Three portabl units, 15 w. State of N. Y.
	W3XPT	F	100	Harrisburg, Pa. Commonwealth of Pa.
37500	WQJE	MP	50	Woodbridge, N. J. (units - 10 w).
	WQRF	MP	5	Portable in Mass. Metropolitan Dist. Commission of Commonwealth of Mass.
	WQRG	MP	10	Portable in Mass. Same as WQRF
	WQRH	MP	10	Portable in Mass. Same as WQRF
	WQRT	MP	500	Boston, Mass. (2 units - 15 w; 1 unit - 6 w).
	WRIW	MP	20	Same as WQRF
	WROA	MP	15	Downers Grove, Ill.
37540	W3XAB	E	....	Naperville, Ill. (1 unit - 12 w).
	W6XDS	E1	50	Camden, N. J. RCA Mfg. Co.
	W7XBA	E	15	Los Angeles, Calif. John H. Hidy
	W9XAR	E1	....	Portable. Northern Radio Co.
37600	W1XPZ	RB	10	Portable. Wallace and Tiernan Products.
	W3XIW	RB	10	Lawrence, Mass. Hildreth & Rogers Co.
	W3XPI	RB	2	Reading, Pa. Reading Brdcstg Co.
	W3XPJ	RB	2	Baltimore, Md. Monumental Radio Co.
37620	KEHA	RB	2	Baltimore, Md. Same as W3XPI
				San Francisco, Calif. Associated Broadcasters, Inc.
	WEIN	RB	25	Milwaukee, Wis. The Journal Co.
37780	KNEF	MP	7½	Leavenworth, Kans.
	KQED	MP	....	Faribault, Minn. (2 units - 15 w).
	KSW	MP	15	Berkeley, Calif.
	WAKF	MP	15	Everett, Mass.

	WOWB	F	15	Hollofield, Md. Md. Dept. of Forestry
	WQWC	F	15	Hillmeade, Md. Same as WOWB
	WQWD	F	50	Laurel, Md. Same as WOWB
	WQWE	F	25	Pasadena, Md. Same as WOWB
	WQWF	F	20	Burtonville, Md. Same as WQW
	WQXH	F	10	Portable. Same as WOWB
	WRLR	F	3	Goetzville, Mich. Same as WIVA.
	WRLT	F	3	Newberry, Mich. Same as WIVA.
	WRMH	F	3	Ion Mountain, Mich. Same as WIVA
	WRMI	F	3	Hulbert, Mich. Same as WIVA
	WRMK	F	15	Mobile in Mich. Same as WIVA
	WROY	F	50	Sterling, Conn. tSate of Conn, Park & Forest Comm., Forestry Dept.
	WROZ	F	50	Stors, Conn. Same as WROY
	W3XPT	F	100	Harrisburg, Pa. Same as WJAB
	W8XVE	F	100	Kellogg Mt. Fire Tower, Bradford Co., Pa. Same as WJAB
	W8XVF	F	100	Rattlesnake Fire Tower, Clearfield Co., Pa. Same as WJAB
35780	WQZB to WQZO, SP		10	Mobile in Mass. Commonwealth of Mass, Dept of Pub. Safety, Div. of State Police.
	WQZX	SP	1	Portable in Mass. Same as WQZB
35820	W9XAI	RB	25	Milwaukee, Wis. The Journal Co.
	W9XBF	RB	25	Fargo, N. Dak. WDAY, Inc.
	W9XEG	RB	6	Aurora, Ill. Martin R. O'Brien
35900	KQDW	MP	50	San Marino, Calif.
	WKPD	MP	15	Kenilworth, Ill.
	WQJG	MP	35	Wellesley, Mass.
	WRAC	MP	15	Concord, Mass. (2 units - 15 w).
	WRAN	MP	15	Haddon Heights, N. J. (1 unit - 12 w).
	WRCW	MP	15	Burlington, Vermont
	WRLJ	MP	15	Latrobe, Pa. (1 unit - 12 w).
350940	WJAB	F	2	Harrisburg, Pa. Commonwealth of Pa.
	WQSA	F	2	Portable. Same as WJAB
	WOSB	F	2	Portable. Same as WJAB
	WQSD-E-F-G-H-I-J,			All same as WJAB above.
	WQXH	F	10	Portable. Md. Dept. of Forestry.
	WOYA	F	15	Harwich, Mass. Dept. of Conservation
	WOYL	F	10	Five units in Mass. Same as WOYA
	WOYM	F	10	Five units in Mass. Same as WOYA
	WOYO	F	25	Middleborough, Mass. Same as WOYA
	WOYR	F	25	Carver, Mass. Same as WOYA
	WOYS	F	25	Hingham, Mass. Same as WOYA
	WOYT	F	10	Kingston, Mass. Same as WOYA
	WRGE	F	25	Plymouth, Mass. Same as WOYA
	WRGF	F	10	Plymouth, Mass. Same as WOYA
	WRVB through WRWE,			all Portable in Wis., all 1 watt, owned by State of Wis., Conservation Commission
	W3XPT	F	100	Harrisburg, Pa. Same as WJAB
	W8XVE	F	100	Kellogg Mt. Fire Tower. Same as WJAB
	W8XVF	F	100	Rattlesnake Fire Tower. Same as WJAB
	....	F	10	Mobile in Md. Md. State Dept. of Forestry
35960	WBQA	PR	10	Portable. United Press Ass'n.
36785	....	TA-B	2000	Warsaw, Poland (Germany).
37020	KEJC	RB	2	Denver, Colo. NBC, Inc.
	KEJD	RB	2	Denver, Colo. NBC, Inc.
	KEJH	RB	2	San Francisco, Calif. NBC, Inc.
	KEJI	RB	2	San Francisco, Calif. NBC, Inc.
	WEJJ	RB	2	New York City. NBC, Inc.
	WEJK	RB	2	Chicago, Ill. NBC, Inc.
	WEJO	RB	2	Cleveland, Ohio. NBC, Inc.
	WEJR	RB	2	New York City. NBC, Inc.
	WEJS	RB	2	Washington, D. C. NBC, Inc.
	WEJT	RB	2	Washington, D. C. NBC, Inc.
	WEJU	RB	25	New York City. NBC, Inc.
	W2XF	RB	....	New York City. NBC, Inc.
	W2XK	RB	....	New York City. NBC, Inc.
	W3XEK	RB	....	Washington, D. C. NBC, Inc.
	W3XPO	RB	....	Washington, D. C. NBC, Inc.
	W3XPP	RB	....	Washington, D. C. NBC, Inc.
	W6XDE	RB	....	San Francisco, Calif. NBC, Inc.
	W7XCY	RB	4½	Portland, Ore. Oregonian Pub. Co.
37100	KQOI	MP	....	Beverly Hills, Calif. (units - 4½ w).
	KQAM	MP	25	Rochester, Minn. (2 units - 5 w).
	KQAS	MP	50	Palm Springs, Calif. (1 unit - 20 w).
	KQCE	MP	150	Martinez, Calif.
	KQCH	MP	25	Ogden, Utah
	KQCR	MP	15	Stockton, Calif.



	WNYG	MF	50	bile - 1 unit 10 wats, 1 unit 15 wats).
35600	W1XEQ	B	100	World's Fair—New York City.
	W1XKA	B	50	Fairhaven, Mass. E. Anthony & Sons.
	W1XKB	B	500	Boston, Mass. (WBZ).
	W1XOE	B	....	E. Springfield, Mass. (WBZA).
	W2XDG	B	150	Boston, Mass. (SBS, Inc.)
	W2XDV	B	50	New York City. NBC, Inc.
	W2XEY	GE	15	New York City.
	W2XHG	B	150	Portable. General Elec. Co.
	W2XNA	MF	....	Bound Brook, N. J.
	W2XNB	MF	....	Fireboat "James Duane." City of NYC, Fire Department.
	W2XNC	MF	....	Fireboat "Thomas Willett"
	W2XND	MF	....	Fireboat "William Strong"
	W2XNE	MF	....	Fireboat "George McClellan"
	W2XNF	MF	....	Fireboat "William Gaynor"
	W2XNG	MF	....	Fireboat "John P. Mitchell"
	W2XNH	MF	....	Fireboat "Abram Hewitt"
	W2XNI	MF	....	Fireboat "Cornelius Lawrence"
	W2XNJ	MF	....	Tender "Captain Connell"
	W2XRZ	GE	50	Portable. General Elec. Co.
	W3XES	B	300	Baltimore, Md. Monumental Radio Co.
	W3XEX	B	50	Norfolk, Va. WTAR Radio Corp.
	W3XEY	Be	100	Baltimore, Md. Baltimore Radio Show
	W3XIR	B	100	Philadelphia, Pa. WCAU
	W3XKA	B	50	Philadelphia, Pa.
	W3XPG	GE	50	Portable. General Engineers.
	W4XBW	B	100	Chattanooga, Tenn. (WDOD Brdctg Corp.
	W4XCA	B	250	Memphis, Tenn.
	W5XAU	B	100	Oklahoma City, Okla. WKY Radiophone Co.
	W5XD	B	100	Dallas, Texas.
	W5XGB	GE	50	Pasadena Tex. Houston Lighting & Power Co.
	W5XGC	GE	50	Humble, Tex. Same as W5XGB
	W6XAS	B	10	San Francisco, Calif. Julius Brunton & Sons
	W6XDA	B	100	Los Angeles, Calif. CBS, Inc.
	W6XXT	GE	5000	Portable. Press Wireless, Ltd
		W7XGA	GE	10
	W8XAI	B	100	Rochester, N. Y. Stromberg-Carlson Telephone Mfg. Co.
	W8XH	B	100	Buffalo, N. Y.
	W8XKA	B	50	Pittsburgh, Pa. Westinghouse Elec. & Mfg. Co.
	W8XNT	RB	50	Cleveland, Ohio. United Brdctg Co.
	W8XOY	....	....	Akron, Ohio
	W8XTY	FAC	150	Detroit, Mich. Detroit News
	W8XUK	GE	10	Portable. W. Va. Univ. Dept. of Physics.
	W8XUL	GE	10	Portable. Same as above.
	W8XWJ	B	....	Detroit, Mich. Detroit News.
	W9XAZ	B	500	Milwaukee, Wis. Journal Co.
	W9XBS	B	50	Chicago, Ill.
	W9XER	B	50	Kansas City, Mo. Midland Brdctg Co.
	W9XHW	B	50	Minneapolis, Minn. Northwestern Brdctg.
	W9XLA	B	100	Denver, Colo. KLZ Brdctg Co.
	W9XOK	B	100	St. Louis, Mo. Star-Chronicle Pub. Co.
	W9XPD	B	100	St. Louis, Mo. Pulitzer Pub. Co.
	W10XTA	GE	15	Portable. Western Union Teleg. Co.
	W10XIB	GE	15	Portable. Same as above.
35620	KEJC	RB	2	Denver, Colo. NBC, Inc.
	KEJD	RB	2	Denver, Colo. NBC, Inc.
	KEJH	RB	2	San Francisco, Calif. NBC, Inc.
	KEJI	RB	2	San Francisco, Calif. NBC, Inc.
	WEJJ	RB	2	New York City. NBC, Inc.
	WEJK	RB	2	Chicago, Ill. NBC, Inc.
	WEJO	RB	2	Cleveland, Ohio. NBC, Inc.
	WEJR	RB	2	New York City. NBC, Inc.
	WEJS	RB	2	Washington, D. C. NBC, Inc.
	WEJT	RB	2	Washington, D. C. NBC, Inc.
	WEJU	RB	25	New York City. NBC, Inc.
	W7XCY	RB	4½	Portland, Ore. Oregonian Pub. Co.
	W10XGC	RB	25	New York City. NBC, Inc.
35740	WIVA	F	50	Roscommon, Mich. State of Mich. Dept. of Conservation
	WIVB and so on	—	53	53 stations with consecutive call letters. Throughout the state of Michigan, in fire towers. Each, 3 watts.
	WJAB	F	2	Harrisburg, Pa. Commonwealth of Pa.
	WQIR	F	3	Hebron Forest Fire Tower, near Cheyboygan, Mich. Same as WIVA.
	WQLA	F	3	Mio, Mich. Same as WIVA.
	QQLB	F	3	Mio, Mich. Same as WIVA.

	WSAB	PR	3/4	Portable. Associated Press
34100	K6XCG	T	150	Manawahua, Hawaii. Mutual Telephone Co.
34600	W1XPZ	RB	10	Lawrence, Mass. Hildreth & Rogers Co.
	W3XIW	RB	10	Reading, Pa. Reading Brdcstg. Co.
	W3XPI	RB	2	Baltimore, Md. Monumental Radio Co.
	W3XPI	RB	2	Portable. Same as W3XPI
	W4XHWH	RB	50	Bristol, Tenn. (WOPI).
	W4XHY	RB	2	St. Petersburg, Fla. Chamber of Commerce
	W5XNB	RB	2	Portable. Loyola University
	W6XAC	RB	2	Phoenix, Ariz. Salt River Valley Co.
	W6XDR	RB	2	Hollywood, Calif. KMTR, Inc.
	W6XDZ	RB	2	Nampa, Idaho. Frank E. Hurt.
	W7XDA	RB	7 1/2	Walla Walla, Wash. KUJ.
	W8XEO	RB	15	Lansing, Mich. WJIM
	W8XLT	RB	2	Erie, Pa. WLEU
	W9SGO	RB	2	Tuscola, Ill. WDW Brdcstg. Co.
	W9XAE	RB	10	Fargo, N. Dak. WDAY
	W9XAP	RB	50	Chicago, Ill. NBC, Inc.
	W9XEG	RB	6	Aurora, Ill. Martin O'Brien
34780	KNJC	G	....	Grand Canyon Nat'l Park, Ariz. Nat'l Park Serv., U. S. Dept. of Interior.
34820	KNJV	G	....	Bleak Canyon of the Gunnison, Nat'l. Mon., Colo. Nat'l Park Service.
35020	KEHA	RB	2	San Francisco, Calif. Associated Broadcasters, Inc.
	WEIN	RB	25	Milwaukee, Wis. Journal Co.
35060	W3XAB	E	....	Camden, N. J. RCA Mfg. Co.
	W3XAM	E	....	Camden, N. J. RCA Mfg. Co.
	W3XEZ	GE	....	Camden, N. J. RCA Mfg. Co.
	W6XDS	E1	50	Los Angeles, Calif. John H. Hidy
	W7XBA	E	15	Portable. Northern Radio Co.
	W9XZW	E	....	Portable. Kellogg Switchboard & Supply Co., Chicago, Ill.
35100	KNGJ	MP	10	El Centro, Calif.
	GNKW	MP	10	Brownwood, Tex.
	KQBH	MP	500	Napa, Calif.
	KQBP	MP	100	Kansas City, Kans. (8 units - 12 w).
	WMPW	MP	15	San Anselmo, Calif. (2 units - 15 w).
	WPDC	MP	....	Waterbury, Conn. (3 units).
	WPDO	MP	10	Chicago, Ill. (22 units - 15 w).
	WPGS	MP	....	Akron, Ohio. (6 units - 15 w).
	WQJF	MP	15	Nassau, N. Y. (3 units - 15 w).
	WQYJ	MP	....	Chicago, Ill. (22 units - 15 w).
	WRBA	MP	25	Plymouth, Mass. (4 units - 10 w).
35140	KAOR	SEM	1	Milton, Mass.
	KAOS	SEM	1	Portable. Puget Sound Power & Light Co.
	KAOT	SEM	15	Portable. Same as KAOR
	GAOU	SEM	15	Portable. Same as KAOR
35180	WBQA	PR	1	Portable. United Press Ass'n.
	WSAA	PR	1/2	Portable. Associated Press
	WSAB	PR	1/2	Portable. Associated Press
35200	K6XCC	T	150	Maikiki, Hawaii. Mutal Telephone Co.
35220	KKFD	MP	....	Kensington, Calif. (3 units - 10 w).
	KNGF	MP	14	Sacramento, Calif.
	KPDA	MP	....	Alameda, Calif. (1 unit - 25 w).
	KQBT	MP	10	Pittsburg, Calif.
	WMDZ	MP	....	Indianapolis, Ind. (2 units - 11 1/2 w; 33 units - 15 w).
	WPDC	MP	....	Chicago, Ill. (22 units - 15 w).
	WQJF	MP	....	Chicago, Ill. (22 units - 15 w).
35260	WALF	RB	25	Chicago, Ill. WGN, Inc.
	WAIJ	RB	1	Chicago, Ill. WGN, Inc.
35460	KBRE	SEM	10	Lake Washington, Wash. (2 units - 10 w; 3 units - 2 w).
35500	WDAA	MP	50	Geneva, Ill. (1 unit - 15 w).
	WQNX	MP	....	Merion, Pa. (4 units - 5 w).
	WRAS	MP	250	Boston, Mass.
	WRAZ	MP	50	Spring Lake, N. J. (2 units - 10 w).
	WRGO	MP	50	Paterson, N. J. (12 units - 10 w).
	WRHZ	MP	25	Ambridge, Pa. (2 units - 15 w).
	WRYJ	MP	....	Birmingham, Mich. (1 unit - 12 w).
	WRIZ	MP	....	Berkeley, Mich. (1 unit - 12 w).
	WRJA	MP	12	Clawson, Mich.
	WRJB	MP	....	Ferndale, Mich. (2 units).
	WRJC	MP	....	Huntington Woods, Mich. (1 unit - 12 w).
	WRJD	MP	12	Pleasant Ridge, Mich.
35540	KAWN	..	....	Portable. Gulf Research & Deveopment Co.
35580	WNYF	Fire	....	New York City. (Installed in Mayor's automo-

	KGZE	MP	....	San Antonio, Tex. (17 units - 10 w).
	KNGP	MP	....	Shreveport, La. (2 units - 10 w).
	KOAC	MP	10	San Bernardino, Calif.
	KOAD	MO	....	Riverside, Calif.
	KSBC	MP	....	San Bernardino Co., Calif. (9 units).
	KOCI	MP	15	Glendale, Calif.
	KODI	MP	18	Nichols Hills, Okla.
	KQFT	MP	....	Redlands, Calif. (5 units - 10 w).
	KTAP	MP	....	Texarkana, Ark. (6 units - 10 w).
	KWCM	MP	10	Shawnee, Okla.
	WAMG	MP	10	Kalamazoo, Mich. (8 units - 10 w).
	WDDL	MP	10	Lansing, Mich. (7 units - 10 w).
	WPDU	MP	....	Pittsburgh, Pa. (Units - 10 w).
	WPGP	MP	....	Muncie, Ind. (4 units - 12 w).
	WPHA	MP	5	Fitchburg, Mass.
	WPHP	MP	15	Jackson, Mich. (9 units - 15 w).
	WQFX	MP	....	Lake County, Ill. (2 units, 15 w, 25 w).
	WQLE	MP	15	Greenwich, Conn.
	WQMO	MP	15	Montclair, N. J.
	WQYI	MP	....	Rockport, Mass. (1 unit - 10 w).
	WRIP	MP	....	Wayne Co., Ind. (2 units - 12 w).
	FRLN	MP	....	No. Chicago, Ill. (2 units - 15 w).
	WSSC	MP	....	Spartanburg, S. C. (1 unit - 15 w).
33260	WBQA	PR	1	Portable. United Press Ass'n.
	WSAA	PR	7/8	Portable. Associated Press.
	WSAB	PR	7/8	Portable. Associated Press.
33340	W3XAB	E	....	Camden, N. J. RCA Mfg. Co.
	W3XAM	E	....	Camden, N. J. RCA Mfg. Co.
	W3XZE	GE	....	Camden, N. J. RCA Mfg. Co.
	W7XBA	E	15	Portable Northern Radio Co.
	W7XEZ	E1	60	Seattle, Wash. Radio Labs, Inc.
33380	KEHA	RB	2	San Francisco, Calif. Associated Brcdcasters, Inc.
	WEIN	RB	25	Milwaukee, Wis. The Journal Co.
33500	KQCH	MP	25	Ogden, Utah
	KQDB	MP	100	Red Wing, Minn.
	KQDF	MP	50	Santa Monica, Calif. (1 unit - 25 w).
	KQED	MP	100	Faribault, Minn.
	KRCP	MP	15	Reedly, Calif. (2 units - 10 w).
	WENB	MP	100	Cleveland, Ohio
	WQJJ	MP	80	Bethlehem, Pa. (4 units - 10 w).
	WQKK	MP	50	Brookline, Mass. (12 units - 8 w).
	WQMW	MP	15	Sheboygan, Wis.
	WQMW	MP	....	Sheboygan, Wis. (5 units - 15 w).
	WQTX	MP	....	Iroy, Ohio. (2 units - 15 w).
	WQXN	MP	100	Bayonne, N. J. (12 units - 10 w).
	WRAS	MP	250	Boston, Mass.
	WRGP	MP	25	Pensacola, Fla.
	WRIK	MP	25	Aliquippa, Pa. (2 units - 12 w).
	WRIM	MP	25	Peoria, Ill.
	WRJE	MP	50	Burlington, N. C.
	WRJS	MP	50	Batavia, N. Y. (2 units - 12 w).
	WRMA	MP	15	Jeanette, Pa. (2 units - 12 w).
	WROS	MP	50	Fayetteville, N. C. (3 units - 10 w).
33540	KAWN	..	....	Portable. Gulf Research & Development Co.
	WBQA	PR	10	Portable. United Press Ass'n.
33740	W9XAI	RB	25	Milwaukee, Wis. The Journal Co.
	W9XBF	RB	25	Fargo, N. Dak. WDAY, Inc.
	W9XEG	RB	6	Aurora, Ill. Martin O'Brien
33780	KADI	MP	5	Oceanside, Calif.
	KADQ	MP	10	Brea, Calif.
	KGPX	MP	....	Denver, Colo. (13 units - 19 w; 1 unit - 8 w).
	KQAL	MP	....	Huntington Beach, Calif. (3 units - 10 w).
	KQEN	MP	....	Laguna Beach, Calif. (2 units - 10 w).
	WCK	MP	10	Detroit, Mich.
	WPDX	MP	10	Detroit, Mich.
	WQJG	MP	....	Wellesley, Mass. (2 units - 10 w).
	WRJY	MP	....	New York City. (2 units - 18 w).
33860	W2XVX	E2	1000	Hicksville, N. Y. Press Wireless, Inc.
33940	KQCI	MP	250	Glendale, Calif.
	WPDS	MP	....	St. Paul, Minn. (23 units - 15 w).
	WPHR	MP	15	Millville, N. J. (1 unit - 8 w).
	WORU	MP	....	New York, N. Y. (2 units - 18 w).
	WRGJ	MP	....	Jefferson Co., Ky., (10 units - 12 w).
	WRGR	MP	350	New York City.
	WRHR	MP	15	Millville, N. J. (1 unit - 8 w).
	WRJY	MP	25	New York City.
	WRQT	MP	....	E. Chicago, Ind (8 units - 100 w).
33980	WBQA	PR	1	Portable. United Press Ass'n.
	WSAA	PR	7/8	Portable. Associated Press

