

THE NOVEMBER 1937

25^c

RADIO INDEX

The All-wave Radio Log



What's On The Air Tonight
Scanning the Amateur Bands
Verification Insurance
When to Get the Day's News

No. 113

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Prices on single-unit or special 'phones on request.

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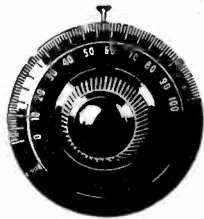
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NOVEMBER 1, 1937



RADIO IN INDEX



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NUMBER 113

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The MONTH'S CHANGES in STATION DATA

	NEW		1410	KMED	Medford, Ore., new NBC
.....	CBL	Toronto, Ont.	1450	WGAR	Cleveland, Ohio, CBS from MBS and Blue
580	XEMU	Piedras Negras, Coah.	1500	KDAL	Duluth, Minn., new CBS
780	.....	Longview, Wash.			OWNER
870	XEJW	Mexico City, D. F.	620	WFLA	Clearwater, Fla., Fla. West Coast
910	CBF	Montreal, P. Q.			Brdestg Co., Inc.
1200	.....	Coeur d'Alene, Idaho	1310	KVOX	Moorhead, Minn. KVOX Brdestg. Co.
1210	CHLT	Sherbrooke, P. Q.			CONSTRUCTION PERMIT TO CHANGE FREQUENCY
1280	XEBO	Trapunto, Guan.	1190	WATR	Waterbury, Conn., to 1290
1370	.....	Rock Springs, Wyo.	1300	WIOD	Miami, Fla., to 610
			1310	KIT	Yakima, Wash., to 1250
				WOL	Washington, D. C., to 1250
					CONSTRUCTION PERMIT TO CHANGE POWER
			810	CMCF	Havana, Cuba, to 5000
			880	CMQ	Havana, Cuba, to 25000
			900	WCOE	Meridian, Miss., to 1000
			950	WRC	Washington, D. C., to 1000
			1190	WATR	Waterbury, Conn., to 250
			1200	WJRD	Tuscaloosa, Ala., to 250
			1310	KCRJ	Jerome, Ariz., to 250
				KIT	Yakima, Wash., to 250
				WOL	Washington, D. C., to 1000
			1340	WCOA	Pensacola, Fla., to 1000
			1440	WMBD	Peoria, Ill., to 1000
			1490	KFBK	Sacramento, Calif., to 10000
					CONSTRUCTION PERMIT TO CHANGE LOCATION
			560	KSFO	San Francisco, Calif., to Oakland
			570	KGKO	Wichita Falls, Tex., to Ft. Worth
			1500	KGFI	Corpus Christi, Tex., to Brownsville

Lowell Thomas' wizardry with words has paid him handsome dividends for years as an author, lecturer and broadcaster. Perhaps the greatest demonstration of his gift of gab was several years ago when the NBC commentator had \$15 in cash and needed \$15,000 to buy that Dutchess County (N. Y.) estate, which is now his pride and joy. With a portfolio of synopses Mr. Thomas made the rounds of the publishers, his sales talks conjuring into being almost overnight the required amount in advance royalties on unwritten books.

Agnes Moorehead, actress heard on many NBC programs, made her professional debut in the chorus of the Municipal Opera Company, St. Louis. Her radio career was begun in the same city, also as a singer.

Miss Moorehead became a radio actress through a misunderstanding. After successfully passing an audition as a vocalist, she was summoned to a New York studio and handed a part in a dramatic script; the director was busy and she didn't bother to explain she was a singer but went ahead and read the lines. She's been an actress ever since.

NBC Hollywood studio pick-ups: Gracie Allen is taking swimming lessons from the same instructor who teaches her children. . . Lum and Abner are in high favor with Arkansas friends and neighbors visiting California. They devote a lot of time showing them the sights. . . . Amos 'n' Andy are now installed in the Beverly Hills office once occupied by the late Will Rogers.

SCANNING the Amateur Bands

• • • By B. L. AHMAN, JR.

SO FAR this season DX on 20 meters has not been anything to boast about. For some reason we cannot explain the season seems to be opening up unusually late. The only bright spot we have noticed is the fact that Europeans are being heard regularly, according to information we have from listeners in Northern New Jersey, New York and New England. New stations are scarce.

The month of October should herald the beginning of good DX from Asia and Africa. As an added feature, we are showing a list this month which includes all the better DX catches, showing their frequencies and the times at which they should be heard. The time on the air in this list is, of course, purely tentative, inasmuch as it is only a guess, based on reception of these stations at about this same time last year.

The list is compiled from data supplied by Don Martinez, John Fisk, Carroll Weyrich and Ray Smith of W3FAM. Credit the idea to Don Martinez, however, as it was he who suggested that this column tell its readers when and where to look for foreign hams. It should be noted that the policies of these stations concerning QSL cards are not definitely known, but most of them have sent cards at some time or another.

K6NZQ was worked recently and quite a lengthy QSO was completed, during which we learned that his new QRA is Police Department, Hilo, Hawaii. His name is William Seymour.

50 Good Amateurs

The time shown in this compilation is Eastern Standard. The time

zones shown (E for Eastern, C for Central, and P for Pacific) indicate that the station has been reported by a listener living in that zone.

Morning

The Cuban stations can be heard at any time of day, in any part of the country. Two of the most frequently heard are CO6OM on 14220 kcs and CO7CX on 14060 kcs.

Asiatics and Javanese are heard between 3 and 7:30 or 8 am. The



Eddie Cantor and his radio protegee, Deanna Durbin, who has risen to cinema heights in the past year. Eddie, with Deanna, Saymore Saymore, Jimmy Wallington and Jacques Renard, are now heard on Wednesdays over the CBS.

following stations can be heard between these hours:

- 14040 kcs, PK1MO, Java. (ECP.)
14050 kcs, PK1RR, Java. (P.)
14075 kcs, J2MI, Japan. (EP.)
14080 kcs, PK6CI, E. R. Illing, Ambon, N. E. I. (P.)
14090 kcs, PK1MX, Java. (ECP.)
14100 kcs, PK6AJ, Java. (P.)
14260 kcs, J2KJ, Japan. (P.)
14280 kcs, PK1ZZ, Java. (P.)
14374 kcs, PK4VR, H. H. Vrouwes, B. P. M., Pladjoe, N. E. I. (P.)
The Australians are best received between 6:30 and 8 am. Following is a representative list.
14000 kcs, VK3KR, K. R. Rankin, Boundary St., Kerang, Vic. (EP.)
14050 kcs, VK2AP, A. P. Reynolds, 37 Orange Road, Parkes, N. S. W. (ECP.)
14050 kcs, VK2AX, H. Kerr, 86 Darling Pt. Road, Darling Point, NSW. (ECP.)
14050 kcs, VK3HL, A. T. Hutchings, "Bryn Avon," Callawadda, Vic. (P.)
14090 kcs, VK2ABG, E. A. Moore, 92 Princess Highway, Arncliffe, NSW. (ECP.)
14100 kcs, VK2NY, R. J. Berry, 54 Bacon St., Grafton, NSW. (EP.)
14100 kcs, VK2UC, K. A. Maloney, 29 Hindmarsh Sq., Lismore, NSW. (EP.)
14110 kcs, VK2ABD, C. C. Galbraith, 43 Bulkara Road, Bellevue Hill, NSW. (ECP.)
14130 kcs, VK4JX, J. F. Heine, 267 Main St., Kangaroo Point, Qsld. (EP.)
14240 kcs, VK2HF, J. A. Furze, "Alkoomie," Edgecliffe Esplanade, Seaforth, NSW. (ECP.)
14300 kcs, VK2CP, O. E. Cooper, 2 Corona Flats, Glebe St., Randwick, NSW. (ECP.)
14300 kcs, VK2HS, E. M. Fanker, 11 Rosslyn St., Bellevue Hill, NSW. (ECP.)
14310 kcs, VK2RB, R. A. Brown, 174 Park Road, Auburn, NSW. (ECP.)

- The Philippine Island amateurs come through between 7 am and 1 pm and the Hawaiians can be heard from 9 am until noon, and in the evenings. The Philippine prefix is KA— and the Hawaiian, K6—.
- 14100 kcs, KA1BH, (P.)
14180 kcs, KA1AK, (P.)
14190 kcs, KA1NA, Lt. D. C. Redgrave, Naval Station, Olongapo, Zambales. (P.)
14240 kcs, K6NTZ, (ECP.)
14250 kcs, K6BNR, Emil Rettings, Schofield Barracks, Honolulu. (ECP.)
14280 kcs, KA1NE, James M. Kane, Los Banos, Laguna. (P.)
14300 kcs, K6KKP, (ECP.)
? K6CMC, Geo. Perdew, 637—8th Ave., Honolulu. (ECP.)

Afternoon and Evening

- European, West Indian and South American stations are heard during our afternoon and evening hours. A few of the most frequently heard stations, arranged in order of frequencies, are given below.
- 14060 kcs, OQ5AA, Dr. Westcott, Tondo, via Irebu, Belgian Congo. (E—3 pm to midn't.)
14070 kcs, G6JF, Gt. Britain. (EC—4 pm to midn't.)
14070 kcs, LU4BK, Julio Cesar Krause, Parcheco 2399, Buenos Aires, Ag. (EC—5 to 10 pm.)
14072 kcs, PY2ET, Brazil. (EC—5 to 10 pm.)
14080 kcs, F3NF, France. (EC—4 pm to midn't.)
14080 kcs, ON4VK, M. Koninckx, 47 Rue Juste-Lipse, Brussels, Belgium. (ECP—4 pm to midn't.)
14080 kcs, SV1SK, Greece. (EC—4 to 6 pm.)
14095 kcs, EA8AF, Canary Islands. (E—4 to 6 pm.)
14098 kcs, F8KW, Marcel Lagrue, 94 rue d l'Agriculture, Colombes (Seine) France. (EC—4 pm to midn't.)
14100 kcs, HI7G, Dominican Republic, (ECP—4 pm to midn't.)

- 14130 kcs, F3JB, France. (EC—4 pm to midn't.)
 14180 kcs, OA4R, Peru, (EP—4 pm to midn't.)
 14225 kcs, HA8N, Hungary, (ECP—3 to 11 pm.)
 14260 kcs, SV1RE, Greece, (EC—4 to 6 pm.)
 14290 kcs, F8FL, A. Dhiel, 93 rue de Marchal Oudinet, Nancy, France. (EC—4 pm to midn't.)
 14300 kcs, OA4AA, Peru, (EP—4 pm to midn't.)
 14380 kcs, SV1KE, C. Tavaniotis, 17a Bucharest St., Athens, Greece. (EC—4 to 6 pm.)

The addresses of all the amateur stations are given when known. Readers who can supply missing QRA's are requested to send them in for inclusion in future lists.

Amateur CALLS HEARD

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

Canadian and United States calls heard are listed here only when reported by listeners not resident in North America. Cuban calls are not listed when heard by listeners in United States or Cuba.

C-E

CE1AH (c); CE3AA (h); CN8AM (eh); CP1AA (h); CT1AY (f); CT1QG (h); CX2AK (b); EASAE (ce); EA9AH (acde); EI2L (g).

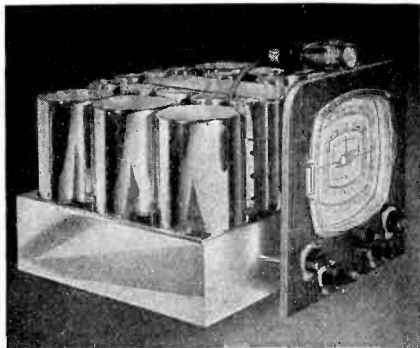
F

FASGT (e); F3-: CP (eh); GR (h); HM (h); HZ (h); JD (h); NF (h); OO (eh); F8-: GR (e); II (e); KI (h); DL (h); EO (h); KW (h); MG (h); PV (h); UE (h); XP (h); XT (f).

G

GI5GX (e); GM5TS (be); GM6RG (de); GW5KJ (de); G-: 2AV (h); 2BY (h); 2HQ (h); 2IP (h); 2MF (h); 2NM (h); 2NQ (h); 2PU (e); 2UL (h); 2XV (eh); 2XY (e); 2XZ (h); 5BJ (eh); 5BM (e); 5BS (i); 5DT (e); 5HP (d); 5JO (e); 5KH (h); 5KJ (e); 5LU (e); 5ML (aegh); 5NI (efhi); 5OT (h);

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Name

Address

City & State

50V (h); 5PB (h); 5PP (h); 5QC (h);
5SA (h); 5SP (h); 5SY (h); 5VD (h);
5VM (h); 6AG (e); 6DT (e); 6FS (f);
6GF (ei); 6HW (e); 6JF (i); 6LR (e);
6OS (ei); 6VK (ef); 6XG (h); 6XR (e);
8IK (e); 8LH (e); 8LP (e).

H-J

HASN (eh); HC1AE (k); HC1FG (af);
HC1JB (h); HC1JW (fgh); HH2B (f);
HH5PA (ab); HI5X (cehi); HIG0 (h);
HI7G (ehi); HI7I (eh); HK1ABM (h);
HK1DG (h); HK1GK (h); HK1JB (h);
HK1JN (h); HK1LE (e); HK1Z (ah);
HK3JA (h); HK3JE (i); HK3RC (h);
HK4AG (ehi); HK4AM (h); HK4EA (h);
HK4LE (h); HK50BC (hi); J3FK (e).

K

KA1MM (k); K4DDH (h); K4EMG (h);
K4ENY (h); K4SA (acl); K4UG (gh);
K5AF (h); K6-: BNR (hi); CGK (h);
CMC (ghi); FAB (k); GAS (h); JLV
(hm); KKC (h); KMB (g); KMV (g);
KRM (h); MBT (i); MV (l); MVX (g);
KXM (gh); NZQ (fhi); OQE (hi);
K7FST (k); K7PQ (h).

L

LA1G (b); LA5N (e); LU-: 1DA (h);
1EX (h); 1QA (e); 2BK (e); 2CA (h);
4AH (h); 4AW (h); 4BH (e); 4BL (h);
4KA (h); 4DV (e); 5CZ (e); 5FG (h);
7AC (h); 7BK (h); 8AB (e); 8BR (h).

N-O

NY2AE (abl); OA-: 4AC (i); 4AL (gi);
4CE (i); 4I (m); 4N (i); 4R (aeh);
OK2AK (b); ON-: 4AU (b); 4BG (e);
4BZ (b); 4FE (h); 4PA (h); 4VC (h);
4VK (f); OQ5AA (ef).

P

PAO-: EC (e); JD (e); LR (e); MQ (e);
UN (h); PK-: 1GL (dh); 1MX (e); 1VM
(e); 2WL (h); PY-: 1CO (e); 1DS (h);
2AC (h); 2CK (h); 2EP (e); 2ET (aeh);
2LJ (h); 3AW (h); 5AQ (h); 7AR (h);
8AD (h).

S-T

SU1SG (be); TI-: 1AF (hk); 2AV (agh);
2DC (h); 2EA (h); 2FT (a); 2KP (fghi);
2MCH (g); 2RC (cl); 3AV (hi); 3RE
(ah).

VK-

VK2-: ABD (h); ACO (h); ADE (h);
AP (ch); BG (e); CE (h); CP (h); DK
(h); GU (h); HF (cm); HS (ce); HU
(a); IQ (h); IR (i); JG (i); JU (ah);
LX (h); OG (e); OJ (h); OQ (h); QR
(h); RJ (ae); TI (h); UA (i); UC (hi);
UX (i); VB (h); VV (aeh); XU (ce);
ZC (h); VK3-: AL (i); AR (i); GQ (h);
HF (h); HX (e); IL (i); KR (ch); KX
(h); LA (h); LY (i); MR (h); MX (h);
OX (h); PL (h); QK (a); RA (i); RW
(h); XJ (h); ZL (eh); ZQ (a); ZZ (h);
VK4-: BS (h); DK (a); JU (ace); JX
(h); KO (h); RG (h); VD (i); VK5-:
AW (h); GM (e); JC (h); TR (e);
VK6MU (e); VK6MW (a).

VO-; VP-

VO-: 1I (eh); 1J (h); 1P (h); 2I (i); 2N
(e); 2Z (e); 4Y (h); VP-: 2CD (b);
3BG (abeijkl); 4TH (acfh); 5AF (i);
5AG (a); 5GB (c); 5PA (b); 5PZ (ag);

6TR (e); 6YB (abe); 7NA (i); 7NR (b);
9R (abcei); VS2AK (e).
W10XDA (e).

X

XE-: 1AC (h); 1AK (hikl); 1CC (h);
1DA (h); 1DT (g); 1GK (h); 1K (h);
1LC (ah); 1LK (hk); 1Y (d); 2AH (hi);
2CI (i); 2DC (i); 2FC (gh); 2FF (h);
2FX (i); 2HB (i); 2HD (h); 2N (h);
2SC (i); 2Y (h); 3AG (h); 3AH (hi);
3AR (i); 3W (h); XZ2EH (e).

Y

YN1RH (h); YV-: 1AA (l); 1AC (h);
1AD (h); 1AP (h); 2AB (i); 2ABE (i);
4AM (h); 5ABT (ef); 5ACC (h); 5AE
(eh); 5AG (g); 5AK (aeg); 5AN (h);
5AP (eh); 5AZ (h).

Z

ZE1JR (b); ZT2B (e); ZT6AU (e); ZUIT
(b); ZU6N (e).

Reporters

- Al Bettinger, 2465 N. 47th, Omaha, Nebr. (Super-Skydier).
- Guy R. Bigbee, Ft. Benning, Ga. (Masterpiece V).
- Carl and Anne Eder, Pouch A, Willmar, Minn.
- Raphael Geller, 1652 Radcliffe Ave., Bronx, N. Y.
- Chris Jaffe, Algonquin Park, Norfolk, Va.
- Geo. Nahas, 147 Seeley St., Brooklyn, N. Y. (Grunow 1291).
- Martin Oithoff, 212 N. 16th, Independence, Kans.
- Julius Orosz, 12205 Parkhill, Cleveland, Ohio. (Philco 65OX).
- Ray Sahlback, 4708a S. Compton, St. Louis, Mo.
- Jack Welsh, Kingston, Ill.
- Hadley Wilcox, 623 W. 40th Place, Los Angeles, Calif.
- Wm. J. Wood, 817½ Lake St., Oak Park, Ill.
- Edwin Worthington, 7203 Short St., Vancouver, B. C.

The operator of VK2ABG stated that Australian amateurs do not reply to incomplete reports and postal cards; reports should consist of several minutes at least, and the more the better.

ZSR Capetown 9180 kcs heard 1 to 2 p. m. EST.

Radio Centre at Moscow reports that two United States radio amateurs, one in Chicago and the other in New York, have made contact with the Soviet North Pole station, UPOL.

The BCB in FOREIGN Lands

EVERYTHING seems to be rather quiet on the foreign radio front this month. Only a handful of changes have come to our attention, but these are important because they concern mostly Australian and New Zealand stations.

Australia

Five slight frequency changes are recorded. 7ZL in Hobart, Tas., owned by Commercial Broadcasters, Pty., Ltd., 82 Elizabeth St., moved from 600 to 620 kcs.

3AR in Melbourne, 4.5 kilowatts, 120A Russel St., shifted its frequency slightly, moving from 630 to 620 kcs.

4QN Clevedon, 7 kilowatts, is now transmitting on 630 kcs.

The Hamilton, Vic. station 3HA, The Age Broadcasting Service, 37 Gray St., boosted its power from 300 to 750 watts.

The new broadcaster at Mount Gambier, 5SE, 100 watts, moved its frequency from 1360 to 1340 kcs. This station is owned by South Eastern Broadcasting Co., Waymouth St., Adelaide.

The newest Australian is 4AR at Roma, Qsld. This 100 watt station is owned by Maranoa Broadcasting Co., Hawthorne Road. Frankly, we hope this call sign will be changed. We used to be able to distinguish the New Zealand stations by the fact they employed the last two letters of the alphabet, Y and Z, but this new Aussie has "usurped" the New Zealand "Z."

New Zealand

The call letters of 4ZB Dunedin, have been changed to 4ZD. This 35 watt station is owned by Otago Radio Association, 180 Battray St.

The frequency of 1ZM Manurewa, was shifted ten kilocycles, from 1260 to 1250. It is owned by W. W.

SPECIAL PROGRAM

Anthony Tarr of Seattle, Wash., has arranged with station 2NZ of Inverell, NSW, Australia, to present a one-hour special DX program which will be dedicated to the Universal DX Club on November 8 (Monday) from 4 to 5 am, EST.

This time is donated through the courtesy of Mr. John Walker, the Program Manager.

Station 2NZ transmits on 1170 kcs with 2 kilowatts power. Reports are to be addressed to Mr. Walker, the Northern Broadcasters, Ltd., Otho St., Inverell, NSW, Australia.

Every listener who owns a broadcast band receiver is urged to try to receive this program.

Rodgers, Ltd., Massey Road.

Our New Zealand representative, Alan I. Breen, says that the government is exercising a stronger control over radio now, and that a number of stations are being forced to sell to the government under threat of being closed down. 4ZL and 4ZO at Dunedin, 4ZR at Balclutha and 2ZD at Masterton have already closed down for all time.

Stations 1ZM, 2YB, 2ZF, 2ZH, 2ZJ, 2ZP, 2ZR, 3ZM, 3ZR and 4ZL have all accepted the offers made by the government and their fate is not known. It is believed they will be scrapped.

Asia

Two additional Siberian Soviet stations are RW54, 540 kcs, at

Khabarovsk, and RW52, 556 kcs, at Tchita.

A station giving its call letters as XGLD, someplace in China, is reported on 590 kcs.

The Shanghai station XQHC, Sassoon House, Jinkee Road, increased its power from 500 to 2000 watts.

JQAK in Dairen, Manchukuo changed its frequency from 650 to 760 kcs.

The new Japanese station JONG at Miyazaki, is now on the air. It transmits on 600 kcs with 500 watts power.

Europe

A new station, known at Lopikerapel, at Hilversum in the Netherlands, is testing on 722 kcs.

The Belgrade, Jugo-Slavia station on 686 kcs, increased power from 2.5 kilowatts to 20 kilowatts, increasing DXer's chances of logging it this winter.

"Radio Marconi," Bologna, Italy, 50 kw, is now transmitting on 986 kcs, having moved from 1222.

The EIAR station at Genoa, IIGE, moved from 986 to 1140 kcs.

Canada

CKY in Winnipeg moved from 910 kcs to 760 kcs. A late release from the Canadian Broadcasting Corporation shows this station on 960, however.

New regulations promulgated by the Canadian Broadcasting Corporation forbid the use of recordings between the hours of 7:30 and 11 p.m.

The Don Lee System of California has added twelve stations, just doubling the number of stations on this chain. The additional broadcasters are KOL Seattle, KMO Tacoma, KIT Yakima, KPQ Wenatchee, KVOS Bellingham, KXRO Aberdeen, KFIO Spokane, KGY Olympia, KALE Portland, KSLM Salem, KORE Eugene and KRNR Roseburg.

WHK Joins Blue

Station WHK became the Cleveland, Ohio, outlet of the Blue Network of the National Broadcasting Company on Sunday, September 26. The station joined NBC last April, but the date of its active affiliation had not been determined at that time.

The oldest broadcasting station in Cleveland, WHK operates on a frequency of 1390 kilocycles with a daytime power of 2,500 watts and a night-time power of 1,000 watts. The station was established in 1921 and is owned by the Radio Air Service Corporation, an affiliate of the Cleveland Plain Dealer and the Cleveland News.

WHK replaces Station WGAR as the NBC-Blue Network outlet in Cleveland.

Favorite Waltzes

Abe Lyman, conductor of the Waltz Time program on NBC, who for the past five years has been compiling requests from listeners in order to determine the nation's most popular waltzes, has at last completed his tabulations.

Most requests were for "Dear Old Girl," followed in order by "Missouri Waltz," "Down by the Old Mill Stream," "Beautiful Ohio," "Drifting Back to Dreamland," "Kiss Me Again," "Always," "Three O'Clock in the Morning," "I Love You," "Sweet and Low," "Juanita," "Remember," "I'm Forever Blowing Bubbles," "Isle of Golden Dreams" and "Girl of My Dreams." Most popular of the semi-classics are "Liebestraume," "Drigo's Serenade," "Caprice Viennoise" and "Estrellita."

The Monthly ROUND TABLE

• • • By CARLETON LORD

OF ALL the material which has appeared in recent issues of RADEX, the article in the September number on choosing receivers apparently has attracted the greatest interest.

Judging by the response from readers, this very important question has received all too little attention in the past. The average listener seems to have been guided in his selection of a radio by the apparent beauty of a cabinet, the smooth talk of a glib salesman or, perhaps, the easy terms on which a receiver could be purchased.

If the article has taught prospective purchasers to think in terms of performance, of what they will expect from a receiver, then it will have done a good job. If it makes listeners consider the actual returns for their invested dollars, the article will be well worth the space which was devoted to it.

One more or less expected reaction to the article has already materialized. A number of readers have written in asking for our recommendation on specific models. We are invited to specify the very best receiver in a variety of price brackets. In short, we are urged out on a limb which would hardly bear the weight of our suggestions.

While we are anxious to accommodate readers in every possible way, this is where we must draw the line. Human nature being what it is, we cannot presume to think in terms of another person's requirements. What might be perfection of reproduction to our mind, could easily be pretty poor stuff to the trained musician. The communication type receiver which might thrill our DX senses, might not be-

gin to meet the needs of the original night owl.

And so, while we are obliged to beg off making recommendations, we will do our best to present an impartial review of the more popular current models. Manufacturers will be invited to submit their receivers for test and observation, and we will endeavor to make an accurate record of performance under varying conditions. We will point out good features, call attention to bad faults. And in this manner, readers may have something to guide them when they make their own eventual selections.

This Month's Dedication

Continuing the policy established some time ago, this issue of RADEX is dedicated to the recently reorganized Globe Circlers DX Club and material prepared by its officers and members appears on other pages. After a rather hectic existence, with control changing from group to group, the club has finally incorporated and now appears ready for some easy sailing. A recent report indicated that membership has passed the 300 mark, and officers and members alike look forward to years of valued service to DXers.

In the leading article of the club dedication, President Arthur J. Parfitt looks at the verification and DX problem through the eyes of various officials from stations throughout the country. Seldom have broadcasters been so willing to discuss these questions so completely, and DXers who have at heart the interests of their hobby would do well to remember the suggestions which are made.

Accompanying the dedication ma-

terial from club headquarters, were samples of the new copyrighted report forms which have been made available to GCDXC members. It is regretted that space does not permit reproduction of these forms, as they are well worth the attention of DXers everywhere. The listener who requests veries on these forms and conscientiously fills in the information listed, need never fear that his reports lack sufficient data. He may have too much material for some stations, but he can't have too little for the broadcasters who appreciate complete reports.

Early Season Report

As we go to press, it is still a little early for reports on new DX for this season. For the most part, a few attempts at after-midnight dialing merely confirmed the fact that we still have static and that Doctor Brinkley still lives down at good old Del Rio. Not so is the report of Anthony C. Tarr, 909 W. Lee St., Seattle, Wash.:

"The Labor Day week-end provided a real harvest of TP's," he advises, "who loaded up my antenna until it groaned under the strain. A few new ones were logged and several reports sent to others which had previously been heard but not verified. Between 2 and 4 a. m., PST, the following Aussies and Zedders were heard: 2YA, 3AR (which, by the way, is still on 580 kcys.), 1YA, 2NR, 7NT, 3YA, 4YA, 4QG, 3GI, 2YC (a new one in Wellington on 840 kcys.), 2KY, 3LK, 3KZ, 4AK, 2NC, 3TR, 3BA, 4BH, 2WL, 7UV and 4BU. Of the lower-powered stations, 3LK, 2NC and 2KY provided R-8 signals on peaks.

"Some Japanese broke through as early as 1:30, the first heard being JOIK, then JOHK. As their signals increased (peaking at times to R-8), others coming through were JOFK (QRM'd by 3GI), JOAK-2, JOBK-2, JODK-2 and JOIG. JOHK and JOIK, and no doubt some others, broadcast

news in English just before 2 a. m., PST, which provides good material for reports. This news broadcast is relayed by JVN on the short waves and by a strange station on 9630 kcys. An unidentified Japanese was heard on 850 kcys., and an unidentified Aussie or Zedder on 540 kcys. with a good signal at times.

"My receiver is a 1935 8-tube Patterson. The aerial is a plain inverted-L type, with a 148-foot flat top running NE-SW and the lead-in taken at the SW end. Although this location is somewhat noisy and the static crashes were heavy, perseverance and a bit of ear-straining provided the desired results on the weaker signals. Others on the Pacific Coast should not have much trouble hearing these stations—and others, too, if they have a fairly sensitive receiver and are blessed with a bit of patience."

Station News

"We have just made a few changes down here," supplies Wilbur T. Golson, Chief Engineer of WJBO, Baton Rouge, La. "We have switched frequency from 1420 to 1120 kcys and boosted our power from 100 to 500 watts. WJBO will broadcast special DX programs the first and fourth Sunday mornings of each month from 1 to 3 a. m., CST. The first hour of each broadcast will be presented from the studios located on the campus of Louisiana State University, with an all-student cast of entertainers from the school of broadcasting. I will present the second hour, with the DX news, answering of DX mail and playing DXers' requests."

"Station CMCF is now installing new equipment which will raise our power from 600 to 5000 watts," writes Oscar Gutierrez, Owner and Director, Paseo de Marti No. 9, Havana, Cuba. "We expect to have the new transmitter on the air early in December and will retain our old frequency of 810 kcys. We expect

to have some DX programs during the balance of the winter."