	KQDW	MP	15	San Marino, Calif. ( 6 units - 15 w).
	WPEK	MP	15	New Orleans, La.
	WFPO	MP	....	Swarthmore, Pa. (1 unit - 15 w).
	WORB	MP	15	Schenectady, N. Y.
	WRBH	MP	....	Cleveland, Ohio. (25 units - 15 w).
	WRNH	MP	....	Saginaw, Mich. (1 unit - 15 w).
31820	W2XVW	E2	1000	Hicksville, N. Y. Press Wireless, Innc.
31900	KQBV	MP	25	Lo Angeles, Calif.
	WORS	MP	....	Jersey City, N. J. (22 units).
	WOYJ	MP	30	Plymouth, Mass.
	WRLV	MP	25	Woodbury, N. J. (1 unit - 12 w).
	WSCI	MP	250	Cook County, Ill. (11 units - 15 w).
31940	WJAB	F	2	Harrisburg, Pa. Commonwealth of Pa.
	WQJA	F	1	Portable. State of Wis. Conservation Commis- sion
	WQXS	F	1	Same as above.
	WOXT	F	1	Same as above.
	WOXU	F	1	Same as above.
	WOXV	F	1	Same as above.
	WOVW	F	1	Same as above.
	WRVB	through WRWE,		Same as above
	W3XPT	F	100	Harrisburg, Pa. Same as WJAB
	W8XVE	F	100	Kellogg Mt. Fire Tower, Bradford County, Pa.
	W8XVF	F	100	Same as WJAB
31980	KBRA	PR	40	Rattlesnake Fire Tower, Clearfield County, Pa.
	KBRB	PR	15	Same as WJAB
	WBOA	PR	10	Portable. Telegram Pub. Co.
32100	KQAO	MP	100	Portable. Same as KBRA
33020	WBOA	PR	10	Portable. United Press Association
33060	KAQR	SEM	1	Long Beach, Calif.
	KAQS	SEM	1	Portable. United Press Association
	KAQT	SEM	15	Portable. Puget Sound Power & Light Co.
	KAQU	SEM	15	Same as KAQR
33100	KGZM	MP	....	Same as KAQR
	KQAO	MP	....	El Paso, Tex. (5 units - 15 w).
	KQBW	MP	....	Long Beach, Calif. (5 units, 10 w, 10½ w, 12 w, 15 w, 25 w).
	KQCF	MP	200	St. Joseph, Mo. (13 units - 50 w).
	KQCG	MP	50	Tyler, Tex.
	KQCR	MP	15	Turlock, Calif.
	KQCX	MP	25	Stockton, Calif.
	KQDG	MP	10	Pueblo, Colo.
	KQDH	MP	15	Santa Rosa, Calif.
	KQDO	MP	....	Amarillo, Texas.
	KQEI	MP	....	Modesto, Calif. 4 units - 10 w).
	KQGX	MP	....	Portland, Ore. (1 unit - 50 w).
	WPHD	MP	....	Seal Beach, Calif. (1 unit - 15 w).
	WOIY	MP	50	Staubenville, Ohio
	WQKT	MP	25	Atlantic City, N. J. (3 units - 11 w).
	WQLC	MP	....	Vincennes, Ind. (2 units - 25 w).
	WQMA	MP	100	Eastchester, N. Y. (2 units - 10 w).
	WQMI	MP	100	Miami Beach, Fla.
	WQNA	MP	20	Springfield, Ohio.
	WQNV	MP	8	Budd Lake, N. J.
	WQOO	MP	25	West Chester, Pa.
	WQRA	MP	....	Deal, N. J. (4 units - 15 w).
	WQRP	MP	....	Sanford, Fla. (1 unit - 15 w).
	WQRY	MP	100	Quincy, Mass.
	WQTB	MP	35	Madison County, Ill.
	WQTC	MP	15	Monroe, Mich.
	WQXY	MP	4	Brunswick, Ga.
	WOYI	MP	35	Port Jervis, N. Y.
	WOYK	MP	100	Rockport, Mass.
	WRAB	MP	75	Hammond, Ind.
	WRAO	MP	15	Gary, Ind.
	WRAU	MP	35	Wierton, W. Va. (3 units - 15 w).
	WRBD	MP	25	Danvers, Mass. (1 unit - 10 w).
	WRCD	MP	25	Anniston, Ala.
	WRGH	MP	....	Troy, N. Y. (2 units - 15 w)
	WRCU	MP	100	Brooke County. (2 units - 15 w).
	WRGV	MP	15	Danville, Va.
	WRGY	MP	25	Suffolk, Va.
	WRMC	MP	8	Hickory, N. C. (1 unit - 8 w) .
33140	W6XDO	E2	3000	Morrisville, Pa.
33220	KASD	MP	....	Daly City, Calif. Pess Wireless, Inc.
	KGOZ	MP	....	San Angelo, Tex. (2 units - 12 w).
	KGPZ	MP	....	Cedar Rapids, Iowa. (4 units - 10 w).
				Wichita, Kanss. (10 units - 12½ w).

	WOIF	MP	50	Holyoke, Mass.
	WOJI	MP	100	Racine, Wis. (7 units - 100 w).
	WOJH	MP	15	W. Hartford, Conn (4 units - 15 w).
	WOKJ	MP	25	Plainfield, N. J.
	WOKG	MP	12	Plainfield, N. J. (4 units - 12 w).
	WOLJ	MP	....	Racine, Wis. (7 units 96 w).
	WOOL	MP	12	Ottawa Hills, Ohio (3 units - 12 w).
	WOXO	MP	100	Juneau, Wis. (6 units - 15 w).
	WOYZ	MP	....	Fanwood, N. J.
	WRBJ	MP	....	Jefferson County, Wis. (3 units - 15 w).
	WRBA	MP	....	Milton, Mass. (5 units - 10 w).
	WRBU	MP	....	Whitewater, Wis. (1 unit - 15 w).
	WRGL	MP	25	Marietta, Ohio (2 units - 12 w).
	WRHX	MP	25	Watertown, Wis. (2 units - 15 w).
	WRIT	MP	100	Janesville, Wis. (3 units - 15 w).
	WRIT	MP	25	Dartmouth, Mass. (2 units - 10 w).
	WRNS	MP	50	Elyria, Ohio (4 units - 15 w).
	WRPF	MP	50	Wilmington, Del.
	WRPD	MP	50	Wilmington, Del.
31580	KBSC	F	20	Portable. State of Oreg., Dept. of Forestry.
	KQFN	F	....	Twelve portable units, 6/10th watt each. Same as KBSC.
	KOFO	F	2	Portable. Same as KBSC.
	KQFO	F	1	Four portable units. Same as KBSC.
31600	KQBR	MP	....	San Jose, Calif.
	WIXEQ	B	100	Fairhaven, Mass. E. Anthony & Sons.
	WIXER	B	500	Boston, Mass. Yankee Network, Inc.
	WIXKA	B	50	Boston, Mass. (WBZ).
	WIXKB	B	500	E. Springfield, Mass. (WBZA).
	WIXOE	B	....	Boston, Mass. CBS, Inc.
	W2XDG	B	150	New York City. NBC, Inc
	W2XDV	B	50	New York City. NBC, Inc.
	W2XEY	GE	15	Portable. General Elec. Co.
	W2XHG	B	150	Bound Brook, N. J. NBC, Inc.
	W2XRZ	GE	50	Portable. Gen. Elec. Co.
	W3XES	B	300	Baltimore, Md. Monumental Radio Co.
	W3XEK	B	50	Norfolk, Va. WTAR Radio Corp.
	W3XEY	B	100	Baltimore, Md. WFBZ, 7 St Paul St.
	W3XIR	B	100	Philadelphia, Pa. WCAU Brdcstg. Co.
	W3XKA	B	50	Philadelphia, Pa. (KYW).
	W3XPG	B	50	Portable. General Engineers.
	W4XBW	B	100	Chattanooga, Tenn. WDOZ Brdcstg. Corp.
	W4XCA	B	250	Memphis, Tenn.
	W5XAU	B	100	Oklahoma City, Okla. WKY Radiophone Co.
	W5XD	B	100	Dallas, Tex. A. H. Bel Corp.
	W5XGB	GE	50	Pasadena, Tex. Houston Lighting & Power Co.
	W5XGC	GE	50	Humble, Tex. Same as W5XGB
	W5XGP	GE	15	New Orleans, La. Hebley-Maynard Air Serv.
	W6XAS	B	10	San Francisco, Calif. Julius Brunton & Sons
	W6XDA	B	100	Los Angeles, Calif. CBS, Inc.
	W6XXT	B	5000	Portable. Press Wireless, Ltd.
	W7XGA	GE	10	Tacoma, Wash. State of Wash, Dept of Highways
	W8XAI	B	100	Rochester, N. Y. Stromberg-Carlson Telephone Co.
	W8XH	B	100	Buffalo, N. Y. (WBEN).
	W8XKA	B	50	Pittsburgh, Pa. Westinghouse Elec. & Mfg. Co.
	W8XNT	B	50	Cleveland, Ohio. United Brdcstg Co.
	W8XOY	B	100	Akron, Ohio. Allen T. Simmons.
	W8XTY	FAC	150	Detroit, Mich. Detroit News.
	W8XUK	GE	10	Portable. W. Va. Univ. Dept of Physics.
	W8XUL	GE	10	cPrtable. Same as W8XUK
	W8XWJ	B	500	Detroit, Mich. Detroit News.
	W9XAZ	B	500	Milwaukee, Wis. The Journal Co.
	W9XBS	B	50	Chicago, Ill. (WENR).
	W9XER	B	50	Kansas City, Mo. (KMBC).
	W9XHW	B	50	Minneapolis, Minn. (WCCO).
	W9XLA	B	100	Denver, Colo. (KLZ Brdcstg. Co.
	W9XOK	B	100	St. Louis, Mo. Star Chronicle Pub. Co.
	W9XPD	B	100	St. Louis, Mo. Pulitzer Pub. Co.
	W10XIA	GE	15	Portable. Western Union Teleg. Co.
	W10XIB	GE	15	Portable. Same as above.
31620	WAIF	RB	25	Chicago, Ill. WGN, Inc.
	WAIG	RB	1	Chicago, Ill. WGN, Inc.
31780	KACU	MP	....	Gregg County, Tex. (5 units - 20 w).
	KGHK	MP	....	Palo Alto, Calif. (3 units - 5 w).
	KGPK	MP	....	Sioux City, Iowa. (4 units - 14 w).
	KGPN	MP	15	Davenport, Iowa. (6 units - 15 w).
	KQAR	MP	15	Burlington, Iowa.

	WEJJ	RB	2	New York City.	Same as KEJ.C.
	WEJK	RB	2	Chicago, Ill.	Same as KEJ.C.
	WEJO	RB	2	Cleveland, Ohio.	Same as KEJ.C.
	WEJR	RB	2	New York City.	Same as KEJ.C.
	WEJS	RB	2	Washington, D. C.	Same as KEJ.C.
	WEJT	RB	2	Washington, D. C.	Same as KEJ.C.
	WEJU	RB	2	New York City.	Same as KEJ.C.
	W2XF	RB	....	New York City.	Same as KEJ.C.
	W2XK	RB	....	New York City.	Same as KEJ.C.
	W3XEK	RB	....	Washington, D. C.	Same as KEJ.C.
	W3XPO	RB	....	Washington, D. C.	Same as KEJ.C.
	W3XPP	RB	....	Washington, D. C.	Same as KEJ.C.
	W6XDE	RB	....	San Francisco, Calif.	Same as KEJ.C.
	W6XDG	RB	....	San Francisco, Calif.	Same as KEJ.C.
	W7XCY	RB	4 1/2	Portland, Ore.	Oregonian Pub. Co.
	W8XB	RB	....	Cleveland, Ohio.	Same as KEJ.C.
	W8XEU	RB	....	Cleveland, Ohio.	Same as KEJ.C.
	W9XAP	RB	50	Chicago, Ill.	Same as KEJ.C.
	W9XDV	RB	....	Chicago, Ill.	Same as KEJ.C.
	W9XDW	RB	....	Chicago, Ill.	Same as KEJ.C.
	W9XXD	RB	....	Chicago, Ill.	Same as KEJ.C.
	W9XXG	RB	....	Chicago, Ill.	Same as KEJ.C.
	W10XAH	RB	....	New York City.	Same as KEJ.C.
	W10XAK	RB	....	New York City.	Same as KEJ.C.
	W10XAL	RB	....	New York City.	Same as KEJ.C.
	W10XAM	RB	....	New York City.	Same as KEJ.C.
	W10XAN	RB	....	New York City.	Same as KEJ.C.
	W10XAP	RB	....	New York City.	Same as KEJ.C.
	W10XAX	RB	....	New York City.	Same as KEJ.C.
	W10XCG	RB	....	New York City.	Same as KEJ.C.
	W10XCH	RB	....	New York City.	Same as KEJ.C.
	W10XDX	RB	....	New York City.	Same as KEJ.C.
	W10XDY	RB	....	New York City.	Same as KEJ.C.
	W10XDZ	RB	....	New York City.	Same as KEJ.C.
	W10XEA	RB	....	New York City.	Same as KEJ.C.
	W10XEB	RB	....	New York City.	Same as KEJ.C.
	W10XED	RB	....	New York City.	Same as KEJ.C.
	W10XFO	RB	....	New York City.	Same as KEJ.C.
	W10XFR	RB	....	New York City.	Same as KEJ.C.
	W10XGC	RB	....	New York City.	Same as KEJ.C.
	W10XY	RB	....	New York City.	Same as KEJ.C.
	W10XY	RB	....	New York City.	Same as KEJ.C.
31340	WQJA	F	1	Portable.	State of Wis. Conservation Commission.
	WQXS	F	1		Same as above.
	WQXT	F	1		Same as above.
	WQXU	F	1		Same as above.
	WQXV	F	1		Same as above.
	WQXW	F	1		Same as above.
	WRVB	F	1		Same as above.
	WRVC	F	1		Same as above.
	WRVE	F	1		Same as above.
	WRWF	F	1		Same as above.
	WRWG	F	1		Same as above.
	WRWH	F	1		Same as above.
	WRWI	F	1		Same as above.
	WRWJ	F	1		Same as above.
	WRWK	F	1		Same as above.
	WRWL	F	1		Same as above.
	WRWM	F	1		Same as above.
	WRWN	F	1		Same as above.
	WRWO	F	1		Same as above.
	WRWP	F	1		Same as above.
	WRWQ	F	1		Same as above.
	WRWR	F	1		Same as above.
	WRWS	F	1		Same as above.
	WRWT	F	1		Same as above.
	WRWU	F	1		Same as above.
	WRWV	F	1		Same as above.
	WRWY	F	1		Same as above.
31380	W6XI	SE	....	Bolinas, Calif.	RCA Communications.
31420	WAHI	SE	12	Alliance, Ohio.	Ohio Pub. Serv. Co.
	WFIA	SE	50	Fort Wayne, Ind.	Ind. Serv. Corp. (1 unit - 25 w).
	WRHD	SE	250	Louisville, Ky.	(2 units - 12 w). Louisville Gas & Elec. Co.
31460	KAKW	SEM	....	Portable.	Northwestern Elec. Co.
	WAOC	SEM	200	Wichita, Kans.	Kans. Gas & Elec. Co.
	WAHI	SEM	50	Alliance, Ohio.	(1 unit - 12 w). Ohio Pub. Serv. Co.
	WAHT	SEM	....	Portable.	Western Union Teleg. Co.
	WAHU	SEM	....		Same as WAHT.
	WAHV	SEM	....		Same as WAHT.
	WAHW	SEM	....		Same as WAHT.
	WAUG	SEM	15	South Bend, Ind.	Ind. & Mich. Elec. Co.
	WQJL	SEM	....	Detroit, Mich.	Detroit Edison Co.
	WRHD	SEM	250	Louisville, Ky.	(2 units - 12 w). Louisville Gas & Elec. Co.
	WRIS	SEM	....	Roanoke, Va.	Appalachian Elec. Power Co., NYC.
31500	KQAA	MP	100	Mankato, Minn.	
	KQAH	MP	15	Alhambra, Calif.	(2 units - 14 w).
	WQBM	MP	50	Lawrence, Kans.	(2 units - 15 w).
	KQEO	MP	15	Chico, Calif.	(1 unit - 12 w).
	WEAG	MP	50	Sarasota, Fla.	(3 units - 8 w).
	WLRP	MP	25	Ft. Atkinson, Wis.	(1 unit - 15 w)
	WPWC	MP	20	Winnebago County, Ill.	

	WOMV	MP	25	Philadelphia, Pa.
	WQNJ	MP	8	St. Augustine, Fla.
	WQTT	MP	20	Waynesboro, Va.
	WRBO		100	Tallahassee, Fla. (2 units - 8 w).
	WRGW	MP	100	Hammond, Ind. (12 units - 4 w).
	WRIC	MP	15	Chillicothe, Ohio
30780	WPDV	MP	50	Charlotte, N. C.
30820	W9XAI	RB	25	Milwaukee, Wis. The Journal Co.
	W9XBF	RB	25	Fargo, N. Dak. WDAY, Inc.
	W9XEG	B	6	Aurora, Ill. Martin R. O'Brien
30860	KRBC	PR	1	Portable. Telegram Pub. Co.
	KRBD	PR	1	Portable. Telegram Pub. Co.
	WBQA	PR	1	Portable. United Press Assn.
	WSAA	PR	1/2	Portable. Associated Press.
	WSAB	PR	1/2	Portable. Associated Press.
30940	WIVA	F	50	Roscommon, Mich.
	WJAB	F	2	Harrisburg, Pa.
	W3XPT	F	100	Harrisburg, Pa.
30940	W8XVE	F	100	Kellogg Mt. Fire Tower, Bradford, Pa.
	W8XVF	F	100	Rattlesnake Fire Tower, Clearfield County, Pa.
30980	KGPP	MP	15	Portland, Ore. (18 units - 15 w).
	KGZR	MP	15	Salem, Ore.
	KQBC	MP	...	Portland, Ore. (13 units).
	KQCX	MP	25	Pueblo, Colo. (3 units - 12 w).
	WAKI	MP	15	Sandusky, Ohio
	WAMH	MP	12	Shelby, Ohio
	WOFY	MP	12	Mansfield, Ohio. (4 units).
	WQMF	MP	25	Wayne County, Mich. (2 units)
	WORU	MP	25	New York City. (3 units - 25 w).
	WRBH	MP	15	Cleveland, Ohio (25 units - 15 w).
31060	KAWN	E	...	Portable. Gulf Research & Development Co.
	KOYA	GEO	10	Portable. National Geophysical Co.
	KOYB	GEO	10	Dallas, Tex. Same as KOYA
	KOYC	GEO	10	Dallas, Tex. Same as KOYA
	KOYD	GEO	10	Dallas, Tex. Same as KOYA
	KOYE	GEO	10	Dallas, Tex. Same as KOYA
31100	WAVA	MP	100	Alexandria, Va. (6 units - 20 w).
	WPHW	MP	12	Kingston, Pa.
	WQJF	MP	...	Chicago, Ill. (6 units - 15 w).
	WQJK	MP	15	Viola, N. Y. (15 units - 15 w).
	WQOG	MP	25	Bloomfield, Hills, Mich.
	WQOR	MP	12	Haverford, Pa. (1 unit - 12 w).
	WORZ	MP	20	Oakland County, Mich.
	WRGM	MP	10	Rockland County, N. Y.
	WRHB	MP	15	Stoneham, Mass. (1 unit - 15 w).
	WRHE	MP	30	Piermont, N. Y.
	WRHW	MP	15	Kingston, Pa. (2 units - 12 w).
	W1XPZ	RB	10	Lawrence, Mass.
	W3XIW	RB	10	Reading, Pa. Reading Brdcastg. Co.
	W3XPI	RB	2	Baltimore, Md. Monumental Radio Co.
	W3XPJ	RB	2	Portable. Same as W3XPI
	W4XHW	RB	50	Bristol, Tenn. (WOPI).
	W4XHY	RB	2	St. Petersburg, Fla. Chamber of Commerce.
	W5XNB	RB	2	Portable. Loyola University
	W6XAC	RB	2	Phoenix, Ariz. Sale River Valley Co.
	W6XB	RB	...	New York City. NBC, Inc.
	W6XDR	RB	2	Hollywood, Calif. KMTR Corp.
	W6XDZ	RB	2	Nampa, Idaho. Frank E. Hurt.
	W7XDA	RB	7 1/2	Walla Walla, Wash. KUJ.
	W8XEO	RB	15	Lansing, Mich. WJIM
	W8XLT	RB	2	Erie, Pa. WLEU.
	W9XAE	RB	10	Tuscola, Ill. WDZ Brdcastg. Co.
	W9XEG	RB	0	Fargo, N. Dak. WDAY.
31140	W3XAB	E	....	Aurora, Ill. Martin O'Brien.
	W3XAM	E	....	Camden, N. J. RCA Mfr. Co.
	W3XEZ	GE	....	Camden, N. J. Same as above.
	W6XDS	E1	50	Camden, N. J. Same as above.
	W7XBA	E	15	Los Angeles, Calif. John H. Hidy.
	W7XEY	E1	60	Portable. Northern Radio Co.
	W10XJP	..	15	Seattle, Wash. Radio Labs., Inc.
	W10XJQ	..	15	Portable in Asia. Trans-Asia, Inc., Lawrence
	W10XJR	..	15	Thaw Expedition.
	W10XJS	..	15	Same as above.
31220	KEJC	RB	2	Same as above.
	KEJD	RB	2	Denver, Colo. NBC, Inc.
	KEJH	RB	2	Denver, Colo. NBC, Inc.
	KEJI	RB	2	San Francisco, Calif. Same as KEJC.
				San Francisco, Calif. Same as KEJC.

	WQRY	MP	100	Madison County, Ill.
	WQSP	MP	15	High Point, N. C.
	WQSR	MP	15	Alton, Ill.
	WQSU	MP	90	Hamtramck, Mich.
	WQSW	MP	25	Decatur, Ill.
	WQSX	MP	50	Belleville, Ill.
	WQTF	MP	100	Haverstraw, N. Y.
	WQTG	MP	25	Winnetka, Ill.
	WQTK	MP	10	Niles Center, Ill.
	WQTO	MP	15	Park Rigde, Ill.
	WQXL		50	Bayonne, N. J.
	WQXM	MP	15	Kingston, N. Y.
	WQXN	MP	25	Port Jervis, N. Y.
	WQXP	MP	15	Chicago Heights, Ill.
	WQXY	MP	1/2	Darien, Conn.
	WQXZ	MP	15	Granite City, Ill.
	WQYB	MP	15	Hammond, Ind.
	WQYC	MP	15	Gary, Ind.
	WQYK	MP	100	Salem, Mass.
	WRAB	MP	75	Chattanooga, Tenn.
	WRGC	MP	25	Hickory, N. C.
	WRCK	MP	100	Olympia, Wash. (3 units - 10 w).
	WRGY	MP	25	Marysville, Calif.
20580	KACE	MP	10	Hoquiam, Wash. (3 units - 10 w).
	KADS	MP	10	Bremerton, Wash.
	KAPL	MP	10	Spokane, Wash. (14 units - 10 w).
				Centralia, Wash. (2 units - 12 w).
	KASF	MP	....	Kansas City, Mo. (50 units - 7 1/2 w).
	KGHS	MP	10	Tulsa, Okla. (15 units - 10 w).
	KGWH	MP	12	Des Moines, Iowa. ( units - 15 w).
	KGPE	MP	7 1/2	Tacoma, Wash.
	KGPO	MP	10	Duncan, Okla.
	KGZG	MP	15	Fort Smith, Ark. (2 units - 15 w).
	KGZN	MP	10	Port Angeles, Wash.
	KNFK	MP	5	Joplin, Mo.
	KNHE	MP	15	Pierce County, Wash. (1 unit - 15w; 3 units - 10 w).
	KPAP	MP	12	Colfax, Wash. (3 units - 15 w).
	KQAJ	MP	15	San Bernardino County, Calif. (9 units).
	KQBA	MP	10	Huntington, Ind. (1 unit - 15 w).
				Peru, Ind.
	KQDM	MP	15	Norristown, Pa. (1 unit - 15 w).
	KSGBC	MP	10	De Witt County, Ill. (3 units).
	WAKA	MP	100	La Porte, Ind.
	WASC	MP	10	Kokomo, Ind. (6 units).
	WMCN	MP	51	Fort Wayne, Ind. (10 units - 15 w).
	WMPJ	MP	25	Jacksonville, Fa. (1 unit - 5 w).
	WMPL	MP	10	Jacksonville, Fa. (1 unit - 8 w).
	WPDT	MP	20	Jacksonville, Fa. (5 units - 15 w).
	WPDZ	MO	15	Miami, Fla. (9 units - 16 1/2 w).
	WPFQ	MP	5	Providence, R. I.
	WPFJ	MP	8	Mobile, Ala.
	WPFK	MP	15	Bristol, Va.
	WPGF	MP	17	Oneonta, N. Y. (1 unit - 10 w).
	WPGW	MP	7 1/2	Lafayette, Ind. (6 units - 15 w).
	WPHV	MP	15	Clearwater, Fla. (2 units - 17 w).
	WQFJ	MP	12	Newark, Ohio.
	WQFQ	MP	10	Marion, Ind. (6 units - 10 w).
	WQOI	MP	15	Cleveland, Ohio.
	WQRW	MP	17	Grosse Pointe, Mich.
	WRAY	MP	10	Danville, Ill. (4 units).
	WRBH	MP	15	Portable. Gulf Research & Development Co.
	WRGO	MP	....	Snow Cruiser, Little America
30#20	KAWN	E	....	East Base, Little America
30660	KRTA	E	125	West Base, Little America
	KRTC	E	125	Camden, N. J. RCA Mfg. Co.
	KRTK	E	125	Camden, N. J. RCA Mfg. Co.
	W3XAB	E	....	Camden, N. J. RCA Mfg. Co.
	W3XAM	E	....	Portable. Northern Radio Co.
	W3XEZ	GE	....	Seattle, Wash. Radio Labs., Inc.
	W7XBA	E	15	Seattle, Wash. Same as W7EY
	W7XEY	E1	60	Pittsburg, Calif.
	W7XEZ	E1	60	Martinez, Calif.
30700	KQBT	MP	100	Columbia, Mo.
	KQCE	MP	150	Charlotte, N. C. (2 units - 10 w).
	KQDE	MP	16	Eyansville, Ind. (8 units - 10 w).
	WPDV	MP	10	Olean, N. Y.
	WQKB	MP	10	Phoenixville, Pa.
				Henderson Ky.



21570	WCBX	B	10000	New York City
21590	WGEO	B	40000	Schenectady, N. Y.
21610	JLT4	T	....	Nazaki, Japan
21620	JLS3	T	....	Nazaki, Japan
21630	W3XAL	B	35000	New York City
21640	GRZ	B	....	London, Gt. Britain
21650	WLWO	B	50000	Cincinnati, Ohio
21680	HAD	B	....	Budapest, Hungary
22475	WBF	MR	....	Hingham, Mass. Tropical Radio Teleg. Co.
2270	WBH	C	....	Hicksville, N. Y. Press Wireless, Inc.
23100	KRTA	E	125	Snow Cruiser, Little America. Byrd Antarctic Expedition
	KRTC	E	125	East Base, Little America
	KRTK	E	125	West Base, Little America
	WCBN	RB	....	New York City. CBS, Inc.
	W2XEY	GE	15	Portable. General Elec. Co.
	W2XRZ	GE	50	Portable. General Elec. Co.
	W3XAB	E	....	Camden, N. J. RCA Mfg. Co.
	W3XAM	E	....	Portable. RCA Mfg. Co.
	W6XXT	..	5000	Portable. Press Wireless, Ltd.
	W7XBA	E	15	Portable. Northern Radio Co.
	W7XEY	E1	60	Seattle, Wash. Radio Labs, Inc.
	WXUK	GE	10	Portable. W. Va. Univ., Dept. of Physics
	WXUL	GE	10	Portable. Same as W8XUK.
23120	CPX	C	....	Viacha, Bolivia
23150	CLA	T	....	Barrie field, Ont. Dept. of Nat'l. Defense
2310	CPX9	C	....	Viacha, Bolivia
23450	WBK	C	10000	Hicksville, N. Y. Press Wireless, Inc.
25200	W8XUM	FAV	100	Columbus, Ohio. WBNS, Inc.
25500	W2XQO	B	....	Flushing N. Y.
25600	WSLR	B	....	Boston, Mass.
25640	....	B	25000	Bern, Switzerland
25700	W2XEY	GE	15	Portable. General Elec. Co.
	W2XRZ	GE	50	Portable. Gen. Elec. Co.
	W2XUP	FAC	....	Newark, N. J. Bamberger Broadcasting Service
	W6XXT	GE	5000	Portable. Press Wireless, Ltd.
	W8XUK	GE	10	Portable. W. Va. Univ. Dept. of Physics
	W8XUL	GE	10	Portable. Same as WXUK
25725	WCAB	B	10000	Philadelphia, Pa.
25900	W9XPD	B	1000	St. Louis, Mo. Pulitzer Pub. Co.
25950	W4XH	B	50	Spartanburg, S. C. (WSPA)
	W6XKG	B	100	Los Angeles, Calif. (KGFS)
	W8XNU	B	1000	Cincinnati, Ohio. Crosley Corp.
26000	W2XEY	GE	15	Portable. General Elec. Co.
	W2XRZ	GE	50	Portable. Gen. Elec. Co.
	W6XXT	GE	5000	Portable. Press Wireless, Ltd.
	W8XUJ	FAC	1000	Cincinnati, Ohio. Crosley Corp.
	W8XUK	GE	10	Portable. W. Va. Univ. Dept. of Physics.
	W8XUL	GE	10	Portable. Same as WXUK
26050	W3XEX	B	....	Norfolk, Va. (WTAR)
	W9XH	B	100	South Bend, Ind. South Bend Tribune
	W9XTC	B	....	Minneapolis, Minn. (WTCN)
26100	GSK	B	....	London, Gt. Britain
	W9XJL	B	250	Superior, Wis. Head of the Lakes Brdcastg. Co.
26150	W4XA	B	1000	Nashville, Tenn. Nat'l. Life Accident Ins. Co.
	W9XUP	B	....	St. Paul, Minn. Nat'l. Battery Brdcastg. Co.
26300	W2XJ1	B	....	Newark, N. J. Bamberger Brdcastg. Serv.
26400	W9XAZ	B	500	Milwaukee, Wis. The Journal Co.
26450	W9XA	B	1000	Kansas City, Mo. Commercial Radio Equipment Co.
26500	W9XTA	B	500	Harrisburg, Ill. Schenect Radio Serv.
26550	W2XQ	B	100	Flushing, N. Y. Knickerbocker Brdcastg. Co.
27100	W2XEY	GE	15	Portable. General Electric Co.
	W2XRZ	GE	50	Portable. Gen. Elec. Co.
	W6XXT	GE	5000	Portable. Press Wireless, Ltd.
	W8XUK	GE	10	Portable. W. Va. Univ. Dept. of Physics.
	W8XUL	GE	10	Portable. Same as WXUK
27600	CLA	T	....	Barrie field, Ont. Dept. of Nat'l. Defense
28300	KC4USA	T	400	West Base, Little America
	KC4USB	T	400	East Base, Little America
	KC4USC	T	500	Snow Cruiser, Little America.
30100	KQCD	MP	15	St. Charles, Mo.
	KQCF	MP	200	Tyler, Texas
	KQCG	MP	50	Turlock, Calif.
	KQCR	MP	15	Stockton, Calif.
	KQCY	MP	25	Pueblo, Colo. ..
	WQRW	MP	....	Quincy, Mass.
	WQRW	MP	25	Newark, Ohio

	W8XUL	GE	10	Portable. Same as W8XUK
	W10XJJ	GE	25	Portable. Harvey Radio Labs., Inc.
17375	LSY	..	....	Buenos Aires, Argentina
17420	KNR	..	....	Clearwater, Calif. Mackay Radio & Teleg. Co.
17480	VWY2	T	....	Kirkee, India. Indian Radio and Cable Com- munications, Ltd., Poona 6
17640	PF	C	....	Paramaribo, Surinam
17650	XGM	..	....	Shanghai, China
17755	BZW5	B	2400	Hong Kong
17760	DJE	B	50000	Berlin, Germany
	WLWO	B	50000	Cincinnati, Ohio
17765	TPB3	B	25000	Paris, France
17770	PHI2	B	23600	Huizen, Netherlands
17780	TPB2	B	25000	Paris, France
	WNBI	B	35000	New York City
	WPIT	B	40000	Pittsburgh, Pa.
17784	....	B	25000	Bern, Switzerland
17785	JZL	B	....	Tokyo, Japan
17790	GSG	B	15000	London, Gt. Britain
17795	JLU4	T	....	Nazaki, Japan
17800	TGWA	B	10000	Guatemala City, Guat.
	XGOX	B	....	Lungtso, China
17810	GSV	B	....	London, Gt. Britain
17820	I2RO8	B	100000	Rome, Italy
17825	JVW5	T	....	Nazaki, Japan
17830	WCBX	B	10000	New York, N. Y.
17835	CIA	T	....	Barriefield, Ont.
	JLP3	T	....	Nazaki, Japan
17840	HVJ	B	15000	Vatican City
17845	DJH	B	....	Berlin, Germany
	JLS2	T	....	Nazaki, Japan
17990	OCU2	C	....	Lima, Peru
18090	TYE	T	20000	Addis Ababa, Italian E. Africa
18270	IUD	T	....	Pontoise, France
18310	GAS	T	....	Rugby, Gt. Britain
18350	WLA	C	....	Lawrenceville, N. J.
18380	CPP4	C	....	Viacha, Bolivia
18380	CPX2	C	....	Yacuila, Bolivia
18385	FZS	S	....	Saigon, French Indo-China
18450	HBF	B	20000	Geneva, Switzerland
18620	GAU	T	15000	Rugby, Gt. Britain
18680	OCC2	C	....	Lima, Peru. All America Cables, Casilla 2336
18830	PLE	C	40000	Bandoeng, Java, N. E. I. Governements Radio- Dienst
18890	ZSS	C	....	Capetown Union of S. Africa. Overseas Com- munications, Ltd., Kodak House, Shortmarket St.
18970	GAO	T	....	Rugby, Gt. Britain
19020	HS8PJ	B	5000	Bangkok, Thailand
19080	KNY	C	20000	Dixon, Calif. A. T. & T.
19140	LSM3	T	....	Buenos Aires, Arg. Cia. Internacional de Radio, Defensa 143.
19220	WDP	T	20000	Ocean Gate, N. J. Am. Teleph. & Teleg. Co.
19480	GAD	C	....	Rugby, Gt. Britain
19520	IRW	C	....	Rome, Italy
19560	KNR	C	....	Clearwater, Calif. Mackay Radio & Teleg. Co.
19630	VOG	C	....	Nairobi, Kenya. Cable & Wireless, Ltd., Box 777
19820	WKN	C	80000	Lawrenceville N. J.
19850	WBE	C	10000	Hicksville, N. Y. Press Wireess, Inc.
20020	DFZ	C	....	Nauen, Germany
20220	VOA6	C	....	Jessilton, Brit. North Borneo
20380	GAA	C	15000	Rugby, Gt. Britain
21020	LSN6	T	....	Buenos Aires, Arg.
21060	WOG	T	....	Ocean Gate, N. J.
21080	PSA	..	....	Rio de Janeiro, Brazil
21160	LSL4	T	....	Buenos Aires, Arg.
21450	DJS	B	....	Berlin, Germany
21460	WSLA	B	20000	Boston, Mass.
21470	GSH	B	....	London, Gt. Britain
21490	TPB1	B	25000	Paris, France
21500	WGEA	B	25000	Schenectady, N. Y.
21510	I2RO16	B	....	Rome, Italy
21520	JZM	B	....	Nazaki, Japan
	WCAB	B	10000	Philadelphia, Pa.
21530	GSJ	B	....	London, Gt. Britain
21540	WPIT	B	40000	Pittsburgh, Pa.
21550	GST	B	....	London, Gt. Britain
21560	JLP4	T	....	Nazaki, Japan
21565	DJ	B	....	Berlin, Germany

WFAM	4	100
WFTC	...	250
WHBC	...	250
WHBY	E	250
WHOP	...	250
WIBX	C	250
WIL	...	250
WJBC	...	250
WJBW	X	100
WJHL	...	250
WJNO	...	250
WJRD	E	100(.25)
WKBO	N	100(.25)
WLOF	P	250
WLOG	DP	100
WLVA	...	250
WMFR	...	250
WMOB	D	100
WMPC	G	250
WOLS	N	250
WRBL	C	250
WSAM	GP	100(.25)
WSKB	X	100
WSOO	P	100(.25)
WTHH	M	100
WTOL	...	250
WWAE	4	100

a	South Bend, Ind.
a	Kinston, N. C.
a	Canton, Ohio
a	Appleton, Wis.
a	Hopkinsville, Ky.
a	Utica, N. Y.
a	St. Louis, Mo.
a	Bloomington, Ill.
a	New Orleans, La.
a	Johnson City, Tenn.
a	W. Palm Beach, Fla.
a	Tuscaloosa, Ala.
a	Harrisburg, Pa.
z	Orlando, Fla.
z	Logan, W. Va.
a	Lynchburg, Va.
a	High Point, N. C.
a	Mobile, Ala.
a	Lapeer, Mich.
a	Florence, S. C.
a	Columbus, Ga.
z	Saginaw, Mich.
z	McComb, Miss.
z	Saul Ste. Marie, Mich.
a	Hartford, Conn.
a	Toledo, Ohio
a	Hammond, Ind.

Al Todd; Paul Mangus  
Jonas Weiland  
Kenneth Sliker, Ch. Eng.  
W. J. Stangel, Ch. Eng.  
.....  
David Foote, Ch. Eng.  
C. H. Stoup, Ch. Eng.  
A. M. McGregor  
Charles C. Carlson  
O. K. Garland, Ch. Eng.  
Reginald B. Martin  
James R. Doss, Jr.  
Charles Myers, Ch. Eng.  
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J. T. Orch, Eng.  
E. J. Day, Ch. Eng.  
A. B. Quigley  
Hollis F. Hayes, Ch. Eng.  
O. Lee Stone  
Oliver Hely, Ch. Eng.  
.....  
Richard K. Blackburn  
Michael Kent, Mgr.  
Robert Myers, Ch. Eng.

**1210 kcs. (247.8 m.)**

CHLT	...	100
CJCS	...	50
CKBI	F	100
CKCH	F	100
CKMC	...	50
CKNB	F	100
CMHK	...	200
KALB	...	250
KANS	N	250
KASA	M	100
KDLR	...	250
KDON	M	100
KFJI	...	100
KFOR	EM	100(.25)
KFPW	XZ	100
KFXM	M2	100
KGLO	C	250
KGY	M	100
KHBG	...	250
KIUL	...	100
KLAH	...	250
KOCA	...	250
KOVO	...	250
KPFA	EN	250
KPPC	2	100
KROY	C	100
KVSO	M	100(.25)
KWAT	P	250
KWJB	...	250
KXOX	...	250
KYUM	P	100(.25)
WBAX	AM	100
WBBL	5	100
WBRB	3	100
WCOL	NXZ	100
WCOU	M	250
WCOV	...	100
WCRW	4	100
WEBO	...	250
WEDC	G4	250
WFAS	3	100
WFOY	...	250
WFTM	P	250
WGBB	3	100
WGCM	...	100(.25)
WGRM	...	250
WHAI	M	250
WHBU	...	100(.25)
WHIZ	NX	100
WIBU	...	250

z	Sherbrooke, P. Q.
a	Stratford, Ont.
a	Prince Albert, Sask.
a	Hull, P. Q.
a	Cobalt, Ont.
a	Campbellton, N. B.
z	Cruces, Cuba
a	Alexandria, La.
a	Wichita, Kans.
a	Elk City, Okla.
a	Devils Lake, N. Dak.
a	Monterey, Calif.
a	Klamath Falls, Ore.
a	Lincoln, Nebr.
a	Fort Smith, Ark.
a	San Bernardino, Calif.
z	Mason City, Iowa
a	Olympia, Wash.
a	Okmulgee, Okla.
a	Garden City, Kans.
a	Carlsbad, N. Mex.
a	Kilgore, Texas
a	Provo, Utah
a	Helena, Mont.
a	Pasadena, Calif.
a	Sacramento, Calif.
a	Ardmore, Okla.
z	Watertown, S. Dak.
a	Globe, Ariz.
z	Sweetwater, Tex.
z	Yuma, Ariz.
a	Wilkes-Barre, Pa.
a	Richmond, Va.
a	Red Bank, N. J.
a	Columbus, Ohio
a	Lewiston, Maine
z	Montgomery, Ala.
a	Chicago, Ill.
a	Harrisburg, Ill.
a	Chicago, Ill.
a	White Plains, N. Y.
a	St. Augustine, Fla.
z	Ft. Myers, Fla.
a	Freeport, N. Y.
a	Gulfport, Miss.
a	Grenada, Miss.
a	Greenfield, Mass.
a	Anderson, Ind.
a	Zanesville, Ohio
a	Poynette, Wis.