"On September 15th, Station CKY changed from 910 to 750 kcys," informs Roger Boulanger, B. P. 221, Montmagny, Que. "In this province, there have been several changes. CRCM has moved from 910 to 1050 keys, CRCK from 1050 to 950, and CRCS from 950 to 1120. CHLT is a new station at Sherbrooke, Que. It operates on 1210 keys with 100 watts power, and is owned by La Tribune Publishing Co. A new 1000-watt station will be operated by a private company at Rimouski, Que., sometime this fall. As yet, the call letters and frequency are not known. CHLN will be another new Quebec station. It will be located at Trois Rivieres. The new 50-KW CBC station at Vercheres on 910 keys will be operating shortly under the call CBF. In the Province of Ontario another 50-KW station is to be set up with the call CBL."

Word from the Department of Transport, Marine Services, at Ottawa, advises of three power increases for other Canadian stations. CKCK, Regina, Sask., gets a boost from 500 to 1000 watts, while CKX at Brandon, Mann., jumps all the way from 100 to 1000 watts. CFCF, Montreal, goes from 400 to 500 watts.

Stations Verifying

"In the September RADEX," postcards Lewis Newkirk, Box 573, Huntington, N. Y., "you have the classification 'z' for stations KTEM, KNET, WSAU, WMBS, WFOY and WFTC. All of these have verified reports for me, as has WTEL which has been classified as a non-verifier."

"Some time ago I wrote about a number of stations which had not verified for me," reminds Jim Walker, Romney, W. Va. "Since then, three of them—WIP, WHJB and WFBG—have come through.

In my reports to them, I said that if they would verify this once, I wouldn't bother them again. They wrote back that they would be glad to have me write them any time."

"The old question of counting calls, stations and veries has cropped up again," observes Paul Sampson, 1820 College Ave., Regina, Sask., "but I'm not going to get excited about it. Since DXing is only a hobby, it is useless to attempt to set rules by which a listener should log stations. Rules are only good when you are going into a competition where everyone must be on an equal footing."

Wise indeed is Reader Sampson who refuses to get all hot and bothered about the DX pastime. He evidently realizes that one might as well tell the sun to shine an extra hour or two on Christmas Eve as to tell listeners how they shall count veries, stations and calls. But having heard the wolves howl on two occasions, we might add that rules aren't much account in contests, either.

DXing With A Car Radio

"During the past three years," recalls H. E. Rebensdorf, Harvard, Ill., "I have boosted my total of verifications up to the 584 mark. All of my DXing has been done on a car radio. If the high-line which we have been expecting for nearly a year ever gets here, I shall get an all-wave receiver. And then I'll be set for some real DX."

"My 6-tube 1936 General Electric model E-62 was purchased a year ago in New York," contributes Fred Babineau, 4059 Grand Blvd., Montreal, "and has shown some mighty fine performance. Since then I have logged all 48 states, 8 provinces, Puerto Rico, Hawaii and many Mexican and Cubans. Of my total of 350 stations heard, the best catches are KOH, KWYO, KJBS, KTFI, KMO, KWJJ, KOY, KFKA, KGU,

WNEL, WKAQ, CJAT, XEP and XEBG. I sure would be glad to hear from other owners of this model receiver."

"I bought my first radio in 1934," pens A. J. McBurney, Portneuf Station, Que. "It was a 5-tube, 2-band Canadian DeForest-Crosley. In July of last year, I followed with a 6-tube, 3-band 'Electra' model of the same make. I have been well pleased by the remarkable sensitivity of this receiver. Allan Ford and I live about a quarter of a mile apart, and we DX for dear life. We often compare notes and he gets about as much on his home-made sets as I can on a \$90 model."

"I am using a 1937 10-tube Zenith model 10-S-130," reports Kenneth Axelson, 5801 Dorchester Ave., Chicago, Ill. "For an aerial I have my choice of a variety of arrangements—verticals, Marconi inverted-L's doublets and the like—but I have found that my RCA Spider Web job is the best of the lot. It is strung on top of the apartment building, 200 feet high. Although I have only been DXing seriously for the past few months, I have heard 310 stations and have verifications from 70, with a great number of requests still out. During the next schedule of frequency checks, I hope to boost my total heard to well over the 400 mark."

NBC Adds 138th

THE total number of stations affiliated with the NBC reached 138 with the signing of KMED Medford, Ore., and KELO, Sioux Falls, S. Dak.

KMED, the only radio station in the fertile Rouge River Valley in Southwestern Oregon, on Sept. 15 became an NBC outlet available to both the Pacific Coast Red and Blue Networks.

This station, which has a regional channel frequency of 1410 kilocycles with a power of 250 watts, is the property of Mrs. Blanche Virgin, the first and now one of the few women owners and operators of commercial broadcasting stations in the United States. Lee Bishop is the manager.

KMED was established, as a hobby, in an old flour mill at Talent, near Medford, in 1922, by the present owner's husband, the late W. J. Virgin. He moved the station to Medford in 1925. After his death in 1927, the residents of Medford prevailed upon Mrs. Virgin to continue the station's operation. A year later, KMED was placed on a full-time schedule and since then its popularity has steadily increased.

On September 5 KELO joined NBC as a supplementary outlet available to either the Basic Blue or the Basic Red Network.

KELO is the second Sioux Falls station to join the NBC networks this year, thus providing full time coverage by NBC of the Sioux Falls territory. KSOO, which also is optional to either the NBC-Blue or the NBC-Red Network, was added last April. Since KSOO operates on a limited schedule, KELO will be available to the networks when KSOO is off the air.

Although stations WARD and WLTH were deleted by the Federal Communications Commission, they are still on the air and broadcasting regularly, according to H. F. Hawkins of Manchester, N. H. These stations have been deleted many times, and on taking their troubles to court have always been reinstated. We will put them back in RADEX next month unless the FCC deletes them again.

KQW, San Jose, Calif., joined the Don Lee-Mutual Network on August 1.

Radio and Armistice Day

AS ARMISTICE Day is observed this month by the great nations, radio brings messages of peace and thanksgiving from the far corners of the globe. Radio, which was an infant during the Great War, has come of age and is being used—on the surface, at least—to spread the gospel of good will.

Behind the scenes, the powers have entirely different plans for radio. Instead of a medium for entertainment, education and a mild dose of politics, the modern miracle of wireless is being developed to play a vital part in future wars.

The recent Italian-Ethiopian conflict and the Spanish rebellion have previewed one part of radio in a future war. Short wave listeners will recall Italian Fascist stations broadcasting "news" in a dozen languages and the old Addis Ababa station hurling streams of propaganda around the world.

Both Sides in Spain

The Loyalist station at Madrid tells one side of the revolution in that country, while the rebel broadcasters at Seville and on the Canary Islands get in their two cents worth. Listeners can pick their stations and decide which is the real McCoy.

The more recent Sino-Japanese conflicts have so far failed to enliven the dials of American receivers. News from Tokio has been forthcoming, but reception hasn't been very good and few dialers take the trouble to tune for these press agent releases.

To a certain extent, this part of radio in modern warfare can be eliminated. It will be remembered that on numerous occasions, Italian stations sent out powerful signals on the same frequency as the Ethiopian broadcasts and rendered



Fresh and youthful looking is Laurette Fillbrandt, the young lady who portrays that fresh and youthful character, Dot Houston in A Tale of Today, heard over the NBC-Red Network on Sunday evenings.

unintelligible the appeals for justice and assistance.

On many nights, signals from Madrid were blotted out completely by a loud buzzing interference on the same frequency. Other instances prove rather conclusively that propaganda by radio can be silenced almost at will.

Berlin Station Underground

While it may seem apparent that enemy broadcasts could be silenced by bombarding the transmitters, equipment in isolated regions would be extremely difficult to locate and attack, even by plane.

Furthermore, it is rumored that near Berlin is an underground broadcasting station so armored and protected as to be virtually impregnable. And it's an odds-on bet that other nations will follow suit.

But the matter of broadcasting

propaganda is quite insignificant beside the other parts that radio can play in modern warfare.

Direct contact between airplanes and ground headquarters enables competent observers to direct an effective open campaign, noting strategic points for attack and guiding infantrymen.

Remote Control for War

Portable transmitters and receivers, carried into the field by the troops, makes it possible for officers to maintain constant touch with an advance or a retreat. Similar equipment in cars and on motorcycles permits artillery observers to direct and report lines of fire.

Remote control by radio may be a most effective weapon in the next great war. Bombing planes loaded with tons of high explosives may be flown to enemy concentrations and cities hundreds of miles from their controlling operators.

The very instruments now used by pilots for blind flying can be read by radio, permitting the discharge of a deadly cargo of bombs and gas shells on definite targets.

Robot Tanks, Warships

Submarines and warships can likewise be directed against enemy forts and vessels for gunfire, for torpedoing and even for laying mines. Robot-driven tanks, shooting streams of fire 40 and 50 feet, may be controlled by radio from distant vantage points.

All of these uses of radio have been proved possible, and this is just a beginning. Horrible as it may seem, developments now in a laboratory stage would make a future war even more terrible.

The "death rays" of story books are not as weird and improbable as they may seem. There is definite evidence to believe that at least one European power has developed a "black ray" which will stop motors of the internal combustion type.

Credited To Marconi

Directed along a road or toward an airplane, it will either upset the electrical timing or burn out the coils of the ignition system. This development has been credited to Marconi, although he denied it some time before his death. At any rate, it is entirely within the range of possibility over short distances.

Another device for war use is a direction-finding "detector." This would locate moving objects in the dark, take into account their speed and direction, and automatically train and fire guns on the spot, even though the object would be invisible to human eyes.

The one point which may be the salvation of the world from these forces of destruction is the fact that all of these devices are dependent upon radio waves.

Non-Interferable System

And radio waves may suffer from interference, both natural and man-made. A clever enemy could throw a counteracting signal on the frequencies being used and upset the whole apple-cart.

But even this possibility may eventually be eliminated through the development of a non-interferable system of transmission. Many experimenters believe that they are now on the track of such a system, and the advances of the past two decades have shown that little is impossible in radio.

After more than a year of war in Spain, military observers are inclined to discredit the ballyhoo attached to modern weapons of warfare. They have pointed out that Madrid still stands after months of siege and despite improved equipment for attack. They believe that there is little which is new and which is better than the weapons used during the World War.

(Please turn to page 29)

When to Get the DAY'S NEWS

• • • *Network News Flashes*

E-Midn't., C-11:00 p.m., M-10:00, P-9:00
Don Lee System, Daily
 KDB KDON KFRC KFNM KGB
 KGDH KHJ KPNC KQW KVOE
 KXO

E-1:00a.m., C-Midn't., M-11:00 p.m., P-10:00
CBS — Sam Hayes, Daily
 KNX KSFO

Don Lee System, Sunday only
 Same stations as at Midnight.

E-7:30 a.m., C-6:30, M-5:30, P-4:30
Michigan Radio Network, Daily.
 WXYZ

E-8:25 a.m., C-7:25, M-6:25, P-5:25
CBS — Press Radio, Monday through Friday
 CKAC KLRA KMOX WABC WADC
 WAIM WALA WBIG WCHS WCOG
 WDAE WDBO WDNC WEEI WESG
 WFBL WHIO WHIP WIBX WJAS
 WJNO WKRW WLBS WMAS WMBR
 WMNN WNEF WOKO WORC WPAR
 WPG WPRO WQAM WREC WRVA
 WSTP WWSJ

E-8:55 a.m., C-7:55, M-6:55, P-5:55
CBS — Press Radio, Sat. and Sunday
 CKAC KLRA KMOX WABC WADC
 WAIM WALA WCHS WCOG WDAE
 WDBJ WDBO WEEI WESG WFBL
 WFBM WHEC WHIO WIBX WJNO
 WJR WJSV WLBS WMAS WMBR
 WMNN WNEF WOKO WORC WPAR
 WQAM WREC WSWA WSEA WWSJ
 WTOC

NBC-Red—Press Radio, Wednesday
 To stations available

E-10:00 a.m., C-9:00, M-8:00, P-7:00
NBC-Blue—Press Radio, Sunday
 To stations available

NBC-Red—Press Radio, Sunday
 To stations available.

E-10:45 a.m., C-9:45, M-8:45, P-7:45
Don Lee System, Daily except Sunday
 Same Stations as at Midnight

E-11:15 a.m., C-10:15, M-9:15, P-8:15
CBS — Edwin C. Hill, Monday through Friday
 KFAB KFH KGKO KLRA KMBC
 KMOX KNOW KOMA KRLL KRNT
 KSCJ KTRH KTSa KTUL KWKH
 WABC WACO WADC WALA WBBM
 WBIG WBNS WBRC WBT WCAO
 WCAU WCCO WCHS WCOA WCOG
 WDAE WDBJ WDBO WDNC WDDO
 WDRG WEEI WFBL WGR WGST

WIAS WHEC WHIO WHIP WIBX
 WISN WJR WJSV WKBB WKBN
 WKRC WLAC WLBS WMAS WMAZ
 WMBD WMBR WMNN WNAX
 WNEF WNOX WOC WOKO WORC
 WPG WPRO WQAM WREC WRVA
 WSFA WWSJ WTOC WWL WYVA

E-Neon. C-11:00 a.m., M-10:00, P-9:00
Michigan Radio Network, Daily
 WASH WBCM WELL WFDH WIBM
 WJIM WKZO WOOD WXYZ

E-1:00 p.m., C-Noon, M-11:00 a.m., P-10:00
CBS—Monday, Wednesday, Friday
 KFAB KFH KLRA KMOX KNOW
 KOMA KRLL KRNT KSCJ KTRH
 KTSa KTUL KWKH WABC WADC
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WDRG WEEI WFBL
 WFBM WGST WHAS WHEC WHIO
 WISN WJAS WJR WJSV WKBB
 WKBW WKRC WLAC WLBS WMBR
 WNEF WOKO WORC WPRO WQAM
 WREC WRVA WWL

E-1:30 p.m., C-12:30, M-11:30 a.m., P-10:30
CBS — Edwin C. Hill, Mon. through Fri.
 KFBB KFPY KGMB KGVO KIZ
 KNX KOH KOIN KOL KOY KSFO
 KSL KVI KVOR WJAS

E-3:00 p.m., C-2:00, M-1:00, P-Noon
Don Lee System, Saturday
 Same stations as at Midnight

E-3:15 p.m., C-2:15, M-1:15, P-12:15
Don Lee Sys., Mon. through Fri.
 Same stations as at Midnight

E-4:30 p.m., C-3:30, M-2:30, P-1:30
CBS — Monday, Wednesday, Friday
 KFBB KFPY KLZ KMBC KNX
 KOIN KOL KOY KSFO KSL KVI

E-5:00 p.m., C-4:00, M-3:00, P-2:00
Michigan Network, Daily
 WASH WBCM WELL WFDH WIBM
 WJIM WKZO WOOD WXYZ

E-5:30 p.m., C-4:30, M-3:30, P-2:30
CBS — Press Radio, Mon. through Fri.
 KFH KLRA KNOW KOMA KSCJ
 KSL KTRH KWKH WABC WACO
 WADC WAIM WALA WBIG WBRC
 WCOG WCOG WDAE WDBJ WDBO
 WDDO WDNC WHEC WISN WJAS WJNO
 WJR WKBB WKRW WLBS WMAS
 WMBR WOC WOC WPAR WQAM
 WREC WSEA WWSJ WTAQ WTOC
 WYVA

NBC — Red and Blue, Press Radio
 To all stations available

E-5:45 p.m., C-4:45, M-3:45, P-2:45
NBC-Blue—Lowell Thomas, Mon. through Fri.
 CRCT KDKA WBAL WBZ WBZA
 WEAN WEBR WFLA WHAM WIOD
 WJAX WJZ WLW WMAL WOOD
 WRDT WSPD WSUN WSYR WTAM
 WXYZ

E-6:45 p.m., C-5:45, M-4:45, P-3:45
CBS—Boake Carter, Mon., Wed., Fri.
 KFAB KFH KLRA KMBC KMOX
 KNOW KOMA KRLL KRNT KTRH
 KTSa KTUL WABC WADC WBBM
 WBNS WBRC WBT WCAO WCAU
 WCCO WDAE WDBO WDDO WDRG
 WEEI WFAM WFBI WGR WGST
 WHAS WHEC WHIO WISN WJAS
 WJR WJSV WKBN WKRC WLAC
 WLBS WMBD WMBR WNOX WOKO
 WORC WPRO WQAM WREC WRVA
 WWL

Don Lee Sys., Mon. through Fri.
 Same stations as at Midnight

E-9:30 p.m., C-8:30, M-7:30, P-6:30
CBS—March of Time, Thursday
 KFAB KFPY KLZ KMBC KMOX
 KNX KOIN KOL KOMA KRNT
 KSFO KSL KVI WABC WBBM
 WBNS WCAO WCAU WCCO WDRG
 WEEI WFBL WFBM WGST WHAS
 WHEC WJAS WJR WJSV WKWB
 WKRC WOKO WPRO WWL

E-9:45 p.m., C-8:45, M-7:45, P-6:45
Don Lee System, Daily
 Same stations as at Midnight

Michigan Network, daily
 WASH WBCM WELL WFDH WIBM
 WJIM WKZO WOOD

E-10:00 p.m., C-9:00, M-8:00, P-7:00
CBS — Press Radio, Sunday only
 KFBB KFH KFPY KGMB KGVO
 KLRA KLZ KMBC KNOW KNX
 KOH KOIN KOL KRLL KSCJ
 KSFO KSL KTRH KTSa KVI KVOR
 KWKH WABC WACO WADC WALA
 WBBM WBIG WCOG WCOG WDAE
 WDBJ WDBO WDNC WFBL WGST
 WHAS WHIP WHX WISN WJNO
 WKBB WKBH WMBR WNAX WOC
 WOKO WPAR WQAM WREC WRVA
 WSBT WSFA WWSJ WTOC

E-10:15 p.m., C-9:15, M-8:15, P-7:15
CBS — Boake Carter, Mon., Wed., Fri.
 KFPY KLZ KNX KOIN KOL KSFO
 KSL KVI WFBM

Michigan Radio Network, Daily
 WXYZ

The Globe Circlers DX Club is conducting a shortwave contest and anyone who would be interested in

entering can get full particulars by addressing Raphael Geller, 1652 Radcliff Ave., Bronx, N. Y.

WHAT ABOUT Mail-Order Sets?

• • • By B. Francis Dashiell

MANY makes and models of 1938 mail-order receivers are now available. The new catalogues are off the press, and the sale of these sets through the mails is nearly as large as from the stores in the cities. Not all purchasers of radio apparatus are located in business centers where nationally-known receivers are exhibited and demonstrated. Millions of people are still unable personally to examine the things they buy, and must rely upon the descriptions and illustrations in the catalogues that come through the mails.

When one is confronted by circulars from mail-order houses it is human to be a little skeptical. First he wonders how the radio actually appears and sounds when placed in his home. Then, if he is practical, the customer thinks about the problem of servicing should trouble arise in the set. Servicing, as we know, can become a major problem in some parts of our land. In order that the case for the mail-order set be understood RADEX has made a survey of this field, particularly in regards to the problem of servicing.

Stores versus Mails

A city customer need only walk into some reliable radio store and listen to several models in order to compare their performance and tone. He then purchases the set which best meets his requirements, confident that any future defects or failure can be promptly remedied by a serviceman from the store. Out in the country, however, many persons order their sets through the mails not knowing exactly what they will get. This latter situation exists, too, for the city customer who



Del Casino, young tenor, is the featured soloist with Shep Fields and his orchestra on the Rippling Rhythm Review, heard Sundays on the NBC-Blue Network.

also orders his set from one of the mail-order catalogues because he likes the type of receiver described and is attracted to it because of the price.

Perhaps the most outstanding reason why many sets are sold through the mails, other than the necessity for doing business this way, is because the prices placed on such sets are usually lower than those for comparable sets sold by salesmen in retail stores. When overhead cost and retail profits are eliminated by shipping a set direct to the purchaser from the manufacturer, it is natural that such a set can be sold at a lower figure. Certainly many fine all-wave sets, giving remarkable performances for

the prices paid, are available from mail-order dealers.

Buy With A Guarantee

Mail order sets are good sets. They must be in order to survive against the advantages of local distribution. In order to hold their own mail-order sets must perform and hold up without more than a normal amount of failures. While no attempt has been made to separate the mail-order business from the retail trade, it is believed that there are almost as many of the former sets sold as the latter.

Once a prospective purchaser has decided that he needs a new set—either battery or house-current operated—he should concentrate upon those sets within the field selected. By writing to the different sales houses he can procure much literature. In all cases this descriptive matter should be read and studied carefully. See that a *guarantee* is offered by the company against all electrical and mechanical defects. This is the standard Radio Manufacturers' Association guarantee that is good for 90 days. Some dealers also offer 30 days free trial with a cash refund if not satisfied. The standard guarantee provides that within that length of time defective receivers will be repaired absolutely free of charge. Receivers that develop trouble after the 90-day period are subject to a repair charge, depending upon the nature of the work. Whether this charge is made depends, too, upon how much it is justified.

Testing the Set

When the new set is received from a mail-order concern it will be found to be scientifically packed. After all, radio sets are fragile to a certain extent. It will be found that complete instructions accompany the set, and these should be carefully studied *before* unpacking and operating. Upon the proper

interpretation of the instructions often rests the fate of a good receiver, and whether the guarantee will remain effective. If it gets off to a bad beginning, due entirely to the customer's carelessness, the result is dissatisfaction and unfair charges against the dealer. Even in that event the customer is "always right," for the mail-order distributors strive to please.

Tubes, too, are not infallible and can give trouble in the most expensive sets. There can be no definite promise that tubes will always arrive in perfect condition. The new receiver should be properly connected, with batteries securely attached if it is a set of this type, and a good antenna and ground, or noise-reducing aerial, is important. A new set cannot be expected to bring in all the hard-to-get short-wave stations the very first thing—such tuning takes time, experience and patience.

Can Be Serviced

Servicing a set that has been ordered from a catalogue seems to be the customers' greatest worry. This doubt frequently stands between buyer and seller, and it may unnecessarily prevent a person from purchasing an otherwise fine radio at a reasonable price. This is because his uncertainty about satisfactory consultation and repairs, if necessary, are not always set at ease by the reading text in the catalogues. Unfortunately, the mail-order people do not explain in detail their servicing facilities or just what they can be expected to do. This void in their advertising matter is not intentional—it is because the problem of servicing is a minor matter to them. However, the new reader does not know this until he has learned by experience that mail-order sets work every bit as well as those sold and exhibited in radio stores.

No modern radio receiver should require much servicing for a long time. If a set gives trouble at once it is because several hours of operation shows up some defect in one of the parts, although the manufacturer's test originally showed it to perform perfectly. The 90-day guarantee takes care of all this. Or one or more new tubes may turn the trick. But if trouble does come the chances are the dealer will want the set sent to him or one of his authorized experts for examination and correction.

Back To The Factory

When a mail-order set does not perform as it should or later requires special attention or new parts, it must, of course, be serviced carefully. Since, in many cases repair shops are not close at hand, this places the mail-order set at some disadvantage. It must be crated and shipped back to the factory from which it came, and this results in some loss of time and inconvenience of transportation. However, a factory repair job is always a good thing. Sometimes no charge is made, and when such is necessary it is based only on the cost of material, plus time, and without a thought for profit.

The number of cases when sets must be returned to the factory is very small—less than 1 per cent. Records of distributors who solicit through the mails indicate what little trouble is experienced can usually be remedied at home. It is interesting to learn how carefully mail-order dealers have studied this matter and attempt to provide servicing that will please their customers. Radio servicing of this kind is not maintained for profit.

Mail-Order Concerns

Excellent mail-order receivers in a great many models are being offered for 1938 by Sears, Roebuck and Company (Silvertone), Mont-

gomery Ward and Company (Airline), The Midwest Corporation (Midwest models), Wholesale Radio Service Company (Lafayette), Allied Radio Company (Knight), Radolek Company (Pioneer), Federated Purchaser (Acratone), E. H. Scott (Philharmonic), McMurdo Silver (Masterpiece), The Hallicrafters (Skyrider), The Crosley Company, The Howard Company, and others. Some of these sets are also displayed and sold through local dealers in the largest cities.

One of America's largest and oldest mail-order concerns, Sears, Roebuck and Company, distributors of the well-known "Silvertone" line of receivers, attempts to keep close to its customers. This is made possible by an extensive newspaper and mail campaign, and the locating of nearly 500 retail stores throughout the nation. Circuit diagrams of all their receivers are available to every service man. But their own radio-service department is expert in diagnosing customers' complaints and is usually able to tell quickly what is wrong with a set. Tube and battery failures account for most of the service cases. When it seems that tubes are at fault this concern may ship an entire new set of tubes with the request that the customer attempt to remedy the trouble with such replacements.

Field Servicing Programs

If some component part of the set has failed, as they will do in rare instances in any receiver, Sears, Roebuck and Company requests the customer to express the set to one of their nearest 10 mail-order branches. Often the work is done by one of their 500 retail stores. The set is promptly repaired and returned. In addition to this, Sears, Roebuck and Company is now organizing a country-wide net work of independent field servicing men to care for their mail-order business.

Another field-service program is being pushed by the Midwest Radio Corporation. This concern has been selling radio sets for many years and is one of the first to enter the multi-tube field—such as the 18-tube sets now so well known. They have factory-branch salesrooms in some of the large cities where new sets may be examined. These showrooms service all Midwest sets within their trading areas, the work being done by factory-trained experts. Where sales houses are not available Midwest has diligently built up a widespread service organization. Selected service men have charts and diagrams at hand and carefully follow factory rules for servicing. Just now the Midwest Corporation is engaged in enlarging its nation-wide service and sales program. In their advertisements in RADEX one may read an offer to join the Midwest nation-wide service organization.

All Give Service

The many models of Lafayette radio receivers have long been distributed by the Wholesale Radio Service Company. This organization maintains a large and efficient service department as they like to keep in touch with their own sets and customers. This means very little servicing expense to the purchaser. But when a receiver suffers some minor ailment, the experts at Wholesale send instructions by mail and may authorize local repairs. Similar practice is also followed by several mail-order concerns, frequently at no expense to the customer. The distributors of Lafayette sets are lenient with customers and never make charges for servicing unless forced to do so. And this depends upon the cost of material and time involved.

The "Knight" receiver is distributed by Allied Radio. If trouble occurs every effort is made to maintain the customers' good will by

providing prompt and careful service at little or no expense, depending upon the nature of the work to be done. Usually Allied experts find that a letter of suggestion often helps, but if this fails the customer is authorized to return the set for examination, testing and repairing. Similar methods are followed by Federated Purchaser, distributors of "Acratone" sets. Servicing, too, is not a problem for Federated since little trouble is experienced in selling radio sets through the mails. Diagrams and manuals accompany their sets, and most adjustments can be made by local servicemen or at the factory if local servicing is not available.

Such concerns, as E. H. Scott, the National Co., Hammarlund, Silver, and a few others who deal in custom-built precision radio receivers of the more expensive type, find that servicing is also a minor problem. But, naturally, should trouble arise they will prefer to handle the repairs in their own way, in their factory, under expert supervision and personal approval. However, local service men are competent also to do this. Scott "Philharmonic" receivers, well-known to readers of RADEX, are carefully built and tested before shipping. They are guaranteed for 5 years. Trouble, when it appears, is confined mainly to the tubes which have failed with time and use. Any difficulties are promptly taken care of if the owner writes to the laboratories. Readers need not hesitate to consider advertisers in RADEX, because every consideration can be obtained direct from the dealer if troubles arise.

KGGF, 1000 watt station on 1010 kcs, located in Coffeyville, Kans., has become affiliated with the Mutual Broadcasting System. Owned and operated by Powell and Platz, KGGF joined Mutual on Sept. 11.

Verification Insurance

• • • By Arthur J. Parfitt

IN THE past, the majority of articles relating to the DX hobby have been written by prominent DXers. They have been replete with interesting and informative material, but they have presented only the DXer's side of the case.

In order to present information from a different angle, the Globe Circlers DX Club, Inc., has contacted numerous station officials. We have asked them the answers to many of the perplexing questions pertaining to DX and the DXer's reports.

In this article, the answers and views of the station officials themselves have been quoted word for word from their replies. It is our firm belief that the DXers who choose to follow the suggestions given here, will find the results very pleasing. It is, to express it mildly, *Verification Insurance*.

Are DX Reports of Value?

"We appreciate the fuller DX reports, which are very useful to us."
Tom M. Browne, Program Dept., KRIS.