Marcel Provst, Mgr.  
Frank M. Squires  
Gerald Prest  
.....  
R. L. MacAdam  
C. S. Chapman, Mgr.  
R. G. Gonzalez  
Virgil Evans, Prog. Dir.  
Herbert Hollister, Mgr.  
Lyman Brown, Prog. Dir.  
Merle Bjork, Ch. Annc'r.  
Howard Walters, Mgr.  
Geo. Kincaid, Mgr.  
Don Searle, Mgr.  
Dorothy Gibson, Mgr.  
J. C. Lee, Mgr.  
F. C. Eighmey, Mgr.  
W. R. Taft, Mgr.  
A. F. Schultz, Ch. Eng.  
F. D. Conard, Mgr.  
Jack Hawkins, Mgr.  
H. A. Degner, Mgr.  
.....  
E. B. Craney, Mgr.  
David Black, Mgr.  
Milton Cooper, Ch. Eng.  
Paul W. Ross, Ch. Eng.  
.....  
Bartley Sims, Mgr.  
.....  
Drury Lenington, Prog. Dir.  
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J. E. Lowe, Ch. Eng.  
Leslie Hall, Ch. Eng.  
Al Thompson, Ch. Eng.  
Clinton R. White  
J. R. Tate, Ch. Eng.  
Caleb Frisk, Ch. Eng.  
Selma Seitz, Prog. Dir.  
Bradley Overton, Ch. Eng.  
.....  
Harry H. Carman  
C. H. Dyess, Ch. Eng.  
C. A. Perkins, Ch. Eng.  
James L. Spates, Mgr.  
R. F. Fulwider, Ch. Eng.  
Ronald Woodyard, Mgr.  
Mary Thiessen



**1250 kcs. (239.9 m.)**

CMKC	...	200
KFOX	...	1000
KIT	FM	1000
KXOK	...	1000
WAIR	DM	250
WDSU	B	1000
WBHI	2	1000(2.5)
WKST	D	1000
WMRO	D	250
WNEW	2	1000(5)
WTCN	B	1000(5)
XEAI	...	500

a	Santiago, Cuba
a	Long Beach, Calif.
a	Yakima, Wash.
z	St. Louis, Mo.
a	Winston-Salem, N. C.
a	New Orleans, La.
a	Newark, N. J.
a	New Castle, Pa.
z	Aurora, Ill.
a	New York, N. Y.
a	Minneapolis, Minn.
z	Mexico City, D. F.

Ramon Duran
Hal G. Nichols, Mgr.
James A. Murphy, Mgr.
Allen Franklin, Prog. Dir.
Geo. D. Walker, Mgr.
Fréd Fabre, Ch. Eng.
Irwin R. Wolfe, Ch. Eng.
Herbert Kirk, Mgr.
Leo S. Burch, Ch. Eng.
Max Weiner, Ch. Eng.
....
Carmen Gutierrez

**1260 kcs. (238 m.)**

CMBD	...	200
CMJO	...	200
KGVO	...	1000(5)
KHSL	M	500(1)
KOIL	CEM	1000(5)
KRGV	N	1000
KUOA	D	5000
KVOA	EN	1000
WFVA	D	250
WHIO	C	1000(5)
WHLD	DP	1000
WNBX	CMY	1000
WTOC	C	1000(5)

z	Havana, Cuba
a	Ciego de Avila, Cuba
a	Missoula, Mont.
a	Chico, Calif.
a	Omaha, Nebr.
a	Weslaco, Texas
a	Siloam Springs, Ark.
a	Tucson, Ariz.
z	Fredericksburg, Va.
a	Dayton, Ohio
z	Niagara Falls, N. Y.
a	Springfield, Vt.
a	Savannah, Ga.

Luiz Perez Garcia
Bonifacio Ildefonso
A. J. Mosby, Mgr.
Harold Smithson, Mgr.
Don Searle, Mgr.
Ken L. Gibson, Mgr.
C. M. Books, Mgr.
Git Maynier, Prog. Dir.
....
Ernest Adams, Ch. Eng.
....
Wm. Moore, Ch. Eng.
Wm. B. Smart, Prog. Dir.

**1270 kcs. (236.1 m.)**

CMHD	...	200
KGCA	DQ2	100
KOL	M	1000(5)
KVOR	C	1000
KWLC	D2	100
WASH	aDN	500
WFRB	R	1000(5)
WJDX	R	1000(5)
WOOD	aN	500
XESM	...	100
XEXB	A	250
XEXE	...	17

d	Caibarien, Cuba
a	Decorah, Iowa
a	Seattle, Wash.
a	Colorado Springs, Colo.
a	Decorah, Iowa
a	Grand Rapids, Mich.
a	Baltimore, Md.
a	Jackson, Miss.
a	Grand Rapids, Mich.
z	Mexico City, D. F.
a	Jalapa, Ver. C.
z	Texcoco, D. F.

Manuel Alvarez M.
Elmer Pederson, Mgr.
Charles Greenley
Hugh Terry, Mgr.
Dr. O. J. H. Preuss
Sandy Mek, Prog. Dir.
Wm. O. Ranft, Ch. Eng.
Percy Root, Ch. Eng.
Sandy Meek, Prog. Dir.
....
....
....

**1280 kcs. (234.2 m.)**

CMKO	...	200
KFBB	C	1000(5)
KLS	...	250
WCAM	2	500
WCAP	2	500
WDOD	C	1000(5)
WIBA	N	1000(5)
WORC	C	500
WRR	M	500
WTNJ	2	500
XEKR	...	100
XEMX	A	100

z	Holguin, Cuba
a	Great Falls, Mont.
a	Oakland, Calif.
a	Camden, N. J.
a	Asbury Park, N. J.
b	Chattanooga, Tenn.
a	Madison, Wis.
a	Worcester, Mass.
a	Dallas, Texas
a	Trenton, N. J.
z	Mexico City, D. F.
z	Mexico City, D. F.

Manuel Angulo Faran
Jessie Jacobson, Mgr.
S. W. Warner, Mgr.
R. L. Horn, Prog. Dir.
....
Frank S. Lane, Mgr.
M. F. Chapin, Ch. Eng.
....
Chas Jordan, Prog Dir
E. P. Knowles, Ch. Eng.
....
Alfonso Avalos

**1290 kcs. (232.4 m.)**

CMCG	...	200
KDYL	R	1000(5)
KLCN	D	100
KTRH	C	1000(5)
WATR	...	250
WEBC	N	1000(5)
WJAS	C	1000(5)
WJHP	P	250
WNBZ	D	100
WNEL	...	1000(2.5)

a	Havana, Cuba
a	Salt Lake City, Utah
a	Blytheville, Ark.
a	Houston, Texas
a	Waterbury, Conn.
a	Duluth, Minn.
a	Pittsburgh, Pa.
z	Jacksonville, Fla.
a	Saranac Lake, N. Y.
a	San Juan, Puerto Rico

O. Montenegro
S. S. Fox, Mgr.
C. L. Lintzenich, Mgr.
B. F. Orr, Mgr.
....
Chas. Persons, Ch. Eng.
Walter McCoy, Ch. Eng.
Carlyle Wright, Mgr.
....
Juan Piza

**1300 kcs. (230.6 m.)**

KALE	M	1000
KFAC	...	1000
KFH	C	1000(5)
WBRR	2	1000

a	Portland, Ore.
a	Los Angeles, Calif.
a	Wichita, Kans.
a	Brooklyn, N. Y.

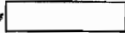
Dick Rand, Prog. Dir.
E. Tyler, Log Dept.
Russell L. Lowe, Mgr.
....

WEVD	2	1000
WFBC	NX	1000(5)
WHAZ	2	1000
WHBL	...	250(11)
WLWL	P	1000

a	New York, N. Y.
a	Greenville, S. C.
a	Troy, N. Y.
g	Sheboygan, Wis.
z	Minneapolis, Minn.

....  
 Frank Blair, Prog. Dir.  
 H. D. Harris, Ch. Eng.  
 Herbert Mayer, Ch. Eng.  
 ....

**1310 kcs. (228.9 m.)**



CFGP	...	100
CHCK	...	50
CJKL	F	100
CJLS	F	100
CKCV	F	100
CMKE	P	...
KARM	C	250
KBNB	...	250
KCKN	E	250
KCRJ	E	250
KFPL	...	250
KFYO	M	100(.25)
KGEZ	...	100
KGFW	...	250
KHUB	...	250
KMYR	P	100(.25)
KOCY	...	250
KOME	EM	250
KPND	...	100
KRMD	...	250
KROC	EN	250
KRRV	DMXZ	250
KSRO	...	250
KSUB	...	100
KTSM	N2XZ	250
KUIN	...	100
KVIC	...	100(.25)
KVOL	...	250
KVOX	E	250
KVSF	C	100
KWFC	P	100(.25)
KWOC	...	250
KWOS	...	250
KXRO	M	250
TGI	...	...
WAML	...	250
WBRE	N	250
WBRK	M	250
WCLS	L	100
WCMI	M	250
WDAH	2	250
WDMJ	...	250
WEBR	B	250
WEMP	...	250
WEXL	...	50
WFBG	R	100
WFDL	B	100
WFIG	P	100(.25)
WGAU	...	250
WGH	K	250
WGTM	...	250
WHAT	4	100
WINX	P	250
WJPF	P	100(.25)
WJPR	...	250
WLAK	N	250
WLBC	...	250
WLBJ	P	250
WLNH	M	250
WMBO	...	250
WMFF	B	250
WNBH	MX	100(.25)
WRAW	...	100
WROL	N	250
WSAJ	...	100
WSAV	N	100
WSGN	BE	100(.25)
WSJS	CM	250
WSOY	...	100(.25)
WTAL	...	100(.25)
WTEL	4	100
WTJS	...	250

a	Grande Prairie, Alta.
a	Charlottetown, P. E. I.
a	Kirkland Lake, Ont.
a	Yarmouth, N. S.
a	Quebec, P. Q.
z	Manzanillo, Cuba
a	Fresno, Calif.
z	Bend, Ore.
a	Kansas City, Kans.
a	Jerome, Ariz.
f	Dublin, Texas
a	Lubbock, Texas
a	Kalispell, Mont.
a	Kearney, Nebr.
a	Watsonville, Calif.
a	Denver, Colo.
z	Oklahoma City, Okla.
z	Tulsa, Okla.
a	Pampa, Texas
a	Shreveport, La.
a	Rochester, Minn.
a	Sherman, Texas
a	Santa Rosa, Calif.
a	Cedar City, Utah
a	El Paso, Texas
a	Grants Pass, Ore.
a	Victoria, Texas
a	Lafayette, La.
a	Moorhead, Minn.
a	Santa Fe, N. Mex.
z	Hot Springs, Ark.
a	Poplar Bluff, Mo.
a	Jefferson City, Mo.
a	Aberdeen, Wash.
d	Guatemala City, Guat.
a	Laurel, Miss.
a	Wilkes-Barre, Pa.
a	Pittsfield, Mass.
a	Joliet, Ill.
a	Ashland, Ky.
a	El Paso, Texas
a	Marquette, Mich.
a	Buffalo, N. Y.
a	Milwaukee, Wis.
a	Royal Oak, Mich.
a	Altoona, Pa.
a	Flint, Mich.
z	Sumter, S. C.
a	Athens, Ga.
a	Newport News, Va.
a	Wilson, N. C.
a	Philadelphia, Pa.
z	Washington, D. C.
z	Terrin, Ill.
z	Greenville, Miss.
z	Lakeland, Fla.
a	Muncie, Ind.
z	Bowling Green, Ky.
a	Laconia, N. H.
a	Auburn, N. Y.
a	Plattsburg, N. Y.
a	New Bedford, Mass.
a	Reading, Pa.
a	Knoxville, Tenn.
a	Grove City, Pa.
a	Savannah, Ga.
a	Birmingham, Ala.
a	Winston-Salem, N. C.
a	Decatur, Ill.
a	Tallahassee, Fla.
a	Philadelphia, Pa.
a	Jackson, Tenn.

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 Laurie L. Smith  
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 De Witt Landis, Mgr.  
 Donald Treloar  
 Clark Standiford, Mgr.  
 John Bennett, Mgr.  
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 M. H. Bonebrake, Mgr.  
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 M. M. Marget, Mgr.  
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 E. Hayes, Ch. Eng.  
 Paul W. Holton, Eng.  
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 Roy Thompson, Eng.  
 F. S. Loeb, Mgr.  
 J. Samuel Brody  
 A. Lynne Brannen  
 Gene Stratton, Prog. Dir.  
 H. W. Wilson, Eng.  
 Julius Geise, Ch. Eng.  
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 Powell Hunter, Ch. Eng.  
 John R. Pepper  
 Donald A. Burton  
 ....  
 Kenneth Taylor, Ch. Eng.  
 Herbert House, Ch. Eng.  
 John Nazak, Ch. Eng.  
 I. Vermilya  
 ....  
 L. Strunk  
 Herbert Harmon, Mgr.  
 ....  
 Richard Kingston, Prog. Dir.  
 ....  
 B. C. Rummell, Ch. Eng.

**RADEX**

WTRC ... 250  
 XEAG ... 250  
 XEBO ... 25  
 XEFW ... 300  
 XETB ... 500  
 XEX ... 500  
 .... P 250

**1320 kcs. (227.1 m.)**

CMCR ... 200  
 KGHF ... B 500  
 KGM BCMZX 1000  
 KID ... 500(1)  
 KRNT ... C 1000(5)  
 WADC CX 1000(5)  
 WORK N 1000  
 WSMR RX 1000(5)

**1330 kcs. (225.4 m.)**

KGB MX 1000  
 KMO M 1000  
 KRIS N 500  
 KSCJ NX 1000(5)  
 WDRC CX 1000(5)  
 WSAI MNX 1000(5)  
 WTAQ CX 1000(5)

**1340 kcs. (223.7 m.)**

KDTH DP 500  
 KGIR EN 5000  
 KGNO ... 250(1)  
 WCOA N 500(1)  
 WFEA MN 500(1)  
 WFNC DP 250  
 WSPD RX 1000(5)  
 WPAB P 1000  
 XEAP ... 50  
 XEBJ ... 100  
 XEBS ... 200  
 XEBW ... 250  
 XEDH ... 200  
 XEFC ... 100  
 XELW ... 250

**1350 kcs. (222.1 m.)**

CMCA ... 200  
 KIDO N 1000(2.5)  
 KWK BM 1000(5)  
 WAWZ 2 1000  
 WBNX 2 1000  
 WMBG RX 500

**1360 kcs. (220.4 m.)**

CMJH ... 200  
 KCRC EM 250  
 KGER ... 1000  
 KLPM ... 500(1)  
 KSLM M 500(1)  
 WCSC C 500(1)  
 WFBL C 1000(5)  
 WGES 2 500(1)  
 WQBC D 1000  
 WSBT C2 500

**1370 kcs. (218.8 m.)**

CFAR ... 100  
 CFOS ... 100  
 CJOC ... 100  
 CKCW F 100  
 CKRN ... 250  
 CMGE ... 200  
 HIZ ... 75  
 KEEN 3 100  
 GELD 250  
 KERN BEXZ 100

a Elkhart, Ind.  
 z Cordoba, Ver. C.  
 z Irapuato, Gto.  
 a Tampico, Tam.  
 a Torreon, Coah.  
 a Monterrey, N. L.  
 z Washington, D. C.

z Havana, Cuba  
 a Pueblo, Colo.  
 a Honolulu, Hawaii  
 a Idaho Falls, Idaho  
 a Des Moines, Iowa  
 a Akron, Ohio  
 a York, Pa.  
 a New Orleans, La.

a San Diego, Calif.  
 a Tacoma, Wash.  
 a Corpus Christi, Tex.  
 a Sioux City, Iowa  
 g Hartford, Conn.  
 a Cincinnati, Ohio  
 a Green Bay, Wis.

z Dubuque, Iowa  
 a Butte, Mont.  
 b Dodge City, Kans.  
 a Pensacola, Fla.  
 a Manchester, N. H.  
 z Fayetteville, N. C.  
 a Toledo, Ohio  
 z Ponce, Puerto Rico  
 z Obregon, Son.  
 a Victoria, Tam.  
 z Mexico City, D. F.  
 z Chihuahua, Chih.  
 z Villa Acuna, Coah.  
 a Merida, Yuc.  
 z Guadalajara, Jal.

a Havana, Cuba  
 a Boise, Idaho  
 a St. Louis, Mo.  
 a Zarephath, N. J.  
 a New York, N. Y.  
 a Richmond, Va.

d Ciego de Avila, Cuba  
 a Enid, Okla.  
 a Long Beach, Calif.  
 a Minot, N. Dak.  
 a Salem, Ore.  
 a Charleston, S. C.  
 a Syracuse, N. Y.  
 a Chicago, Ill.  
 a Vicksburg, Miss.  
 a South Bend, Ind.

a Flin Flon, Man.  
 z Owen Sound, Ont.  
 a Lethbridge, Alta.  
 a Moncton, N. B.  
 z Rouyn, P. Q.  
 a Cardenas, Cuba  
 z Trujillo, D. R.  
 a Seattle, Wash.  
 z El Dorado, Ark.  
 a Bakersfield, Calif.

R. R. Baker, Mgr.  
 Diodoro Zuniga  
 Alfonso Martinez  
 Aurelio G. Zaragoza  
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 J. H. McGill, Pub. Dir.  
 Webley Edwards, Mgr.  
 Jack Duckworth, Mgr.  
 Edmund Linehan, Prog. Dir.  
 Robert Wilson  
 J. E. Mathiot, Ch. Eng.  
 H. G. Nebe, Ch. Eng.

David R. Young, Prog. Dir.  
 Carl E. Haymond  
 T. Frank Smith, Mgr.  
 C. W. Corkhill, Mgr.  
 Italo Martini, Ch. Eng.  
 Bill Bailey, Pub. Dir.  
 ....

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 E. B. Craney, Mgr.  
 N. C. Peterson, Mgr.  
 ....  
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 ....

Emilio Manzanilla  
 Fernando Elizalde  
 Maria Remedios Delgado  
 ....  
 Vincente Hernandez  
 Julio Molina Font  
 ....

J. M. Gonzalez, Dir.  
 C. G. Phillips, Mgr.  
 Clarence Cosby, Mgr.  
 ....  
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 ....

Luis Marauri H.  
 Wm. Butterfield, Annc'r.  
 Jay Tapp, Ch. Eng.  
 Richard Schmidt, Mgr.  
 Clyde Wiegand, Ch. Eng.  
 ....  
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 ....  
 J. O. Tardif, Mgr.  
 Genero Sebater  
 Frank Hatton  
 Arthur Dailey, Mgr.  
 F. E. Bolls  
 Robert Stoddard, Mgr.

KFGO D 100  
 KFRO DXZ 250  
 KFVS ... 250  
 KGFL 4 100  
 KGFL 100  
 KICA 100  
 KIUN ... 100  
 KIUP ... 100  
 KLUF ... 250  
 KMAC 5 250  
 KOBH ... 250  
 KOKO ... 100  
 KONO 5 250  
 KORN ... 100(.25)  
 KRE ... 250  
 KRKO 3 50  
 KRMC ... 250  
 KTEM M 250  
 KTOK EMN 250  
 KTSW M 250  
 KTUC CE 250  
 KUJ ... 100  
 KVFD G 250  
 KVGB ... 250  
 KVR5 ... 250  
 KWLK ... 250  
 KWYO ... 250  
 WABY BM 100(.25)  
 WAGF D 250  
 WARM P 100(.25)  
 WATL M 250  
 WATW P 100  
 WBLK N 250  
 WBNY 2 250  
 WBTH ... 250  
 WBTM ... 100(.25)  
 WCBM ... 250  
 WCNC ... 250  
 WCOS ... 250  
 WDAS ... 250  
 WDWS ... 250  
 WEOA C 250  
 WFOR ... 100  
 WFTL ... 100(.25)  
 WGBR ... 250  
 WGL N 250  
 WGRC M 250  
 WHBO ... 100  
 WHDF ... 250  
 WHKY P 250  
 WHLB C 250  
 WHLS ... 250  
 WHUB P 250  
 WIBM B 250  
 WISE N 250  
 WJAC R 250  
 WJHO P 100(.25)  
 WLLH S 10-100  
 WLLH MS 250  
 WMAN D- 250  
 WMBR C 250  
 WMFD ... 100(.25)  
 WMGA ... 250  
 WMIN ... 250  
 WMSL DEX 100  
 WOC C 250  
 WORD P 100(.25)  
 WPAY ... 100  
 WPRO XX 1000(.25)  
 WRAK ... 250  
 WRDO MN 100  
 WRJN ... 250  
 WSAU ... 250  
 WSLB P 250  
 WSV5 D2 50  
 WTSP ... 250  
 XECZ ... 100  
 XEJ ... 125  
 XELZ ... 100  
 CMCW ... 200  
 KOH NXZ 500  
 KQV ... 10000

a Boone, Iowa  
 a Longview, Texas  
 a Cape Girardeau, Mo.  
 a Roswell, N. Mex.  
 a San Angelo, Texas  
 a Clovis, N. Mex.  
 a Pecos, Texas  
 a Durango, Colo.  
 a Galveston, Tex.  
 a San Antonio, Tex.  
 a Rapid City, S. Dak.  
 a La Junta, Colo.  
 a San Antonio, Tex.  
 a Fremont, Nebr.  
 a Berkeley, Calif.  
 a Everett, Wash.  
 a Jamestown, N. Dak.  
 a Temple, Texas  
 a Oklahoma City, Okla.  
 a Emporia, Kans.  
 a Tucson, Ariz.  
 a Walla Walla, Wash.  
 a Fort Dodge, Iowa  
 a Great Bend, Kans.  
 a Rock Springs, Wyo.  
 a Longview, Wash.  
 a Sheridan, Wyo.  
 a Albany, N. Y.  
 a Dothan, Ala.  
 a Scranton, Pa.  
 a Atlanta, Ga.  
 a Asheville, N. C.  
 a Clarksburg, W. Va.  
 a Buffalo, N. Y.  
 z Williamson, W. Va.  
 a Danville, Va.  
 z Baltimore, Md.  
 z Elizabeth City, N. C.  
 a Columbia, S. C.  
 a Philadelphia, Pa.  
 a Champaign, Ill.  
 a Evansville, Ind.  
 a Hattiesburg, Miss.  
 a Ft. Lauderdale, Fla.  
 a Goldsboro, N. C.  
 a Fort Wayne, Ind.  
 a New Albany, Ind.  
 a Memphis, Tenn.  
 a Calumet, Mich.  
 z Hickory, N. C.  
 a Virginia, Minn.  
 a Port Huron, Mich.  
 z Cookeville, Tenn.  
 a Jackson, Mich.  
 z Asheville, N. C.  
 a Johnstown, Pa.  
 z Opelika, Ala.  
 a Lawrence, Mass.  
 a Lowell, Mass.  
 a Mansfield, Ohio  
 a Jacksonville, Fla.  
 a Wilmington, N. C.  
 z Moultrie, Ga.  
 a St. Paul, Minn.  
 a Decatur, Ala.  
 a Davenport, Iowa  
 z Spartanburg, S. C.  
 a Portsmouth, Ohio  
 a Mayaguez, P. R.  
 a Williamsport, Pa.  
 a Augusta, Maine  
 a Racine, Wis.  
 a Wausau, Wis.  
 z Ogdensburg, N. Y.  
 b Buffalo, N. Y.  
 z St. Peterburg, Fla.  
 z San Luis Potosi, S. L. P.  
 a Morella, Micho.  
 z Mexico City, D. F.  
 d Havana, Cuba  
 a Reno, Nev.  
 b Pittsburgh, Pa.