"Please let us thank you for the trouble you have taken in writing us. Such information is helpful to us and we would appreciate the comments of any of your friends who listen to us . . ." *W. B. Schrader, WQXR.*

"We appreciate to a great extent such DX reports as are comprehensive, well rendered and clear. More information like this would be a great help to any broadcasting station . . ." *J. L. Champogne, CKCH.*

"Detailed DX reports would be very useful to us, or to any other station within its certain range. However, inasmuch as reception over such a period, or such a distance, is



Jolly Gillette, Milton Berle's little heckler with the grown-up singing voice. Her real name is Eileen Barton.

spotty and of no commercial value, this interesting information could not be used by us to any extent. However, such reports within our regular coverage area would be of great value to us, and we believe that reports of this nature would be of value to radio stations in a closer territory." *H. McMahon, Technical Director, CJCA.*

"Stations conducting DX programs are, first of all, interested in hearing from the greatest number of DX fans. The urge to cover dis-

tance on the part of the station is just as great as that desire of the DX fan to add as many stations as possible to his list. It often happens, however, that the DX fan will send a card or a short letter, listing the numbers he heard on the broadcast, and with no other indication of the quality of the program or the strength of the station at his receiver. The fact that WFMD may be heard in some foreign country would be extremely gratifying, but unless the listener was able to give us a comprehensive report on the strength of our signal at that point, we could not say with any great assurance that we were being received well at the DX end." *John A. Fels, Chief Engineer, WFMD.*

"Of course, we like to get reports. However, we realize that they are air wave and not ground wave reports. A radio station must depend upon its ground wave for its primary coverage." *Judge James R. Curtis, KFRO.*

"Among the points which should be covered in a DX report are the date of reception, time in Eastern Standard, excerpts of announcer's comments, strength of signal (faint, moderately strong or strong), interference (whether local, atmospheric or station heterodyne) with degree of severity (such as slight, moderately heavy). If there is heterodyne interference, mention the source of the interfering signal. Compare the reported signal with that of any station which is on the air at the same time and is near the same frequency or locality. Mention the severity of fading briefly. This to me is all-sufficient and much more of interest to the station than a complicated report in hieroglyphics, the meaning of which are known only to the DXer and his colleagues." *David W. Jeffries, Program Director, WHDL.*

"First list the numbers heard, giv-

ing the exact time at which they were broadcast. Then the station wants as accurate a report as possible on the actual signal strength of the receiver signal. Compare the signal with that of another station of about the same power and approximately the same distance away. Give information about the general reception conditions and an *honest* comparison of quality and volume with other stations received that night. Another thing which is helpful to engineers is mention of the *depth of modulation*, seemingly apparent at the receiving end." (Due to the fact that this engineer wrote some very frank and helpful information on DXing, he requests that his name be withheld. AJP.)

"In compliance with your request for a list of the information which we would like to have included in DX reports we list the following: *Signal Strength; Audibility*, or clearness; *Degree of Modulation*, provided the listener knows how to interpret this; *Interference* — QRN and QRM; *Weather; Type of Receiver*, number of tubes and aerial; *Type of Program*, details which will help us make sure that the listener actually heard our station; and *Location*, particularly if the location is hard to find on the average map. On the latter point, we frequently find that the town is not listed on our map and we don't know in what part of the state the listener is situated." *Eugene Stephens, Assistant Engineer, WKZO.*

"I believe that the following information will be most helpful in reporting the reception of distant stations, especially from the viewpoint of the engineering staff: 1. Some indication of the field intensity over a definite period of time. 2. Call letters of any interfering stations on the same channel. 3. The comparative field intensity of such stations. 4. Extent and seriousness

of, inter-channel interference. 5. Tone Quality. 6. I do not believe that it is necessary to give any extensive program report, since most DX programs are verified to a large extent by the time reported." *W. E. Phillips, Chief Engineer, WILL.*

Further quotations on this subject would be merely a repetition of the above statements. Below we have summed up the list of important points as requested by the majority of stations contacted. We hope that it will assist some listeners in working up their 1937-38 reports.

What to Include

TIME. Be sure that your clock is set to the correct time used in your locality. Correct time is all-important in reporting DX programs.

SELECTIONS. List the *names* of the selections heard. If possible, give the name of the orchestra playing them and state if the selection was by the orchestra only, by orchestra with man or woman vocalist, etc.

ANNOUNCEMENTS. Wherever possible, record the announcements word for word as they are made. If you find this impossible, record as much as possible. This makes wonderful verification material.

WRITING. When possible, use a typewriter. Otherwise, use pen and ink. Write all reports very plainly.

SIGNAL STRENGTH. Give the approximate signal strength as shown by your signal strength meter. If you have no meter, describe by the "R" code given on page 6 of the October, 1937, RADEX.

FADING. Always describe the fading experienced during reception of a DX program. This is explained on page 7 of the above-named issue of RADEX.

AUDIBILITY. Give the approximate degree of clearness, using the QSA code which is described on page 7 of the October, 1937, RADEX.

STATIC. Always list static as *lo-*

cal or *distant*. To determine, simply tune your set between stations. If no static is heard, it is evident that it is distant and is being picked up with the incoming signal. If static is heard between stations, it is of local origin.

INTERFERENCE. Describe as local or distant, as the case may be. State if heterodyne interference, if from a station on the same channel, or from a station on an adjacent channel.

MODULATION. If not understood, omit this point. As one engineer stated: "This is difficult to judge, I admit, but a general idea of terrific *Over-Modulation* is the Mexican Border Stations. In the case of *Under-Modulation*, the carrier hum is more apparent than the modulation received."

WEATHER. State if Clear, Cloudy, Rain, Snow, etc. Give temperature and wind direction, if known.

RECEIVER. Give name, model, and number of tubes. State if reception has been on the speaker or phones.

ANTENNA. Give type, name, direction and height.

GROUND. Describe the kind of ground used.

LOCATION. Always give the exact location, particularly if your town is not shown on the average map. An example of why this is important is shown by the following quotation:

"Giving the location of the listener is very important. As a matter of fact, on our last birthday celebration, at which time we offered a prize for reports of DX reception, the contest was decided between two men who lived less than a dozen miles apart in New Zealand." *J. M. McDonald, KTHS.*

In reviewing the above list of "things to do," it may seem that

there is a lot of trouble in store for the DXer. This is true, but if a verification means anything to a listener, he should be willing to go to this effort to get his confirmation.

From the 1932 to 1936 DX seasons, the writer contacted 594 BCB stations. Believe it or not, a verification was received from every one of them. The writer can show a verie from every one of the "non-verifying" stations listed in a recent RADEX.

This indicates that the success of a DXer who wants to verify stations depends upon the manner in which the report is submitted and the amount of information that it contains.

Follow-Up Letters

In many instances, it is necessary to make more than one request for a verification. Here again the success of the attempt depends upon the procedure.

"If DXers don't get verifications which they think they deserve," writes one station engineer, "it doesn't help one bit to send a sarcastic letter to the station. The natural reaction is for the station to say, 'The heck with them. What did they ever do for us?' And right there is another station which mysteriously 'refuses to verify.'

"I would suggest another way. Send another report and don't mention the first letter at all. Just try to give all the helpful information you can. Then, if no verification is received, address a courteous note to the station manager or chief engineer. Call attention to the previous report and suggest that it must have been overlooked. Never send a sarcastic or abusive letter!"

Why The Three-Cent Stamp?

"The hobby of verifying distant stations is an interesting and informative pastime," comments David W. Jeffries, Program Director of

WHDL. "However, since the verification means infinitely more to the DXer who seeks it than the report does to the station, the postage bill of the confirmation at least should be borne by the DXer.

"The first courtesy on the part of the listener is to enclose a three-cent stamp with his report. In many instances, verifications become a strain on the exchequer of the station and for that reason reports are filed in the waste paper basket. At WHDL we verify all correct reports accompanied by postage."

Why Stations Don't DX

"I am afraid that the average DXer, in an effort to increase his log as quickly as possible, dashes off a report which gives barely enough information to get his verification—and lets it go at that. Broadcasters generally are getting fed up on the whole thing, especially when they get but two or three reports after spending so much time on a DX program. Many DXers refuse to DX, and even to verify. If DXers don't wake up and give some response, there will be no such thing as a courtesy program inside of two years. They will then have to be content with the FCC tests once a month and forget about DX for the rest of the month." (Name withheld upon request. AJP.)

"Ours was a new station in January 1935, and when we first began getting DX reports we were quite pleased. During the 1936 season, we did not get so many reports, and in 1937 it was still less. The reason for this was not that our coverage had changed, because we were still getting reports, but that listeners had already received a verification from our station and that was all they wanted. In other words, the radio station was putting on programs for a steadily-decreasing audience which had not heard the station before." Judge James R. Curtis. KFRO.

"It has been some time since we have requested reports from distant listeners, and we are not making any effort to build up this audience. Most high powered stations are trying to expand their primary coverage service area, and to do this we are installing antennas to suppress the high angle waves and concentrate our power in the vicinity of the transmitter." John M. McDonald, Chief Engineer, KTHS.

Above are listed a few of the many reasons why many stations do not go in for courtesy programs. In many instances, continued DX broadcasts may be assured if the average DXer will send in a card or letter advising stations that late programs were heard and enjoyed. Why not make a resolution this season to report all DX programs heard, regardless of the club to which they were dedicated? Let's help keep DX programs on the air for the younger DXers who are struggling along trying to build up their logs!

Thrill Band DXing

● ● ● *By Leo Herz*

MANY of the older DXers speak of short wave DXing as being inferior to reception on the broadcast band. In my brief experience as a short wave listener, I have found that it is just as hard to pull in the less-frequently heard short wave stations as it is to hear the prized hundred-watters on the broadcast band. In many instances it equals reception of a South American or Trans-Pacific station.

To have any degree of success on the short waves, it is necessary to pay particular attention to the antenna which is used, and especially the direction in which it is pointed. When a listener is able to erect

several aerials, it is advisable to do so. I have done this with excellent results.

My system includes two G. E. V-type doublets, one of which points in an East-West direction and the other North-South. The leads come in to the end terminals of a double pole, double throw switch, while the middle poles are connected with the receiver. Thus I am able to switch to either aerial with a minimum amount of effort. It is surprising to note the different intensity with which the two aerials will bring in any station.

Another important feature of short wave DXing is the care and skill shown in tuning for the many prized catches which are available. I will always remember the bit of advice which was given to me when I first started out on the high frequencies: "When tuning short waves, always tune very slowly. Fast tuning will frequently cause you to miss a low powered station."

Patience is also a great asset to the short wave dialer. It often happens that a swell catch comes through just when you are about to give up and call it a night. Two very memorable occasions stand out for me. Once I pulled in my first K6 amateur and another time I received my first European ham—both when I was ready to "fold up" for the evening.

The construction permit for WNRI Newport, R. I. has been retired to the closed files by the FCC. The permit has been in force since August, 1935, and was extended several times. The holder was not able to complete construction of the station. With cancellation of the WNRI permit, WTHT of Hartford becomes a full time station on 1200 kcs.

Special Frequency Checks

Special frequency measurements are made for a number of radio stations which are not checked on the regular government frequency measurements. These stations are monitored by the Commercial Radio Equipment Company of Kansas City, Mo.

We are presenting herewith a com-

plete, revised schedule of broadcasting stations serviced on after-midnight monitoring schedules by this company. The list is furnished by Herbert Steinmetz, Engineer in Charge of Frequency Measurements.

The time shown in this tabulation is all A. M., in Eastern Standard Time.

STATION	LOCATION	FREQUENCY	SCHEDULE
KTSA	San Antonio, Tex.	550 kc.	1st Monday morning of every month—1:00 to 1:15
WRR	Dallas, Texas	1280 kc.	1st & 3rd Tuesday mornings of every month—1:00 to 1:30
KLAH	Carlsbad, N. Mex.	1210 kc.	1st Tuesday morning of every month—5:00 to 5:30
KBTX	Muskogee, Okla.	1500 kc.	1st, 3rd, 4th, and possibly 5th Tuesday mornings of every month 5:30 to 6:00
KWOS	Jefferson City, Mo.	1310 kc.	1st Wednesday morning of every month—2:00 to 2:30
KWBG	Hutchinson, Kansas	1420 kc.	1st & 3rd Wednesday mornings of every month—6:30 to 7:00
KNOW	Austin, Texas	1500 kc.	1st Friday morning of every month—1:45 to 2:15
WACO	Waco, Texas	1420 kc.	1st Friday morning of every month—1:45 to 2:15
WPAY	Portsmouth, Ohio	1370 kc.	Morning of the 1st of every month—4:00 to 4:30
KSAL	Salina, Kansas	1500 kc.	1st Saturday morning of every month—2:30 to 3:00
WGRC	New Albany, Indiana	1370 kc.	Morning of the 6th of every month—3:30 to 4:00
KVGB	Great Bend, Kansas	1420 kc.	Morning of the 7th of every month—3:00 to 3:30
WPAD	Paducah, Kentucky	1420 kc.	Morning of the 7th of every month—3:00 to 3:30
WJAG	Norfolk, Nebraska	1060 kc.	2nd Friday morning of every month—1:30 to 2:00
KPOF	Denver, Colorado	880 kc.	2nd Friday morning of every month—2:15 to 2:45
KGEW	Kearney, Nebraska	1310 kc.	Morning of the 15th and 29th of every month—6:00 to 6:30
KADA	Ada, Oklahoma	1200 kc.	Morning of the 25th of every month—2:45 to 3:15
WBZB	Ponca City, Oklahoma	1200 kc.	Morning of the 29th of every month—6:00 to 6:30
WSUI	Iowa City, Iowa	880 kc.	Wednesday morning preceding the 1st Saturday morning of every month—1:30 to 2:30

A New Zealand Salute

The annual DX program from WJAG Norfolk, Nebr. will be broadcast on Friday, Nov. 12, from 1:30 to 7:30 a.m. EST (0630 to 1230 GMT the same day; 6 p.m. to midnight the same day in New Zealand).

Dedications will be made to RA-DEX and a number of DX Clubs. In this broadcast will be incorporated the annual WJAG salute to New Zealand, and DXers there are asked to spread the word around.

This station also broadcasts short monthly DX programs, on the second Friday morning of each month from 1:30 to 2 a.m., EST.

This information was forwarded to us by Art Thomas, Manager of WJAG, which transmits on 1060 kcs with 1000 watts.

Bob Burns is planning ceremonies appropriate to the observing of the 30th anniversary of the bazooka. The original instrument (sic), composed of two pieces of gas pipe and a whisky funnel, cost 15 cents and was made in Van Buren, Ark., otherwise famous as Bob Burns' birthplace. The contrivance works on the principle of a trombone, only the music (!) goes out straight instead of 'round and 'round.

Powell Crosley Jr., president of WLW, Cincinnati, announced that the station will build a new million-dollar broadcasting center on Clifton Heights overlooking the city. The structure, five stories high, will contain twelve studios, including one that will accommodate audiences of 600.

Universal DX

Club Corner

• • • By "Pooky"



THE first letter we received on the subject of Vertical Antennas, inspired by our article last month, just made our blood boil. A gentleman from the Bronx (we believe it's somewhere in New York State) told us flatly that there was no such thing as a light, strong pole 35 ft. long. Ha, ha!

We packed a light lunch the other day and went out into the woods around Oradell, N. J., and along toward dark, we found one. Yes, we mean a light, strong pole 35 ft. long! It was a swamp maple sapling, measuring not more than 5 inches at the base, perfectly straight, and a good 35 ft. long. We didn't have an axe so we carved our initials in it, and put a little heap of pure white stones beside it, and we here and now offer it as a super-special prize in our mysterious contest. If you win it, you can chop it. It's there—and we mean a light, strong pole 35 feet long! We'd like to offer to send it you post-paid, like the rest of the prizes, but, of course, what other objections have you gentlemen to Vertical Antennas? Gosh.

Well this time, pending the arrival of more letters on the subject, we have a thumbnail sketch to present. Mr. Joseph J. Becker, Sr., of 415 South Eleventh St., Hamilton, Ohio—"The Hamilton Night Owl" him-



Twenty-five year old Thomas Llynwly Thomas, who just made his debut at the Metropolitan, now has a big-time radio program. He is soloist of the Maxwell House Show Boat Program heard Thursdays on the Red Network.

self—has sent us quite a long letter toward one of the prizes. We've had to condense it considerably but we think you'll get the point. The title is ours, and we want you, and Mr. Becker, to understand that it's strictly complimentary. We always look at a real DX'er with bewilderment and awe. And, ladies and gentlemen, this is a real DX'er!

Portrait of a DX Nut

" . . . I arise almost every morning at 2:30 AM. One time for sixteen whole months I missed only two mornings . . . I keep my verifications in tin boxes and altogether have about three thousand letters and cards from radio stations on the Broadcast Band. I try to get at least two verifications from each station I hear. Altogether I have heard 1081. Of these I have verified 1080. The exception is CRCY at Toronto, Canada . . . Back in

1931 I helped organize a radio club known as the Interstate Radio Club, but it lasted only a year. Then I joined the Atlantic Radio Club, and that also broke up. But then I joined the National Radio Club, and for the past three years I have been Vice-President of it. (Pooky says: NRC please reciprocate in re publicity et al) . . .

I DX on the BCB all through the summer. This year I heard three new stations in June, six in July and two during the first part of August . . . I have won quite a few prizes in reporting DX broadcasts, and have heard selections played for me over the air by more than a hundred stations, but greatest thrill was catching TJW, a 7½ watt station in the Bermuda Islands . . . I heard WPAX at Thomasville, Georgia, come on the air for their first frequency check in December, 1935, and since then I have missed their frequency checks only twice. I have sent them thirty-one reports . . . I also collect stamps."

Well, Congratulations, Mr. Becker, Sr. You're crazy and like it, and we like it. That kind of craziness is the keystone of DX, and where would DX be without it? Where would WPAX be without it?

Mr. Becker, incidentally, being a stamp collector from 5 PM to 2.30 AM, selects that Zeppelin Cover as his first choice in the way of a prize. That doesn't mean that he gets it, of course. If you want it, and write a better article, you get it. But so far he's way ahead of you.

You know, there's a contest running in this space. You write a short article on any phase of DX and send it to "POOKY", at the Universal DX Club Headquarters, at 345 Maple Ave., at Orodell, N. J., and if "Pooky" prints your article you win a mysterious, but absolutely genuine, prize. There's a Philco aerial

waiting for a winner, and a typist's kit, and 25 Indian head pennies—and a photograph of something that will knock your bally eye out, you know.

Better get busy.



B. A. Rolfe, robust and amiable band-leader whose smart tempos are heard over the NBC shortwave station W3XAL every Friday at 9 pm EST, together with "Believe—It—Or—Not" Bob Ripley.

Biographical notes on B. A. Rolfe, veteran maestro who provides the music background for the Bob Ripley broadcasts: The B. A. stands for Benjamin Adolphus . . . He is the son of A. B. Rolfe, himself a noted bandmaster a generation ago . . . B. A. at six was playing the piccolo . . . At ten appeared as trumpet soloist with Sousa's Marine Band . . . At 11 toured Europe, the boy wonder on that instrument . . . Organized his first band at 20 and has been conducting more or less ever since except for interludes as a vaudeville and motion picture producer.

RADIO—Salvation of Aviation

• • • By JACK SIRINGER

ALL of us, undoubtedly, recall the flood disaster of last spring and how distinguished a role the field of radio played in saving the lives of many of those in the stricken areas. This, however, is but one phase of radio's remarkable assistance in preventing loss of life. The airports, for instance, with their modern audible radio beam arrangements prevent many casualties in directing the pilot to the landing field. It is safe to say that the success of modern flying has been greatly enhanced by the utilization of the radio beam.

A trip to the Cleveland Airport, the largest in the world and home of the National Air Races, will clearly illustrate to one the great importance of radio in the field of aviation. Mr. Trudeau, Senior Operator, gave the writer a very clear picture of the radiating tower system, of the Cleveland beam, which is the latest development of the Bureau of Air Commerce. Approximately one hundred planes follow the beam daily—seventy-five of which are scheduled transports and the balance, general and private ships.

There are five transmitting towers, each 180 feet in height. WWO, used for weather transmissions, works on 236 kilocycles, employs 200 watts power and is located in the center of the antenna arrangement. Located at right angles 300 feet each from WWO, are the other four towers, each radiating on 244 kilocycles and employing one kilowatt power. The latter four towers can be said to work in pairs. The northwest and southeast towers transmit DASH-DOT (the letter "N" in Morse), while the northeast and southwest towers transmit DOT-DASH (the letter "A").

These dots and dashes are transmitted continuously for a period of several minutes, after which the station identification is given. This signal consists of the letters "CV" in Morse, which advises the pilot frequently that he is following the correct beam. This service is continuous throughout the twenty-four hours.

All the equipment used by the airport is remotely controlled by the dial system which enables the operator to put it into or out of operation whenever necessary. The transmitters, of course, are all crystal controlled with 100 per cent modulation, and under the worst possible conditions have a coverage of at least 100 miles. In the case of an emergency, there is a two kilowatt spare transmitter which can immediately be placed into service.

A pilot heading for Cleveland always flies to the right of the beam he is following. If the ship gets "off course" so as to be between two beams he will receive one long dash—the transmitters being wired so that two dots and two dashes will merge into one long dash.

It is also possible for the pilot to determine his almost exact location by comparing the signal strength of the beam he is following and that of the beam to his left. There is no danger of his being misdirected by beams from other airports because other beams in the Cleveland vicinity radiate on other frequencies.

Weather Forecasts

For those of you who are interested in meteorology, WWO broadcasts weather reports and forecasts on the hour, 10, 31 and 50 minutes after the hour. Many of you, how-

ever, will not be able to take advantage of this service, inasmuch as very few of the modern receivers are equipped with the so-called "X" band.

The Globe Circlers DX Club

• • • By Carl Eder

THE Globe Circlers DX Club, Inc., does not confine its service to the supplying of just DX news for its members. One of its principal aims is the creation of a better understanding between the average DXer and the broadcaster. To do this, we ask staff members of various radio stations to write short articles on how to obtain better co-operation. Their hints, suggestions and comments take up one or more pages of our club bulletin, *The Hot Spot*, each month under the title, "The Man Behind the Mike."

We believe that the adoption of a new, copyrighted report form has been a progressive step. In the opinion of radio stations to which copies have been sent, they are better and more useful than the average. These forms simplify the work of the DXer and furnish much valuable information to the station to which they are sent. Frequently they bring verifications from broadcasters which normally are classed as "hard to verify." The use of these forms is not compulsory, but the majority of the members have been quick to realize their value and now use them freely.

In an attempt to satisfy the tastes of every DX fan, we conduct in every bulletin sections which are devoted exclusively to the broadcast, short wave and amateur bands. Also, we maintain a SWL Card Exchange Bureau which furnishes QRA's to all

members who may be interested in this side line of the hobby.

We also publish many interesting letters and reports from our members, which give a survey of receiving conditions all over the country. Another feature is the running of frequent DX contests with valuable prizes for the winners.

The club has been completely reorganized and is now incorporated. A Board of Directors has charge of all club activities and acts on all questions of policy.

At all times we endeavor to live up to our motto, "The Friendly All-Wave Club." We are glad to work with other DX organizations on a reciprocal basis, exchanging DX news of special transmissions and other items of importance to the average DXer, and we appreciate their willingness to co-operate.

Armistice Day

(Continued from p. 14)

A Laboratory of Spain

On the other hand, war correspondents tell us that European powers have been quick to take advantage of the Spanish war. We are told that new equipment is being tried out continually under the supervision of foreign military experts. We learn that the Loyalist side has been aided by secret weapons which are operated by Russians and then returned to Moscow with reports on their effectiveness. Perhaps among these are the robot tanks, the "black ray" devices and the other weapons which make use of wireless waves.

Radio has been a wonderful force for humanity as the layman knows it today, but scientists are convinced that it can become a terrible engine of destruction.



SOME old-timer once made a crack about "biting the hand that's feeding you," and that line has been quoted pretty freely ever since. Latest hands to be bitten are those of a couple of Baltimore NNRCers who have been performing a rather notable service for their fellow listeners.

In case someone hasn't heard, the British Broadcasting Corporation politely refuses to issue verifications. The reason for this stand—that complete program details are released several weeks before a broadcast—is logical. But that doesn't help the DXer who would like a verification from the Daventry short wave station or one of the 16 medium-wave stations under BBC control.

Accordingly, Carroll Weyrich and B. L. Ahman, Jr., of the NNRC Baltimore chapter, decided to monitor certain Daventry programs. Complete logs were made of specified broadcasts and listeners were notified in advance of the programs which would be checked. DXers desiring verifications could send a report and a small fee to Mr. Weyrich. If the report was correct, a verification card was mailed to the listener.

Of course, the idea was by no means new. Radio clubs and individual DXers have in the past checked broadcasts of domestic stations and issued verifications. But this was probably the first time

that a regular schedule had been worked out. Also, it was the first time that a foreign station had been monitored.

Needless to say, NNRCers Weyrich and Ahman deserved a lot of credit for their willingness to give this service. Gladly they gave their time for the sole benefit of other listeners. The small fees charged could hardly reimburse them for the cost of the cards, so they probably dipped into their own pockets to balance the budget.

As might be expected, the idea has backfired. The BBC got the idea that something was being put over on them. A verification not issued by them must be a fake or a forgery. Immediately they wrote Mr. Weyrich, insisted that he stop his service at once, demanded that he forward to them the rest of his cards so that they could be destroyed.

Naturally, since Daventry had originally refused to verify reception, no one has been very sympathetic with their latest stand. Had Weyrich and Ahman misrepresented their cards, had they claimed any official connection with the BBC or purported that they were acting for the station, the protest would have been justified. But since there was no attempt at deception and as listeners realized full well that the verifications were not official, the stand of the BBC and the support of its yes-men is rather inane.

Another critic has called attention to a possible boomerang which may come from this service. It is pointed out that if listeners will shoulder the responsibility of verifying reception of one station, then it won't be long before other broadcasters will decide to forego verification trouble and expense, and put the burden entirely on the DXers. Naturally, such a reaction would be disastrous to short wave and broadcast band enthusiasts.

Frankly, it hardly seems possible that many stations would ever go to that extreme. Experience has shown that most broadcasters are glad to receive mail from listeners and, while it is true that short wave stations are perhaps harder to verify than stations on the broadcast band, the high frequency broadcasters which now confirm reports will probably continue this estimable practice.

Perhaps the greatest danger which faces the verification practice is the refusal of some listeners to submit reports worthy of consideration. Sooner or later, inconsiderate DXers may alienate the goodwill of station officials, and then the problem of obtaining veries may become acute.

But at present the efforts of listeners to secure confirmations from non-verifying stations seems to present no great danger. And the publication which fails to consider the interests of its readers by condemning such efforts, is surely gnawing the digits which supply cakes and coffee.

How Hi Is Enough?

Once upon a time, back in the early days of wireless, or perhaps it was the telegraph, a lazy operator conceived the idea of condensing the mother tongue. Balked by the intricate task of pounding out long strings of dots and dashes, he began to abbreviate the longer words.

Pretty soon he had a more or less accepted lingo which could be understood by other operators.

Up to that point, he had a good idea. With a minimum amount of effort, he was able to carry on a fairly intelligent conversation. He conserved energy and speeded up his transmitting.

But along came the wireless telephone and the older operators continued to use their abbreviated lingo. Attracted perhaps by a certain glamour and anxious to show their spurs, the younger operators—particularly the amateurs—were quick to pick up the lingo, and soon the ham bands were full of QRA's, 73's, FB's and the like.

Even then there was no definite objection to the custom. Of course, a QSO between a couple of VFB hams was rather uninspiring es dull, but no one expected to hear Boake Carter without a box top.

The real rub came when the op wanted to laugh. Instead of a hearty chuckle or a boisterous ha-ha-ha, he gave vent to a lowly Hi! While it is granted that a couple of ho-ho's might be exceedingly difficult to pound out in Morse, the availability of a xtal mike should have provided an outlet for his humor. But he preferred to hi and thus established a dangerous precedent.

And so we come to the DXers who have had the misfortune to listen to an amateur and who have decided to ape his mannerisms. We find letters ending with vy 73 and unfunny jokes accentuated by tiresome hi's. A recent issue of a radio club bulletin showed no less than 13 hi's on seven pages—and three of the pages were devoted to station schedules.

Therefore it is proposed that self-respecting DXers join up in our new Anti-Hi Society. No dues, no fees—nothing except a high resolve to hie away from lowly hi-ing. Listeners

who insist on hi-ing will be convicted of hi treason and dropped from the top of the hi-est building.

Miscellany

News flashes are broadcast from international shortwave station W3XAL at Bound Brook, N. J. in six languages. Following is the schedule of transmissions, with time in EST:

English, 6100 kcs.

11:10 pm, EST Sunday.

English, 17780 kcs.

9:30 am, Thursday

9:40 am, Monday, Tuesday, Wednesday, Friday, Saturday

11:00 am, Sunday

5:00 pm, Monday, Tuesday, Thursday, Friday, Saturday

5:15 pm, Wednesday

6:30 pm, Weekdays.

French, 17780 kcs.

Noon, Monday, Tuesday, Wednesday, Thursday, Saturday

3:00 pm, Weekdays

5:30 pm, Weekdays

German, 17780 kcs.

4:00 pm, Monday, Tuesday, Thursday, Friday, Saturday

4:30 pm, Wednesday

5:30 pm, Weekdays

Italian, 17780 kcs.

2:00 pm, Weekdays

Portuguese, 17780 kcs.

7:15 pm, Weekdays

Spanish, 6100 kcs.

9:25 pm, Sunday

10:00 pm, Wednesday, Friday, Saturday

10:30 pm, Monday, Tuesday, Thursday.

Spanish, 17780 kcs.

7:00 pm, Weekdays.

Canadian Improvements

Expectations that the Canadian Broadcasting Corporation's two new 50,000 watt transmitting stations at Vercheres, Quebec, and Hornby,

Ontario, will be in operation well before the end of the year were strengthened following a report that construction and installation work at both points are progressing satisfactorily. Architects, contractors and construction crews are working at top speed on the plants which, when in readiness, will be the most modern and scientifically correct on the continent.

The beginning of the new Canadian broadcasting season on October 3 marked the start of a twelve hour daily service to CBC stations, and a change in call letters of three Corporation-owned stations.

This information reached us too late to make the changes in all our indices. Station CRCO Ottawa becomes CBO; CRCW in Windsor is now CBW; and CRCV Vancouver becomes CBR. Other changes in Canadian call letters will be effected later in the year.

The two stations, CBF, Vercheres, and CBL, Hornby, both of which will obtain much improved coverage in the two provinces and which will provide dependable reception day and night, will represent part fulfillment of a CBC program of construction designed to give Canada a more complete broadcasting service. It is anticipated that within the next few years other high power stations will be erected, one in the Maritimes and another in the West.

The main tubes to be used in the transmitters will be 100 kilowatts each and will be the largest used in radio broadcasting in North America. The heat from these powerful tubes, after being removed from the transmitter by means of an air blast through a special radiator system, will be used in heating the buildings.

DX News Periods

KLS, Oakland, Calif., 1280 kcs, broadcasts a program known as "DX News" every Saturday night from

9:45 to 10 pm, PST. The programs are written by Charles C. Norton, as was the former KGGC program "Good Ship DX." Other radio clubs are invited to share their news items with the URDXC on the KLS program. All items for DX Club Broadcasts, to be transmitted over four radio stations, should be addressed to Charles C. Norton, 225 Pier Ave., Hermosa Beach, Calif.

Ed. Worthington's Aerial

After reading the article on aerials in the September, 1936, issue of RADEX, I determined to do a little experimenting on my own. I had on hand several short lengths of 7-strand No. 14 enameled aerial wire, so I soldered them together and one afternoon when Germany was coming in nicely (clear but not loud) I laid this length of wire on the floor, disconnected my doublet and hooked on the makeshift wire. The result was astonishing for the volume was more than doubled.

My results with this old wire were so good that I decided to make it a part of my permanent antenna system. At the foot of our garden is a wooden pole about 15 feet high, and the wooden eaves-trough on the house is about the same height so I strung this wire between them, then through an insulated lead-in strip under the window, to the set. The length of wire is 35 feet; lead-in is five feet; height above ground 15 feet; direction is northeast by southwest, and the lead-in is taken off the NE end.

My reception on this aerial has included, to the south, anything between Buenos Aires and Mexico. From Europe, England, France, Netherlands, Spain, Portugal, Germany, Italy, Czechoslovakia and Bulgaria have been heard. Australia, Tahiti and Tashkent in the Soviet

Union have been logged to the west and southwest.

—BC—

A Combination Offer

The Universal Radio DX Club and the Quixote Radio Club offer a combination membership in both organizations for \$1.60 per year. Membership includes all copies of the "Universalite," all-wave magazine, and the "Short Wave Reporter," published five times a month during the DX season. All inquiries concerning this offer should be addressed to Charles C. Norton, 225 Pier Ave., Hermosa Beach, Calif.

Station WAPO at Chattanooga, Tenn., has been granted a license authorizing them to work unlimited time with 100 watts night and 250 watts daytime on 1420 kcs. WAPO was formerly licensed for daytime operation only.

Alan Hutchison, Editorial Secretary of the New Zealand DX Radio Association, requests that we add to their listing in the Radio Club Roster, the information that the Association publishes "Tune In," a bulletin issued eleven times a year. "Tune In" is supplied to members for one shilling, or twenty-five cents per year.

After an absence of two years, the "Demon DXer," George Nahas, 147 Seeley St., Brooklyn, N. Y., has returned to the fold. He is now using a Grunow 1291 all wave receiver and reports very good reception of most of the foreign s. w. stations. He announces that he tunes daily from 7 to 9 am., and from 6 to 11:30 pm, and all day and night on Saturday. He would like to hear from all foreign DXers and promises to answer all letters.

The SHORTWAVES at a Glance

COMMENCING with this issue, we have assigned to each person submitting a report on shortwave reception, a characteristic symbol, consisting of the letters RX (for RADEX) followed by a number. This idea is not original by any means, as it is the method used originally by the New Zealand DX Radio Association, but we have adopted the system so we may give credit for every report submitted to us without breaking up the feature articles with frequent repetitions of names and addresses. The names and addresses of all those who report in each issue will be given at the end of the general article.

The letters RX without the numeral are assigned to Headquarters, and numbers 1 through 5 are given to members of our staff. RX6 through RX20 are Honorary numerals assigned to readers who have performed some distinguished service for RADEX.

The first person to send us a report after we decided to adopt this system was Anthony C. Tarr of 909 W. Lee St., Seattle, Wash., so to him goes number RX21.

Bulgaria

LZA Sofia, 14920 kcs, is heard broadcasting musical programs between 4:15 and 4:45 pm EST at R4-5 volume.

Canada

CFA5 Drummondville tests daily in the mornings and evenings. This is a Canadian Marconi Company station and generally these stations do not desire reports. It is believed, however, that reports on test transmissions will be acknowledged. (RX22).

Canary Islands

Listeners who need Africa to hear all continents should try for EAJ43, 10370 kcs, in the evenings. This station is putting a very good signal into every part of the country, between 8 and 9 pm EST. (RX21-31).

A station announcing as "Radio Nacional de Espana" was heard giving news reports on the Spanish conflict in German, Spanish and English, on the same frequency as EAJ43. These transmissions preceded regular EAJ43 transmissions. Our reporter believes the same transmitter was used for "Radio Nacional" and EAJ43. (RX22).

Chile

There is a new Chilean station transmitting near 11830 kcs, relaying CB138 programs. The call letters and exact frequency are not known.

CB615 on 12295 kcs. relays the programs of CB144. CB615, "Radio Service," is owned by Cesmaras y Cia., Casilla 761, Santiago de Chile.

Programs of CB69 are relayed by CB1190, La Voz de Valdivia, Radio Sur, Valdivia, Chile, from 10 am to 1 pm and from 7 to 10 pm EST. It is not known for sure if the call letter is CB- or CD-.

CB89 programs are rebroadcast by shortwave station CB1170, 11700 kcs, from 10 am to 2 pm and from 3:30 to 11 pm EST. The owner is Otto Becker, Ahumada 113, Santiago de Chile.

China

XGOX suspended its broadcasting activities, as did most of the Chinese stations, when Japanese armies came too close. It is hoped XGOX was not destroyed when Nanking was demolished by aerial

bombs, but we are afraid this station no longer exists.

Colombia

HJ3ABD on its new frequency of 4850 kcs. is one of the best South Americans on the air at the present time, despite the high noise level on this comparatively low frequency. HJ3ABD, "Colombia broadcasting," transmits between 7:30 and midnight. The address is Apartado 509, Bogota. (RX22).

Radio "La Voz de Pereira" has changed its call letters from HJ4ABU to HJ6ABA.

HJ1ABP on 9618 kcs is one of the best signals on the 31-meter band at this time. "Radio Cartagena," as it is known, transmits with 750 watts from 5 to 11 pm EST. (RX22).

Cuba

Verifications from COBZ come on picture post cards, each card showing a different view of the city of Havana. The frequency is given as 9030 kcs, "Radio Salas," P. O. Box 866, Havana. Programs of CMBZ, 1000 kcs, are transmitted.

A double-folder post card showing Cuban views is sent to s.w. reporters by COJK Camaguey. Known as "Radio Zenith," this station transmits on 8665 kcs., relaying CMJK, "El Camagueyana." The address is Finlay 3, altos.

COGF, 11800 kcs, according to their card, relays CMGF, Radio Emisoras, Playa 51, Matanzas. The schedule is 1:30 to 4 pm and 6 to 10 pm EST. (RX32).

COBC has officially given their frequency as 9365 and 9330 kcs, but most recent cards show the 9330 kcs frequency. CMBC, El Progreso Cubano, Apartado 132, Havana, is relayed.

COCW, 6330 kcs, relays programs of CMW, Havana.

Czechoslovakia

Shortwave listeners may receive program folios from the Prague

stations for one year if they send six International Reply Coupons to cover mailing costs. Folios are issued once a month, printed in English and Czech, and illustrated with views of the country. The address is Praha Shortwave Station, Praha XII, Fochova Tr. 16.

OLR4A on 11840 kcs has a very good signal on its evening broadcasts from 7 to 9 pm, and OLR5A is heard at R8 in the mornings, 9:30 to 11:30 am.

Denmark

The Danish shortwave station is operated by a government monopoly, the Statsradiofonien, Tordenskjoldsgade 3, Copenhagen. This address is furnished by the U. S. Commercial Attache of that city.

Dominican Republic

HI2X, Ciudad Trujillo, 11960 kcs, broadcasts on Sundays from 7:40 to 10:40 am, in addition to their Tuesday and Friday broadcasts. (RX32).

Ecuador

The mailing address of station El Prado is Fabrica de Tejidos de "El Prado," Apartado 98, Rio Bamba, Ecuador.

HC1EC, Quito, was heard on 8600 once.

El Salvador

Anthony Tarr, (RX21), has cleared up the Salvadorean situation. There are three frequencies in use, YSD on 7894 kcs, YSH on 9520 and YSM on 11710 kcs. They all relay programs of YSS, and are owned by the National Broadcasting Company of El Salvador. YSD transmits from 9 to 10:30 pm EST according to announcements, but it is not heard every day. YSH and YSM test irregularly.

As this article is being written, a letter comes from Carl Martin, 701 Kearney St., Atchison, Kans., reporting that he has a verification from Salvador. The verification is quoted here in full: "We have

pleasure to confirm your reception of our radio station YSM testing in a frequency of 11710 kcs at 8:30 pm CST Aug. 22nd. Thanking you for your valuable report, I am, yours truly, Victor M. Escobar, Director Gen. TT. TT. y Radio Nacionales."

Fornosa

Station JIB, 10530 kcs, Taihoku, Taiwan, relays JFAK daily from 9 to 10:30 am. A strange station is also heard on 9630 relaying JFAK programs from 4:30 to 10:30 am, with news in English at 4:55 am EST. (RX21).

Germany

After the shortwave lists were set in type additional information was received from Germany concerning the Asiatic broadcasts from Zeesen. The schedules are correct as shown in our lists except for the stations carrying the Asiatic programs. This schedule is given below:

From five minutes past midnight until 11 am, EST, stations DJA, DJB, DJE and DJN are used.

From five minutes past midnight until 5:45 am the programs are broadcast over DJQ, and this same frequency is employed for the transmission from 8:10 until 11 am.

Hong Kong

ZBW in Hong Kong continues to come through, with an R6 signal on the west coast. The best time for reception is at about 7 am EST. ZBW3 on 9525 kcs, 2500 watts, is on the air daily except Saturday between 4 and 10 am.

Irish Free State

On the recommendation of an inter-departmental committee, the Irish Free State Department of Posts and Telegraphs has decided to build a shortwave radio station for its broadcasting service.

Japan

The four best Japanese stations,

all of which can be heard nearly any morning, are JVN, 10660 kcs, JVM, 10740 kcs, JZJ on 11800 and JZK on 15160 kcs.

Manchukuo

JDY, 9925 kcs, Dairen, Kwantung Providence, relays JQAK daily from 7:15 to 8 am. The address of this station is Manchuria Telephone and Telegraph Co., 7 Oyamagori, Dairen, Kwantung, Manchukuo. (RX21).

Martinique

Radio Fort de France is coming through again with very good R7-8 signals. It is heard on 9690 kcs. (RX22).

Mexico

Samuel A. Meyer of Rochester, N. Y., visited the studios of XEW and XEWW while in Mexico City last summer. "Their fine RCA transmitter, plus a complicated but efficient directional antenna system on the shortwaves, accounts for the great volume with which this station is heard in northeastern United States. The young engineer, Heinz von Hemken, was at the transmitter when we were there and showed us all around the place. XEW is located on the Calzada Tlalpan-Cuernavaca, ten miles south of Mexico City proper."

Verifications from XEWW show their frequencies as 9500 and 15150 kcs, with 10 kw. power. They relay XEW, Apartado 2516, Mexico City.

XECR verifications show their frequency as 7380 kcs, with 20 kw.

Panama

HP5J of Panama City announces that they are using three kilowatts now, and that they are transmitting special programs for USA listeners every day from 1 to 1:15 pm and from 7 to 7:30 pm EST. George Williams conducts both programs in English. This station is conducting a contest and is giving as prizes, a thirty-day round trip to Panama City with all expenses paid, and a 1938 Philco

11-tube receiver. For contest particulars interested persons should write to Mr. Williams, Box 34, Panama City. (RX25).

HP5A, Panama City, on 11700 kcs, has no regular schedule but can be heard between 9:30 and 11:30 pm EST. The address is Box 954. (RX27).

Peru

OAX4Z shows its frequency as 6082 on the verification card, although it is actually heard on 6077. Listeners should tune just below W9XAA to hear it. This station, using 10 kw power, announces as "Radio Nacional." The address is Av. Petit-Thouars 447, Lima. (RX21).

Siam

HSSPJ Bangkok is now on 9510 kcs on Mondays and Thursdays from 8 to 10 am. (RX21).

Switzerland

The Geneva-League of Nations station HBL on 9345 kcs broadcasts news items daily except Saturdays from 7:30 to 7:45 pm, it was announced recently from the station. (RX32).

Union of South Africa

It is planned to increase the power of the Johannesburg s.w. station to 5000 watts, according to Samuel H. Day, American Consulate Attache.

ZSR in Capetown, 9180 kcs, was heard calling London from 1:54 to 2:05 pm EST. Signals were QSA4, R4-5.

U. S. S. R.

Some time ago the Soviet stations announced that attractive books showing progress in the Soviet Union would be sent to listeners accurately reporting their stations. Jack Siringier of Lakewood has one of the books and we were permitted to see it. We assure our readers the book is very much worth while and every one should have one. Printed in several colors and beautifully illustrated with fine pho-

tographs, it shows in pictures the remarkable strides that have been made in improving living and working conditions in the several Republics.

United States

W2XE of the Columbia Broadcasting System will soon transmit on 9590 kcs.

Schenectady's two short-wave stations, W2XAD and W2XAF, both now operate part of the time with beam antennas directed toward South America. W2XAD on 19.56 meters operates from 11 a.m. to 6 p.m., EST, with a beam directed toward Europe; and from 6 p.m. to 9 p.m. with Buenos Aires, Argentine, as the center point of its beam. W2XAF, on 31.48 meters, operates with a non-directional antenna from 4 p.m. to 6 p.m. and from 6 p.m. to 12 o'clock midnight with a beam directed toward South America, with Buenos Aires the center point. This change should considerably improve broadcasting to the South American countries.

The American Telephone and Telegraph Co. was granted a license for five new telephone stations to communicate with Paris and London. The stations, all located in Ocean Gate, N. J., and using 20 kw, are:

WDI, 5032.5 kcs, WDJ 7565, WDL 9750, WDO 14470 and WDP 19220 kcs.

The Southern Pacific Co. was granted a construction permit for two new special emergency stations, one to be located at Norden, Calif., and the other, a mobile transmitter, to be situated near Emigrant Gap, Calif. The Norden station will use voice on 2726 kcs with 500 watts, and the mobile station, working on the same frequency, will have 50 watts power.

Apex station W9XAZ, Milwaukee, WTMJ affiliate, transmits daily be-

tween 1 pm and midnight, employing 500 watts in the aerial (RX32).

A complete listing of the Police Stations of North America was printed in the September issue of RADEX and changes and additions to this list are shown in this column every month. Changes which have occurred since our October issue are shown below.

New Police

1.634	WSPI	Portable—Mobile in Indiana (.06)
1.658	KSPT	Pecos, Texas (.5)
1.682	KADJ	Sacramento, Calif. (.1)
1.712	WMPB	Brockton, Mass.
2.382	WMPM	Montgomery, Ala. (.5)
2.450	WMPD	Waukesha, Wis. (.1)
2.490	WASC	Peru, Ind. (.05)
	WBVV	Bluefield, W. Va. (.05)
	WMPG	Greenville, Miss. (.05)
	WMPV	Valparaiso, Ind. (.05)

WPHS, on 1.634 megs., has moved to Chesterton, Ind., from Culver.

WQFQ in Lafayette, Ind., moved to 2.490 megs. from 2.442.

Uruguay

LR3, "Radio Belgrano," Buenos Aires, is relaying its programs through CXA8, Colonia, Uruguay, which is working at present on 9640 kcs. Programs are from 7 am until midnight, EST.

Venezuela

YV4RB, 6520 kcs, Valencia, can be identified by musical chimes, followed by a very short piano selection, then chimes again.

YV6RC, Ciudad Bolivar, on the Orinoco River in Venezuela, transmitting on 6420, is best heard at 7 pm EST. (RX27).

The Effie M. Morrissey

Station W1OXDA, portable-mobile transmitter on board the schooner Effie M. Morrissey, works on six commercial frequencies, as well as in the 20-meter amateur band. This station, licensed for 100 watts, employs frequencies of 6425, 8655, 12862, 17310, 23100 and 27100 kcs. The Effie M. Morrissey cruises in Davis Straits and Baffin Bay, touching Greenland several times during

her voyage. The operator is Clifton Foss, amateur owner of W2OJ. Reports should be addressed to W2OJ, 8214—11th Ave., Brooklyn, N. Y.

Correspondents

"I would like to correspond and exchange cards with DXers in any part of the world. I am 18 and have been interested in s.w. DX for two years." Leonard D. Hubbard, 17 Patten Road, London, SW18, England.

Two young men from Yale, Mich., wish correspondents, especially from Hawaii, and even more especially, from YL's over 18. Young ladies and Hawaiian Islanders, address either E. Eugene Toole, 304 North St., Yale, or Carl E. Sylvester, Box 213, Yale, Mich.

"I am 17 years old and have been DXing for two years with a 6-tube RCA, listening on all bands. Will correspond with anyone." T. D. Smith, Box 744, Burnet, Texas.

George Nahas, 147 Seeley St., Brooklyn, N. Y., wants corries, and Jack B. Horner, 462 N. Market, Elizabethtown, Pa., wants to exchange SWL cards.

Reporters

The following submitted information for this column this month: RX21, A. C. Tarr, 909 W. Lee St., Seattle, Wash. RX22, Jack Siringer, 1451 Lincoln Ave., Lakewood, Ohio. RX23, Carl and Anne Eder, Pouch A, Wilmar, Minn. RX24, Sgt. A. W. Brummond, Box 56, Ft. Douglas, Utah. RX25, George Nahas, 147 Seeley St., Brooklyn, N. Y. RX26, Carl Sylvester, Yale, Mich. RX27, Raphael Geller, 1652 Radcliff Ave., Bronx, N. Y. RX31, Guy R. Bigbee, Hq. Co., 66th Infantry, Ft. Benning, Ga. Jack Welsh, Kingston, Ill. J. E. Gardner, 1839 E. 97th St., Cleveland, Ohio. R. J. Naber, Louisville, Ky. T. D. Smith, Box 744, Burnet, Texas.

Has Radio Gone HIGH-BROW?

••• By "BETTY"

JOHAN B. KENNEDY is the spokesman, Erno Rapee the conductor, and Milton Cross is again the announcer of the General Motors Concerts, which this year feature a permanent Concert Company of eight world famous vocal artists.

The programs are broadcast Sunday evenings from 8 to 9 p.m. EST over a nation-wide hook-up of the NBC-WJZ (Blue) Network. Carnegie Hall—hallowed temple of fine music in New York City, is again the originating point.

Erno Rapee, dynamic and tiny conductor who for two years has been permanent conductor of this leading radio hour of good music, is again on the Carnegie Hall podium. He conducts the 70-piece General Motors Symphony Orchestra, which in four years has been accorded a place with the world's greatest symphony orchestras. All of its members have worked under the baton of Arturo Toscanini.

Mr. Rapee is also the leader of the permanent General Motors Concert Company. In this Company, to sing for these concerts and no other programs, are such great voice personalities as Grace Moore, Maria Jeritzta, Helen Jepson, Richard Tauber, Joseph Schmidt, Donald Dickson, and Europe's two most sensational vocalists, Miss Erna Sack, soprano, and Jussi Bjoerling, leading tenor of the Stockholm Royal Opera.

Miss Sack's coloratura voice, brought to the United States by General Motors as part of its new plan, is said to be the highest in range of modern times—some say of all time. Bjoerling has been lavishly praised and is expected by many critics who have journeyed to Stockholm to hear him to be the



Judy Garland, youthful screen singing star of the Columbia Broadcasting System.

outstanding new musical feature of the coming American season.

Scientific Parade

John B. Kennedy's addition in the so-called center spot of the hour-long General Motors programs will bring to the predominantly musical pattern a new feature of wide topical interest. He will tell of the exciting, sometimes almost breath-taking, discoveries in science and kindred fields under the title "Parade of Scientific Progress."

Great American Trouper

Phil Baker, broadcasting from Hollywood, resumes his comedy programs over the Columbia Network as the "Great American Trouper" on Sundays at 7:30 p.m. EST. He is as-

sisted and heckled at the microphone by Patsy Kelly, Al Garr, Bottle, Oscar Bradley, Beetle and the Earl Towner Singers.

The accordion-squeezing comedian, as one of radio's most restless stars, lives up to his new air title of "Great American Trouper." For years before turning to the networks, Baker travelled the length and breadth of the land as a vaudeville headliner and star of many revues. Once he took up radio, Phil started on the air from Chicago, moved to New York, and now sets up his microphone at Hollywood.

Wisecracking Patsy Kelly, who joins the welcoming committee in Phil's honor, also is an experienced trouper who worked behind the vaudeville and Broadway footlights before winning outstanding success on the screen. Harry McNaughton (Bottle) is a veteran of the English and American stages. After being mustered out of the British army at the conclusion of the World War, Harry came to America as a member of Madge Surtee's "Better 'Old" Company and has remained here ever since. He has been Phil's chief stooge since the comedian first entered radio.

Magazine of the Air

Julia Sanderson and her husband, Frank Crumit, singing stars of musical comedy and radio fame, return to the WABC-Columbia network as "editors" of revised editions of the "Magazine of the Air," on Wednesdays and Fridays.

The Magazine, which has been broadcast Mondays, Wednesdays and Fridays for the past year, is now heard five days a week, and features a new dramatic series, "Carol Kennedy's Romance," by Marie Blizard.

The schedule for the new format of the "Magazine of the Air" is as follows:

Mondays, Tuesdays and Thursdays, "Carol Kennedy's Romance," 11:15 to 11:30 a.m. EST. (Rebroad-



Sylvia Clark, NBC monologist, singer and comedienne, has not forgotten the tricks of pantomime which she used extensively in her vaudeville tours. She was born in Jaffa, Palestine, but has been in this country since she was a year old.

cast to the west at 3:15 p.m.).

Wednesdays and Fridays, Julia Sanderson and Frank Crumit; B. A. Rolfe's Orchestra; a guest star; and "Carol Kennedy's Romance," 11 a.m. to 11:30 a.m. EST.

Ford Sunday Hour

A brilliant array of world-famous vocalists, instrumentalists and conductors highlight the 1937-1938 season of the "Ford Sunday Evening Hour" on its weekly broadcasts over 97 stations of the coast-to-coast Columbia Network on Sundays from 9 to 10 p.m. EST.

Jose Iturbi conducted the programs for the first eight weeks, and the baton was taken over by Eugene Ormandy for the eight weeks ending December 26. The next director will be Alexander Smallens from Jan. 2 through Jan. 30. Then will follow Fritz Reiner, for nine weeks, from February 6 through April 3. Iturbi is to return on April 10 and 17, and Ormandy on April 24 and May 1.

The imposing list of guest artists reads like a "Who's Who" in music. In the order of their appearance these include:

Nov. 7, Jascha Heifetz; Nov. 21, Betty Jaynes; Nov. 28, Gladys Swarthout; Dec. 5, Lawrence Tibbett; Dec. 12, Nino Martini; Dec. 19, Hephzibah and Yehudi Menuhin; Jan. 2, Ezio Pinza; Jan. 9, Sigrid Onegin; Jan. 16, Robert Casadesus; Jan. 23, Richard Crooks; Jan. 30, Elizabeth Rethberg; Feb. 6, Jascha Heifetz; Feb. 13, Lauritz Melchior; Feb. 27, Kirsten Flagstad; March 6, Richard Bonelli; Jose Iturbi as piano soloist on March 13; March 20, Lily Pons; April 3, Nelson Eddy; April 24, John Charles Thomas.

Ripley on Saturday

Robert L. Ripley's "Believe-It-Or-Not" program is now a Saturday night feature, being broadcast now from 8 to 8:30 p.m. EST over the WEA-FNBC chain. The Pacific Coast rebroadcast is from 6:30 to 7 p.m. PST.

Chesterfield Guest Stars

A galaxy of guest stars, chosen from among the cream of vocal and

instrumental artists of the world, highlight the new Chesterfield Programs with Andre Kostelanetz.

On October 27 the guest soloist was the noted violinist Albert Spalding. During successive weeks the guests will be: Lucrezia Bori, soprano, November 3; Bidu Sayao, soprano, November 10; Jascha Heifetz, violinist, November 17; Lotte Lehmann, soprano, November 24; Ezio Pinza, bass, December 1; Kirsten Flagstad, soprano, December 8; Rose Bampton, soprano, on December 15, and on December 22, the final date of the series, Lily Pons, coloratura.

Cheerio Returns

After a Summer vacation in New England, Cheerio returned to the air on a Sunday evening schedule. He is now heard from 10:30 to 11 pm, EST, over the NBC-Blue Network.

Cheerio's week-day morning programs have been delayed, at his own request, until an undetermined date. He had been scheduled to open the eleventh season of these broadcasts over NBC Monday, September 27, but has asked that his vacation from the vigorous duties of a daily broadcasting schedule be extended.

Famed as a dispenser of cheer and good will and for a radio service for which he has never received remuneration, Cheerio has preserved his anonymity so that listeners could think of him as they want him to be. The first Cheerio program went on the air over the networks of the National Broadcasting Company on March 14, 1927.

Auditions of the Air

The Metropolitan Opera Auditions of the Air, the program which rewards winning singers with contracts at the Metropolitan Opera returns to the air for its third consecutive season. The broadcasts, as in



Gene Arnold, popular NBC narrator, is the interlocutor of the lively and spirited NBC Minstrel Show heard on Wednesdays over the Blue Network.

the last two seasons, are sponsored by the Sherwin-Williams Company, and are heard from 5:00 to 5:30 p.m., EST, over the NBC-Blue Network.

Sixty-three participants, chosen from hundreds of applicants, will be heard during the 26 broadcasts in the series. Fourteen singers will be chosen at the semi-finals and six selected for the finals. From this final group, winners are to be chosen for the Metropolitan Opera Roster.

Preliminary try-outs, as well as the broadcast auditions, are conducted by Wilfred Pelletier, one of the conductors of the Metropolitan orchestra. Those to be heard on the air are selected at the try-outs by an audition committee. The opera company obligates itself to select at least two singers each season. More than two have been given contracts in each of the two previous seasons.

In the 1935-36 season, the winners were Anna Kaskas, contralto, and Arthur Carron, tenor. The winners in the 1936-37 season were Maxine Stellman, soprano, and Thomas L. Thomas, baritone.

As in the two previous series, Edward Johnson, general manager of the Metropolitan, will be heard as master of ceremonies.

The March of Time

The March of Time, which has been broadcast over the CBS since 1931, was transferred to the Blue Network of the NBC on October 14.

After long searching for an earlier spot than its former half hour from 10:30 to 11:00, the March of Time has managed to secure an hour and a half earlier over the Blue Network from 9 to 9:30, every Thursday night as usual.

The new spot, which is expected to give the program a larger audience in the east, places the March of Time directly opposite the Maxwell

House Showboat and Major Bowes' Amateur Hour.

Answer

Yes, Radio has gone high-brow this winter, but we like it. Music lovers will have all the good music they want this winter.

Les Tremayne



Les Tremayne, leading man in Campana's Grand Hotel, has been signed to a long-term contract to co-star with Barbara Luddy in the First Nighter broadcasts.

Sidelights on Les Tremayne, leading man of the First Nighter original dramas on NBC: Born in London, England, of a family prominent in British cinema circles . . . Made his professional debut at the age of four in a film starring his mother, Dolly Tremayne . . . Came to America shortly after the World War to tour country as juvenile actor in a company operated by an uncle . . . Made radio debut in 1932 and attained stardom four years later in Campana's Grand Hotel.

AIRWAY Weather Broadcasts

• • • By MARTIN J. OLTHOFF

MANY of the new type radio receivers are equipped with the so-called "X" band covering radio frequencies from 200 to 400 kilocycles and it is believed most persons having this band available will be interested in knowing what may be heard.

The long wave band is set aside for airway beacons, weather and ship broadcasts. In another section of this edition of this magazine will be found an article describing the operation of the airway range beacons which enable aviators to steer their planes safely to their ports. The Airway weather reports are broadcast by voice at regular intervals and the listening public will find the schedule which follows convenient when forecasts are desired, or just to build up their logs.

The numbers following the call letters indicate the number of minutes past the hour the station transmits weather. For example, WWAH broadcasts 10, 15 and 27 minutes past every hour.