Harold Johnson, Mgr.  
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 Robert Donahue  
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**1380 kcs. (217.3 m.)**

WALA	CX	500(1)	a	Mobile, Ala.
WING	N	250(.5)	a	Dayton, Ohio
WKBH	C	1000	a	La Crosse, Wis.
WNBC	B	1000	a	New Britain, Conn.

W. O. Pape, Mgr.  
 ....  
 Rogers B. Holt, Ch. Eng.

**1390 kcs. (215.7 m.)**

CMJC	...	200	z	Camaguey, Cuba
KABR	...	500(1)	a	Aberdeen, S. Dak.
KLRA	C	1000(5)	a	Little Rock, Ark.
KRLC	...	250	a	Lewiston, Idaho
WHK	KBM	1000(5)	a	Cleveland, Ohio
WQDM	AD	1000	f	St. Albans, Vt.
XEM	...	500	z	Chihuahua, Chih.

Miguel Guillen Perez  
 W. L. Dean, Prog. Dir.  
 S. C. Vinsonhaler, Mgr.  
 Donald H. Wike, Mgr.  
 E. L. Gove, Tech. Sup.  
 ....  
 ....

**1400 kcs. (214.2 m.)**

CMAR	...	200	z	Pinar del Rio, Cuba
CMKR	...	200	z	Santiago de Cuba
KLO	B	5000	a	Ogden, Utah
KTUL	C	5000	a	Tulsa, Okla.
TGX	...	...	d	Guatemala City, Guat.
WARD	2	500	a	Brooklyn, N. Y.
WBBC	D	500	a	Brooklyn, N. Y.
WHDL	2	250	a	Olean, N. Y.
WIRE	MR	5000	a	Indianapolis, Ind.
WLTH	2	500	a	New York, N. Y.
WVFW	2	500	a	Brooklyn, N. Y.
XEA	...	250	z	Campeche, Cam.
XEAJ	...	100	z	Navojoa, Son.
XEDE	...	100	z	Torreón, Coah.
XEDS	...	250	z	Mazatan, Sin.

....  
 Jaime Nadal  
 Paul R. Heitmeyer  
 W. C. Gillespie  
 ....  
 Aron Kronenberg  
 Bert Child, Prog. Dir.  
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 Earl Lewis, Ch. Eng.  
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 ....

**1410 kcs. (212.5 m.)**

CKFC	2	50	a	Vancouver, B. C.
CKMO	2	100	a	Vancouver, B. C.
CMCQ	...	200	a	Havana, Cuba
KFJM	...	500(1)	a	Grand Forks, N. Dak.
KGNC	N	1000(2.5)	a	Amarillo, Texas
KMED	N	250(1)	b	Medford, Ore.
WAAB	EM	1000	a	Boston, Mass.
WBCM	...	500(1)	a	Bay City, Mich.
WHIS	...	500(1)	a	Bluefield, W. Va.
WROK	M	500(1)	a	Rockford, Ill.
WSFA	CE	500(1)	a	Montgomery, Ala.

....  
 ....  
 Andres Martinez  
 Dalton Le Masurier, Mgr.  
 O. L. Taylor, Mgr.  
 ....  
 E. A. Donaher  
 ....  
 Edw. L. Ketts  
 ....  
 ....

**1420 kcs. (211.1 m.)**

CBY	F	100	a	Toronto, Ont.
CHLN	...	100	z	Three Rivers, P. Q.
CKCA	F	100(.25)	a	Kenora, Ont.
CKLN	F	100	a	Nelson, B. C.
CMJP	...	200	a	Moron, Cuba
KABC	M	250	a	San Antonio, Texas
KATE	E	250	a	Albert Lea, Minn.
KBPS	4	100	a	Portland, Ore.
KCMC	M	250	a	Texarkana, Texas
KDNT	...	100	a	Denton, Texas
KEUB	...	100	a	Price, Utah
KFAM	EN	250	a	St. Cloud, Minn.
KFIZ	E	100	a	Fond du Lac, Wis.
KGFF	EM	250	a	Shawnee, Okla.
KGIW	3	100	a	Alamosa, Colo.
KGLU	...	250	a	Safford, Ariz.
KIDW	3	100	a	Lamar, Colo.
KLBM	...	250	z	La Grande, Ore.
KORE	M	250	a	Eugene, Ore.
KRBC	M	250	a	Abilene, Texas
KRBM	E	250	a	Bozeman, Mont.
KRIC	...	250	z	Beaumont, Texas
KRLH	...	100	a	Midland, Texas
KSAN	...	250	a	San Francisco, Calif.

Leon Trepanier, Ch.Eng.  
 ....  
 Hume Lethbridge, Mgr.  
 Cesar Canals  
 Chas. Belfi, Prog. Dir.  
 Geo. Russell, Prog. Dir.  
 Wm. Allingham, Mgr.  
 W. T. Casper, Prog. Dir.  
 Jack Wallace, Prog Dir.  
 Sam G. Weiss  
 Geo. Bairey, Mgr.  
 Lynn B. Fairbanks, Mgr.  
 Ross Porter, Mgr.  
 E. L. Allen  
 ....  
 Sherrill Ellsworth, Mgr.  
 Paul E. Walden, Ch. Eng.  
 Frank Hill, Mgr.  
 Max Bentley, Mgr.  
 ....  
 ....  
 Thomas Belzel, Mgr.  
 S. H. Paterson, Mgr.

KTRI	...	250
KVAK		100
KWAL	...	100(.25)
KWBG	X	100
KXL	4	250
WACO	CM	250
WAGM	...	100
WAOV	P	100
WAPO	NXZ	250
WAZL	...	250
WCBS	...	250
WCHV	...	250
WEED	...	250
WELL	B	100
WFMJ	...	250
WGNC	...	250
WGPC	X	100
WHFC	...	250
WHMA	X	100
WILM	...	250
WJMS	...	250
WKIP	P	250
WLAP	M	100(.25)
WLEU	B	250
WLPN	P	100(.25)
WMAS	C	250
WMBC	...	250
WMBH	...	250
WMBS	...	250
WMFJ	...	250
WMSD	X	100
WNOE	...	250
WPAD	...	250
WPAR	C	100
WPRP	...	250
WSLI	...	250
WSPB	...	100(.25)
....	P	100(.25)
....	P	100
....	P	100(.25)

**1430 kcs. (209.7 m.)**

CJGX	F	1000
CMKZ	...	200
KGNF	D	1000
KINY		1000
KSO	BM	1000(5)
WBNS	C	1000(5)
WHEC	C	500(1)
WHP	C	1000(5)
WMPS	B	500(1)
WOKO	CK	500(1)
XERH	...	500

**1440 kcs. (208.2 m.)**

CKGB	F	100
CMBY	...	200
KDFN	...	500
KELA	M	1000
KXYZ	BM	1000
WBIG	C	1000(5)
WCBA	a	500
WMBD	C	1000(5)
WSAN	aN	500
XEFI	...	1000

**1450 kcs. (206.8 m.)**

CFCT	...	500
CHGS	F	50
CMHM	...	200
HRN	...	500
KCMO	...	1000(5)
KGCX	...	1000
KIEM	M	500(1)
KTBS	NZ	1000
TGQ	...	200

f	Sioux City, Iowa
a	Atchison, Kans.
a	Wallace, Idaho
a	Hutchinson, Kans.
b	Portland, Ore.
b	Waco, Texas
a	Presque Isle, Maine
z	Vincennes, Ind.
a	Chattanooga, Tenn.
a	Hazleton, Pa.
a	Springfield, Ill.
a	Charlottesville, Va.
a	Rocky Mount, N. C.
a	Battle Creek, Mich.
a	Youngstown, Ohio
z	Gastonia, N. C.
a	Albany, Ga.
a	Cicero, Ill.
a	Anniston, Ala.
a	Wilmington, Del.
a	Ironwood, Mich.
z	Poughkeepsie, N. Y.
a	Lexington, Ky.
a	Erie, Pa.
z	Suffolk, Va.
a	Springfield, Mass.
a	Detroit, Mich.
a	Joplin, Mo.
a	Uniontown, Pa.
a	Daytona Beach, Fla.
a	Muscle Shoals City, Ala.
a	New Orleans, La.
a	Paducah, Ky.
a	Parkersburg, W. Va.
a	Ponce, Puerto Rico
a	Jackson, Miss.
a	Sarasota, Fla.
z	Martinsville, Va.
z	Marsville, Calif.
z	Valdosta, Ga.

Dietrich Dirks, Mgr.
....
....
W. B. Greenwald, Mgr.
T. W. Symons, Jr. Mgr.
James W. Pate, Mgr.
R. W. MacIntosh Mgr.
....
R. G. Patterson, Mgr.
Edward Beisel, Prog. Dir.
....
....
Wm. Avers Wynne
....
F. C. Todd, Mgr.
....
....
Edwin Mullinax
....
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Winston L. Clark, Mgr.
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....
E. H. Clark, Ch. Eng.
Joplin, Mo.
Chas. McClane, Eng.
W. Wright Esch
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....
Julio M. Conesa
G. G. Benson, Ch. Eng.
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....
....

a	Yorkton, Sask.
z	Palma Soriano, Cuba
a	North Platte, Nebr.
a	Juneau, Alaska
a	Des Moines, Iowa
a	Columbus, Ohio
a	Rochester, N. Y.
a	Harrisburg, Pa.
a	Memphis, Tenn.
a	Albany, N. Y.
z	Mexico City, D. F.

A. L. Garside, Mgr.
Joaquin Venero Obregon
J. B. Eaves, Eng.
C. B. Arnold, Mgr.
Edmund Linehan, Prog. Dir.
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a	Timmins, Ont.
a	Havana, Cuba
a	Casper, Wyo.
a	Centralia, Wash.
a	Houston, Texas
a	Greensboro, N. C.
a	Allentown, Pa.
a	Peoria, Ill.
a	Allentown, Pa.
a	Chihuahua, Chih.

R. H. Thomson
Donald Hathaway
Pedro Marti, Ch. Eng.
J. Elroy McCaw, Mgr.
T. Frank Smith, Mgr.
....
....
F. A. Giles, Tech. Dir.
Geo. G. Snyder Prog. Dir.
Feliciano Lopez Islas

a	Victoria, B. C.
f	Summerside, P. E. I.
z	Cienfuegos, Cuba
b	Tegucigalpa, Hond.
a	Kansas City, Mo.
a	Wolf Point, Mont.
a	Eureka, Calif.
a	Shreveport, La.
a	Quezaltenango, Guat.

....
R. T. Holman
Jose R. Feminias
....
Lee Roberts, Prog. Dir.
Milton J. Severson, Mgr.
Wm. B. Smullin Mgr.
John McCormack, Mgr.
....

WAGA B 500(1)  
 WGAR C 1000(5)  
 WHOM ... 250  
 W SAR M 1000  
 XEF ... 100

a Atlanta, Ga.  
 a Cleveland, Ohio  
 a Jersey City, N. J.  
 f Fall River, Mass.  
 a Juarez, Chih.

Jess Swicegood  
 R. M. Pierce, Ch. Eng.  
 .....  
 Gilberto Gil

**1460 kcs. (205.4 m.)**

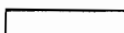


CMKF ... 250  
 KSTP RX 10000(25)  
 WJSV CX 10000

z Holguin, Cuba  
 z St. Paul, Minn.  
 a Washington, D. C.

Manuel J. De Gongora  
 Stanley Hubbard, Mgr.  
 Harry R. Crow; Clyde Hunt

**1470 kcs. (204 m.)**



CMCX ... 200  
 H18Q 1475 100  
 KGA BM 5000  
 WLAC ... 5000

z Havana, Cuba  
 z Trujillo, D. R.  
 a Spokane, Wash.  
 a Nashville, Tenn.

L. Sanchez  
 Julio A. Garcia  
 A. L. Smith, Mgr.  
 J. T. Ward

**1480 kcs. (202.6 m.)**

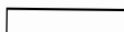


CMHX ... 200  
 KOMA C 5000  
 WHIP D 5000  
 WKBW CM 5000

a Cienfuegos, Cuba  
 a Oklahoma City, Okla.  
 z Hammond, Ind.  
 a Buffalo, N. Y.

J. Garcia R.  
 Haymond Ramsey  
 Elmer Herkner  
 .....

**1490 kcs. (201.2 m.)**

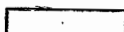


CMKQ E 1000  
 KFBK EKN 10000  
 WCKY C 50000  
 XECH ... 250  
 XEDR ... 100

z Santiago de Cuba  
 a Sacramento, Calif.  
 a Cincinnati, Ohio  
 z Toluca, Mex.  
 z Guaymas, Son.

Mario Abril Dumois  
 Howard Lane  
 C. H. Topmiller, Ch. Eng.  
 .....  
 Modeste Ortega

**1500 kcs. (199.9 m.)**



CJIC F 100  
 CMOX ... 200  
 KAWM ... 100  
 KBIX EM 100  
 KBKR P 100(.25)  
 KBST M 100  
 KDAL C 100(.25)  
 KDB EM 100(.25)  
 KDRO ... 100(.25)  
 KFDA M 100  
 KGFI ... 100(.25)  
 KGKY ... 250  
 KNEL D 250  
 KNOW M 250  
 KOTN D 100  
 KOVC ... 250  
 KPAB ... 250  
 KPLC ... 250  
 KPLT ... 250  
 KPQ M 250  
 KRNR M 100(.25)  
 KR0D P 250  
 KTOH P 100(.25)  
 KUTA N 250  
 KVOE M 100  
 KWVC ... 250  
 KWEW ... 100  
 KXO M 100  
 KYCA P 100(.25)  
 KYSM EN 250  
 WCNW 2 100(.25)  
 W DAN ... 250  
 WDNC ... C 250  
 WGAL N 250  
 WGIL ... 250  
 WGKV N 100  
 WKAT ... 250  
 WKBB ... C 250  
 WGTG DP 250  
 WHBB ... 100  
 WJBK ... 250

a Sault Ste. Marie, Ont.  
 a Havana, Cuba  
 a Gallup, N. Mex.  
 a Muskogee, Okla.  
 z Baker, Ore.  
 a Big Spring, Texas  
 a Duluth, Minn.  
 a Santa Barbara, Calif.  
 z Sedalla, Mo.  
 z Amarillo, Texas  
 a Brownsville, Texas  
 a Scottsbluff, Nebr.  
 a Brady, Texas  
 a Austin, Texas  
 a Pine Bluff, Ark.  
 a Valley City, N. Dak.  
 a Laredo, Texas  
 a Lake Charles, La.  
 a Paris, Texas  
 a Wenatchee, Wash.  
 a Roseburg, Ore.  
 z El Paso, Texas  
 z Lihue, Hawaii  
 a Salt Lake City, Utah  
 a Santa Ana, Calif.  
 z Vernon, Texas  
 a Hobbs, N. Mex.  
 a El Centro, Calif.  
 z Prescott, Ariz.  
 a Mankato, Minn.  
 a Brooklyn, N. Y.  
 a Danville, Ill.  
 a Durham, N. C.  
 a Lancaster, Pa.  
 z Greenville, N. C.  
 z Selma, Ala.  
 z Detroit, Mich.  
 z Miami Beach, Fla.  
 a Dubuque, Iowa  
 a Galesburg, Ill.  
 z Charleston, W. Va.

J. C. Whitby  
 E. Chisholm  
 A. W. Mills  
 J. H. Speck, Mgr.  
 Louis P. Thornton  
 Mary V. Keneaster, Prog. Dir.  
 Gilbert Fawcett, Prog. Dir.  
 Earl Pollock, Mgr.  
 .....  
 Fred Hammond, Ch. Eng.  
 .....  
 G. L. Burns  
 .....  
 B. J. Parrish, Mgr.  
 Mark C. Crandall, Mgr.  
 Mervel M. Valentine  
 C. R. Porter, Mgr.  
 J. Bert Mitchell, Mgr.  
 Cole E. Wylie, Mgr.  
 Justin B. Toles, Mgr.  
 Dorrence D. Roderick  
 C. J. Fern, Jr.  
 Frank C. Carman, Mgr.  
 Ernest L. Spencer, Mgr.  
 Mrs. C. C. Minyard, Sec'y.  
 W. E. Whitmore  
 F. M. Bowles, Mgr.  
 .....  
 H. Kimberly, Ch. Eng.  
 Arthur Faske  
 Perry W. Esten, Ch. Eng.  
 .....  
 Paul Kalbfleisch, Ass't Eng.  
 .....  
 Winifred Powers  
 Russell Bennet  
 L. Carlson, Eng. Dept.  
 .....  
 .....

WKBY	...	100(.25)	a	Richmond, Ind.	....
WKBZ	...	250	a	Muskegon, Mich.	....
WKEU	D	100	a	Griffin, Ga.	....
WKNY	DX	100	a	Kingston, N. Y.	....
WMEX	XZ	100(.25)	a	Boston, Mass.	....
WMJM	P	100(.25)	z	Cordale, Ga.	....
WMOG	P	100(.25)	z	Brunswick, Ga.	....
WNBF	C	250	a	Binghamton, N. Y.	....
WNLC	M	100	a	New London, Conn.	....
WOLF	P	100	z	Syracuse, N. Y.	....
WOMI	...	250	a	Owensboro, Ky.	....
WOPJ	...	250	a	Bristol, Tenn.	....
WRDW	C	250	a	Augusta, Ga.	....
WRGA	...	250	a	Rome, Ga.	....
WRTD	BXZ	100	a	Richmond, Va.	David Bain, Ch. Eng.
WSTP	M	250	a	Salisbury, N. C.	James R. Yost, Ch. Eng.
WSYB	M	250	a	Rutland, Vt.	....
WTMC	...	100	z	Ocala, Fla.	....
WTMY	...	250	a	E. St. Louis, Ill.	F. S. Liggett, Ch. Eng.
WWRL	Z	100(.25)	a	Woodside, N. Y.	....
WWSW	...	250	a	Pittsburgh, Pa.	....
XEQK	...	400	z	Mexico City, D. F.	....
....	P	100(.25)	z	Erie, Pa.	....

**1510 kcs. (198.6 m.)**

CFRC	F	100	a	Kingston, Ont.	H. H. Stewart, Ch. Eng
CKCR	...	100	a	Waterloo, Ont.	G Liddle

**1520 kcs. (197.3 m.)**

TGW	...	5000	e	Guatemala City, Guat.	L. Schlesinger Carrera, Dir.
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**1530 kcs. (196 m.)**

CMC	...	200	z	Havana, Cuba	....
KITE	...	1000	a	Kansas City, Mo.	Pete Houck, Eng.
WBRY	CM	1000	a	Waterbury, Conn.	S. E. Warner, Ch. Eng.
....	P	1000	z	Akron, Ohio	....

**1550 kcs. (193.4 m.)**

KPMC	M	1000	a	Bakersfield, Calif.	L. A. Schamblin, Mgr.
WQXR	X	1000	a	New York, N. Y.	Russell Valentine, Ch. Eng.