Albany, 365 kcs, WWAH. 10-15-27, 236 kcs, WWAH. 10-27
Albuquerque, 230 kcs, KCAF. 0-5-29
Amarillo, 248 kcs, KCAG. 0-5-15-29
Atlanta, 236 kcs, WHZ. 0-31, 266 kcs, WHZ. 0-15-31-50-55
Bellefonte, 224 kcs, WWQ. 5-29-55
Big Spring, 326 kcs, KCAP. 10-29
Billings, 242 kcs, KCDK. 5-15-29
Birmingham, 224 kcs, WWAT. 10-29
Bismark, 230 kcs, KCDV. 5-29
Boise, 350 kcs, KCR. 0-29
Boston, 263 kcs, WSX. 0-15-29
Buffalo, 236 kcs, WWAB. 15-29
Butte, 284 kcs, KCAC. 0-15-29
Chanute Field, 365 kcs, WYJ. 0-30
Charleston, 329 kcs, WVAW. 29-55

Chattanooga, 341 kcs, WWHS. 29-50
Cheyenne, 236 kcs, KSG. 29-55, 326 kcs, KSG. 5-10-29-50-55
Chicago, 236 kcs, KDA. 2-10-33-53
Cincinnati, 236 kcs, WWAS. 5-15-27-55
Cleveland, 236 kcs, WWO. 0-10-31-50
Davenport, 224 kcs, KCCU. 29-55
Detroit, 230 kcs, WWHU. 29-50
Elko, 391 kcs, KOJ. 29-50
Elmira, 385 kcs, WWIF. 15-29
El Paso, 242 kcs, KCAO. 5-15-29
Fargo, 365 kcs, KCAN. 0-29-50
Ft. Worth, 236 kcs, KKJ. 15-25-55, 365 kcs, KKJ. 10-15-25-29-55
Fresno, 344 kcs, KCU. 29-55
Goshen, 320 kcs, WWIE. 29-50
Greensboro, 365 kcs, WRW. 29-55
Hamilton Field, 220 kcs, WYH. 5-35
Harrisburg, 242 kcs, WWHP. 5-29-50
Helena, 371 kcs, KCDH. 0-29
Houston, 236 kcs, KCAU, 10-32, 332 kcs, KCAU. 10-15-29-32
Idaho Falls, 359 kcs, KCAD. 10-29
Jackson, 260 kcs, WWAQ. 10-15-29
Jacksonville, 236 kcs, WWAV. 1-27, 344 kcs, WWAV. 1-27-50-55
Kansas City, 236 kcs, KRC. 5-29, 359 kcs, KRC. 5-29-50
Kelly Field, 344 kcs, AFL. 50
Key West, 236 kcs, WBP. 55, 332 kcs, WBP. 29-55
Kingman, 350 kcs, KCAH. 5-10-29
Knoxville, 257 kcs, WWIM. 10-29
La Crosse, 371 kcs, WSG. 5-29
Langley Field, 227 kcs, WYC. 0-30
Little Rock, 272 kcs, KCAJ. 15-29
Los Angeles, 260 kcs, KCT. 0-5-10-15-29-50
March Field, 272 kcs, WYM. 5-35
Maxwell Field, 219 kcs, WYK. 30
Medford, 263 kcs, KCX. 29-50
Memphis, 371 kcs, WWAU. 10-15-29
Miami, 272 kcs, WWAF. 29-55
Miles City, 320 kcs, KCAZ. 0-29
Milford, 320 kcs, KCAT. 15-29

Minneapolis, 266 kcs, KCAQ. 0-5-10-29
 Missoula, 308 kcs, KCAV. 5-29
 Mitchell Field, 396 kcs, WYA. 0
 Mobile, 248 kcs, WWBF. 29-55
 Nashville, 388 kcs, WWAC. 10-29-55
 Newark, 236 kcs, WWU. 5-15-31-55
 New Orleans, 338 kcs, WAG, 10-15-29-50
 North Platte, 284 kcs, KVM. 29-50
 Oakland, 236 kcs, KCV. 0, 242 kcs, KCV. 0-29-50-55
 Oklahoma City, 350 kcs, KCCA. 5-29-55
 Omaha, 320 kcs, KJF. 15-29-50-55
 Pendleton, 341 kcs, KCDU. 5-29-55
 Pittsburgh, 236 kcs, WWAP. 1-25
 Portland, 332 kcs, KCV. 0-29-55
 Pueblo, 302 kcs, KCAR. 0-5-15-29
 Raleigh, 350 kcs, WWBI. 29-50
 Reno, 254 kcs, KKK. 29-55
 Richmond, 260 kcs, WNR. 29-50-55
 Roanoke, 206 kcs, WWIJ. 15-29
 Rock Springs, 290 kcs, KDN. 29-55
 St. Louis, 209 kcs, KCQ. 0-5-15-29-31, 236 kcs, KCQ. 15-31
 Salt Lake City, 236 kcs, KGD. 29-55, 338 kcs, KGD. 5-10-15-29-50-55
 San Antonio, 254 kcs, KCAW. 10-15-29
 San Diego, 224 kcs, KEAO. 29-55
 Seattle, 236 kcs, KCZ. 5-29, 260 kcs, KCZ. 5-29-50
 Shreveport, 230 kcs, KCAK. 15-29
 Spartanburg, 236 kcs, WFT. 55, 248 kcs, WFT. 29-50
 Spokane, 365 kcs, KCAS. 0-29-50
 Springfield, Mo. 254 kcs, KCAV. 5-29
 Titusville, 254 kcs, WWBC. 29-50
 Tucson, 338 kcs, KCAM. 15-29
 Tulsa, 296 kcs, KCAA. 5-29-55
 Waco, 385 kcs, KCDT. 10-29
 Washington, 236 kcs, WWX. 0-10-29-50
 Wichita, 332 kcs, WEX. 5-29-50
 Winslow, 266 kcs, KCAE. 0-29
 Wright Field, 379 kcs, WYYA. 0

NBC Around the World

NBC from coast-to-coast has become NBC around-the-world. The worldwide audience is now joining America's nationwide audience in listening daily to programs of the National Broadcasting Company.

From Patagonia to the Punjab, from Iceland to the Transvaal, from Afghanistan to Australia, messages from radio listeners report excellent reception of the international broadcasts which were inaugurated on a large scale last July after a year of experimentation.

NBC's international service, the fruition of a decade of intensive activity in the shortwave field, is designed to provide America's answer to the challenge of elaborate shortwave systems broadcasting programs throughout the world from powerful stations in Great Britain, Germany, Italy, France, Netherlands, Japan and the Soviet Union.

These foreign services, many of them monopolies either operated or controlled by national governments, seek to create good will and to foster trade. They broadcast in many languages and build programs in accordance with racial and cultural leanings of their various listening groups.

It was to provide an American answer to such services that NBC last summer began experimentation with special programs designed for the foreign audience; and, in July, put the service on a more substantial basis.

Since international broadcasts cannot be sponsored, NBC's new shortwave schedule is operated as a patriotic public service. It is motivated, according to NBC, by the belief that it is both a privilege and a

duty to make the voice of America heard around the world.

Broadcast over NBC's shortwave station W3XAL, the international service is transmitted to the whole world over non-directional antenna and to Europe and Latin America over two new directional beam aeri-als.

The programs which go out from W3XAL's transmitter at Bound Brook, N. J., are heard in six languages—English, French, Ger-
man, Spanish, Italian and Portu-
guese.

Outdoor Television

EXPANDING the scope of its ex-
perimental television, the Na-
tional Broadcasting Company inaug-
urated outdoor pickups last month
for the first time in America with an
R.C.A. mobile television station.

The outdoor experimentation will
be another forward step in the tele-
vision field tests conducted in co-
operation with the Radio Corpora-
tion of America, NBC's parent com-
pany. Immediately after the deliv-
ery of the new station October 18,
NBC engineers began an intensive
schedule of televising outdoor scenes
and current events. Football games
and other sports, parades and news
events are listed in the outdoor
schedule. All of the work, how-
ever, will be strictly experimental,
with a view to improving the equip-
ment and methods of R.C.A. tele-
vision.

"The public," said O. B. Hanson,
NBC chief engineer, in outlining the
work to be done with the mobile sta-
tion, "will expect television to bring
distant current events into the home.
In addition to studio productions, it
wants such things as presidential
inauguration ceremonies political

conventions, football and baseball
games, boxing matches, fashion pa-
rades and all the shows we now
class as special events.

"Through radio it has heard de-
scriptions of all these; sometimes
the sounds of the events themselves.
What the American public will even-
tually demand is that television
bring faithful sound and image re-
productions of all into the living
room.

"This new mobile unit, the first in
America, will enable us to make a
start toward supplying that demand.
In taking television outdoors we ex-
pect to learn much about the sensi-
tivity of our instruments, the use of
different types of lenses, filters and
shades, the spectral characteristics
of sunlight, the effect of reflected
light, spheres of action and so on.

"Our immediate purpose is to
train a group of men in handling
the problems of special events. We
shall have need of all the practical
experience we can accumulate be-
tween now and the day when tele-
vision becomes a daily public ser-
vice. When that will be, even in the
limited area of New York City, it
would be foolhardy to guess.

"All of our outdoor work will be
strictly experimental. After eight
years of continuous research and
experiment in cooperation with the
engineering staff of the Radio Cor-
poration of America, we feel that we
are ready to attack the intricate
problems presented by field televi-
sion. The many contributions we
have made to the new art, both in
matters of practice and apparatus,
will be of considerable help. We
are steadily improving the quality
of our images; sometimes we feel
that our progress is rapid. But we
realize that it will be a long time be-
fore we can deliver pictures of out-
door events that will meet the home
entertainment requirements."

The new mobile television station, to be delivered October 18 to the National Broadcasting Company at New York, will consist of two specially constructed motor vans, each about the size of a large bus.

Apparatus for picture and sound pick-up will be installed in one, and a video transmitter, operating on a frequency of 177,000 kilocycles, in the other. In the metropolitan area, where many tall buildings make high frequency transmission difficult, the unit's workable range will be about 25 miles. Ten engineers will be required to operate the two television units. In the experimental field work NBC's present mobile sound transmitter will be included in the station.

Both picture and sound will be relayed by micro-wave to the NBC television transmitter in the Empire State Building. There the programs will be broadcast to the 100 receivers NBC has placed in the homes of trained observers throughout the metropolitan area. The television system to be used will be entirely electric, based on the cathode ray tube developed by the R.C.A. Manufacturing Company.

The van mounting the video, or picture, apparatus will be the mobile equivalent of a television studio control room. It will be fitted with television and broadcast equipment similar to that now in use at Radio City. This will include two cameras, video amplifiers, blanking and deflector amplifiers, synchronizing generators and rectifiers for supplying the 'Iconoscope' beam voltages. The principal sound apparatus will be microphones, microphone amplifiers and sound mixing panels. All the equipment will be mounted on racks extending down the center of the

van, affording easy access to any part for repairs, and the alterations which will arise from the outdoor experimentation.

Directly in front of the operating engineers in the semi-darkened control room will be two monitoring kinescopes. One will show the scene actually being transmitted; the other will show the scene picked up by the second iconoscope camera preparatory to transmission.

Sound will be picked up by a variety of microphones, including the parabolic microphone developed in the NBC laboratories, and will be monitored by loud-speaker. An elaborate telephone cue circuit will keep the ten engineers in contact with each other.

The two Iconoscope cameras, to be mounted on tripods, will be technically equivalent to studio cameras, although considerably lighter in weight. Focusing will be by looking directly onto the plate of the Iconoscope, instead of through a separate set of lenses, as in the case of studio cameras. The cameras will transmit the image through several hundred feet of multiple core cable, affording a considerable radius of operations. Four operating positions will also be available on the roof of the van.

The micro-wave television transmitter will be housed in the second van, linked to the first by 500 feet of coaxial cable. Here the principal apparatus will be the radio frequency unit, generating the carrier wave for picture signals, and modulating apparatus for imposing picture signals on this carrier. The signals will be transmitted to the Empire State station's directional receiving antenna either from a single dipole antenna raised on the van's roof, or from a highly directive antenna array raised on the scene of the pick-up.

SPANISH Pronunciation for the American DXer

• • • By SERGIO GONZALEZ LAZCANO

WHILE the only proper way of learning the exact sounds of the Spanish letters is by hearing them, the several English equivalents listed below will give the American DXer an idea of the pronunciation of the original letters.

VOWELS

The Spanish vowels are A, E, I, O, U and occasionally Y. Each vowel has but one sound.

The sound of A is full, open and is sounded as in Far, father, farm, alarm.

The sound of E is intermediate between long A in mate and short a in met.

The sound of I is the same as in police, machine.

The sound of O is as in for, order, lord, form.

The Spanish U is pronounced like English oo in moon, food. It is silent in the syllables que, qui; also in the syllables gue, gui, unless marked with a dieresis.

With the exception of U in the cases stated, no Spanish vowel is ever silent.

CONSONANTS

B has a softer sound than in English, pronounced by joining the lips, without pressure.

C, before e, i, has the sound of English th, in Theft, thin, as in cinc, which is pronounced *theek*. Before a, o, u, or before another consonant, has the sound of the English K as in carro (car) costo (cost) cubo (cube) Clase (Class) crema (Cream) acto (Act).

Ch, like in English ch in cheese, riches. It never has the sound of

K, nor ch as in machine.

D is softer than in English. It sounds by touching the edge of the upper teeth with the tip of the tongue. Between two vowels (todo) (all) and the end of a word (usted, you) it has the sound of English th in weather, with, although.

F, same as in English.

G, before a, o, u, or before a consonant, has the sound of English G in gas, go, gun, grand, ignorant. Before e, i, it has the sound of Spanish J.

H is always silent. There is absolutely no exception to this rule.

J has a sound similar to English H, but much more strongly aspirated, like ch in English loch or the German ach.

K as in English.

L as in English.

LL, a special letter, which sounds very much like English ll in million, brilliant, or more exactly, like the combination ll-y in all year.

M as in English.

N as in English.

N like in canyon, ronyon.

P as in English.

Q as in English. With the exception of a few words taken from the latin, this latter occurs only in the combinations, que, qui, in which the U is always silent.

R, between two vowels, has a sound usually linked to that of the English r, in every, but which is more like that of English d in candy, when very rapidly pronounced.

S has the sound of English S in sa-safras and no other word.

T differs from English T in that it is sounded by placing the tip of the tongue between the teeth.

V as in English, although practically everybody pronounces it like Spanish B.

X, sounded like ks or gs never like sh.

Y, when a consonant sounds like English y in year, young. When it stands alone, as a conjunction meaning "and", or is at the end of a word it is a vowel and has the sound of Spanish I.

Z has the sound of English th in thick, thatch, thought. However, in some parts of Spain and throughout Spanish America it is pronounced like Spanish S (English S in less.)

Note—Mr. Gonzalez is the Official Representative of the Globe Circlers DX Club Inc., in Cuba and all Spanish Speaking Countries.

Directional Antennas

● ● ● By Harry M. Gordon

SOME very excellent results in DXing may be obtained by the use of directional aerials. While many listeners may not have the necessary space for a real installation, those who do may be interested in the system which we have set up here.

From a central mast 65 feet high, there are four antennas which run to the four points of the compass. The supports at the far ends of the four wires are also 65 feet high. Each aerial is of enameled No. 12 solid copper wire. The North and South antennas are each 600 feet long, the East antenna is 700 feet long, while the West antenna stretches 1000 feet from the center pole.

The lead-in of each aerial is taken at the end nearest the center pole.

Thus, the antenna which runs North has its lead at the South end and is, therefore, directional South. The aerial which runs West from the center pole has its lead-in at the East end and is used for reception from the East. This same system may be used with shorter wires and approximately the same results may be expected.

We have found that the use of this system frequently enables us to reduce interference between stations. If two stations on the same channel are heard and one is in a different direction from the other, use of the aerial pointing at the desired station will often reduce the QRM from the other.

As an example, we turned in WTBO on 800 kcys one morning at 10:30 a.m., but reception was spoiled by a station in the background. By shifting aerials, we were able to bring in WFAA on the same frequency. On the East aerial, WTBO was heard with an R-8 signal and WFAA was not heard. On the South aerial, WTBO dropped to R/6-7 and WFAA's signal picked up so that we were able to log it. Using the West antenna, WTBO dropped to R-5 and WFAA faded in the background to cause a great deal of QRM.

We have found that this antenna system has been a great help in logging the Cuban stations. On August 7th, for example, we were able to hear 20 of them and, had we desired, each one could have been logged without any difficulty.

On August 29th Arthur Parfitt, Harold Burstrom, Harold Wagner and the writer made a little experiment in daylight reception. At 11 a.m. we started at 550 kcys and came on up the dial. By 1 p.m. we had identified 58 stations and heard 12 others that could not be identified—for a total of 70 stations in the middle of a summer day.

International Amateur Prefixes

AC4	Tibet	K7	Alaska
AR	Syria	KA	Philippine Islands
CE	Chile	LA	Norway
CM	Cuba	LU	Argentina
CN	Morocco	LX	Luxembourg
CO	Cuba	LY	Lithuania
CP	Bolivia	LZ	Bulgaria
CR4	Cape Verde	MX	Manchukuo
CR5	Portuguese Guinea	N	U. S. Naval Reserve Stations
CR6	Angola	NY	Canal Zone
CR7	Mozambique	OA	Peru
CR8	Portuguese India	OE	Austria
CR9	Macau	OH	Finland
CR10	Timor	OK	Czechoslovakia
CT1	Portugal	OM	Guam
CT2	Azores	ON	Belgium
CT3	Madeira	OO5	Belgian Congo
CX	Uruguay	OX	Greenland
D	Germany	OY	Faroe Islands
EA	Spain	OZ	Denmark
EAS	Canary Islands	PA	Netherlands
E1	Irish Free State	PI	Netherlands (Schools)
EL	Liberia	PJ	Netherlands Antilles
EP, EQ	Iran	PK	Netherlands East Indies
ES	Estonia	PX	Andorra
F3, F8	France	PY	Brazil
FA	Algeria	PZ	Surinam
FB8	Madagascar	SM	Sweden
FD8	Togoland	SP	Poland
FE8	Cameroons	ST	Sudan
FF8	French West Africa	SU	Egypt
FG8	Guadeloupe	SV	Greece
FI8	French Indo-China	TA	Turkey
FK8	New Caledonia	TF	Iceland
FL8	Somali Coast	TG	Guatemala
FM8	Martinique	TI	Costa Rica
FN8	French India	U, UE, UK, UX, Union of Socialist Soviet Republics	
FO8	French Oceania and Tahiti	VE	Canada
FP8	St. Pierre and Miquelon	VK	Australia
FQ8	French Equatorial Africa	VO	Newfoundland and Labrador
FR8	Reunion	VP1	British Honduras
FT4	Tunis	VP2	Dominica, Grenada, St. Lucia, Antigua, St. Kitts, Nevis
FU8	New Hebrides	VP3	British Guiana
FY8	French Guiana	VP4	Trinidad and Tobago
G	Great Britain	VP5	Cayman Islands, Jamaica, Turks and Caicos Islands
GI	Northern Ireland	VP6	Barbados
GM	Scotland	VP7	Bahamas
GW	Wales	VP8	Falkland Islands and South Georgia
HA	Hungary	VP9	Bermuda
HB	Switzerland	VQ1	Fanning Island
HC	Ecuador	VQ2	Northern Rhodesia
HI	Haiti	VQ3	Tanganyika
HI, HK	Dominican Republic	VQ4	Kenya
HJ, HK	Colombia	VQ5	Uganda
HP	Panama	VQ6	British Somaliland
HR	Honduras	VQ8	Mauritius
HS	Siam	VQ9	Seychelles
HZ	Hejaz	VR1	Gilbert and Ellice Islands
I	Italy	VR2	Fiji Islands
J	Japan	VR3	Fanning Island
K4	Puerto Rico, Virgin Islands	VR4	British Solomon Islands
K5	Canal Zone	VR5	Tonga Islands
K6	Guam, Hawaii, Midway, Samoa and Wake	VR6	Pitcairn
		VS1, VS2, VS3	Malaya
		VS4	Borneo
		VS5	Sarawak
		VS6	Hongkong
		VS7	Ceylon
		VS8	Bahrain Island
		VS9	Maldives
		VU	India
		W	United States
		XE	Mexico
		XT, XU	China
		XZ	Burma

The receiver used at our shack is a Philco 34 7-tube all-wave model, with a three-tube pre-selector which gives us a great increase in sensitivity and selectivity. We use two sets of batteries—a two-volt A battery for the receiver and a six-volt A battery for the preselector.

YA	Afghanistan
YI	Iraq
YJ	New Hebrides
YL	Latvia
YM	Danzig
YN	Nicaragua
YR	Roumania
YS	El Salvador
YT, YU	Jugo-Slavia
YV	Venezuela
ZA	Albania
ZB1	Malta
ZB2	Gibraltar
ZC1	Transjordania
ZC2	Cocos Islands
ZC3	Christmas Island
ZC4	Cyprus
ZC5	Palestine
ZD1	Sierra Leone
ZD2	Nigeria, Camerouns
ZD3	Gambia
ZD4	Gold Coast and Togoland
ZD6	Nyassaland
ZD7	St. Helena
ZD8	Ascension
ZE1	Southern Rhodesia
ZK1	Cook Islands
ZK2	Niue
ZL	New Zealand
ZM	Western Samoa
ZP	Paraguay
ZS, ZT, ZU	Union of South Africa
ZU9	Tristan da Cunha



April in Paris last year, but this year it's Radio City for Jean Sablon. The voice of this dashing French music hall and night club entertainer spanned the Atlantic last season during a broadcast of the Magic Key, leaving an echo that could not be stilled until the singer himself crossed the ocean.

Word comes from VK2ABG, whose address is, incidentally, E. A. Moore, 92 Princess Highway, Arncliffe, NSW, Australia, that any listeners who send reports to Australian hams without knowing the address should send them to the Station VK—, c/o Radio Inspector VK— (number of District), and not to the Australian amateur association, as the ham organization does not forward reports to non-members. Very few Australian hams are members of the society and consequently reporters take a risk in forwarding reports to them. The Australian Districts are as follows:

VK2—, New South Wales (Capital, Sydney).

VK3—, Victoria (Capital, Melbourne).

VK4—, Queensland (Capital, Brisbane).

VK5—, South Australia (Capital, Adelaide).

VK6—, Western Australia (Capital, Perth).

VK7—, Tasmania (Capital, Hobart).

Ruth Cornwall, author of the Death Valley episodes, one of NBC's oldest dramatic features, has a clipping from a Barstow, Calif., paper bristling with the nomenclature of that region. It reads: "Bill Jarrett worked for six weeks on the graveyard shift for the Corpse Mining Company in the Coffin mine located in Dead Man's Canyon in the Funeral Range at the edge of Death Valley. Bill leaves next week for a prospecting trip to the Devil's Playground in Hell's Half-Acre."

At least three football games will be broadcast, play-by-play, during November by the NBC. On Nov. 6 the game between Notre Dame and Pittsburgh will be covered, and on November 27 there will be two games, Army vs. Navy, and Notre Dame vs. Southern California.

WHAT'S ON THE AIR TONIGHT

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

Network	Stations
Canadian (CBC)	
Columbia (C)	
Mutual (M)	
National Red (R)	
National Blue (B)	

Time: E Eastern; C Central; M Mountain; P Pacific

MONDAY

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

B — Lowell Thomas

CRCT KDKA WHAL WBZ WBZA
WFLA WIOD WJAX WJZ WLW
WMAL WOOD WRVA WSYR WTAM
WXYZ

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

C — Poetic Melodies; Jack Fulton

WABC WADF WBT WCAO WCAU
WDRG WEAN WEEI WFBL WGR
WHFC WHK WJAS WJR WJSV
WKRC WOKO WSPD WTIC WVVV

R — Amos 'n' Andy

KYWB WBNB WCAE WCSH WFAF
WEEI WFBR WGY WJAR WLW
WRC WTAG WTIC

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

R — Uncle Ezra's Radio Station

KARK KFYR KGBX KGNC KPRC
KRTP KTBS KTHS KVOO KYWB
WBAP WBNB WCAE WCKY WCOL
WCSH WDAF WDAY WFAF WFCB
WFAA WFRB WGFH WGY WHO
WIBA WIRE WJAR WKY WMAQ
WNAC WOAI WOOD WOV WRC
WTAG WTAM WTIC WTMJ

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

B — Lum and Abner

WBZ WBZA WENR WJZ WLW
WMC WSM WSYR

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

C — Boake Carter

KMBC KMOXKOMA KRLD WABC
WBFB WBT WCAO WCCO WDRG
WEAN WFBL WGR WHAS WHK
WJAS WJR WJSV WKRC WNAC

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

C — Horace Heidt and Orchestra

KDB KERN KFAB KFBK KFH
KFPY KPRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KRNT KSL KTRH KTSB
KTUL KVI KWG WABC WBBM
WBRC WBT WCAO WCAU WCCO
WDRG WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WLAC WMBR WNAC WNAX
WOKO WREC WWL

R — Burns and Allen

CRCT KYWB WBNB WCAE WCSH
WCSH WFAF WFBR WFLA WGY

WHO WIOD WIRE WIS WJAR
WJAX WLW WMAQ WNAC WPTF
WRC WRVA WSOC WTAG WTAM
WTAR WTIC WWJ

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

C — Pick and Pat

KFAB KMBC WABC WADC WBBM
WBT WCAO WCAU WDRG WEAN
WFBL WGR WGST WHFC WHK
WHF WICC WJAS WJR WJSV
WKRC WLWB WMAS WNAC WOKO
WORC WSPD

R — Voice of Firestone

CFCF CRCT KFYR KPRC KSD
KSTP KTBS KVOO KYWB WAVE
WBNB WCAE WCSH WDAF
WDAY WFAF WFCB WEEI WFAA
WFCB WFBR WFLA WGY WHO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOV WPTF WRC WRVA
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTIC WTMJ WWJ
WVNC

B — Campana's Vanity Fair

KDKA KFLB KFI KFSD KGA KGO
KGW KJR KLO KOIL KSO KWK
WBAL WBZ WBZA WCKY WEAN
WEBR WFIL WHAM WHK WICC
WJZ WLS WMAL WMT WOWO
WREN WSPD WSYR WXYZ

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

R — Fibber McGee and Molly

KFYR KPRC KSD KSTP KTBS
KVOO KYWB WAVE WBNB WCAE
WCOL WCSH WDAF WDAY WFAF
WFCB WFAA WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WLW WMAQ
WMC WNAC WOAI WOOD WOV
WPTF WRC WSB WSM WSMB
WSOC WSUN WTAG WTAM WTAR
WTIC WTMJ WWJ WVNC

C — Lux Radio Theater

CFRB CKAC KFAB KFH KFPY
KLRA KLZ KMBC KMOX KNOW
KNN KOH KOIN KOL KOMA
KRLD KRNT KSFO KSL KTRH
KTSB KTUL KVI WABC WADC
WBBM WBSN WBRB WBT WCAO
WCCO WDAE WDBJ WDRG WEEI
WFBL WFBM WGR WGST WHAS
WHFC WHIO WIBX WISN WJAS
WJR WJSV WBBW WKRC WLAC
WMAS WMBD WNAX WOKO WORC
WPRO WQAM WREC WRVA WWL

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

R — Phil Spitalny's Girl Orchestra

CFCF CRCT KDYL KFI KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KVOO KYWB
WAVE WBNB WCAE WCSH WDAF
WFAF WFAA WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WKY WLW WMAQ
WMC WNAC WOAI WOV WPTF
WRC WRVA WSB WSM WSMR
WTAG WTAM WTAR WTIC WTMJ
WWJ

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

R — Contented Program

CFCF CRCT KDYL KFI KGW KHQ
KOA KOMO KPO KPRC KSD KYWB
WBNB WCAE WCSH WDAF WFAF
WEEI WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WKY
WMAQ WMC WOAI WOV WPTF
WRC WRVA WSB WSM WTAG
WTAM WTAR WTIC WWJ WVNC

C — Wayne King and Orchestra

KDB KERN KFAB KFBK KFYR
KFCF KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRNT KSL KVI
KWG WAAB WABC WADC WBBM
WBSN WBT WCAO WCAU WCCO
WDRG WEAN WFBL WFBM WHAS
WHK WHBW WJAS WJR WJSV
WKBW WKRC WOKO WSPD WWL

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

R — Burns and Allen

KARK KDYL KFBK KFI KFYR
KFBX KGHL KGR KGNC KGO
KGW KHQ KMJ KOA KOMO KPO
KPRC KSD KSTP KTRH KTBS
KVOO KWG WAVE WDAF WDAY
WFCB WFAA WFLA WJDX WKY
WMC WOAI WOV WSB WSMB
WTMJ

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

C — Poetic Melodies; Jack Fulton

KERN KFAB KFBK KFPY KFCF
KGB KHJ KLRA KLZ KMBC KMOX
KOIN KOI KOMA KRLD KRNT
KSL KTRH KTSB KVI WBBM
WBRB WCCO WFBM WGST WLAC
WREC WWL

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO

MONDAY (Continued)

KPO KPRC KSD WBAF WDAF
WHO WKY WLW WMAQ WBOI WOV
WSB WSM WSMB WTAM WWJ

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

C — Boake Carter

KFPY KLZ KNX KOIN KOL KSFO
KSL KVI

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

C — Pick and Pat

KFPY KGKO KLRA KLZ KMOX
KNX KOIN KOL KOMA KRLL
KRNT KSCJ KSF KSL KTUL
KVI KWKH WACO WBRG WCCO
WFBM WHAS WLAC WREC

TUESDAY

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WHIO WIRE WJZ
WMAL WMT WSYR WXYZ

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

B — Lum and Abner, See Monday

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

R — Johnny with Russ Morgan

KFPR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBAF
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOW WPTF WRC
WRVA WSB WSM WSMB WSOB
WSUN WTAG WTAM WTAR WTMJ
WTMJ WWJ WNNC

B — Husbands and Wives

KDKA KECA KEX KFSB KGA KGO
KJR KLO KOIL KSO KWOD KWK
WABY WBAL WBZ WBZA WCKY
WEAN WEBR WFIL WGAR WHAM
WICC WJZ WLS WMAL WMT
WREN WSYR WXYZ

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

C — Al Jolson; Parkyakarkus

CFRB CROC KFAB KFH KLRA
KMBC KMOX KNOW KOMA KRLL
KRNT KTRH KTHS KTUL WABC
WADC WBBM WBNS WBRG WBT
WCAO WCAU WCCO WDAE WDBJ
WDRC WEAF WFBL WFBM WGAR
WGR WGST WHAS WHEC WHO
WIBX WISN WJAS WJR WJSV
WKRC WLAC WMAS WMBD WNAX
WOKO WORC WPRO WQAM WREC
WRVA WWL

R — Wayne King and Orchestra

KFPR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAF WBEN
WCAE WCKY WCSH WDAF WDAY
WEAF WEBC WEEL WFBR WGY
WHO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WOAI

WOW WRC WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ

B — Edgar Guest, It Can Be Done

KDKA KOIL KSO KWK WBAL
WBZ WBZA WFIL WGAR WHAM
WJZ WLS WLW WMAL WMT
WREN WSYR WXYZ

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

C — Al Pearce and Gang

CFRB CKAC KFAB KFH KGKO
KLRA KMBC KMOX KOMA KRLL
KRNT KSCJ KTRH KTHS KTUL
KWKH WABC WACO WADC WALA
WBHM WBIG WBNS WBRG WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WIIP WIWB WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBN WKBW WKRC
WLAC WLBB WMAS WMBD WMBG
WMHR WMMN WNAC WNAX
WNBF WNOX WOC WOKO WORC
WOW WPG WQAM WREC WSBT
WSFA WSJS WSPD WTOG WWL

R — Vox Pop; Sidewalk Interviews

KSD KYW WBEN WCAE WCKY
WCSH WDAF WEAF WEEL WFBR
WGY WHO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WWJ

B — Ben Bernie and Orchestra

KDKA KDYL KFI KFSB KFPR
KGW KHQ KOA KOIL KOMO KPO
KPRC KSO KSTP KTAR KTBS
KVOO KWK WAVE WBAL WBAF
WBZ WBZA WDAY WEBC WFIL
WFLA WGAR WHAM WHIO WIOD
WIS WJAX WJDX WJZ WKY WLW
WLW WMAL WMC WMT WOAI
WPTF WREN WRVA WSB WSM
WSMB WSOB WSYR WTAR WTMJ
WNNC WXYZ

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

C — Jack Oakie's College

Station list not available

R — Lanny Ross; Charles Butterworth

CFCF CRCT KDYL KFI KGHL
KGD KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KVOO
KYW WAVE WBAF WBEN WCAE
WCOL WCSH WDSH WDAF WDEL
WEAF WEBC WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WKY WMAQ WMBG
WMC WNAC WOAI WOOD WOW
WRC WSB WSM WSMB WSOB
WTAG WTAM WTAR WTMJ WTMJ
WWJ

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

C — Benny Goodman's Orchestra

KFAB KFH KFPY KGKO KLRA
KLZ KMBC KMOX KNOW KNX
KOLN KOL KOMA KOY KRLL
KRNT KSCJ KSF KSL KTRH
KTHS KTUL KVI KVOR KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRG WBT WCAU
WCCO WCHS WCOA WDAE WDBJ
WDBO WDNC WDOD WDRC WERI
WFBL WFBM WGAR WGST WHAS
WHIC WHIO WHP WIBW WIBX
WISN WJAS WJR WJSV WKBW
WKBN WKBW WKRC WLAC WLBZ
WMAS WMBD WMBR WNAX

WNBF WNOX WOC WOKO WORC
WPG WPRO WQAM WREC WRVA
WSBT WSFA WSJS WTOG WWL

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

R — Jimmy Fidler Hollywood Gossp

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KTAR KYW WBEN
WCAE WCSH WDAF WEAF WFBR
WGY WHO WJAR WLW WMAQ
WNAC WOOD WOW WRC WTAG
WTAM WTIC WWJ

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

C — Al Jolson; Parkyakarkus

KFPY KLZ KNX KOIN KOL KSFO
KSL KVI

E-Midn't; C-11:00, M-10:00, P-9:00

C — Al Pearce and Gang

KFBB KFPY KGVO KLZ KNX
KOH KOIN KOL KOY KSFO KSI
KVI KVOR

WEDNESDAY

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

R — Uncle Ezra, See Monday

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

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

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

C — Cavalead of America

KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KRNT
KSL KVI KWG WABC WBBM
WBNS WCAU WCCO WDRC WEAN
WFBL WFBM WGR WHAS WHEC
WHK WJAS WJR WJSV WKRC
WLAC WMBG WNAC WOKO WTOG
WWL

R — One Man's Family

KDYL KFI KFPR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KTBS KTHS KVOO KYW
WAPI WAVE WBAF WBEN WCAE
WCSH WDAF WDAY WEAF WEBC
WEEL WFAA WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOV WPTF WRC
WRVA WSB WSM WSMB WSOB
WSUN WTAG WTAM WTAR WTMJ
WTMJ WWJ WNNC

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

C — Eddie Cantor; Deanna Durbin

CFRB CKAC KFAB KFH KLRA
KMBC KMOX KOMA KRLL KRNT
KSCJ KTRH KTHS KTUL KWKH

Wednesday (Continued)

WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRG WDEI WFBL
WFBM WGR WGST WHAS WHEC
WHIO WHK WHP WIBW WIBX
WJAS WJR WJSV WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAX WNOX WOCQ WROC
WOWO WPG WPRO WQAM WREC
WWL

R — Wayne King, See Tuesday

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

C — Kostelanetz
KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KGKO KGMG
KHJ KLKA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBG
WDBO WDNC WDOO WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBW WKRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WNAC WNAX WNBW WNOX WOC
WOKO WORC WOWO WPG WQAM
WREC WSFA WSJS WSPD WTOC
WWL

R — Town Hall Tonight

KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBEW
WCAE WCSH WDAF WDAY WFAF
WIBC WEEI WFAA WFBW WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC WSB
WSM WSMB WSOC WTAG WTAM
WTRT WTIC WTMJ WWJ WWNC

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

C — Jessica Dragonette
KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KGKO KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSL KTRH K TSA KTUL
KVI KWG KWKH WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO
WDRG WEAN WFBL WFBM
WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSA
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WORC WOWO
WQAM WREC WTOC WWL

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

C — Crime Crusade; Phil Lord
KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KRNT KSL KTRH
K TSA KTUL KVI KWG KWKH
WABC WACO WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRG WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WORC WOWO
WQAM WREC WTOC WWL

R — Your Hit Parade

KDYL KEX KFI KFJR KGHL

KGIR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR KTBS
KTHS KVOO KYW WAVE WCAE
WCSB WCSH WDAF WDAY WFAF
WIBC WEEI WFAA WFBW WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOAI WOW WPTF
WRC WRVA WSB WSM WSMB
WSOC WSUN WSYR WTAG WTAM
WTRT WTIC WTMJ WWJ WWNC

E-11:00 p.m., C-10:15, M-9:00, P-8:00

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

C — Boake Carter, See Monday

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

C — Eddie Cantor; Deanna Durbin
KFBB KFPY KGVO KLZ KNX
KOH KOIN KOL KOY KSFO KSL
KVI KVOR

THURSDAY

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

C — "We, The People."
KFAB KMBC KMOX KNOW KOMA
KRLD KRNT KSCJ KTRH K TSA
KTUL WABC WBBM WBNS WCAO
WCAU WCCO WDAE WDBO WDRG
WEEI WFBL WGAR WGR WHAS
WHEC WHIO WHP WIBX WISN
WJAS WJR WJSV WKRC WMBD
WMBR WOC WOKO WPRO WQAM

B — Lum and Abner, See Monday

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

C — Kate Smith; Henny Youngman
CFRB CRMC KDAL KFAB KFH
KGKO KLRA KMBC KMOX KNOW
KOMA KRLD KRNT KSCJ KTRH
K TSA KTUL KWKH WABC WACO
WADC WBBM WBNS WDRG WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOO WDRG WEEI WEOA
WFBL WFBM WGAR WGR WGST
WHAS WHEC WHIO WHP WIBW
WISN WJAS WJR WJSV WKBH
WKRC WLAC WLBZ WMBD WMBR
WNAX WNOX WOC WOKO WORC
WPRO WQAM WRVA WREC WSFA
WTAQ WWL

R — Rudy Vallee's Variety Hour

CFRC CRCT KDYL KFI KFJR
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBEW WCAE
WCSH WDAF WDAY WFAF WIBC
WEEI WFBW WGY WHO WJAR
WLW WMAQ WOW WRC WTAM
WTIC WTMJ WWJ

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

C — Major Bowes' Amateurs
CFRB CKAC KDB KERN KFAB
KFBK KFH KFPY KFRC KGB
KGKO KLRA KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD

KRNT KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDRG WDOO WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBW WKRC WLAC WLBZ
WMAS WMBD WMBG WMBR
WMNM WNAC WNAX WOC WOKO
WORC WOWO WPG WQAM WREC
WSFA WSJS WSPD WTOC WWL

R — Maxwell House Show Boat

KDYL KFI KFSD KFJR KGHL
KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KYW WAPI WAVE WBAF WBEW
WCAE WCSH WDAF WDAY WFAF
WIBC WEEI WFBW WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSM WSMB
WSOC WTAG WTAM WTRT WTIC
WTMJ WWJ WWNC

B — March of Time

Station list not yet available

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

C — Your True Adventures
KFAB KFH KFPY KLRA KLZ
KMBC KMOX KNX KOIN KOL
KOMA KRLD KRNT KSFO KSL
KTRH K TSA KTUL KVI KWKH
WABC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDRG WEEI WFBL WFBM
WGST WHAS WHEC WHIO WHK
WISN WJAS WJR WJSV WKBH
WKRC WLAC WLBZ WMBG WMBR
WOKO WORC WPRO WQAM WREC
WTOC WWL

R — Bob Burns

CFRC CRCT KDYL KFI KFJR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVOO KYW WAVE WBAF WBEW
WCAE WCSH WDAF WDAY WFAF
WIBC WEEI WFBW WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTRT WTIC WTMJ
WWJ WWNC

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

FRIDAY

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

R — Uncle Ezra, See Monday

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

B — Lum and Abner, See Monday

FRIDAY (Continued)

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

C — Boake Carter, See Monday

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

C — Hammerstein Music Hall

KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT
KSL KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WFBR WGST WHAS WHK WJAS
WJR WJSV WKRC WMA5 WMBG
WNAC WOKO WWL

R — Cities Service Concert

CRCT CFYR KOA KPRC KSD
KSTP KTBS KTHS KVOO KYW
WBAP WBEN WCAE WCSH WDAF
WDAY WFAF WEBC WEEI WFAA
WFBR WGY WHO WIBA WIOD
WJAR WKY WMAQ WQAI WQW
WRC WRVA WSAI WTAG WTAM
WTIC WTMJ WWJ

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

C — Hal Kemp; Alice Faye

KFAB KFH KGKO KLRA KMBC
KMOX KOMA KRLL KRNT KSCJ
KTRH KTHS KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDOD WDRC WEEI WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHIO WHK WHP WIBW
WIBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLWB WMA5
WMBD WMBG WMBR WMMN
WNAX WNBW WNOX WOC WOKO
WORC WOWO WPG WPRO WQAM
WRC WSEA WSJS WSPD WTOC
WWL

S — Death Valley Days

KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KSO KWK WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

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

C — Hollywood Hotel

CFRB CKAC KDB KERN KFAB
KFBK KFH KFPY KFRC KGB
KHJ KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLL KRNT
KSCJ KSL KTRH KTHS KTUL KVI
KVOR KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRC WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJR
WJSV WKBW WKRC WLAC WLWB
WMA5 WMBD WMBG WMBR
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WSPD WWL

R] — Frank Munn; Lois Bennett

KSD KYW WBEN WCAE WCSH
WDAF WFAF WEEI WFBR WGY
WJAR WJW WMAQ WOW WRC
WTAG WTAM WWJ

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

R — True Story Court

KSD KYW WBEN WCAE WCSH
WFAF WEEI WFBR WGY WHO

WHIO WJAR WMAQ WOW WRC
WTAG WTAM WTIC WWJ

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

C — Frank Crumit; Kitty Carlisle

KDAL FRANK KFBB KFH KFPY
KGKO KGLO KGVO KLRA KLZ
KMOX KNOX KNX KOH KOIN
KOL KOMA KOY KRLL KRNT
KSCJ KSL KTRH KTHS
KTUL KVI KVOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCHS WCOA WCOD WDAE
WDBJ WDBO WDNC WDOD WDRS
WEEI WEOA WFBL WFBM WGAR
WGBI WGST WHAS WHEC WHIO
WHP WIBW WIBX WISN WJAS
WJNO WJR WJSV WKBB WKBW
WKRC WLAC WLWB WMA5 WMBD
WMBR WMMN WNBW WNOX WOC
WOKO WORC WPAR WPG WPRO
WQAM WREC WRVA WSBT WSEA
WSJS WTOC WWL

R — First Nighter; Drama

KDYL KFI KFPY KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTBS KTHS KYW WAVE WBEN
WCAE WCSH WDAF WDAY WFAF
WEBC WEEI WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

B — Morton Bove

KDKA KECA KFSD KGA KGO
KJR KLO KOIL KSO KWK WABY
WBAL WBZ WBZA WCKY WCOL
WEAN WEBR WENR WFIL WFLA
WGAR WHAM WICC WIOD WIS
WJAX WJZ WMAL WMT WOOD
WPTF WREN WRVA WSOC WSUN
WSYR WTAR WWNC WXYZ

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

R — Jimmy Fidler

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KSTP KYW WBEN
WCAE WCSH WDAF WDEL WFAF
WFBR WGY WIBA WIRE WJAR
WJW WMAQ WNAC WOW WRC
WTAG WTAM WTIC WTMJ WWJ

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

R — Amos 'n' Andy, See Monday

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

C — Boake Carter, See Monday

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

C — Hal Kemp

KFBB KFPY KGMB KGVO KLZ
KNX KOH KOIN KOL KSPD KSL
KVI KVOR

SATURDAY

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

C — Your Unseen Friend

WABC WADC WBBM WCAU WEEI
WFBL WGAR WHEC WHP WJAS
WJR

R — "Believe-It-or-not." Ripley

Station list not available

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

C — Phil Ducey; Russ Morgan

KFAB KFH KMBC KMOX KRNT
WABC WADC WBBM WBIG WBNS
WBT WCAO WCAU WCCO WCOA
WDRS WEEI WFBL WFBM WGR
WGST WHAS WHEC WHIO WHK
WHP WISN WJAS WJR WJSV
WKRC WMBD WMBG WNBW WOC
WOKO WPRO WSBT WWVA

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

C — Prof. Quiz

KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KRNT KSL KTRH KTHS
KVI KWG WABC WBBM WBNS
WBT WCAO WCAU WCCO WDAE
WDBO WDRS WEAN WFBL WFBM
WJAS WJR WJSV WKBW WKRC
WMBR WOKO WQAM WREC WSPD
WWL

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS
KTHS KWK WABY WAPI WAVE
WBAL WBAP WBZ WBZA WFIL
WFLA WGAR WHAM WIOD WIRE
WIS WJAX WJDX WJZ WKY WLS
WMAL WMC WMT WQAI WOOD
WPTF WREN WRVA WSB WSMB
WSOC WSUN WSYR WTAR WWNC
WXYZ

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

C — Saturday Night Serenade

KFAB KFH KFPY KGKO KLRA
KLZ KMBC KMOX KNOX KNX
KOIN KOL KOMA KRLL KSPD
KTRH KTHS KTUL KVI KWKH
WALA WBBM WBIG WBNS WBRC
WBT WCAO WCAU WCOA WDAE
WDBO WDOD WEEI WFBL WFBM
WGAR WGST WHAS WHEC WHAS
WJR WJSV WKBW WLAC WMBD
WMBR WMMN WNOX WOC WQAM
WREC WRVA WSEA WTOC WWL
WWVA

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

C — Your Hit Parade

KERN KFAB KFBK KFH KFPY
KFRC KGB KGKO KGMB KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTHS
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRS WEAN
WFBL WFBM WFEA WGST WHAS
WHIC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLWB WMA5
WMBD WMBG WMBR WNAC
WNAX WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSEA
WSJS WSPD WTOC WWL WWVA

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

CBC — The Northern Messenger

CFAC CFCH CFCC CFJC CFPL
CFQC CHWK CJAT CJCA CJCX
CJKL CJOC CJRM CJRO CJRX
CKBI CKCK CKGB CKOC CKOY
CKRP CKCO CKTB CKX CKY
CHKC CHCM CROC CRCS CRCT
CRCV CRCW CRCX

SATURDAY (Continued)

B — National Barn Dance

KDYL KFI KFSD KFYR KGHK
KGIR KGU KGW KHQ KOA KOMO
KPO KSTP KTR AR WDAY WEBE
WIBA WLW WTMJ

SUNDAY

E-11:30 a.m., C-10:30, M-9:30, P-8:30

C — Major Bowes' "Family"

CFRB KERN KFAB KFRH KFBK
KFH KFPY KFRC KGB KGVO
KMBC KOH KOL KRLD KSL KTRH
KTSa KVI KVOR KWG KWKH
WABC WACO WADC WALA WBNS
WBRC WCAO WCCO WDAE WDBJ
WDBO WDNC WESG WFBL WFEA
WHAS WHK WIBX WJAS WJR
WKRc WLHZ WMBD WMBR
WMMN WOC WOKO WORC WPG
WQAM WSBT WSJS WSPD WTOC

E-12:30 p.m., C-11:30 a.m., M-10:30, P-9:30

C — Salt Lake Tabernacle Choir

CFRB KFAB KFBK KFBK KFH
KFPY KFRC KGB KLZ KOH KOL
KRLD KSL KTRH KTSa KVI KFO
KWG WABC WACO WADC WALA
WBG WBNS WBRC WCAO WCCO
WDAE WDBJ WDBO WESG WFBL
WFEA WGR WHAS WIGG WJAS
WJR WHKc WLBC WMBR WMMN
WOC WOKO WORC WQAM WSBT
WSJS WSPD WTOC

E-1:00 p.m., C-Noon, M-11:00 a.m., P-10:00

C — Church of the Air

KFBK KFH KFPY KFRC KGB
KHK KMOX KOH KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSa KVI
KVOR KWG WABC WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDHC WESG WFBL WFBM
WGR WHAS WHP WIBX WJAS
WJSV WKBN WKRC WLAC WLZ
WMBR WNBW WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD WTOC WVA

E-2:00 p.m., C-1:00, M-Noon, P-11:00 a.m.

B — Magic Key of RCA

CFRC CRCT KDKA KDYL KFI
KFYR KGU KGW KHQ KOA KOMO
KPO KPRC KSO KSTP KTBS
KTIS KYOO KWK WAPI WAVE
WBAL WBZ WBZA WCKY WDAY
WBCB WENR WFaa WFIL WFLA
WGAR WHAM WHIO WIBA WIOD
WIRE WIS WJAX WJDX WJZ WKY
WMAL WMC WMT WOA1 WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWCN
WXYZ

E-3:00 p.m., C-2:00, M-1:00, P-Noon

C — Everybody's Music

CFRB CKAC KFAB KFBK KFH
KGKO KGVO KLRA KLZ KMBC
KMOX KNOW KOL KRLD KSCJ
KSL KTRH KTSa KWKH WAHC
WADC WALA WBNS WBT WCAO
WCCO WCHS WDAE WDBJ WDBO
WDRC WEEL WFEA WFBL WFBM

WHAS WHK WHP WIBX WJAS
WJR WJSV WKBB WKBN
WKWB WKRC WLAC WLZ WBNS
WMBD WMBG WMBR WMMN
WNBW WOC WOKO WORC WPAR
WPRO WQAM WSBT WSJS WTAQ
WTOC WWL

E-5:00 p.m., C-4:00, M-3:00, P-2:00

C — The Silver Theater

CFRB CKAC KFAB KFPY KLZ
KMBC KMOX KNOW KNX KOIN
KOL KOMA KRLD KRNT KSFO
KSL KTRH KTSa KTUL KVI
WAHC WADC WBBM WBNS WCAO
WCAU WCCO WDAE WDRC WEEI
WGAR WGR WGST WHAS WHFC
WHIO WJAS WJR WJSV WKRC
WMBR WOKO WPRO WQAM WWL

R — Marion Talley

KDYL KFI KGW KHQ KOA KOMO
KPO KSTP KYW WBN WCAE
WCOL WCHS WDAF WDEL WFAE
WFCB WFBY WGY WHO WIBA
WIRE WJAR WMAQ WNAC WOOD
WOW WRC WSAI WTAG WTAM
WTIC WTMJ WWJ

B — Metropolitan Opera Auditions

CFRC CRCT KARK KDKA KECA
KEX KFEL KFI KFSD KFYR KGA
KGIR KGNC KGO KGU KJR KLO
KOIL KPRC KSO KTBS KYOO
KWK WABY WAPI WAVE WBAL
WBAP WBZ WBZA WCKY WSCC
WDAY WEAN WEBR WENR WFIL
WFLA WHAM WHK WHC WJDX
WIS WJAX WJDX WJZ WKY WMAL
WMC WMT WOA1 WOV WPTF
WREN WRD WSB WSM WSMB
WSOC WSPD WSYR WTAR
WTCN WWCN WXYZ

E-5:30 p.m., C-4:30, M-3:30, P-2:30

C — Guy Lombardo and Orchestra

KFH KMBC KMOX KOMA KTUL
WAAB WABC WBNS WCAO WCAU
WDRC WEAN WFBL WFBM WGR
WHAS WHFC WHK WIBX WICC
WJR WJSV WHAS WOKO WORC
WSPD WVA

B — Smiling Ed McConnell

KANS KDKA KECA KERN KEX
KFBK KFSD KFYR KGA KGIR
KGO KJR KLO KMJ KOIL KSO
KTAR KWG KWK WAVE WBAL
WBZ WBZA WCKY WCOL WDAY
WDSU WEAN WEBC WEBR WENR
WFIL WHAM WHK WHC WJZ
WMAL WMT WREN WRD WSM
WSPD WSYR WTCN WXYZ

R — Joe Rines; Sheila Barrett

CFRC CRCT KDYL KFI KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KVOO KYW WAPI
WBAP WBN WCAE WCHS WDAF
WDEL WFAE WFBY WFLA WGY
WHIO WHOD WIRE WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMBG WMC WNAC WOA1 WOV
WPTF WRC WSB WSMB WSOC
WTAG WTAM WTAR WTIC

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

C — Joe Penner; Gene Austin

KFAB KFPY KGLO KLZ KMBC
KMOX KNOW KNX KOIN KSL
KOMA KRLD KRNT KSFO KSL
KTRH KTSa KVI WABC WBBM
WBNS WBRC WBT WCAO WCAU

WCCO WDAE WDBO WDRC WEEI
WFBL WFBM WGAR WGST WHAS
WHFC WJAS WJR WJSV WKBB
WKRC WOKO WORC WPRO WQAM
WREC WRVA

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

C — Seymour Simon's Orchestra

KDAL KFAB KFBK KFH KFPY
KGKO KGVO KLRA KLZ KMBC
KMOX KNOW KNX KOH KOIN
KOL KOMA KOY KRLD KRNT
KSCJ KSFO KSL KTRH KTSa
KTUL KVI KVOR KWKH WAHC
WACO WADC WAIM WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCHS WCOA WCCO
WDAE WDBJ WDBO WDNC WDOB
WDRC WEEI WEOA WFBL WFBM
WGAR WGBI WGST WHAS WHFC
WHIO WHP WIBX WIRX WISN
WJAS WJNO WJR WJSV WKBB
WKBB WKBN WKWB WKRC
WLAC WLZ WBNS WMBD WMBR
WMMN WNAX WNBW WNOX WOC
WOKO WORC WPAR WPG WPRO
WQAM WREC WRVA WSBT WSPA
WSJS WTAQ WTOC WWL WVA

R — A Tale of Today

WHEN WEAF WGY WJAR WMAQ
WOW WRC WTAM

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

C — Jeanette MacDonald

KFAB KFH KFPY KLZ KMOX
KNOW KNX KOIN KOL KOMA
KRLD KRNT KSFO KSL KTRH
KTSa KTUL KVI KWKH WAHC
WADC WBBM WBIG WBRC WBT
WCAO WCAU WCCO WDRC WEEI
WFBL WFBM WGAR WGBI WGR
WGST WHAS WHFC WHIO WJAS
WJR WJSV WKRC WOKO WORC
WREC WRVA WTOC WWL

R — Jack Benny; Mary Livingstone

KSD KYA KYW WBN WCAE
WCHS WDAF WFAE WFBY WGY
WHO WJAR WLW WMAQ WNAC
WOW WRC WTAG WTAM WTIC
WWJ

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

C — Phil Baker; Oscar Bradley

KLRA KLZ KRLD KTRH KTSa
KTUL KWKH WABC WACO WADC
WALA WBIG WBNS WBRC WBT
WCAO WCAU WCOA WDAE WDBJ
WDBO WDNC WDOB WDAE WEAN
WFBL WFBM WFEA WGR WGST
WHAS WHFC WHK WHP WIBX
WICC WJAS WJR WJSV WKBN
WKRC WLAC WLZ WBNS WMBR
WNAC WNOX WOKO WORC WQAM
WREC WSBT WSPA WSJS WSMK
WSPD WTOC WWL WVA

R — Fireside Recitals

KSD KYW WBN WCAE WCHS
WDAF WFAE WFBY WGY WIRE
WJAR WMAQ WOW WRC WSAI
WTAG WTAM WTIC WWJ

B — Ozzie Nelson; Harriet Hilliard

KARK KDKA KECA KFEL KEX
KFSD KFYR KGA KGO KJR KLO
KOIL KPRC KSO KSTP KTRH
KTBS KTIS KYOO KWK WABY
WAPI WAVE WBAL WBAP WBZ
WBZA WCKY WCOL WDAY WEAN
WEBC WENR WFIL WFLA WHAM
WHK WIBA WICC WHOD WIS
WJAX WJDX WJZ WKY WLEU

SUNDAY (Continued)

WLS WMAL WMC WMT WOAI
WPTF WREN WRTD WSB WSM
WSMB WSOC WSUN WSYR WTAR
WTMJ WVMC WXYZ

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

C — Columbia Workshop

KFAB KFH KFPY KLRA KLZ
KMBC KMOX KNX KOIN KOL
KOMA KRLD KRNT KSCJ KSPD
KSL KTRH KTSa KTUL KVI
KWKH WABC WADC WBAW WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDRS
WEEI WFBL WFRM WGR WGST
WHAS WHFC WHHO WHK WHP
WIBX WJAS WJR WJSV WKB
WKRC WLAC WLBZ WMAS WMBG
WMBR WMAX WNBH WNOX WOKO
WORC WPRO WQAM WREC WSBT
WWL WWVA

R — Don Ameche; Edgar Bergen

CFCE CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KVVO
KYW WAVE WBEN WCAE WCSH
WDAF WDAY WFAE WFCB WFAA
WFBW WFLA WGY WHO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WNAC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

B — General Motors Concert

KANS KDKA KERN KECA KFBK
KFEL KFSD KGA KGHL KGIR
KGO KGW KJR KLO KMJ KOIL
KSO KVOD KWG KWK KXYZ
WABY WAGA WBAL WBCM WBOW
WBZ WBZA WCKY WCOL WDSU
WEAN WEBR WFBW WFEA WFIL
WGBF WGL WHAM WHK WICC

WJBO WJIM WJTN WJZ WLEU
WLS WMAL WMP5 WMT WORK
WROL WRTD WSGN WSMK WSPD
WSUN WSYR WXYZ

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

C — Ford Concert

CFRR CKAC KDB KERN KFAB
KFBK KFH KFPY KFRC KGB
KGEO KHJ KLRA KLZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSa KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBMM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNC WDDO WDRS
WEAN WFBL WFRM WFEA WGR
WGST WHAS WHFC WHK WHP
WIWV WIBX WICC WISN WJAS
WJR WJSV WKBN WKRC WLAC
WLBZ WMAS WMBD WMBR WNAC
WNX WOC WOKO WORC WQAM
WREC WSBT WSFA WSJS WSPD
WTOC WWL WWVA

B — Tyrone Power; Drama

KDKA KECA KFSD KGA KGHL
KGIR KGO KJR KLO KOIL KSO
KTAR KWK WBAL WBZ WBZA
WBCB WEBR WENR WFIL WGAR
WHAM WICC WJZ WLW WMAL
WMT WREN WSYR WXYZ

R — Manhattan Merry-Go-Round

CFCE KDYL KFI KFYZ KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTHS KYW WAVE
WBEN WCAE WCKY WCSH WDAF
WDAY WFAE WFCB WEEI WFAA
WFBW WFLA WGY WHO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WMJ WWJ WWNC

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

R — Album of Familiar Music

CFCE CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KYW WAPI
WAVE WBEN WCAE WCSH WDAF
WDAY WFAE WFCB WEEI WFAA
WFBW WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOW
WPTF WRC WRVA WSAI WSB
WSM WSMB WSOC WTAG WTAM
WTAR WMJ WWJ WWNC

B — Walter Winchell

KDKA KECA KEX KFSD KGA
KGHL KGIR KGO KJR KLO KOIL
KSO KTAR KWK WBAL WBZ
WBZA WENR WFIL WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

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

R — James Melton

KDYL KFI KGBX KGW KHQ KOA
KPO KPRC KSD KSTP KTAR KTBS
KTHS KYW WAVE WBAP WBEN
WCAE WCSH WDAF WFAE WFBW
WFLA WGY WHO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WMAQ WMC WNAC WOAI
WOOD WOW WPTF WRC WRVA
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTIC WMJ WWJ
WWNC

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

B — Walter Winchell

KDYL KFI KFSD KGHL KGIR
KGO KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS WAPI WAVE
WBAP WJDX WKY WMC WOAI
WSB WSM WSMB

Nola Day, lovely brunette contralto heard with Cloutier's Orchestra twice weekly on the NBC Blue Network, has the distinction of being the only Icelander on radio. Miss Day came to America a child and grew up in the Northwest. She was a Chautauqua singer before getting her radio start three years ago with Meredith Willson's San Francisco orchestra.