**1560 kcs. (112.2 m.)**

CMBF	...	5000	z	Havana, Cuba	J P. Malvido, Dir.
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**1580 kcs. (189.8 m.)**

CMRT	...	200	z	Guines, Cuba	Raul Torres Pardal
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**1600 kcs. (187.4 m.)**

CMBH	...	5000	e	Havana, Cuba	Alberto Alvarez Ferrera
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(Continued from Page 30)

**High Frequency Broadcast Stations**

aural broadcasting, are assigned to services as follows:	43,100	45,100	47,100	49,100
Non-Commercial Educational Broadcast Stations	43,300	45,300	47,300	49,300
	43,500	45,500	47,500	49,500
	43,900	45,700	47,700	49,700
	43,900	45,900	47,900	49,900
	42,100	44,100	46,100	48,100
	42,300	44,300	46,300	48,300
	42,500	44,500	46,500	48,500
	42,700	44,700	46,700	48,700
	42,900	44,900	46,900	48,900

# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

*Frequency is given in kilocycles in second column. For power and network affiliations, refer to the list of North American stations by Frequencies.*

<b>ALABAMA</b>  Anniston WBMA 1420 Birmingham WAPI 1148 WBBC 930 WSGN 1310 Decatur WMSL 1370 Dothan WAGF 1370 Gadsden WJBY 1210 Huntsville WBHP 1200 Mobile WALA 1380 WMOB 1290 Montgomery WCOV 1210 WSFA 1410 Selma WBBB 1500 Muscle Shoals City WMSD 1420 Tuscaloosa WJED 1200	<b>El Dorado</b> KELD 1370 Fort Smith KFPW 1210 Hot Springs KTHS 1060 KWFC 1310 Jonesboro KBTM 1200 Little Rock KARK 890 KGHI 1200 KLRA 1390 Pine Bluff KOTN 1500 Shoam Springs KUOA 1280	<b>San Bernardino</b> KFXM 1210 San Diego KFSD 600 KGB 1330 San Francisco KFRC 610 KGO 790 KJBS 1070 KPO 680 KSAN 1420 KSFO 660 KYA 1230 San Jose KQW 1010 San Luis Obispo KVEC 1200 Santa Ana KVOE 1500 Santa Barbara KDB 1500 KTMS 1220 Santa Rosa KSRO 1310 Stockton KGDM 1100 KWG 1200 Visalia KTKC 890 Watsonville KHUB 1310	New Haven WREI 930 New London WNLC 1500 Waterbury WATB 1290 WBBY 1530	<b>Athens</b> WGAU 1310 Atlanta WAGA 1450 WAZL 1370 WMBI 1080 WGST 890 WSB 740 Augusta WRDW 1500 Brunswick WMOG 1500 Columbus WRBL 1200 Cordele WALM 1500 Griffin WKBU 1500 Macon WMAZ 2180 Moultrie WMGA 1370 Rome WRGA 1500 Savannah WSAV 1310 WTCC 1260 Thomasville WPAX 1310 Waycross WAXX 1200
<b>DELAWARE</b>				
<b>Wilmington</b> WDEL 1120 WILM 1429				
<b>DISTRICT OF COLUMBIA</b>				
<b>Washington</b> WJWS 1460 WMAL 890 WOL 1230 WBC 969				
<b>FLORIDA</b>				
<b>Daytona Beach</b> WMFJ 1420 <b>Ft. Lauderdale</b> WFTL 1370 <b>Ft. Myers</b> WFTM 1210 <b>Gainesville</b> WBUF Jacksonville 830 WJAX 990 WJHP 1290 WMBR 1370 <b>Lakeland</b> WLAK 1316 <b>Miami</b> WIOD 619 WMBF 619 WQAM 590 <b>Miami Beach</b> WKAT 1500 <b>Ocala</b> WTMC 1506 <b>Orlando</b> WDBO 530 <b>Panama City</b> WDLP 1200 <b>Pensacola</b> WCOA 1340 <b>St. Augustine</b> WFOY 1216 <b>St. Petersburg</b> WSUN 626 WTSP 1370 <b>Sarasota</b> WSPB 1420 <b>Tallahassee</b> WTAL 1316 <b>Tampa</b> WDAB 1220 WFLA 829 <b>West Palm Beach</b> WJNO 1200				
<b>HAWAII</b>				
<b>Hilo</b> KHBC 1200 <b>Honolulu</b> KGMH 1330 KGU 790 <b>Lihue</b> KTOH 1500				
<b>IDAHO</b>				
<b>Boise</b> KIDO 1350 <b>Idaho Falls</b> KID 1320 <b>Lewiston</b> KRLC 1390 <b>Nampa</b> KFSD 1200 <b>Pocatello</b> KSEI 900 <b>Twin Falls</b> KTFI 1240 <b>Wallace</b> KWAL 1420				
<b>ILLINOIS</b>				
<b>Aurora</b> WMRO 1250 <b>Bloomington</b> WJBC 1200 <b>Carthage</b> WCAZ 1070 <b>Champaign</b> WDWS 1370 <b>Chicago</b> WAAP 920 WBBM 770 WCBD 1690 WCFL 970 WCRW 1210				
<b>ALASKA</b>  Anchorage KFQD 780 Fairbanks KFAR 610 Juneau KINY 1430 Ketchikan KGBU 900	<b>California</b>  Bakersfield KERN 1370 KPBC 1550 Berkeley KBE 1370 Beverly Hills KMPC 710 Chico KHSL 1280 El Centro KXO 1500 Eureka KIEH 1450 Fresno KARM 1310 KMJ 590 Glendale KIEV 850 Long Beach KFOX 1250 KGER 1360 Los Angeles KECA 780 KFAC 1300 KFI 640 KFSG 1120 KFVD 1000 KFVB 950 KGFJ 1300 KHJ 900 KMTR 870 KNX 1050 KRKD 1120 Merced KYOS 1040 Modesto KTRB 740 Monterey KDON 1210 Oakland KLS 1280 KLX 880 KROW 930 Pasadena KPPC 1210 Redding KVCV 1200 Sacramento KFBK 1490 KROY 1210	<b>Colorado</b>  Alamosa KGIW 1420 Colorado Springs KVOB 1370 Denver KFEL 920 KLN 590 KMYR 1310 KOA 830 KPOF 880 KVOO 630 Durango KIUP 1370 Grand Junction KFJX 1200 Greeley KFKA 880 La Junta KOKO 1370 Lamar KIDW 1420 Pueblo KGFB 1320 Sterling KGEK 1290	<b>CONNECTICUT</b>  Bridgeport WIOC 600 Hartford WDRB 1330 WTRT 1040 WHTT 1200 New Britain WNBC 1330	<b>Georgia</b>  Albany WGPC 1420

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

WECB 1210	<b>IOWA</b>		Hopkinsville 1200	WEEI 590	<b>MINNESOTA</b>
WENB 870	Amee		WHOP 1200	WHDH 830	
WGES 1860	WOI 640		Lexington	WMEX 1500	
WGN 730	Boone		WLAP 1420	WNAO 1230	
WJJD 1130	KFGQ 1370		Louisville	WORL 920	
WLS 870	Cedar Rapids		WAVE 940	Fall River	
WMAQ 670	WMT 600		WHAS 820	WSAR 1450	
WMBI 1080	Davenport		WINN 1210	Greenfield	
WWSB 1210	WOC 1870		Owensboro	WHAI 1210	
Cleora	Decorah		WOMI 1500	Hyannis	
WHFC 1420	KGCA 1270		Paducah	WOCB 1210	
Danville	KWLG 1370		WPAD 1420	Lawrence	
WDAN 1600	Des Moines		<b>LOUISIANA</b>		
Deatur	KRNT 1320		Alexandria	WLAW 690	
WSOY 1310	KSO 1430		KALB 1210	WLLH 1370	
East St. Louis	KBO 1000		Baton Rouge	Lowell	
WTMY 1500	Dubuque		WJBO 1120	WLLH 1370	
Galesburg	KDTH 1240		Lafayette	New Bedford	
WGIL 1500	WKBB 1500		KVOL 1310	WNHL 1310	
Harrisburg	Fort Dodge		Lake Charles	Pittsfield	
WEBG 1210	KVFD 1370		KPLC 1500	WBRK 1310	
Herrin	Iowa City		Monroe	Salom 1200	
WJPF 1310	WSUI 880		KMLB 1200	WESX 1200	
Joliet	Marshalltown		New Orleans	Springfield	
WCLS 1310	KFJB 1300		WDSU 1250	WBAZ 690	
Peoria	Mason City		WJBW 1200	WMAA 1420	
WMBD 1440	KGLO 1210		WNOE 1420	WSPB 1140	
Quincy	Shenandeah		WSMB 1320	Worcester	
WTAD 900	KFNF 890		WVW 850	WORC 1280	
Rookford	KMA 930		Shreveport	WTAG 580	
WROK 1410	Sioux City		KRMD 1310	<b>MICHIGAN</b>	
Roek Island	KSCJ 1330		KTBS 1450	Battle Creek	
WBBF 1240	KTRI 1420		KWKH 1100	WELL 1420	
Springfield	<b>KANSAS</b>				Bay City
WCBS 1420	Ablene				WBCM 1410
WTAX 1210	KEBI 1050				Calumet
Tuscola	KVAK 1420				WDFP 1370
WDZ 1020	Coffeyville				Detroit
Urbana	KGGE 1010				WJBK 1500
WILL 580	Dodge City				WJB 750
<b>INDIANA</b>					WMCB 1420
Anderson	Emporia				WWJ 920
WBW 1210	Garden City				WXYZ 1240
Eikhart	KIUL 1310				East Lansing
WTRC 1310	Great Bend				WKAR 850
Evansville	KVGB 1370				Filnt
WECA 1870	Hutchinson				WPDF 1310
WGBF 390	Kansas City				Grand Rapids
Fort Wayne	KCKN 1310				WASH 1270
WGL 1370	Lawrence				WOOD 1270
WOWO 1180	KFKU 1220				Iranwood
Gary	WREN 1220				WJMS 1420
WIND 500	Manhattan				Jackson
Hammond	KSAC 590				WIBM 1370
WHIP 1480	Pittsburg				Kalamazoo
WWAE 1200	KOAM 700				WKGO 590
Indianapolis	Salina				Lansing
WFBI 1230	KSAL 1800				WJIM 1210
WIBC 1050	Topeka				Lapeer
WIRE 1490	WIBW 580				WMPG 1200
Muncie	Wlehita				Marquette
WLBC 1310	KANS 1210				WDMJ 1310
New Albany	KFH 1300				Muskegon
WGBC 1370	<b>KENTUCKY</b>				WKBB 1500
Richmond	Ashland				Pontiac
WKBY 1500	WCMI 1310				WCAR 1100
South Bend	Bowling Green				Pert Huren
WFAM 1200	WBLJ 1310				WHLS 1370
WSBT 1360					Royal Oak
Terra Haute					WEXL 1310
WBOW 1200					Saginaw
Vincennes					WHAL 950
WAOV 1420					WSAM 1200
West Lafayette					Sault Ste. Marie
WBAA 890					WSOO 1200

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

St. Joseph  
 KFEG 880  
 St. Louis  
 KFVO 550  
 KMOX 1099  
 KSD 550  
 KWK 1359  
 KXOK 1350  
 WFW 760  
 WIL 1300  
 Sedalia  
 KDRO 1500  
 Springfield  
 KGBX 1330  
 KWTO 560

MONTANA

Billings  
 KGHL 780  
 Bozeman  
 KRBM 1420  
 Butte  
 KGLB 1340  
 Great Falls  
 KFBB 1280  
 Helena  
 KPFA 1210  
 Kalispell  
 KGEZ 1310  
 Missoula  
 KGVO 1260  
 Wolf Point  
 KGCK 1450

NEBRASKA

Fremont  
 KORN 1370  
 Grand Island  
 KMMJ 740  
 Hastings  
 KHAS 1200  
 Kearney  
 KGFV 1310  
 Lincoln  
 KFAB 770  
 KFOR 1210  
 Norfolk  
 WJAG 1060  
 North Platte  
 KGNF 1430  
 Omaha  
 KOIL 1260  
 KOWH 680  
 WOW 590  
 Scottsbluff  
 KGKY 1500

NEVADA

Reno  
 KOH 1390

NEW HAMPSHIRE

Lasonia  
 WLNH 1310  
 Manchester  
 WFEA 1340  
 Portsmouth  
 WHEB 740

NEW JERSEY

Asbury Park  
 WCAP 1280  
 Atlantic City  
 WBAB 1290  
 WPG 1100  
 Bridgeton  
 WSNJ 1210  
 Camden  
 WCAM 1280  
 Jersey City  
 WAAF 940  
 WHOM 1450  
 Newark  
 WHBI 1250  
 WOB 710  
 Red Bank  
 WBBB 1210  
 Trenton  
 WTNJ 1280  
 Zarephath  
 WAWZ 1350

NEW MEXICO

Albuquerque  
 KGGM 1280  
 KOB 1180  
 Carlsbad  
 KLAH 1210  
 Clovis  
 KICA 1370  
 Gallup  
 KAWM 1500  
 Hobbs  
 KWEV 1500  
 Roswell  
 KGFL 1370  
 Santa Fe  
 KVSF 1310

NEW YORK

Albany  
 WABY 1370  
 WOKO 1430  
 Auburn  
 WMBO 1230  
 Binghamton  
 WNEF 1500  
 Brockton  
 WARD 1490  
 WBBC 1400  
 WBBE 1300  
 WCNW 1500  
 WVPW 1400  
 Buffalo  
 WBEN 900  
 WBNY 1370  
 WEBB 1310  
 WGB 550  
 WKBW 1490  
 WSVS 1370  
 Canton  
 WCAD 1230  
 Elmira  
 WENY 1200  
 WESG 550  
 Freeport  
 WGBB 1210  
 Jamestown  
 WJTN 1210  
 Newburgh  
 WQNY 1230

New York

WABC 860  
 WBLI 1160  
 WBNX 1350  
 WBOQ 860  
 WBAF 660  
 WEVD 1300  
 WHN 1010  
 WINS 1180  
 WJZ 760  
 WLTH 1400  
 WMCA 570  
 WNEW 1250  
 WNYC 810  
 WOV 1130  
 WQXR 1550  
 Niagara Falls  
 WFLD 1260  
 Ogdensburg  
 WSLB 1370  
 Olean  
 WHDL 1400  
 Plattsburg  
 WMPF 1310  
 Poughkeepsie  
 WKIP 1420  
 Rochester  
 WHAM 1150  
 WHEC 1430  
 WSAY 1210  
 Saranac Lake  
 WNBZ 1290  
 Schoenestady  
 WGY 790  
 Syracuse  
 WFBL 1360  
 WOLF 1500  
 WSYR 570  
 WSYU 570  
 Troy  
 WHAS 1300  
 WTRY 850  
 Utica  
 WIBX 1200  
 Ulster Twp.  
 WKNY 1500  
 White Plains  
 WFAS 1310  
 Woodside  
 WWEL 1500

NORTH CAROLINA

Asheville  
 WISE 1370  
 WWNC 570  
 Charlotte  
 WBT 1080  
 WSOB 1210  
 Durham  
 WDNC 1500  
 Elizabeth City  
 WCNC 1370  
 Fayetteville  
 WFNC 1340  
 Gastonia  
 WGNC 1420  
 Goldsboro  
 WGBB 1370  
 Greensboro  
 WBIG 1440  
 Greenville  
 WCTC 1500  
 Hickory  
 WHKY 1370  
 High Point  
 WMFB 1260

Kinston

WFTC 1200  
 Raleigh  
 WPTF 630  
 WRAL 1210  
 Rocky Mount  
 WEEF 1420  
 Salisbury  
 WSTP 1500  
 Wilmington  
 WMPD 1370  
 Wilson  
 WGTM 1210  
 Winston-Salem  
 WALB 1250  
 WSJS 1310

NORTH DAKOTA

Bismarck  
 KFYZ 550  
 Devils Lake  
 KDLE 1210  
 Fargo  
 WDAY 940  
 Grand Forks  
 KFJM 1410  
 Jamestown  
 KRMC 1370  
 Mandan  
 KGCU 1240  
 Minot  
 KLPW 1360  
 Valley City  
 KOVC 1500

OHIO

Akron  
 WADC 1320  
 WJW 1210  
 Ashtabula  
 WICA 940  
 Canton  
 WBNB 1200  
 Cincinnati  
 WKYC 1490  
 WCPO 1200  
 WKBO 550  
 WLW 700  
 WSAI 1280  
 WSKO 700  
 Cleveland  
 WCLE 610  
 WGAR 1450  
 WIK 1390  
 WTAM 1070  
 Columbus  
 WBNS 1430  
 WCOL 1210  
 WHEC 640  
 WOSU 570  
 Dayton  
 WHIO 1260  
 WING 1380  
 Lima  
 WLOK 1210  
 Mansfield  
 WMAN 1370  
 Portsmouth  
 WPAV 1370  
 Toledo  
 WSPD 1340  
 WTOL 1200  
 Youngstown  
 WFMJ 1420

WBEW 870  
 Zanesville  
 WHIZ 1210

OKLAHOMA

Ada  
 KADA 1200  
 Ardmore  
 KVSO 1210  
 Elk City  
 KASA 1210  
 Enid  
 KCRC 1360  
 Muskogee  
 KBIX 1500  
 Norman  
 WNAD 1010  
 Oklahoma City  
 KOCT 1310  
 KOMA 1480  
 KTOK 1370  
 WKY 900  
 Okmulgee  
 KHBG 1210  
 Ponca City  
 WBBZ 1200  
 Shawnee  
 KGFF 1420  
 Tulsa  
 KOME 1310  
 KTVL 1400  
 KVOO 1140

OREGON

Astoria  
 KAST 1200  
 Baker  
 KBKR 1500  
 Bend  
 KBND 1310  
 Corvallis  
 KOAC 590  
 Eugene  
 KORE 1420  
 Grants Pass  
 KUIN 1310  
 Klamath Falls  
 KFJI 1210  
 La Grande  
 KLBM 1420  
 Marshfield  
 KOOS 1200  
 Medford  
 KMED 1410  
 Portland  
 KALE 1360  
 KBFS 1420  
 KEX 1160  
 KGW 620  
 KOIN 940  
 KWJZ 1040  
 KXL 1420  
 Roseburg  
 KRNB 1500  
 Salem  
 KSLM 1360

Pennsylvania

Allentown  
 WCBA 1440  
 WSAJ 1440  
 Altoona  
 WFBG 1310  
 Easton  
 WEST 1200

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

**Erie**  
 WLEU 1420  
 Glenside  
 WBGB 970  
 Greensburg  
 WHJB 620  
 Grove City  
 WSAJ 1810  
 Harrisburg  
 WHP 1430  
 WKBO 1200  
 Hazelton  
 WAZL 1420  
 Johnstown  
 WJAC 1370  
 Lancaster  
 WGAL 1500  
 New Castle  
 WKST 1250  
 Philadelphia  
 KYW 1020  
 WCAU 1170  
 WDAS 1870  
 WFIL 560  
 WHAT 1810  
 WIP 618  
 WPEN 920  
 WTEL 1810  
 Pittsburgh  
 KDKA 980  
 KQV 1380  
 WCBE 1220  
 WJAS 1290  
 WWSW 1500  
 Reading  
 WREU 890  
 WBAW 1310  
 Scranton  
 WGBI 880  
 WQAN 880  
 Sharon  
 WPIC 780  
 Sunbury  
 WKOK 1210  
 Uniontown  
 WMBS 1420  
 Wilkes-Barre  
 WBAX 1210  
 WBRF 1810  
 Williamsport  
 WBAK 1370  
 York  
 WORK 1320

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**PUERTO RICO**  
 Mayaguez  
 WPRA 1870  
 Ponce  
 WPAB 1340  
 WPRP 1420  
 San Juan  
 WKAQ 1240  
 WNLQ 1290

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**RHODE ISLAND**  
 Providence  
 WEAN 780  
 WJAB 890  
 WPBO 680

**SOUTH CAROLINA**  
 Anderson  
 WAIM 1200

**Charleston**  
 WCSC 1380  
 WTMA 1210  
 Columbia  
 WCOS 1870  
 WIS 560  
 Florence  
 WOLS 1200  
 Greenville  
 WFBC 1800  
 Spartanburg  
 WORD 1370  
 WSPA 920  
 Sumter  
 WFIG 1310

**SOUTH DAKOTA**

Aberdeen  
 KABE 1290  
 Brookings  
 KEDY 780  
 Pierre  
 KGFX 680  
 Rapid City  
 KOBH 780  
 WCAT 1200  
 Sioux Falls  
 KELO 1200  
 KSOO 1110  
 Vermillion  
 KUSD 890  
 Watertown  
 KWAT 1210  
 Yankton  
 WNAZ 870

**TENNESSEE**

Bristol  
 WOPI 1600  
 Chattanooga  
 WAPO 1420  
 WDOO 1280  
 Cookeville  
 WHBV 1370  
 Jackson  
 WTJS 1310  
 Johnson City  
 WJHL 1200  
 Knoxville  
 WNOX 1010  
 WBOL 1810  
 Memphis  
 WHBQ 1870  
 WMC 780  
 WMPS 1420  
 WREC 600  
 Nashville  
 WLAC 1470  
 WSIX 1210  
 WSM 680

**TEXAS**

Abilene  
 KBBC 1420  
 Amarillo  
 KFDA 1500  
 KGNC 1410  
 Austin  
 KNOW 1500

**Beaumont**  
 KFDM 560  
 ERIC 1420  
 Big Spring  
 KBST 1500  
 Brady  
 KNEI 1500  
 Brownsville  
 KGFI 1500  
 College Station  
 WTAW 1120  
 Corpus Christi  
 KBIS 1390

Dallas  
 KRLL 1040  
 WFAA 800  
 WBR 1280

**Denton**  
 KDNT 1420

Dublin  
 KFPL 1310  
 El Paso  
 KROD 1500  
 KTSM 1310  
 WDAH 1310

**Fort Worth**  
 KFJZ 1240  
 KGKO 870  
 WBAP 800

**Galveston**  
 KLUF 1370

**Houston**  
 KPRC 920  
 KTRH 1390  
 KXYZ 1440

**Kilgore**  
 KOCA 1210

**Laredo**  
 KPAB 1500

**Lengview**  
 KFRO 1370

**Lubbock**  
 KFYO 1810

**Midland**  
 KRLH 1420

**Pampa**  
 KPDN 1310

**Paris**  
 KPLT 1600

**Pecos**  
 KIUN 1370

**Plainview**  
 KWBD 1200

**Port Arthur**  
 KPAC 1220

**San Angelo**  
 KGKL 1370

**San Antonio**  
 KABC 1420  
 EMAC 1370

**KONO** 1370  
**RTSA** 550  
**WOAI** 1190

**Sherman**  
 KBBV 1310

**Sweetwater**  
 KXOX 1210

**Temple**  
 0181 FEELH

**Texarkana**  
 KCMC 1420  
 Vernon  
 KYWC 1500  
 Victoria  
 KVIC 1310  
 Waco  
 WACO 1420  
 Weslaco  
 KRGV 1260  
 Wihlita Falls  
 KWFT 620

**UTAH**

**Cedar City**  
 KSUB 1310

**Logan**  
 KVVU 1200

**Ogden**  
 KLO 1400

**Price**  
 KEUB 1420

**Provo**  
 KOVO 1250

**Salt Lake City**  
 KDYL 1290  
 KSL 1130  
 KUTA 1500

**VERMONT**

**Burlington**  
 WCAJ 1200

**Rutland**  
 WSYB 1800

**St. Albans**  
 WQDM 1390

**Springfield**  
 WNBX 1260

**Waterbury**  
 WDEV 550

**VIRGINIA**

**Charlottesville**  
 WCHV 1420

**Danville**  
 WBTM 1370

**Fredericksburg**  
 WFFA 1260

**Harrisonburg**  
 WSWA 550

**Lynchburg**  
 WLVA 1200

**Newport News**  
 WGH 1310

**Norfolk**  
 WTAR 730

**Petersburg**  
 WPID 1210

**Richmond**  
 WBBL 1210  
 WMBG 1350

**WREN** 880  
**WRFD** 1500

**WVA** 1118  
**Roanoke**  
 WDBJ 980

**Suffolk**  
 WLPN 1420

**WASHINGTON**

**Aberdeen**  
 KKRO 1810

**Bellingham**  
 KVOS 1200

**Centralia**  
 KTEL 1440

**Everett**  
 KRKO 1370

**Longview**  
 KWLK 780

**Olympia**  
 KGY 1210

**Pullman**  
 KWSC 1220

**Seattle**  
 KEEN 1370

**KIRO** 718  
**KJR** 970

**KOL** 1370  
**KOMO** 980

**KRBC** 1120  
**KTW** 1220

**KXA** 760  
**Spokane**  
 KFIO 1120

**KFPY** 890  
**KGA** 1470

**KHQ** 696  
**Tacoma**  
 KMO 1330

**KVI** 870  
**Vancouver**  
 KVAN 880

**Walla Walla**  
 KUJ 1370

**Wenatchee**  
 KPO 1500

**Yakima**  
 KIT 1250

**WEST VIRGINIA**

**Buckley**  
 WLS 1210

**Bluefield**  
 WHIS 1410

**Charleston**  
 WCHS 588

**WGVA** 1500  
**Clarkburg**  
 WBLK 1370

**Fairmont**  
 WMMN 890

**Huntington**  
 WSAZ 1190

**Parkersburg**  
 WPAB 1420

**Wheeling**  
 WWVA 1160

**Williamson**  
 WBTH 1370

**WISCONSIN**

**Appleton**  
 WBTV 1200

**Ashland**  
 WATA 1370

**Eau Claire**  
 WEAU 1050

**Fond du Lac**  
 KFIZ 1420

**Green Bay**  
 WTAQ 1380



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

Janesville	
WCLO	1300
LaCrosse	
WKBB	1880
Madison	
WHA	940
WIBA	1280
Manitowoc	
WOMT	1210
Marinette	
WLAM	570
Milwaukee	
WEMP	1810
WISN	1129
WTMJ	620
Peynette	
WIBU	1219
Racine	
WRJN	1870
Rice Lake	
WJMC	1210
Sheboygan	
WBBL	1300
Stevens Point	
WLBL	900
Superior	
WDSM	1200
Wausau	
WSAU	1870

**WYOMING**

Casper	
KDFN	1440
Rock Springs	
KVRS	1870
Sheridan	
KWYO	1870

**BAHAMAS**

Nassau	
ENS	790

**CANADA  
ALBERTA**

Calgary	
CFAC	930
CFCN	1030
CJGJ	690
Edmonton	
CFEN	960
CJCA	730
CKUA	580
Grande Prairie	
CFGP	1200
Lethbridge	
CJOC	1210

**BRITISH  
COLUMBIA**

Chilliwack	
CHWK	780
Kamloops	
CFJC	880
Kelowna	
CKOV	680
Nelson	
CKLN	1420
Prince Rupert	
CFPR	880

Trail	
CAJAT	910
Vancouver	
CBB	1100
CJOB	600
CKCD	1010
CKFC	1410
CKMO	1410
CKWX	2010
Victoria	
CFCT	1450

**MANITOBA**

Brandon	
CKX	1120
Flin Flin	
CFAB	1870
Winnipeg	
CJRC	690
CKY	910

**NEW  
BRUNSWICK**

Campbellton	
CKNB	1210
Fredericton	
CFNB	550
Moncton	
CKCW	1870
Sackville	
CBA	1050
St. John	
CHSJ	1120

**NOVA SCOTIA**

Glace Bay	
VAS	685
Halifax	
CHNS	380
Sydney	
CJCB	1240
Wolfville	
CKIC	1010
Yarmouth	
CJLS	1310

**ONTARIO**

Brantford	
CKPC	930
Chatham	
CFCO	680
Cobalt	
CKMC	1210
Fort William	
CKPE	580
Hamilton	
CHML	1010
CKOC	1120
Kanera	
CKCA	1430
Kinston	
CFBC	1510
Kirkland Lake	
CKL	1810
Londen	
CFPL	730
North Bay	
CFCH	930
Ottawa	
CBO	830
CKOO	1010

Owen Sound	
CFOS	1370
Prescott	
CFPC	930
St. Catharines	
CKTB	1200
Sault Ste. Marie	
CJIC	1500

Stratford	
CJCS	1210
Sudbury	
CKSO	730
Timmins	
CKGB	1440
Toronto	
CEL	840
CBY	1420
CFRB	690
CKCL	580
Waterloo	
CKCE	1510
Windsor	
CKLW	1080
Winham	
CKNX	1200

**PRINCE ED-  
WARD ISLAND**

Charlottetown	
CFCY	680
CHCK	1810
Summerside	
CHGS	1450

**QUEBEC**

Chicoutimi	
CBJ	1120
Hull	
CKCH	1210
Montreal	
CBF	910
CBM	960
CFCF	600
CHLP	1180
CKAC	780
New Carlisle	
CHNC	610
Quebec	
CHBC	580
CKCV	1810
CBV	950

Rimouski	
CJBB	1030
Rouys	
CKBN	1870
St. Anne de la Pensilene	
CHGJ	1200
Sherbrooke	
CHLT	1210
Three Rivers	
CHLN	1420
Val d'Or	
CKVD	1200

**SASKATCH-  
EWAN**

Moose Jaw	
CHAB	1200
Prince Albert	
CKBI	1210
Regina	
CJRM	950
CKCK	1010

Saskatoon	
CFQC	600
Watuau	
CBK	540
Yorkton	
CJGX	1430

**GOSTA RICA**

Alajuela	
TISCV	575
San Jose	
TIAFB	900
TIEMC	860
TIEP	830
TIFA	1000
TIGH	690
TIGPH	600
TIGPH2	1225
TIHO	1030
TIJ	775
TILS	889
TINBC	1070
TING	750
TIOS	940
TIPG	625
TIBCC	1300
TIRS	920
TIXD	800

**CUBA**

Banes	
CMKX	1190
Bayamo	
CMKL	950
Calbarion	
CMHD	1270
Camaguay	
CMJA	860
CMJC	1390
CMJE	1230
CMJF	870
CMJK	1020
CMJW	1070
CMJX	660
Cardenas	
CMGE	1370
Ciego de Avila	
CMHG	1260
CMJI	1180
CMJO	1260
Cienfuegos	
CMHJ	1160
CMHM	1450
CMHX	1480
Cruces	
CMHK	1210
Guantanamo	
CMKS	710
Guines	
CMGBT	1680
Havana	
CMBC	690
CMBD	1260
CMBF	1800
CMBG	1140
CMBH	1600
CMBL	750
CMBQ	910
CMBS	1170
CMBX	1080
CMBY	1440
CMBZ	940
CMC	1520
CMCA	1350
CMCB	1230

CMCD	680
CMCF	810
CMCG	1290
CMCH	1090
CMCJ	1110
CMCK	970
CMCL	730
CMCM	850
CMCO	1200
CMCQ	1410
CMCU	1010
CMCR	1320
CMCW	2380
CMCX	1470
CMCY	570
CMK	730
CMOA	660
CMOX	1500
CMQ	780
CMW	550
CMX	880
CMZ	920
Holguin	
CMKF	1460
CMKO	1230
Manzanillo	
CMKE	1810
CMKM	1080

Matanzas	
CMGF	1120
CMGH	710
Moren	
CMPT	1480
Palma Sorlano	
CMKZ	1430
Pinar del Rio	
CMAB	1240
CMAR	1400
Plaetas	
CMHP	1100
Sagua la Grande	
CMHA	1080
CMHO	1020
Sancti Spiritus	
CMHB	1240
Santa Clara	
CMHI	830
CMHW	690
Santiago	
CMKC	1250
CMKD	910
CMKG	1000
CMKQ	1490
CMKR	1400
CMKW	1030
CMKY	960
Trinidad	
CMET	920

**DOMINICAN  
REPUBLIC**

Ciudad Trujillo	
HIG	900
HIN	1090
HIX	860
HIT	1050
HIZ	1370
HISQ	1470

**EL SALVADOR**

San Salvador	
YSS	640

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<b>GUATEMALA</b>	<b>XEBW</b> 1840	<b>XERH</b> 1480	<b>OAXACA</b>	<b>Tampico</b>
<b>Guatemala City</b>	<b>XEPI</b> 1440	<b>XESM</b> 1270	<b>Oaxaca</b>	<b>XBCA</b> 1280
<b>TGW</b> 1550	<b>XEM</b> 1390	<b>XEW</b> 800	<b>XEJX</b> 1150	<b>XEFW</b> 1310
<b>TGX</b> 1400	<b>Juarez</b>	<b>XEXX</b> 1170		<b>XES</b> 990
<b>TGI</b> 1810	<b>XEF</b> 1450	<b>DURANGO</b>	<b>PUEBLA</b>	<b>Victoria</b>
<b>Quezaltenango</b>	<b>XEFV</b> 1210	<b>Durango</b>	<b>Puebla</b>	<b>XEBJ</b> 1340
<b>TGQ</b> 1450	<b>XEJ</b> 1070	<b>XEBP</b> 1150	<b>XETH</b> 1210	<b>VERACRUZ</b>
	<b>XEP</b> 1160	<b>XEE</b> 1210		<b>Cordoba</b>
<b>HONDURAS</b>	<b>XEAT</b> 1210	<b>GUANAJUATO</b>	<b>SAN LUIS POTOSI</b>	<b>XEAG</b> 1210
<b>Tegucigalpa</b>	<b>COAHUILA</b>	<b>Irapuato</b>	<b>San Luis Potosi</b>	<b>XEWC</b> 1240
<b>HBN</b> 1450	<b>Piedras Negras</b>	<b>XEBO</b> 1810	<b>XECZ</b> 1370	<b>Jalapa</b>
<b>MEXICO</b>	<b>XEMU</b> 590	<b>Leon</b>		<b>XEXB</b> 1370
<b>Aguascalientes</b>	<b>XEPN</b> 750	<b>XEFM</b> 1160	<b>SINALOA</b>	<b>Hinaitian</b>
<b>Aguascalientes</b>	<b>Sabinas</b>	<b>XEKL</b> 1240	<b>Mazatlan</b>	<b>XEDW</b> 1150
<b>XEAD</b> 1240	<b>XEBX</b> 640	<b>Silao</b>	<b>XEBL</b> 1220	<b>Vera Cruz</b>
<b>XEBI</b> 1000	<b>Satillo</b>	<b>XEWE</b> 720	<b>XEDS</b> 1400	<b>XETF</b> 1220
<b>BAJA CALIFORNIA</b>	<b>XEAS</b> 1160	<b>JALISCO</b>	<b>SONORA</b>	<b>XEU</b> 1010
<b>Mexicali</b>	<b>XEBS</b> 1240	<b>Guadalajara</b>	<b>Cananea</b>	<b>YUCATAN</b>
<b>XEAA</b> 750	<b>Torreón</b>	<b>XED</b> 1160	<b>XEFQ</b> 1010	<b>Merida</b>
<b>XEAO</b> 660	<b>XEDE</b> 1490	<b>XEHK</b> 1230	<b>Guaymas</b>	<b>XEFC</b> 1340
<b>XECL</b> 1110	<b>XEFB</b> 1310	<b>XELW</b> 1340	<b>XEDB</b> 1490	<b>XEME</b> 1240
<b>Tijuana</b>	<b>Villa Ahona</b>	<b>Guzman</b>	<b>HERMOSELLO</b>	<b>XEZ</b> 680
<b>XEAC</b> 980	<b>XEDA</b> 1220	<b>XEBA</b> 1080	<b>XERH</b> 930	<b>St. Pierre</b>
<b>XEAD</b> 1310	<b>XEDP</b> 1080	<b>MEXICO</b>	<b>Navjoia</b>	<b>FQN</b> 600
<b>XEBG</b> 820	<b>XEPO</b> 840	<b>Texcoco</b>	<b>XEAJ</b> 1400	<b>NEWFOUNDLAND</b>
<b>XEC</b> 1150	<b>XEPF</b> 1180	<b>XEXE</b> 1270	<b>XEDL</b> 1240	<b>St. John's</b>
<b>XELO</b> 670	<b>KEK</b> 990	<b>XEUA</b>	<b>NEOLES</b>	<b>VOAC</b> 1065
<b>XEMO</b> 860	<b>XEKR</b> 1280	<b>XECH</b> 1490	<b>Obregon</b>	<b>VOAR</b> 950
<b>XERB</b> 1090	<b>XEL</b> 1150	<b>MICHOACAN</b>	<b>XEAP</b> 1340	<b>VOCM</b> 1040
<b>CAMPECHE</b>	<b>XELZ</b> 1370	<b>Morelia</b>	<b>TAMAULIPAS</b>	<b>VOGY</b> 840
<b>Campeche</b>	<b>XEN</b> 780	<b>XEBC</b> 1240	<b>Matamoros</b>	<b>VONF</b> 640
<b>XEA</b> 1400	<b>XEQ</b> 780	<b>XEI</b> 1370	<b>XRAM</b> 750	<b>VOVE</b> 700
<b>CHIHUAHUA</b>	<b>XEQK</b> 1500	<b>NUEVO LEON</b>	<b>Nuevo Laredo</b>	<b>PANAMA</b>
<b>Chihuahua</b>	<b>XERC</b> 830	<b>Monterrey</b>	<b>XEBK</b> 1080	<b>Colon</b>
<b>XEBU</b> 1240		<b>XEFB</b> 870	<b>XEDF</b> 810	<b>HOK</b> 440
		<b>XEG</b> 1230	<b>XEFB</b> 980	<b>MIQUELON</b>
		<b>XEH</b> 740	<b>XENT</b> 910	
		<b>XET</b> 690	<b>Reynosa</b>	
		<b>XEX</b> 1210	<b>XBAW</b> 900	

KSAL in Salina, Kansas was heard testing on 1120 kcs. on March 19th at 3:45 A. M. They were running 1000 watts eith on a non directional aerial. They announced that they would soon begin broadcasting on 1120. They put in an R8 signal. (S. Tellis, Philadelphia, Penna. R1271).

KPAC Port Arthur Texas, is now using their new frequency of 1220 kcs. . . . KGLO is trying to get 120 kcs. and KWLC has protested. So it is in FCC courts now. . . . KGCA is permanently deleted. They failed to send a representative to Washington conference last summer. KWLC's new tower is not in use. If KWLC gets to keep 1070 kcs. they plan to ask for an increase of power. They

verify by card signed by Arlo Weelery, operator. . . . KMYR Denver, Colo. is a new station under construction on 1310 kcs. . . . KFJZ 1240 kcs., Fort Worth are a 24 hour station, as is also WMMN Fairmont, W. Va. who have been on all night for past 5 weeks. . . . KFV Cape Girardeon, Mo. heard testing on 1370 kcs. (new Frequency) January 26, 1940 from 1210 kcs. (Merlin teen, Decorah, Iowa, and Dick Douglas, t. Joseph, Mo.)

WELI on 930 kcs. signs off at 12:07 a.m. . . . WHKY, the new Hickory, N. C. station will be on the air by May 15. WDBJ has applied for 5000 watts at night. (Harold Tear, R924, Roanoke, Va.)

**NORTH AMERICAN B. C. STATION BY CALL LETTERS**

*For power and network affiliations, see the list of stations by frequencies.*

The space under the call letters may be used for logging or checking.

CBA 1050	CHGB 1200	CKCL 580	CMBL 750	CMHJ 1160	CMBG 1140
CBF 910	CHGS 1450	CKCO 1010	CMBQ 910	CMHK 1210	CMBH 1600
CBJ 1120	CHLN 1420	CKCR 1510	CMB5 1170	CMHM 1450	CMKW 1030
CBK 540	CHLP 1120	CKCV 1310	CMBX 1080	CMHO 1020	CMKX 1190
CBL 840	CHLT 1210	CKCW 1370	CMBY 1440	CMHP 1100	CMKY 960
CBM 960	CHML 1010	CKFC 1410	CMBZ 940	CMHT 920	CMKZ 1430
CBO 880	CHNC 610	CKGB 1440	CMC 1530	CMHW 680	CMOA 660
CBR 1100	CHNS 930	CKIC 1010	CMCA 1350	CMHX 1480	CMOX 1500
CBV 950	CHRC 580	CKLN 1420	CMCB 1230	CMJA 860	CMQ 780
CBY 1420	CHSJ 1120	CKLW 1030	CMCD 630	CMJC 1390	CMW 550
CFAC 930	CHWK 780	CKMC 1210	CMCF 810	CMJE 1230	CMX 880
CFAR 1370	CJAT 910	CKMO 1410	CMCG 1290	CMJF 930	CMZ 920
CFCF 600	CJBR 1030	CKNB 1210	CMCJ 1110	CMJH 1360	CM9RT 1580
CFCH 930	CJCA 730	CKNX 1200	CMCH 1050	CMJI 1130	FQN 609
CFCN 1030	CJCB 1240	CKOC 1120	CMCK 970	CMJK 1020	HIG 900
CFCO 630	CJCJ 690	CKOV 630	CMCL 730	CMJO 1260	HIN 1090
CFCT 1450	CJCS 1210	CKPC 930	CMCM 850	CMJP 1420	HIT 1050
CFCY 630	CJGX 1430	CKPR 500	CMCO 1200	CMJW 1070	HIX 800
CFGP 1200	CJIC 1500	CKRN 1370	CMCQ 1410	CMJX 660	HIZ 1370
CFJC 880	CJKL 1310	CKSO 780	CMCR 1320	CMK 720	H18Q 1470
CFLC 930	CJLS 1310	CKTB 1200	CMCU 1010	CMKC 1250	HOK 640
CFNB 550	CJOC 1210	CKUA 580	CMCW 1380	CMKD 910	HRN 1450
CFOS 1370	CJOR 600	CKVB 1200	CMCX 1470	CMKE 1310	KABC 1420
CFPL 730	CJRC 630	CKWX 1010	CMCY 590	CMKF 1460	KABR 1390
CFPR 580	CJRM 950	CKX 1120	CMGE 1370	CMKG 1000	KADA 1200
CFQC 600	CKAC 730	CRY 910	CMGF 1120	CMKL 950	KALB 1210
CFRB 690	CKBI 1210	CMAB 1240	CMGH 710	CMKM 1080	KALE 1300
CFRC 1510	CKCA 1420	CMAR 1400	CMHA 1090	CMKO 1280	KANS 1210
CFRN 960	CKCD 1010	CMBC 690	CMHB 1240	CMKQ 1490	KARK 890
CHAB 1200	CKCH 1210	CMBD 1260	CMHD 1270	CMKR 1400	KARM 1310
CHCK 1310	CKCK 1010	CMBF 1560	CMHI 830	CMKS 710	KASA 1210

KAST 1200	KFAM 1420	KFVD 1000	KGKO 570	KJR 970	KOIL 1260
KATE 1420	KFAR 610	KFVS 1370	KGKY 1500	KLAAH 1210	KOIN 940
KAWM 1500	KFBB 1280	KFWB 950	KGLO 1210	KLBM 1420	KOKO 1370
KBIX 1500	KFBI 1050	KFXD 1200	KGLU 1420	KLCN 1290	KOL 1270
KBKR 1500	KFBK 1490	KFXJ 1200	KGMB 1320	KLO 1400	KOMA 1480
KBND 1310	KFDA 1500	KFXM 1210	KGNC 1410	KLPM 1360	KOME 1310
KBPS 1420	KFDM 560	KFYO 1310	KGNF 1430	KLRA 1390	KOMO 920
KBST 1500	KFDY 780	KFYR 550	KGNO 1340	KLS 1280	KONO 1370
KBTM 1200	KFEL 920	KGA 1470	KGO 790	KLUF 1370	KOOS 1200
KCKN 1310	KFEQ 680	KGB 1330	KGU 750	KLX 880	KORE 1420
KCMC 1420	KFGQ 1370	KGBU 900	KGVO 1260	KLZ 560	KORN 1370
KCMO 1450	KFH 1300	KGBX 1230	KGW 620	KMA 930	KOTN 1500
KCRC 1360	KFI 640	KGCA 1270	KGY 1210	KMAC 1370	KOVC 1500
KCRJ 1310	KFIO 1120	KGCU 1240	KHAS 1200	KMBC 950	KOVO 1210
KDAL 1500	KFIZ 1420	KGCX 1450	KHBC 1200	KMED 1410	KOWH 660
KDB 1500	KFJB 1200	KGDE 1200	KHBG 1210	KMJ 580	KOY 1390
KDFN 1440	KFJI 1210	KGDM 1100	KHJ 900	KMLB 1200	KPAB 1500
KDKA 980	KFJM 1410	KGEK 1200	KHQ 590	KMMJ 740	KPAC 1220
KDLR 1210	KFJZ 1240	KGER 1360	KHSL 1260	KMO 1330	KPDN 1310
KDNT 1420	KFKA 880	KGEZ 1310	KHUB 1310	KMOX 1090	KPFA 1210
KDON 1210	KFKU 1220	KGFF 1420	KICA 1370	KMPC 710	KPFT 1210
KDRO 1500	KFNF 890	KGFI 1500	KID 1320	KMTR 570	KPLC 1500
KDTH 1340	KFOR 1210	KGFI 1500	KIDO 1350	KMYR 1310	KPLT 1500
KDYL 1290	KFOX 1250	KGFL 1370	KIDW 1420	KNEL 1500	KPMC 1550
KECA 780	KFPL 1310	KGFW 1310	KIEM 1450	KNOW 1500	KPO 680
KEEN 1370	KFPW 1210	KGFX 630	KIEV 850	KNX 1050	KPOF 880
KELA 1440	KFPY 890	KGGF 1010	KINY 1490	KOA 830	KPPC 1210
KELD 1370	KFQD 780	KGGM 1230	KIRO 710	KOAC 550	KPQ 1500
KELO 1200	KFRC 610	KGHF 1320	KIT 1250	KOAM 790	KPRC 920
KERN 1370	KFRO 1370	KGHI 1200	KITE 1530	KOB 1180	KQV 1380
KEUB 1420	KFRU 630	KGHL 780	KIUL 1210	KOBH 1370	KQW 1010
KEX 1160	KFSD 600	KGIR 1340	KIUN 1370	KOCA 1210	KRBC 1420
KFAB 770	KFSG 1120	KGIW 1420	KIUP 1370	KOCY 1310	KRBM 1420
KFAC 1300	KFUO 550	KGKL 1370	KJBS 1070	KOH 1380	KRE 1370