Edwin Franko Goldman, the composer-conductor whose Summer night concerts from the Central Park Mall are projected on NBC, is a pioneer broadcaster. He has been associated with radio ever

since he was first heard on the air from WJZ when its transmitter was located in Newark, N. J. The bandmaster began as a cornetist and for ten years was in the Metropolitan Opera orchestra under the direction of Walter Damrosch.

Art Van Harvey and Bernadine Flynn, NBC's Vic and Sade, have a grand time with the Sunday papers but with different sections. Van Harvey is an avid reader of the travel and resort pages, promising himself all sorts of cruises when he retires. Miss Flynn's mind runs to country homes and estates and she gets a great thrill out of the real estate news.

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

C—Columbia; R—National (Red); B—National (Blue); M—Mutual

CONCERTS

Everybody's Music, 3 p.m. Sun., C
Frank Black, 2 p.m. Sun., B
Radio City Music Hall, 12:30 p.m. Sun., B
Don Voorhees, 8 p.m. Wed., C

DANCE BANDS

Ben Bernie, 9 p.m. Tues., B
Bunny Berigan, 8 p.m. Sat., C
Oscar Bradley, 7:30 p.m. Sun., C
Rex Chandler, 9 p.m. Sun., C
Jimmie Dorsey, 10 p.m. Thurs., R
Tommy Dorsey, 10 p.m. Fri., B
Shep Fields, 9 and 11:30 p.m. Sun., B
Lud Gluskin, 8:30 Wed., C
Al Goodman, 9 and 11:15 p.m. Thurs., R
Benny Goodman, 9:30 p.m. Tues., C
Johnny Green, 9:30 p.m. Tues., R
Phil Harris, 7 and 11:30 p.m. Sun., R
Horace Heidt, 8 p.m. Mon., C
Arnold Johnson, 6 p.m. Sun., M
Hal Kemp, 8:30 and 11:30 p.m. Fri., C
Wayne King, 8:30 p.m. Tues. and Wed., R; 10 p.m. Mon., C
Andre Kostelanetz, 9 p.m. Wed., C
Guy Lombardo, 5:30 p.m. Sun., C; 8:30 Thurs., M
Abe Lyman, 8:30 p.m. Mon., B; 9 p.m. Fri., R; 10 p.m. Wed., R
Russ Morgan, 8:30 and 11:30 p.m. Sat., C; 8 p.m. Tues., R
Ray Noble, 8 p.m. Mon., R
Raymond Paige, 9 p.m. Fri., C
Jacques Renard, 8:30 and 11 p.m. Sun., C
Andy Sanelia, 9 p.m. Sun., R
Phil Spitalny, 9:30 Mon., R
Rudy Vallee, 8 p.m. Thurs., R
Peter Van Steeden, 9 p.m. Wed., R
Don Voorhees, 5:30 p.m. Sun., P

DIALOG

Amos 'n' Andy, 7 and 11 p.m. daily, except Sat. and Sun., R
Bob Burns, 10 p.m. Thurs., R
Burns and Allen, 8 p.m. Mon., R
Easy Aces, 7 p.m. Tues., Wed., Thurs., B
Eddie Cantor, Wed. at 8:30, C
Ray Knight, 6 p.m. Sun., M
Beatrice Lillie, 8 p.m. Wed., B
Lum and Abner, 7:30 p.m. daily except Sat. and Sun., B
Ken Murray, 8:30 Wed., C
Pick and Pat, 8:30 and 11:30 p.m. Mon., C
Uncle Ezra's Radio Station, 7:15 p.m. Mon., Wed., Fri., R

DRAMA

Columbia Workshop, 7 p.m. Sun., C
Death Valley Days, 8:30 p.m. Fri., B
First Nighter, 10 p.m. Fri., R
Gang Busters, 10 p.m. Wed., C
Hollywood Hotel, 9 p.m. Fri., C
It Can Be Done, 8:30 Tues., B
Phillips Lord, 10 p.m. Wed., C
One Man's Family, 8 p.m. Wed., R
Irene Rich, 8 p.m. Fri., B
Tale of Today, 6:30 p.m. Sun., R

POPULAR PROGRAMS

Album of Familiar Music, 9:30 p.m. Sun., R
Major Bowes, 11:30 a.m. Sun. and 9 p.m. Thurs., C
Broadway Merry-Go-Round, 8 p.m. Wed., B
Cavalcade of America, 8 p.m. Wed., C

Chesterfield Program, 9 p.m. Wed., C
Cities Service Concert, 8 p.m. Fri., R
Contented Program, 10 p.m. Mon., R
Fireside Recitals, 7:30 p.m. Sun., R
Fleischmann Variety Hour, 8 p.m. Thurs., R
Hit Parade, 10 p.m. Wed., R; 10 p.m. Sat., C
Hollywood Hotel, 9 p.m. Fri., C
Husbands and Wives, 8 p.m. Tues., B
Magic Key of RCA, 2 p.m. Sun., B
Manhattan Merry-Go-Round, 9 p.m. Sun., R
March of Time, 9 p.m. Thurs., B
Maxwell House Show Boat, 9 p.m. Thurs., R
National Barn Dance, 9 and 11:30 p.m. Sat., B
Packard Hour, 9:30 p.m. Tues., R
Palmolive Hour, 9:30 p.m. Wed., C
Paramount on Parade, 12 noon Sun., R
Al Pearce and His Gang, 9 p.m. Tues., C
Professor Quiz, 9 p.m. Sat., C
Studebaker Champions, 10 p.m. Mon., B
True Adventures, 10 p.m. Thurs., C
Voice of Firestone, 8:30 p.m. Mon., R
Vox Pop, 9 p.m. Tues., R
Waltz Time, 9 p.m. Fri., R
Watch The Fun Go By, 9 p.m. Tues., C
We, The People, 7:30 p.m. Thurs., C

SINGERS

Kenny Baker, 7 and 11:30 p.m. Sun., R
Richard Bonelli, 7:30 and 10:45 p.m. Sat., C
Morton Bowe, 10 p.m. Fri., B
Bobby Dreen, 8:30 and 11 p.m. Sun., C
Rachel Caralay, 9 p.m. Sun., R
Jessica Dragonette, 8 p.m. Fri., R; 9:30 p.m. Wed., C
Phil Ducey, 8 and 11:30 p.m. Tues., R; 8:30 Sat., C
Deanna Durbin, 8:30 p.m. Wed., C
Mary Eastman, 9:30 p.m. Sat., C
Nelson Eddy, 8 p.m. Sun., R
Jack Fulton, 7 and 11 p.m. Mon. thru Thurs., C
Helen Jepson, 9 and 11:15 p.m. Thurs., R
Jones and Hare, 10 p.m. Sun., C
Frances Langford, 9 p.m. Fri., C
Shirley Lloyd, 7:30 p.m. Sun., B
Lullaby Lady, 10 p.m. Mon., R
Elizabeth Lennox, 8 p.m. Fri., C
Nick Lucas, 9 p.m. Tues., C
Lucille Manners, 8 p.m. Fri., R
Hein Marshall, 7:30 p.m., Sun., R
Ed McConnell, 5:30 p.m. Sun., B
Lucy Monroe, 9:30 p.m. Sun., R
Morin Sisters, 7:45 and 11 p.m. Sun., R
Frank Munn, 9:30 p.m. Sun. and 9 p.m. Fri., R; 8:30 p.m. Mon., B
Dorothy Page, 10:30 p.m. Sat., R
Frank Parker, 9 and 11:30 p.m. Sun., R
Jan Peerce, 6:30 p.m. Sun., C
Carmella Ponselle, 8 p.m. Fri., C
Virginia Rea, 6:30 p.m. Sun., C
Lanny Ross, 9 p.m. Thurs., R
Shirley Ross, 8:30 p.m. Wed., C
Margaret Speaks, 8:30 and 11:30 p.m. Mon., R
Gladys Swarthout, 10 p.m. Sun., R
Conrad Thibault, 9:30 p.m. Tues., R
Kay Thompson, 8:30 and 11:30 p.m. Fri., C
Trudy Woods, 9:30 p.m. Tues., R

TALKS

Boake Carter, 7:45 and 11:15 Mon., Wed., Fri., C
Jimmy Fidler, 10:30 p.m. Tues. and Fri., R
Floyd Gibbons, 10 p.m. Thurs., C
Eddie Guest, 8:30 p.m. Tues., B
Bob Ripley, 8 p.m. Sat., R
Sidewalk Interviews, 9 p.m. Tues., R
Lowell Thomas, 6:45 p.m. Mon. thru Fri., B
Walter Winchell, 9:30 and 11:15 p.m. Sun., B

Roster of DX Clubs

FOLLOWING is a list of radio clubs for both broadcast band and shortwave fans.

All-wave All-World DX Club, 214 George St., Sydney, NSW, Australia. Life membership, 3/6 (about 84c).

Before Breakfast DX Club, 309 S. Bedford Drive, Beverly Hills, Calif. Stanley La Rue, President.

British Long Distance Listeners' Club, 8-11 Southampton St., Strand, London WC2, England.

Canadian DX Relay, 2104 Lorne ave., Saskatoon, Sask., Canada. C. Hesterman, President. \$1.00 per year.

Chicago Short Wave Radio Club, P. O. Box 240, Chicago, Ill. Harold Wright, President. \$1.00 per year.

Globe Circlers' DX Club, 1652 Radcliff Ave., Bronx, N. Y. Raphael Geller, Pres.

Globe Radio DXers' Association, 61 Lipson St., Pt. Adelaide, SA, Australia. Arthur H. Preece, Secy. \$1.00 for Life Membership.

International DXers' Alliance, Bloomington, Ill. Charles P. Morrison, Pres. \$1.00 per year domestic, \$1.25 per year foreign.

International Short Wave Club, E. Liverpool, Ohio. Arthur J. Green, Pres. \$1.00 per year.

Jackson Short Wave League, 616 Fourth St., Jackson, Mich. Roy E. Chisholm, President.

KDKA DX Club, Station KDKA, Grant Bldg., Pittsburgh. No dues.

Liga Colombiana Radio DXers' Alliance, c/o Aurelio Linero, Aptdo. 330, Bogota, Colombia.

National Radio Club, 603 W. Market St., York, Pa. Robt. M. Weaver, Pres. \$1.25 per year.

Newark News Radio Club, 215 Market St., Newark, N. J. Irving

H. Potts, Pres. \$2.00 per year.

New Zealand DX Club, Box 1680, Wellington, New Zealand. Fees about 60c per year.

New Zealand DX Radio Association, P. O. Box 437, Dunedin, New Zealand. Entrance fee of 60c and yearly dues about \$1.56.

Phoenix Shortwave Listeners' Club, 1025 N. 9th St., Phoenix, Ariz. John Binder, Pres. \$1.00 per year.

Quixote Radio Club, Box 772, Santa Barbara, Calif. E. J. Shields, "Chots." Active members \$1.00 for twenty weeks; inactive members, \$1.00 for ten weeks.

Radio Club de Cuba, Lealtad 136, Havana, Cuba.

Radio Club Venezolano, Torre a Madrices No. 8 (altos), Caracas, Venezuela.

R9 Listeners' League, 7417-87th Ave., Woodhaven, N. Y. Alfred G. King, Pres.

Short Wave Cadets, 661 E. 109th St., Cleveland, Ohio. Francis Gmeiner, Sec'y.

Staten Island DX Club, 11 Marianne St., Port Richmond, N. Y.

Union Radio Americana, Apartado 40, Heredia, Costa Rica. Amando Cespedes Marin. \$1 for life Membership.

Universal DX Club, 345 Maple Ave., Oradell, N. J. Alfred J. Stansfield, Pres. \$1.00 per year.

Universal Radio DX Club. 2018 Green St., San Francisco, Calif. Charles C. Norton, Pres. \$1.00 per year.

World Wide Dial Club, 918 W. Gunnison St., Chicago, Ill.

Any radio clubs which have been overlooked in this list will be included in our next listing if their secretaries will write us, giving full particulars about their organizations.

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

Frequencies are given in megacycles. Power is given in parentheses in kilowatts. Schedules are shown in Eastern Standard Time by the 24-hour clock. All schedules daily unless otherwise noted.

Time Conversion Table on Page 62

<p>1.715 to 2.000 Amateur Stations.</p> <p>2.500 XEXP Monterrey, N. L. (.03).</p> <p>3.500 to 4.000 Amateur Stations.</p> <p>3.040 YDA Tandjong Priok, Java, N.E.I. (10.).</p> <p>4.273 RV15 Khabarovsk, USSR (Siberia). (20.). 0100-1800.</p> <p>4.600 HC2ET Guayaquil, Ecuador. Wed., Sat., 2100-2230.</p> <p>4.795 VE9BK Vancouver, B. C. (.25).</p> <p>4.810 YDE2 Solo, Java, N.E.I. (.1).</p> <p>4.850 HJ3A BD Bogota, Colombia. (.05). 1930-2400.</p> <p>5.415 PMY Bandoeng, Java, N.E.I. (.45). 0530-1000.</p> <p>5.500 TI5HH San Ramon, Costa Rica. (.2). 2900-2330.</p> <p>5.710 TGS Guatemala City, Guat. (.2). Wed., Thurs., Sat., 1800-2100.</p> <p>5.725 HC1PM Quito, Ecuador. Sat., 2100-2300.</p> <p>5.758 YNOP Managua, Nicaragua. 2000-2130.</p> <p>5.775 YV2RA San Cristobal, Venez. 1800-2330.</p> <p>5.780 OAX4D Lima, Peru. (3.5). Mon., Wed., Sat., 2100-2330.</p> <p>5.800 YV5RC Caracas, Venez. (1.). Sun., 0830-2330. Weekdays 0700-2130.</p> <p>5.820 TIGPH San Jose, Costa Rica. 1100-1300; 1800-2200.</p> <p>5.850 YV1RB Maracaibo, Venez. Sun., 1145-1245. Weekdays 0845-0945; 1115-1215; 1645-2145.</p> <p>5.855 HI1J San Pedro de Macoris, D. R. (.04). 1200-1400; 1830-2100.</p> <p>5.875 HRN Tegucigalpa, Honduras. (.4). Sun., 2030-2130. Weekdays 2030-2200.</p> <p>5.880 YV3RB Barquisimeto, Venez. 1800-2200.</p> <p>5.885 HI9B Santiago, D. R. 1800-2300.</p> <p>5.905 TILS San Jose, Costa Rica. 1800-2300.</p> <p>5.910 HM2S Port-au-Prince, Haiti. 1900-2200.</p> <p>YV4RH Valencia, Venez. 1700-0100.</p> <p>5.930 PJC1 Willemstad, Curacao, N.W.I. (.15). 1835-2035.</p> <p>YV1RL Maracaibo, Venez. (.3). 1700-2230.</p> <p>5.940 TG2X Guatemala City, Guat. (.2). Sun., 1300-1400; Mon., Thurs., Sat., 1600-1800; 2200-2400.</p> <p>5.970 HJ4ABD Medellin, Colombia. 2000-2230.</p> <p>5.980 HJ2ABD Bucaramanga, Colombia. (.67). 1900-2300.</p> <p>6.000 OAX5C Ica, Peru. (.1). XEBT Mexico City, D. F. (1.). 1800-2400.</p> <p>6.005 CFCX Montreal, P. Q. (.075). 0700-2400.</p> <p>HP5K Colon, Panama. 1800-2300.</p> <p>VE9DN Montreal, P. Q. (.6).</p> <p>6.010 COCO Havana, Cuba. (.3). Sun. 2000-2200. Weekdays 1030-1300; 1600-2000.</p> <p>OLR2A Prague, Czechoslovakia. (35.). Mon., Wed., Fri., 1600-1630.</p> <p>6.012 HJ3ABH Bogota, Colombia. (1.2). 1800-2300.</p> <p>6.015 HI3U Santiago de los Caballeros, D. R. (.025). Mon. 2000-2100. Daily 0730-0930; 1200-1430; 1700-1930.</p> <p>XEWI Mexico City, D. F.</p>	<p>6.020 DJC Berlin, Germany. (50.). 1135-1630. XEUW Veracruz, Ver. (.02). 1800-2400.</p> <p>6.025 HJ1IABJ Santa Marta, Colombia. (.05). 1800-2230.</p> <p>6.030 HJ4ABP Medellin, Colombia. (2.5). 1800-2300.</p> <p>HP5B Panama City, Panama. (.1). 1700-2200.</p> <p>OLR2B Prague, Czecho. (35.). VE9EJ St. John, N. B. (.05). XEBQ Mazatlan, Sin. (.05).</p> <p>6.035 CXA2 Montevideo, Uruguay. (.5).</p> <p>6.040 PRA8 Pernambuco, Brazil. (3.). 1500-2000.</p> <p>W1XAL Boston, Mass. (10.). Sun. 1700-1900.</p> <p>W4XB Miami, Fla. (5.). YDA Tandjong Priok, Java, N.E.I. (10.).</p> <p>6.042 HJ1IABG Barranquilla, Colombia. (.15). 1100-2300.</p> <p>6.050 GSA Davenport, Gt. Britain. (20.).</p> <p>6.060 VQ7I O Nairobi, Kenya. 1100-2430. W3XAU Philadelphia, Pa. (10.). 2000-2300. W8XAL Cincinnati, Ohio. (10.). Daily 2300-0200. Sun. 0800-2000. Weekdays 0600-2000.</p> <p>6.062 SBG Motala, Sweden. (.5). 1330-1700.</p> <p>6.065 XEXR Mexico City, D. F.</p> <p>6.070 CFRX Toronto, Ont. (1.). 1000-2300. HJ3ABF Bogota, Colombia. (.05). 1900-2230.</p> <p>6.070 YV1RD Maracaibo, Venez. 1900-2400.</p> <p>6.075 VP3MR Georgetown, Brt. Guiana. 1700-2100.</p> <p>XEBW Guadalajara, Jal. (.045). XECU Guadalajara, Jal.</p> <p>6.080 DJM Berlin, Germany. (50.). HP5F Colon, Panama. VE9CS Vancouver, B. C. (.01). 1400-2400. W9XAA Chicago, Ill. (20.). Daily 1900-2200. Weekdays 0600-0730.</p> <p>6.082 OAX4Z Lima, Peru. (10.). 1900-2330.</p> <p>6.085 HJ5ABD Cali, Colombia. 1900-2200.</p> <p>6.090 CRCX Toronto, Ont. (1.). 1100-1900. HJ4ABC Ibague, Colombia. 2000-2200. HJ4ABE Medellin, Colombia. (1.). 1800-2230.</p> <p>6.100 W3XAL Bound Brook, N. J. (35.). 2115-0100. W9XF Chicago, Ill. (10.). 0005-0100; 1700-2005.</p> <p>..... Belgrade, Jugoslavia. (1.). 1200-1700.</p> <p>6.108 HJ4ABB Manizales, Colombia. 1800-2400.</p> <p>6.110 GSL London, Gt. Britain. (20.).</p> <p>5.115 HJ1IABB Barranquilla, Colombia. (.3). OLR2C Prague, Czecho. (35.).</p> <p>6.118 XEUZ Mexico City, D. F. (5.). 2300-0300.</p> <p>6.120 W2XE New York, N. Y. (10.). XEFT Veracruz, Ver. (.012). XEPW Mexico City, D. F. 2100-2400. YDA5 Bandoeng, Java, N.E.I. (1.5). HJ3ABX Bogota, Colombia. 1730-2230. OAX4P Huancayo, Peru. (.25). OAX6A Arequipa, Peru. (.1). CXA4 Montevideo, Uruguay. (1.). 1600-2145.</p> <p>6.128 OAX7A Cuzco, Peru. (.1).</p> <p>6.130 COCD Havana, Cuba. (.35). 1700-0100. VE9HX Halifax, N. S. (.5). 1700-2300.</p> <p>6.137 CR7AA Lourenco Marques, Port. East Africa. Sun. 0600-0900. Weekdays 9500-0700.</p>
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SHORTWAVE BROADCASTING STATIONS OF THE WORLD

6.138	HJ4ABD	Medellin, Colombia.	7.100	FO8AA	Papeete, Tahiti. (.2). Tues., Fri.. 2300-2400.
6.140	WBXK	Pittsburgh, Pa. (40.). 2200-sign off.	7.200	YNAM	Managua, Nicaragua. 2000-2400.
6.145	HJ4ABU	Pereira, Colombia. 1800-2200.	7.380	XECR	Mexico City, D. F. (20.). Sun., 1800-2000.
6.150	CB615	Santiago, Chile.			
	CJRO	Winnipeg, Man. (.2). 1800-2400.			
	H15N	Ciudad Moca, D. R. (.1). 1900-2000.	7.797	HBP	Radio Liberté. 1900-2000.
	VPB	Colombo, Ceylon. (.3). 0700-1030.			
6.158	YV5RD	Caracas, Venez. 1030-1330; 1530-2200.	7.894	YSD	San Salvador, E. S. 2100-2230.
6.174	XEXA	Mexico City, D. F. 1700-2100.	8.400	HC2CW	Guayaquil, Ecuador.]
6.190	H11A	Santiago de los Caballeros, D. R. (.05). Weekdays 2000-2200.	8.608	HC1EC	Quito, Ecuador.
6.200	COKG	Santiago, Cuba. (.05). Daily exc. Sat. 0900-2300.	8.650	YN1PR	Managua, Nicaragua.
	H18Q	Trujillo, D. R. 1700-1900.	8.655	W10XDA	Effie M. Morrissey. (.1).
	XEXS	Mexico City, D. F.	8.665	COJK	Camaguey, Cuba. (2.4). 1800-0100.
6.210	YV1RI	Caro, Venez. (.15). 1700-2200.	8.950	HCJB	Quito, Ecuador. (.15). Mon., Wed., Sat., 0200-0400; 1300-1500.
6.215	TG2	Guatemala City, Guat.	9.030	COBZ	Havana, Cuba.
6.230	OAX4G	Lima, Peru. (.4). 1900-2130.	9.125	HAT4	Budapest, Hungary. (20.). Sun., Wed., 1900-2000. Sat., 1800-1900.
	YV1RG	Valera, Venez. 1730-1930.	9.330	OAX4J	Lima, Peru. (2.). 1200-1500; 1700-0100.
6.235	HC2RL	Guayaquil, Ecuador.	9.345	HLB	Geneva, Switz. (20.). Daily exc. Sat., 1930-1945.
	HRD	La Ceiba, Honduras. (.25). 2000-2300.	9.350	HS8PJ	Bangkok, Siam.
6.243	H1N	Trujillo, D. R. (.75).	9.363	COBC	Havana, Cuba.
6.250	YV5RI	Caracas, Venez.	9.415	PJC2	Willemstad, Curacao, N.W.I.
6.270	YV5RP	Caracas, Venez. (1.2).		PLV	Bandoeng, Java, N.E.I. (80.). 1000-1100.
6.280	COHB	Sancti-Spiritus, Cuba. (.15). 2108-2300.	9.428	COCH	Havana, Cuba. (.15). 0700-0100.
	H1G	Trujillo, D. R. (.05).	9.445	HC2RA	Guayaquil, Ecuador. Sun. 1600-2200. Daily 2100-2200.
6.300	YV4RD	Maracay, Venez. 1700-2300.	9.450	HC2ODA	Guayaquil, Ecuador. 2100-2200.
6.312	ZP14	Villarrica, Paraguay (1.). 1100-1700.		TGWA	Guatemala City, Guat. (.2). Sun. 0000-0600. Daily 2000-2400.
6.315	H1Z	Trujillo, D. R. (.1).			Fort de France, Martinique. 1100-1200; 1700-1800.
6.330	COCW	Havana, Cuba. 0700-2400.	9.460	XGOX	Nanking, China. (.5).
6.340	H1IX	Trujillo, D. R. (.5). Tues., Fri., 2000-2200.	9.470	PJC1	Willemstad, Curacao, N.W.I. (.15). Sun. 1035-1235.
	OAX1A	Chiclayo, Peru. (.2). 2000-2300. Sat. 2000-2400.	9.480	EAR	Madrid, Spain. (20.). Mon. at 2000; Tues., Fri. at 2100.
6.350	HRP1	San Pedro Sula, Honduras.		XEDQ	Guadalajara, Jal. 1900-0100.
6.360	YV1RH	Maracaibo, Venez. 1900-2400.	9.500	EAC	Madrid, Spain.
6.380	YV5RF	Caracas, Venezuela.		HJ1ABE	Cartagena, Colombia. 1700-1800; 2000-2230.
6.400	YV5RH	Caracas, Venezuela.		VK3ME	Melbourne, Australia. (5.). Daily exc. Sun. 0400-0700.
6.410	TIPG	San Jose, Costa Rica. (1.). 1800-2230.		XEWW	Mexico City, D. F. (10.). 0800-2400.
6.416	YV6RC	Bolivar, Venez.	9.501	PRF5	Rio de Janeiro, Brazil. (60.). 1645-1745.
6.420	H11S	Santiago, D. R. (.02). 1800-2300.	9.504	OLR3B	Prague, Czecho. (35.).
6.425	OAX4K	Lima, Peru. (.2).	9.505	CXA8	Montevideo, Uruguay.
	W3XL	Bound Brook, N. J. (100.). Irreg.		TILS	San Jose, Costa Rica.
	W10XDA	Effie M. Morrissey (.1).		XEFT	Veracruz, Ver. (.02). 1930-2400.
6.450	H14V	San Francisco de Macoris, D. R. (.025).	9.510	GSB	Daventry, Gt. Britain. (20.). 0200-0415; 1220-1545; 1600-1800; 2000-2300.
6.479	H18A	Trujillo, D. R.		HJU	Buenaventura, Colombia. Mon., Wed., Fri. 2080-2300.
6.500	H1L	Trujillo, D. R. (.05).		HS8PJ	Bangkok, Siam. Mon., Thurs., 0800-1000.
	YV1RM	Maracaibo, Venez.	9.520	HJ4ABH	Armenia, Colombia. (1.). 0800-1100; 1800-2200.
6.508	Radio Guardia Civil,	Tetuan, Sp. Morocco. 1900-2000.		XEME	Merida, Yuc. (.015).
				YSH	San Salvador, E. S.
6.520	YV4RB	Valencia, Venezuela. 1700-2200.			Radio Liberté. 1900-2000.
6.534	EDR4	Palma, Majorca, Balearic Isl.	9.525	ZBW3	Hong Kong. (2.5). Sat. 2100-2400. Sun. 0000-0100; 0300-0930. Other days 0400-1000; 2330-0100.
6.540	YN1GG	Managua, Nicaragua.	9.530	LKJ1	Jeloy, Norway. (1.). 0500-0800.
6.545	YV6RB	Bolivar, Venez. 2100-2300.		W2XAF	Schenectady, N. Y. (40.). Sat. 1200-2400. Other days 1600-2400.
6.550	T1RCC	San Jose, Costa Rica. (.5). Tues., Thurs., Sat. 1700-1800.	9.535	JZI	Nazaki, Japan. (50.).
	H14D	Trujillo, D. R. (.025). 1700-2000.	9.536	VPD2	Suva, Fiji. (2.). 0530-0700.
6.622	Prado	Rio Bamba, Ecuador. Thur. 2100-2300.	9.540	DJN	Berlin, Germany. (50.). 0005-0515; 0555-1100; 1650-2245.
6.630	H1T	Trujillo, D. R. (.2). Weekdays, 1800-2100.	9.550	OLR3A	Prague, Czecho. (35.).
6.690	T1EP	San Jose, Costa Rica. 1600-2300.			
6.700	T1VL	San Jose, Costa Rica.			
6.730	H13C	La Romana, D. R. 1745-2000.			
6.775	H1H	San Pedro de Macoris, D. R. (.15). 1900-2000.			
6.800	H17P	Trujillo, D. R. 1930-2100.			
6.820	XGOX	Nanking, China. (.5). 0530-0900.			
6.850	T1OW	Puerto Limon, Costa Rica. (.4). Sun., 1600-1700. Daily 1200-1300.			
6.990	VK8XI	Port Moresby, Papua.			
7.000	to 7.300	Amateur stations.			
7.034	EA9AH	Tetuan, Sp. Morocco. 1500-1700			