KRGV 1260	KTBS 1450	KVOL 1310	KXRO 1310	VOGY 840	WBAL 1060
KRIC 1420	KTEM 1370	KVOO 1140	KXYZ 1440	VOAC 1065	WBAP 808
KRIS 1330	KTFI 1240	KVOR 1270	KYA 1230	VOAR 950	WBAX 1210
KRKD 1120	KTHS 1060	KVOS 1200	KYCA 1500	VOWR 700	WBBC 1400
KRKO 1370	KTKC 890	KVOX 1310	KYOS 1040	WAAB 1410	WBBL 1210
KRLC 1390	KTMS 1220	KVRS 1370	KYSM 1500	WAAF 920	WBBM 770
KRLD 1040	KTOH 1500	KVSF 1310	KYUM 1210	WAAT 940	WBBR 1300
KRLH 1428	KTOK 1370	KVSO 1210	KYW 1020	WABC 860	WBBZ 1200
KRMC 1370	KTRB 740	KVWC 1500	TGQ 1450	WABI 1200	WBCM 1410
KRMD 1310	KTRH 1290	KWAL 1420	TGW 1520	WABY 1370	WBEN 900
KRNR 1500	KTRI 1420	KWAT 1210	TGX 1400	WACO 1420	WBHP 1200
KRNT 1320	KTSA 550	KWBD 1200	TGI 1310	WADC 1320	WBIG 1440
KROC 1310	KTSM 1310	KWBG 1420	TIAFB 900	WAGA 1450	WBIL 1100
KROD 1500	KTSW 1370	KWEW 1500	TIEMC 860	WAGF 1370	WBLK 1370
KROW 930	KTUC 1370	KWEC 1310	TIEP 830	WAGM 1420	WBNS 1430
KROY 1210	KTUL 1400	KWFT 620	TIFA 1000	WAIM 1200	WBNX 1350
KRRV 1310	KTW 1220	KWG 1200	TIGH 690	WAIR 1250	WBNY 1370
KRSC 1120	KUIN 1310	KWJB 1210	TIGPH 605	WALA 1380	WBOQ 860
KSAC 580	KUJ 1370	KWJJ 1040	TIGPH2 1225	WAML 1310	WBOV 1200
KSAL 1500	KUOA 1260	KWK 1350	TIHO 1030	WAOV 1420	WBRB 1210
KSAN 1420	KUSD 890	KWKH 1100	TILJ 775	WAPI 1140	WBRC 930
KSCJ 1338	KUTA 1500	KWLC 1270	TILS 880	WAPO 1420	WBRE 1310
KSD 550	KVAK 1420	KWLK 780	TINBC 1070	WARD 1400	WBRK 1310
KSEI 900	KVAN 880	KWNO 1200	TING 750	WASH 1270	WBRY 1530
KSFO 560	KVCV 1200	KWOC 1310	TIOS 940	WATL 1370	WBT 1080
KSL 1130	KVEC 1200	KWOS 1310	TIPG 625	WATR 1290	WBTH 1370
KSLM 1360	KVFD 1370	KWSC 1220	TIRCC 1200	WATW 1370	WBTM 1370
KSO 1430	KVGB 1370	KWTO 560	TIRS 920	WAVE 940	WBZ 990
KSOO 1110	KVI 570	KWYO 1370	TIXD 800	WAWZ 1350	WBZA 990
KSRO 1310	KVIC 1310	KXA 760	TI4NRH 725	WAYX 1200	WCAD 1220
KSTP 1460	KVNU 1200	KXL 1420	TI5CV 575	WAZL 1420	WCAE 1220
KSUB 1310	KVOA 1260	KXO 1500	VAS 685	WBAA 890	WCAL 760
KSUN 1200	KVOD 630	KXOK 1250	VOCM 1040	WBAB 1200	WCAM 1280
KTAR 620	KVOE 1500	KXOX 1210	VONF 640	WBAL 760	WCAO 600

WCAP 1280	WDAH 1310	WESG 850	WGBI 880	WHBY 1200	WIL 1200
WCAR 1100	WDAN 1500	WEST 1200	WGBR 1370	WHDF 1370	WILL 580
WCAT 1200	WDAS 1370	WESX 1200	WGCM 1210	WHDH 830	WILM 1420
WCAU 1170	WDAY 940	WEVD 1310	WGES 1360	WHDL 1400	WIND 560
WCAX 1200	WDBJ 930	WEW 760	WGH 1310	WHEB 740	WING 1380
WCAZ 1070	WDBO 580	WEXL 1310	WGIL 1500	WHEC 1430	WINN 1210
WCBA 1440	WDEL 1120	WFAA 800	WGKV 1500	WHFC 1420	WINS 1180
WCBD 1080	WDEV 550	WFAM 1200	WGL 1370	WHIO 1260	WIOD 610
WCBM 1370	WDGY 1180	WFAS 1210	WGN 720	WHIP 1480	WIP 610
WCBS 1420	WDLP 1200	WFBC 1300	WGNC 1420	WHIS 1410	WIRE 1400
WCCO 810	WDMJ 1310	WFBG 1310	WGNY 1220	WHIZ 1210	WIS 560
WCFL 970	WDNC 1500	WFBL 1360	WGPC 1420	WHJB 620	WISE 1370
WCHS 580	WDOD 1280	WFBM 1230	WGR 550	WHK 1390	WISN 1120
WCHV 1420	WDRC 1330	WFBR 1270	WGRC 1370	WHKC 640	WJAC 1370
WCKY 1490	WDSM 1200	WFDF 1310	WGRM 1210	WHKY 1370	WJAG 1060
WCLE 610	WDSU 1250	WFEA 1340	WGST 890	WHLB 1370	WJAR 890
WCLO 1200	WDWS 1370	WFIG 1310	WGTC 1500	WHLD 1260	WJAS 1290
WCLS 1310	WDZ 1020	WFIL 560	WGTM 1310	WHLS 1370	WJAX 900
WCMI 1310	WEAF 660	WFLA 620	WGY 790	WHMA 1420	WJBC 1200
WCNC 1370	WEAN 780	WFMD 900	WHA 940	WHN 1010	WJBK 1500
WCNW 1500	WEAU 1050	WFMJ 1420	WHAL 950	WHO 1000	WJBO 1120
WCOA 1340	WEBC 1290	WFNC 1340	WHAI 1210	WHOM 1450	WJBY 1210
WCOC 880	WEBQ 1210	WFOR 1370	WHAM 1150	WHOP 1200	WJBW 1200
WCOL 1210	WEBR 1310	WFOY 1210	WHAS 820	WHP 1480	WJDX 1270
WCOP 1120	WEDC 1210	WFTC 1200	WHAT 1310	WHUB 1370	WJEJ 1210
WCOS 1370	WEED 1420	WFTL 1370	WHAZ 1300	WIBA 1280	WJHL 1200
WCOU 1210	WEEL 590	WFTM 1210	WHB 860	WIBC 1050	WJHP 1290
WCOV 1210	WEEU 830	WFVA 1260	WHBB 1500	WIBG 970	WJIM 1210
WCPO 1200	WELI 930	WGAL 1500	WHBC 1200	WIBM 1370	WTIC 1040
WCRW 1210	WELL 1420	WGAN 640	WHBF 1240	WIBU 1210	WTJS 1310
WCSC 1360	WEMP 1310	WGAR 1450	WHBI 1250	WIBW 580	WTMA 1210
WCSH 940	WENR 870	WGAU 1310	WHBL 1300	WIBX 1200	WTMC 1500
WDAE 1220	WENY 1200	WGBB 1210	WHBQ 1370	WICA 940	WTMJ 620
WDAF 610	WEOA 1370	WGBF 630	WHBU 1210	WICC 600	WTMV 1500

WJJD 1130	WLAW 680	WMFD 1370	W/OI 640	WQDM 1390	WSJS 1310
WJLS 1210	WLB 760	WMFF 1310	WOKO 1430	WQXR 1550	WSKB 1200
WJMC 1210	WLBC 1310	WMFG 1210	WOL 1230	WRAK 1370	WSLB 1370
WJMS 1420	WLBJ 1310	WMFJ 1420	WOLF 1500	WRAL 1210	WSLI 1420
WJNO 1200	WLBL 900	WMFR 1200	WOLS 1200	WRAP 1310	WSM 650
WJPF 1310	WLBZ 620	WMGA 1370	WOMI 1500	WRBL 1200	WSMB 1320
WJPR 1310	WLEU 1420	WMIN 1370	WOMT 1210	WRC 950	WSNJ 1210
WJR 750	WLLH 1370	WMJM 1500	WOCB 1210	WRDO 1370	WSOC 1210
WJRD 1200	WLLH 1370	WMMN 890	WOPI 1500	WRDW 1500	WSOO 1200
WJSV 1460	WLNH 1310	WMOB 1200	WOR 710	WREC 600	WSOY 1310
WJTN 1210	WLOK 1210	WMOG 1500	WORC 1280	WREN 1220	WSPA 920
WJW 1210	WLPM 1420	WMPC 1200	WORD 1370	WRGA 1500	WSPB 1420
WJZ 760	WLS 870	WMP3 1430	WORK 1320	WRJN 1370	WSPD 1340
WKAQ 1240	WLTH 1400	WMRO 1250	WORL 920	WRNL 880	WSPR 1140
WKAR 850	WLVA 1200	WMSD 1420	WOSU 570	WROK 1410	WSTP 1500
WKAT 1500	WLW 700	WMSL 1370	WOV 1130	WRR 1280	WSUI 880
WKBB 1500	WMAL 630	WMT 600	WOW 590	WRTD 1500	WSUN 620
WKBH 1380	WMAM 570	WNAC 1230	WOWO 1160	WRUF 830	WSVA 550
WKBN 570	WMAN 1370	WNAD 1010	WPAB 1340	WRVA 1110	WSVS 1370
WKBO 1200	WMAQ 670	WNAX 570	WPAD 1420	WSAI 1330	WSYB 1500
WKBY 1500	WMAS 1420	WNBC 1380	WPAR 1420	WSAJ 1310	WSYR 570
WKBW 1480	WMAZ 1100	WNBF 1500	WPAX 1210	WSAM 1200	WSYU 570
WKBZ 1500	WMBC 1420	WNBH 1310	WPAY 1370	WSAN 1440	WTAD 900
WKEU 1500	WMBD 1440	WNBX 1260	WPEN 920	WSAR 1450	WTAG 580
WKIP 1420	WMBF 610	WNBZ 1290	WPG 1100	WSAU 1370	WTAL 1310
WKNY 1500	WMBG 1350	WNEL 1290	WPIC 780	WSAV 1310	WTAM 1070
WKOK 1210	WMBH 1420	WNEW 1250	WPID 1210	WSAY 1210	WTAQ 1330
WKRC 550	WMBI 1080	WNLC 1500	WPRA 1370	WSAZ 1190	WTAR 780
WKST 1250	WMBO 1310	WNOE 1420	WPRO 630	WSB 740	WTAW 1120
WKY 900	WMBR 1370	WNOX 1010	WPRP 1420	WSBC 1210	WTAX 1210
WKZO 590	WMBS 1420	WNYC 810	WPTF 680	WSBT 1360	WTBO 800
WLAC 1470	WMC 780	WOAI 1190	WQAM 560	WSFA 1410	WTCN 1250
WLAK 1310	WMCA 570	WOC 1370	WQAN 880	WSGN 1310	WTEL 1310
WLAP 1420	WMEX 1500	WOCB 1210	WQBC 1360	WSIX 1210	WTHT 1200

WTNJ 1280	XEAF 990	XEBO 1310	XEDR 1490	KEK 990	XERB 1090
WTOC 1260	XEAG 1310	XEBP 1150	XEDS 1400	XEKL 1240	XERC 830
WTOL 1200	XEAI 1250	XEBS 1340	XEDW 1150	XEKR 1280	XERH 1430
WTRC 1310	XEAJ 1400	XEBU 1240	XEE 1210	KEKS 1240	XES 990
WTRY 950	XEAM 750	XEBW 1340	XEF 1450	XEL 1150	XESM 1270
WTSP 1370	XEAO 660	XEBX 640	XEFB 870	XELO 670	XET 690
WVFW 1400	XEAP 1340	XEBZ 810	XEFC 1340	XELW 1340	XETB 1310
WWAE 1200	XEAS 1160	XEC 1150	XEFE 980	XELZ 1370	XETH 1210
WWJ 920	XEAT 1210	XECA 1230	XEFI 1440	XEM 1390	XEU 1010
WWL 850	XEAU 1310	XECH 1490	XEFM 1160	XEME 1240	XEW 890
WWNC 570	XEAW 960	XECL 1110	XEFO 940	XEMO 860	XEWE 720
WWRL 1500	XEB 1030	XECW 1240	XEFQ 1010	XEMU 580	XEX 1310
WWSW 1500	XEBA 1080	XECZ 1370	XEFV 1210	XEMX 1280	XEXB 1270
WWVA 1160	XEBC 1240	XED 1160	XEFW 1310	XEN 780	XEXE 1270
WXYZ 1240	XEBG 820	XEDA 1220	XEG 1230	XENT 910	XEXH 1150
W8XO 700	XEBH 980	XEDE 1400	XEH 740	XEP 1160	XEXX 1170
XEA 1400	XEBI 1000	XEDF 810	XEHK 1230	XEPN 730	XEZ 650
XEAA 750	XEBJ 1340	XEDH 1340	XEI 1370	XEQ 730	YSS 640
XEAC 980	XEBK 1080	XEDL 1240	XEJ 1020	XEQK 1500	ZNS 790
XEAD 1240	XEBL 1220	XEDP 1080	XEJP 1180	XERA 840	

(Continued from Page 38)

kcs.; VUC-1, Calcutta on 810 kcs.,  
VUM-1, Madras on 1420 kcs. (An-  
ton Jansen, Boskoop, Netherlands)

#### Supremacy Contestants

RT—Anthony C. Tarr, Seattle Wash.  
R42—Robert Botzum, Reading,  
Penna.  
R101—Weston Richards, Zion, Ill.  
R133—Carl Forestieri, Bronx, N. Y.  
R168—Joseph T. Lippincott, E. Vas-  
salboro, Me.  
R695—Frank B. Lee, Wildwood,  
N. J.  
R701—William France, Bridgeport,  
Ohio  
R946—Bertram Podall, Gilman, Ver-  
mont

R964—Victor J. Balt, Aurora, Ill.  
R1117—Roger Causse, Lester, Penna.  
R1122—Richard Daneker, Lansdale,  
Penna.  
R1305—Carl Horton, Athol, Mass.  
R1620—John C. Barnhart, Sunbury,  
Penna.  
R1630—Mrs. L. E. Grannes, Eureka,  
Calif.  
R1631—Thurston Lee, Fort Benning,  
Ga.  
R1632—Clarence Burnham, Glouces-  
ter, Mass.  
R1633—Warren Reichardt, Reading,  
Mass.  
R1643—Jim Walker, Cass, W. Va.  
—Joseph Becker, Sr., Hamil-  
ton, Ohio  
Herbert Diedrich, Moline, Ill.



## Broadcast Notes

WKAT's hard to get veri has been received and they complimented me on my type of report. Anyone who can't get a WKAT veri should send a more complete report. (Clarence Burnham, Gloucester, Mass.)

WFAM schedule is daily 8 a.m. to 1 p.m. and 4:30-9 p.m., Sunday 9 a.m. to 5 p.m. . . . WSBT operates from 1 p.m. to 4:30 p.m., and 9 pm to 1 a.m. daily and on Sunday from 6 p.m. to midnight. (Roger Mais, R572, Mishawaka, Ind.)

Canada: CKGB Timmons Ont. now using 1000 watts, heard testing with very strong signal R9 plus from 3:30 P.M. EST. till 3:45 A.M. EST. (Merlin Steen, Decorah, Iowa and Allen G. Verrill, Brockton, Mass. R968)

CKNB 200 watts 1210 watts 1210 kcs. P. O. Drawer 840, is a new station in Campbellton, N. B. Canada. CJKL Kirkland Lake, Ont. now using 1000 watt on 560 kcs. (Merlin Steen, Decorah, Iowa)

CBA off 11:45 P.M. EST. (Henry Bennett Collingswood, N. J. R1342)

### Latin America

Argentina: LRA has been heard testing every morning from 2-3 a.m. with an excellent signal for the past three weeks. (Allan G. Verrill, R968, Brockton, Mass.)

LS-11 seems to be on late every Saturday night on 1310 kcs. I have picked him up R8 the last three Saturday nights. . . LT-3 on 1080 kcs. is pushing WBT hard at times. (Clarence Burnham, Gloucester, Mass.)

LS-11 is my first and only S.A. veri, but to save me I cannot get any of the easier ones. Any suggestions? (Elwood B. Cole, Silver Springs Md.)

Brazil: PRG-9 on 1100 kcs. has broken through WOV several times. . . . PRD-2 on 1060 kcs. is using 10 kw. and not 5 kw. . . PRG-3 on 1280 kcs. is using only 10800 watts, not

25000 . . . PRH-8 seems to be the call of the Brazilian on 1130 kcs. He uses chimes similar to NBC and sings off at 9 p.m., with 10:30 sing off Wednesday and a midnight sign off on Saturday. They are in Rio de Janeiro, but call is announced so rapidly that I cannot make it out clearly. (Clarence Burnham, R1632 Gloucester,

Colombia: HJ1ABN's new call is Mass.)

HJAN . . . HJBJ on 1140 kcs. in Santa Marta is being heard here . . . A Bogota station on 1105 kcs. cannot be identified. (1105 station is HJCB-Bogota with 2 kw.-RL) (Clarence Burnham, R1632, Gloucester, Mass.)

HJAN on 1190 kcs. in Barranquilla, Colombia is my first S. A. station. They were still on at 2:51 a.m. Slogan is "La Voz de Victor." (James O.

Costa Rica: TIEMC was heard on Weaver, Elkhart, Ind.)

850 kcs. one morning just after 5 a.m. beneath WWL. (James O. Weaver, Elkhart, Ind.)

Cuba: CMQ heard by many DXers on 690 kcs. and has a very strong signal throughout the U.S.A. (W. A. Dobbuis, R672, Columbia, Tenn. Jack Hathaway, R771, Danville, Ill.; and C. R. Bendes, Pittsburgh Pa.)

Mexico. It was announced over XE-RA on January 30, 1940 that XERA would move to 960 kcs. and XEAW would move to 970 kcs. on February 8th. XERA is using 500 kw. power according to their QSL. (W. A. Dobbuis, R672, Columbia, Tenn. Route 1, Stanwood Mors, R1409, Bradford, Mass. Route 3, Henry Bennett, R1342, Collingswood, N. J. Kenneth Brown, R849, Hyde Park, Mass. A. G. Schleiter, Rochester, Pa. and H. L. Bart-rane, R975 Crystal Lake, Ill.)

CFCO Dx period from 10 to 10:30 A. M. Sundays. (Carl E. Sylvester Columbiaville, Mich. R36 Mich. 1)

CBK heard tonight late with fairly good signals on 540 kcs. (Jack Hathaway Danville, Ill. R771 and James O. Weaver, Elkhart, Ind.)

### Selected Back Numbers

The Oceania Broadcasting Stations, Sept. '38.

Tuning South Pacific Stations, Tuning South Americans, and a list of South American Broadcasting Stations, Oct. '38.

Dialing the Europeans, Nov. '38.

Dialing the Asiatics, Dec. '38.

This Hobby Called DXing, the International Prefixes, the QSA and R Codes, Jan. '39.

Stations of France and Norway, March '39.

Stations of New Zealand, April '39.

Television is Here, list of Television Stations, the stations of Colombia, China and Venezuela, Midsummer '39.

Stations of Costa Rica and Venezuela, Sept. '39.

The World's Broadcasting Stations, Sept. '39.

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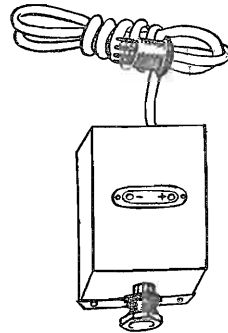
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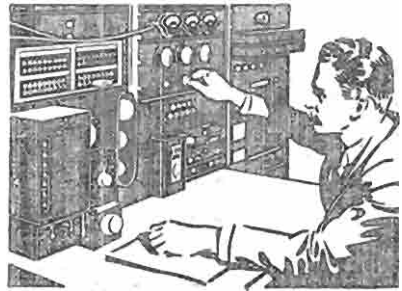
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