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

9.560	DJA	Bertin, Germany. (50.). 0005-0515; 0555-1100; 1650-2245.	11.718	CR7BH	Lourenco Marques, Port. East Africa. (2). Sun. 0530-0700. Other days 0430-0630.
	HJ1ABB	Barranquilla, Colombia. (.3).			
	YDB	Sourabaya I, Java, N.E.I. (1.).	11.720	CJRX	Winnipeg, Man. (2.). 1800-2400.
9.562	OAX4T	Lima, Peru. (10.). 1130-1330.		TPA4	Pontoise, France. 0615-1300.
9.565	VUB	Bombay, India. (4.5).	11.730	PHI	Hilversum, Netherlands. (23.6).
	YV3RB	Barquisimeto, Venez.		XETM	Villahermosa, Tab.
9.570	KZRM	Manila, P. I.	11.740	HP5L	David, Panama. (.35).
	W1XK	Boston, Mass. (10.). Sun. 0800-0100. Weekdays 0600-0100.	11.750	GSD	Daventry, Gt. Britain. (20.). 0200-0415; 1220-1545; 1820-2030; 2100-2300.
	W8XK	Pittsburgh, Pa. (40.). (Not used).			
9.575	HJ2ABC	Cucuta, Colombia. (.25).	11.760	OLR4B	Prague, Czecho. (35.).
9.580	GSC	Daventry, Gt. Britain. (20.).	11.770	DJD	Berlin, Germany. (50.). 1135-1630; 1650-2245.
	VK3LR	Melbourne, Australia. (.5). 0100-0945.	11.790	CJRX	Winnipeg, Man. (2.). 1800-2400.
9.585	VK2ME	Sydney, Australia. (20.). Sun. 0000-0200; 0500-0900; 1130-1330.		W1XAL	Boston, Mass. (10.). Weekdays 1700-1830.
9.590	PCJ	Huizen, Netherlands. (20.). Sun. 1400-1500. Mon. 1900-2000. Tues. 1330-1500. Thurs. 1900-2200.	11.795	DJO	Berlin, Germany. (8.).
	VK6ME	Perth, Australia. (5.). Weekdays 0600-0800.	11.796	OAX5A	Ica, Peru. (.1). 1200-1600; 1900-2330.
	W3XAU	Philadelphia, Pa. (10.). 1200-2000.	11.800	COGF	Matanzas, Cuba. (1.). 1300-1600; 1800-2200.
	W8XAL	Cincinnati, Ohio. (10.). (Under construction).		1ZJ	Nazaki, Japan. (50.). 1500-1600; 1630-1730; 0800-0900.
9.595	HBL	Geneva, Switzerland. (18.). Sat. 1730-1830.		OER2	Vienna, Austria. (1.5). Weekdays 0900-1800.
	RAN	Moscow, USSR. 1900-2115.	11.805		Copenhagen, Denmark. 1830-2100.
9.600	CB960	Santiago, Chile. 1800-1930.	11.810	I2RO	Rome, Italy. (25.). Sun. 0645-1730. Mon., Wed., Fri. 0645-1930. Tues., Thurs., Sat. 0645-1945.
	XEYU	Mexico City, D. F. 1900-2200.			
9.605	HP5J	Panama City, Panama. (1.). 1830-2300.	11.820	GSN	Daventry, Gt. Britain.
9.618	HJ1ABP	Cartagena, Colombia. (.75). 1700-2300.		XEBR	Hermosillo, Son. (.15). 2100-2400.
9.630		Taihoku, Taiwan. 0430-1030.	11.830	KZRM	Manila, P. I.
9.635	I2RO	Rome, Italy. (25.).		W2XE	New York, N. Y. (10.). Daily 1830-1900. Sun. 1900-2400.
9.640		Unknown (Spanish). Sat. 2300-0200.		W9XAA	Chicago, Ill. (20.).
9.645	HH3W	Port-au-Prince, Haiti. (.03). 1300-1400; 1900-2000.	11.840	CSW	Lisbon, Portugal. (5.).
9.650	CT1AA	Lisbon, Portugal. (2.). Tues., Thurs., Sat., 1600-1900.		OLR4A	Prague, Czecho. (35.). Mon., Thurs., 1900-2100. Daily 1400-1415; 1430-1630.
9.660	CR6AA	Lohfo, Angola, Port. West Africa. (.5). Wed., Sat., 1445-1645.	11.855	DJP	Berlin, Germany. (50.).
	LRX	Buenos Aires, Argentina. (5.). 1030-2430.	11.860	GSE	Daventry, Gt. Britain. (20.).
9.670	T14NRH	Heredia, Costa Rica. 2100-2200; 2330-2400.		YDB	Sourabaya I, Java, N.E.I. (1.).
9.750	COCQ	Havana, Cuba. 0700-0100.	11.870	W8XK	Pittsburgh, Pa. (40.). 1900-2200.
9.850	EAQ	Madrid, Spain. (20.).	11.875	OLR4C	Prague, Czecho. (35.).
9.925	JDY	Darien, Manchukuo. 0715-0800.	11.880	XEXA	Mexico City, D. F. (1.).
9.940	CSW	Lisbon, Portugal. (5.). 1900-2000.	11.885	TPA3	Pontoise, France. 0200-0500; 1215-1800.
10.065	CQN	Macau, Portuguese China.	11.895	HP5I	Aguadulce, Panama. 1930-2130.
10.070		Communicative Station.		XEXR	Mexico City, D. F.
10.260	PMN	Bandoeng, Java, N.E.I. (1.5). 0530-1100.	11.900	OLR4D	Prague, Czecho. (35.).
10.330	ORK	Brussels, Belgium. (11.). 1330-1500.		XEWI	Mexico City, D. F. (.25). 1930-2400.
10.370	EAJ43	Santa Cruz de Tenerife, Canary Isl. 2000-2100.	11.955	IUC	Addis Ababa, Ethiopia.
10.430		Pirate station announcing "Radio Milan."	11.960	HI2X	Trujillo, D. R. (.5). Tues., Fri., 2000-2200. Sun. 0740-1040.
10.530	JIB	Taihoku, Taiwan. (6.). 0900-1030.	12.000	RNE	Moscow, USSR. (20.). Sun. 1000-1100. Sun., Wed., 0600-0700. Sun., Mon., Wed., Fri., 1600-1700.
10.660	JVN	Nazaki, Japan. (50.).	12.007	CB1109	Santiago, Chile.
10.670	CEC	Santiago, Chile. (4.).	12.120		Algiers, Algeria.
10.740	JVM	Nazaki, Japan. (50.).	12.235	TFJ	Reykjavik, Iceland. (7.5). Sun., 1345-1430.
10.823		"Radio Nacional," Salamanca, Spain. 1630-1800.	12.290	GBU	Rugby, Gt. Britain.
10.955	HS8PJ	Bangkok, Siam. (5.).	12.295	CB615	Santiago, Chile.
11.000	PLP	Bandoeng, Java, N.E.I. (1.5).	12.500	HIN	Trujillo, D. R. (.75).
11.040	CSW	Lisbon, Portugal. (5.). 1500-1900.	13.635	SPW	Warsaw, Poland. (10.). Mon., Wed., Fri., 1230-1330.
11.402	HBO	Geneva, Switz. Sat. 1845-2030.	13.986	DJS	Berlin, Germany. (20.).
11.450	COCX	Havana, Cuba. Sun. 1800-2100. Other days 0800-2400.	14.000 to 14.400		Amateur Stations.
11.698	SBG	Motala, Sweden. (.5). 0100-0130.	14.535	HBJ	Geneva, Switz. Sat. 1845-2100.
11.700	HP5A	Panama City, Pan. (.5). 2000-2330.	14.900	LZA	Sofia, Bulgaria.
		Saigon, Fr. Indo-China.	15.040	RKI	Moscow, USSR. 1900-2115.
11.710	XEWB	Guadalajara, Jal.	15.110	DJL	Berlin, Germany. (50.). 0000-0200; 0800-0900; 1135-1630. Sun., 0600-0800.
	YSN	San Salvador, E. S.	15.116	HLR5C	Prague, Czecho. (35.).
			15.120	OVJ	Vatican City. (10.). 1000-1030.

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

15.140	GSF	Daventry, Gt. Britain. (15.). 1045-1200; 1600-1800; 1820-2030.	17.770	PHI	Hilversum, Netherlands. (23.6). Sun., 0725-1025. Mon., Tues., Thurs., Fri., 0825-1000. Sat., 0825-1040.
15.150	YDC	Bandoeng, Java, N.E.I. (3.).	17.780	W3XAL	Bound Brook, N. J. (35.). Sun., 0900-1200; 1215-1845; 1900-2100. Weekdays 0900-1845; 1900-2100.
15.160	JZK	Nazaki, Japan. (50.). 0030-0130; 0800-0900; 1500-1600; 1630-1730.		W8XK	Pittsburgh, Pa. (40.).
15.170	XEWV	Mexico City, D. F. (10.).		W9XAA	Chicago, Ill. (5.).
15.175	CXA14	Montevideo, Uruguay.		W9XF	Chicago, Ill. (10.).
15.180	RV96	Moscow, USSR.	17.790	GSG	Daventry, Gt. Britain. (15.). 0200-0415; 0545-0855; 0915-1030; 1220-1545; 2100-2300.
15.180	GSO	Daventry, Gt. Britain. 0200-0415; 1600-1800; 1820-2030.	19.020	HS8PJ	Bangkok, Siam.
15.200	DJB	Berlin, Germany. (8.). Sun. 1110-1225. Daily 0005-0515; 0555-1100; 1650-2245.	21.450	OLR6A	Prague, Czecho. (35.).
15.210	W8XK	Pittsburgh, Pa. (40.). 0900-1900.	21.460	W1XAL	Boston, Mass. (10.).
15.220	PCJ	Huizen, Netherlands. (20.). Tues. 0430-0600. Wed. 0800-1100.	21.470	GSH	Daventry, Gt. Britain. 0545-0855; 0915-1200.
15.230	OLR5A	Prague, Czecho. (35.). 0930-1130.	21.480	W2XAD	Schenectady, N. Y. (25.).
15.243	TPA2	Pontoise, France. 0600-1100.	21.520	W2XE	New York, N. Y. (10.). Daily 0730-1030. Sun. 0800-1000.
15.250	W1XAL	Boston, Mass. (10.). Sun. 1015-1200. Weekdays 1430-1630.		W3XAU	Philadelphia, Pa.
15.260	GSI	Daventry, Gt. Britain. 1220-1545; 2100-2300.	21.530	GSJ	Daventry, Gt. Britain. 0545-0855; 0915-1200.
15.270	H13X	Trujillo, D. R. (5). Sun., 0800-1100.	21.540	W8XK	Pittsburgh, Pa. (40.). 0700-0900.
15.280	W2XE	New York, N. Y. (10.). Daily 1500-1800. Sun. 1300-1600; 1700-1800.	21.550	GST	Daventry, Gt. Britain.
15.280	DJQ	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-0515; 0600-0800; 0815-1100; 1650-2245.	25.950	W4XH	Spartanburg, S. C. (.05) (WSPA).
12.290	LRU	Buenos Aires, Arg. (5.). 0800-1000.		W6XKG	Los Angeles, Calif. (.1) (KGFL). 24 hours daily.
15.300	XEBM	Mazatlan, Sin. 1000-2300.		W9XUP	St. Paul, Minn. (1.) (KSTP)
15.310	GSP	Daventry, Gt. Britain. 1820-2030.	26.100	GSK	Daventry, Gt. Britain.
15.320	OLRSB	Prague, Czecho. (35.).		W9XJL	Superior, Wis. (.08) (WEBC).
15.330	W2XAD	Schenectady, N. Y. (25.). 1100-2100.	26.400	W9XAZ	Milwaukee, Wis. (.5) (WTMJ). 1300-2400.
15.340	DJR	Berlin, Germany. (50.). 0800-0900; 1650-2245.	26.550	W2XQD	Flushing, N. Y. (.1) (WMCA).
15.370	HAS3	Budapest, Hungary. (20.). Sun. 0900-1000.	27.100	W10XDA	Eff. M. Morrissey (.1).
15.440	XEBM	Mazatlan, Sin. (.05). 1000-2300.	28.000 to 30.000		Amateurs.
15.555	COSWX	Tunnicliffe, Cuba. (2.).	56.000 to 60.000		Amateurs.
17.310	W3XL	Bound Brook, N. J. (20.).	110.000 to infinity		Amateurs.
17.760	DJE	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-0515; 0555-1100.			
	W2XE	New York, N. Y. (10.).			

Time Conversion Table

The time given in our indices is Eastern Standard by the 24-hour clock.

EST 24-hr. Clock	EST Midn't	CST 11 pm	MST 10 pm	PST 9 pm	GMT 0500
0000		11 pm	10 pm	9 pm	0500
0100	1 am	Midn't	11 pm	10 pm	0600
0200	2 am	1 am	Midn't	11 pm	0700
0300	3 am	2 am	1 am	Midn't	0800
0400	4 am	3 am	2 am	1 am	0900
0500	5 am	4 am	3 am	2 am	1000
0600	6 am	5 am	4 am	3 am	1100
0700	7 am	6 am	5 am	4 am	1200
0800	8 am	7 am	6 am	5 am	1300
0900	9 am	8 am	7 am	6 am	1400
1000	10 am	9 am	8 am	7 am	1500
1100	11 am	10 am	9 am	8 am	1600
1200	Noon	11 am	10 am	9 am	1700
1300	1 pm	Noon	11 am	10 am	1800
1400	2 pm	1 pm	Noon	11 am	1900
1500	3 pm	2 pm	1 pm	Noon	2000
1600	4 pm	3 pm	2 pm	1 pm	2100
1700	5 pm	4 pm	3 pm	2 pm	2200
1800	6 pm	5 pm	4 pm	3 pm	2300
1900	7 pm	6 pm	5 pm	4 pm	2400
2000	8 pm	7 pm	6 pm	5 pm	0100
2100	9 pm	8 pm	7 pm	6 pm	0200
2200	10 pm	9 pm	8 pm	7 pm	0300
2300	11 pm	10 pm	9 pm	8 pm	0400
2400	Midn't	11 pm	10 pm	9 pm	0500

For times throughout the entire world consult the RADEX Time Converter.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KEY TO SYMBOLS

As shown in the Index by
Frequencies and Dial Numbers

Frequency is given in kilocycles; wave lengths in meters. Night power is shown in watts in third column. Daytime power is shown in parentheses in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

Second Column Symbols

- a Verifies reception for return postage.
- b Verifies only occasionally.
- c Does not verify.
- d Verification 10c; letter 25c.
- h Sends own station stamp for 10c.
- i Sends own station stamp for 5c.
- j Sends own station stamp for postage.
- k Has no stamps.
- m Verifies for 5c.

- n Weather or time only.
- z No information available.

Fourth Column Symbols

- B National "Blue" network.
- C Columbia network.
- D Day time only.
- Dn Day time with occasional evening hours.
- F Canadian Brdctg. Corp.
- M Mutual Brdctg. Sys.
- N National "Red" and "Blue" networks.
- P Has construction permit only.

- R National "Red" network.
- S Sunday only.
- Sy Synchronized.
- X Has permit to increase power.
- Y Has permit to change location.
- Z Has permit to change frequency.
- a-b-c. Small letters show stations using same transmitter.
- 1-2-3. Figures denote stations sharing time.
- No information.

540 keys. (555.2)

CJRM ak 1000 F Regina, Sask.

—J. Richardson & Sons, Ltd.

550 keys. (545.1)

CFNB mk 500 F (1) Fredericton, N. B.
 KFUD ak 500 2 (1) St. Louis, Mo.
 KFVR ak 1000 N (5) Bismarck, N. Dak.
 KOAC ak 1000 Corvallis, Ore.
 KSD ak 1000 2R (5) St. Louis, Mo.
 KTSA ak 1000 C (5) San Antonio, Tex.
 WDEV ak 500 D Waterbury, Vt.
 WGR ak 1000 C (5) Buffalo, N. Y.
 WKRC ak 1000 C (5) Cincinnati, Ohio
 WWSA ak 500 D Harrisonburg, Va.
 XEFC ak 100 Merida, Yuc.

—James S. Neill & Sons, York St.
 —Evangelical Luth. Synod 801 DeMun St.
 —Meyer Brdctg. Co., 320 Broadway
 —State Agricultural Col.
 —St. L. Post-Dispatch.
 —KTSA Brdctg. Co.
 —Chas. B. Adams, Adm.
 —Buffalo Brdctg. Corp., Rand Bldg.
 —Columbia Brdctg. Sys., Hotel Alma
 —Shenandoah Valley Brdctg. Corp.
 —Julio Molina Font., Calle 59, No. 517

560 keys. (535.4)

KFDM ak 500 (1) B Beaumont, Texas
 KLZ ak 1000 C (5) Denver, Colo.
 KSFO ak 1000 CXY San Francisco, Cal.
 KWTO ak 5000 D Springfield, Mo.
 WFIL ak 1000 BM Philadelphia, Pa.
 WIND ak 1000 (5) Gary, Ind.
 WIS ak 1000 N (5) Columbia, S. C.
 WQAM ak 1000 C Miami, Fla.

—Sabine Brdctg. Co., Inc., Box 2950
 —KLZ Brdctg. Co., Shirley-Savoy Hotel
 —Associated Brdcters, Inc., Russ Bldg.
 —Ozarks Brdctg. Co., St. Louis at Kimbrough
 —WFIL Brdctg. Co., Pub. Ledger Bldg.
 —Johnson-Kennedy Radio Corp.
 —Station WIS, Inc., 1811 Main St.
 —Miami Brdctg. Co., 327—1st Ave.

570 keys. (526.0)

GMCY ak 5000 Havana, Cuba
 KGKO ak 250 CY (1) Wichita Falls, Tex.
 KMTR ak 1000 Los Angeles, Calif.
 KVI ak 1000 C (5) Tacoma, Wash.
 WKBN ak 500 C1 Youngstown, Ohio
 WMCA ak 1000 New York, N. Y.
 WNAX ak 1000 C (5) Yankton, S. Dak.
 WOSU ak 750 1 (1) Columbus, Ohio
 WSYR ak 1000 B (WSYU) Syracuse, N. Y.
 WWNC ak 1000 N Asheville, N. C.

—Outran Cla., los Presidentes 215.
 —Ft. Worth Star-Telegram.
 —KMTR Radio Corp., 915 N. Formosa
 —Puget Sound Brdctg. Co., Rust Bldg.
 —WKBN Brdctg. Corp., 17 N. Champion
 —Knickerbocker Brdctg. Co., 1697 Broadway
 —WNAX Brdctg. Co., 2nd and Capitol
 —Ohio State University
 —Central N. Y. Brdctg. Corp.
 —Citizen-Times Co., Inc.

580 keys. (516.9)

GFPR ak 50 Prince Rupert, B. C.
 CHRC ak 100 Quebec, P. Q.
 CKCL ak 100 F Toronto, Ont.
 CKUA ak 500 Edmonton, Alta.
 KMJ ak 1000 N Fresno, Calif.

—Felix E. Batt, Box 132
 —CHRC, Ltd., Victoria Hotel
 —Dominion Battery Co., Ltd.
 —University of Alta.
 —McClatchey Brdctg. Co.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KSAC	ak	500	2 (1)	Manhattan, Kans.	—State College of Agriculture.
WGHS	ak	500	C (1)	Charleston, W. Va.	—Charleston Brdcastg. Co., 223 1/2 Capitol
WDBO	ak	1000	C	Orlando, Fla.	—Orlando Brdcastg. Co., Inc.
WIBW	ak	1000	2C (5)	Topeka, Kans.	—Topeka Brdcastg. Ass'n., Inc.
WILL	ak	1000	D	Urbana, Ill.	—University of Ill.
WTAG	ak	1000	R	Worcester, Mass.	—Telegram Pub. Co., Inc., 20 Franklin St.
XEMU	z	.....	.....	Piedras Negras, Coah.	—"Radio Comercial."

590 keys. (508.2)

KHQ	ak	1000	R (5)	Spokane, Wash.	—Louis Wasmer, Inc., Sprague & Post
WEEI	ak	1000	C (5)	Boston, Mass.	—Columbia Brdcastg. Sys.
WKZO	ak	1000	BDX	Kalamazoo, Mich.	—WKZO, Inc., Burdick Hotel
WOW	ak	1000	R (5)	Omaha, Nebr.	—Woodmen of the World, 4th & Farnum

600 keys. (499.7)

CBW	ak	500	F (1)	Windsor, Ont.	—Can. Brdcastg. Corp.
CFCF	ak	500	FN	Montreal, P. Q.	—Can. Marconi Co., Ltd.
CJOR	ak	500	.....	Vancouver, B. C.	—G. C. Chandler, 846 Howe St.
CMW	ak	1400	.....	Havana, Cuba	—Troncoso y Gil, Paseo Marti 105
KFSD	ak	1000	B	San Diego, Calif.	—Airfan Radio Corp., Ltd.
WCAO	ak	500	C (1)	Baltimore, Md.	—Monumental Radio Co., 811 W. Lanvale
WICC	ak	500	BM (1)	Bridgeport, Conn.	—Yankee Network, Inc., Strathfield Hotel
WMT	ak	1000	BM (5)	Cedar Rapids, Iowa	—Iowa Brdcastg. Co., Hotel Montrose
WREC	ck	1000	C (5)	Memphis, Tenn.	—WREC, Inc., Hotel Peabody

610 keys. (491.5)

KFRG	c	1000	M (5)	San Francisco, Cal.	—Don Lee Sys., 1000 Van Ness Ave.
WGLE	ak	500	DM	Cleveland, Ohio.	—Cleve. Brdcastg. Corp., 1224 Huron Rd.
WDAF	ak	1000	R (5)	Kansas City, Mo.	—Kansas City Star, 1729 Grand Ave.
WIP	ak	1000	.....	Philadelphia, Pa.	—Penn Brdcastg. Co., 35 S. Ninth

620 keys. (483.6)

KGW	ak	1000	R (5)	Portland, Ore.	—Oregonian Pub. Co., 325 Adler St.
KTAR	ak	1000	N	Phoenix, Ariz.	—KTAR Brdcastg. Co., 711 Heard Bldg.
WFLA	ak	1000	Na (5)	Greenwater, Fla.	—Fla. West Coast Brdcastg. Co.
WHJB	ak	250	CD	Greensburg, Pa.	—Pitt. Radio Sup. House.
WLJZ	ak	500	CM (1)	Bangor, Maine	—Maine Brdcastg. Co., 100 Main St.
WSUN	ak	1000	Na (5)	St. Petersburg, Fla.	—Chamber of Commerce, Recreation Pier
WTMJ	ak	1000	N (5)	Milwaukee, Wis.	—The Journal Co., 333 W. State St.

630 keys. (475.9)

CFCO	ak	100	F	Chatham, Ont.	—John Beardall, Wm. Pitt Hotel
CFCY	ak	1000	F	Charlottetown, P.E.I.	—Island Radio Brdcastg. Co., Queen St.
CJRC	ak	500	F (1)	Winnipeg, Man.	—Jas. Richardson & Sons.
CKOV	ak	100	F	Kelowna, B. C.	—Okanagan Brdcasters, Ltd., Box 243
CMBC	z	.....	.....	Havana, Cuba	—"El Progreso Cubano," Aptdo 132.
KFRU	ak	500	1 (1)	Columbia, Mo.	—KFRU, Inc., 9th & Elm Sts.
KGFX	ak	200	D	Pierre, S. Dak.	—Mrs. Ida A. McNeil, Box 573
WGBF	ak	500	B1 (1)	Evansville, Ind.	—Evans. on the Air, Inc., 519 Vine St.
WMAL	ak	250	B (5)	Washington, D. C.	—NBC, Inc., National Press Bldg.
WPRO	ak	500	C (1)	Providence, R. I.	—Cherry & Wehb Brdcastg. Co., 15 Chestnut
XEZ	z	500	.....	Merida, Yuc.	—Jorge L. Falomeque.

640 keys. (468.5)

CMCB	ak	150	.....	Havana, Cuba	—El Progreso Cubano, Maximo Gomez 139
KFI	ak	5000	R	Los Angeles, Calif.	—Earle C. Anthony, 1000 S. Hope
WGAN	z	500	DP	Portland, Maine	—Port. Brdcastg. Sys., Inc.
WHKC	ak	500	.....	Columbus, Ohio	—Associated Brdcastg. Corp.
WOI	ak	5000	D	Ames, Iowa	—State Col. of Agriculture
XEBX	z	250	.....	Sabinas, Coah.	—Benito Garza Ortegón

650 keys. (461.3)

WSM	ak	5000	MN	Nashville, Tenn.	—Nat'l. Life & Accident Insurance Co.
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

660 kcys. (454.3)

WAAW ak 500 D Omaha, Nebr.
WEAF ak 50000 R New York, N. Y.
XEAL z 1000 Mexico City, D. F.
XEAO ak 250 Mexicali, B. Cfa.

—Omaha Grain Exchange
—NBC, Inc., 30 Rockefeller Plaza
—Cia. Pan-Americana de Radio
—Luis L. Castro, Altamirano 156

670 kcys. (447.5)

WMAQ ak 50000 R Chicago, Ill.

—NBC, Inc., Merchandise Mart.

680 kcys. (440.9)

CMCG ak 1000 Havana, Cuba
KFEQ ak 2500 D St. Joseph, Mo.
KPO ak 50000 R San Francisco, Cal.
VAS akn 2000 685 Glace Bay, N. S.
VOWR ck 500 681 St. John's, Nfld.
WLAW z 1000 DP Lawrence, Mass.
WPTF ak 1000 N (5) Raleigh, N. C.

—La Onda, S. A., Calle Malecon 340
—KFEQ, Inc., Schneider Bldg.
—NBC, Inc., 111 Sutter St.
—Can. Marconi Co., Inc.
—Wesley United Church, Box 157
—Hildreth & Rogers Co.
—WPTF Co., 324 Fayetteville St.

690 kcys. (434.5)

CFRB ak 10000 C Toronto, Ont.
CJCJ ak 100 F Calgary, Alta.
XET ak 5000 Monterrey, N. L.

—Rogers Radio Brdcastg. Co., 37 Bloor St.
—Albertan Publishers, Ltd.
—El Pregonero del Norte, Aptdo. 203

700 kcys. (428.3)

WLW ak 500000 MN (W8X0) Cincinnati, O.

—Crosley Radio Corp., 1329 Arlington St.

710 kcys. (422.3)

KIRO ak 1000 Seattle, Wash.
KMPC ak 500 Beverly Hills, Calif.
WOR ak 50000 M Newark, N. J.

—Queen City Brdcastg. Co., 66 Cobb Bldg.
—B. Hills Brdcastg. Corp.
—Bamberger Brdcastg. Serv., Inc.

720 kcys. (416.4)

WGN ak 50000 M Chicago, Ill.
XEH ak 250 Monterrey, N. L.

—WGN, Inc., 435 N. Michigan
—Constantino de Ternava

730 kcys. (410.7)

CFPL ak 100 F London, Ont.
CJCA ak 1000 F Edmonton, Alta.
CKAC ak 5000 C Montreal, P. Q.
CKPR ak 100 F Fort William, Ont.
CMK ak 3000 Havana, Cuba
XEPN ak 100000 Piedras Negras, Coah.

—London Free Press, Richmond St.
—Taylor & Pearson Brdcastg. Co.
—La Presse Pub. Co.
—Dougall Motor Car Co.
—Cia. Nacional de Radio, Hotel Plaza
—P. N. Brdcastg. Co., Box 360

740 kcys. (405.2)

KMMJ ak 1000 D Clay Center, Nebr.
KTRB ak 250 D Modesto, Calif.
WHEB ak 250 D Portsmouth, N. H.
WSB ak 50000 N Atlanta, Ga.

—KMMJ, Inc.
—McTammany & Bates, Box 405
—Granite State Brdcastg. Corp., Box 522
—Atlanta Journal Co., Biltmore Hotel

750 kcys. (399.8)

CMCW dk 150 Havana, Cuba
KGU aj 2500 N Honolulu, Hawaii
WJR ak 50000 C Detroit, Mich.
XEAM z 25 Matamoros, Tams.

—“Radio Pilot”, San Lazaro 113
—Advertiser Pub. Co., Ltd.
—The Goodwill Station, Fisher Bldg.
—Manuel Salines.

760 kcys. (394.5)

CKY ak 15000 F Winnipeg, Man.
CMHX ak 200 Cienfuegos, Cuba

—Man. Teleph. Sys., Sherbrooke St.
—F. Chavarry, Box 205

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KXA ak 250 (.5) Seattle, Wash.
 WBAL ak 2500 BMSy Baltimore, Md.
 WEW ak 1000 D St. Louis, Mo.
 WJZ ak 50000 BSy New York, N. Y.
 XEOK ak 2500 Tijuana, B. Cfa.

—Am. Radio Tel. Co., 312 Bigelow Bldg.
 —WBAL Brdcstg. Co., Lexington Bldg.
 —St. Louis University, 221 N. Grand Blvd.
 —NBC, Inc., 30 Rockefeller Plaza
 —Carlos de la Serra, C. 5a, 312

770 kcys. (389.4)

CMBS ak 150 Havana, Cuba
 KFAB ak 10000 CSy Lincoln, Nebr.
 WBBM ak 50000 CSy Chicago, Ill.

—“Radio Grunow”, Calzada y H
 —KFAB Brdcstg. Co., Hotel Lincoln
 —CBS, 410 N. Michigan

780 kcys. (384.4)

CHWK dk 100 F Chilliwack, B. C.
 CKSO ak 1000 F Sudbury, Ont.
 CMJK ak 250 Camaguey, Cuba
 KEHE ak 1000 (5) Los Angeles, Calif.
 KFDY ak 1000 D Brookings, S. Dak.
 KFOD ck 250 Anchorage, Alaska
 KGHL ak 1000 N (5) Billings, Mont.
 WEAN ak 1000 BM Providence, R. I.
 WMC ak 1000 N (5) Memphis, Tenn.
 WTAR ak 1000 N Norfolk, Va.
 XEL z 1000 Mexico City, D. F.
 z 250 DP Longview, Wash.

—Chil. Brdcstg. Co., Ltd., Box 507
 —Sudbury Star, 23½ Elgin St.
 —Cia. Nacional de Radio, Finlay 3
 —Hearst Radio, Inc., 214 S. Vermont
 —S. Dak. State College, Box L
 —Anchorage Radio Club, Inc., 411—4th Ave.
 —N. W. Auto Supply Co.
 —Yankee Network, Inc., New Crown Hotel
 —M. Commercial Appeal Co.
 —WTAR Radio Corp.
 —Plaza de San Juan 15.
 —Twin City Brdcstg. Corp.

790 kcys. (379.5)

CMGH ak 500 Matanzas, Cuba
 KGO z 7500 B San Francisco, Cal.
 KOAM z 1000 DP Pittsburg, Kans.
 WGY ak 50000 R Schenectady, N. Y.

—“Rialto”, Box 87
 —NBC, Inc., 111 Sutter St.
 —Pittsburg Brdcstg. Co., 404 Commerce Bldg.
 —General Electric Co., 1 River Rd.

800 kcys. (374.8)

WBAP ak 50000 Na Fort Worth, Texas
 WFAA ak 50000 Na Dallas, Texas
 WTBO ak 250 D Cumberland, Md.

—Ft. Worth Star-Telegram
 —A. H. Belo Corp., Baker Hotel
 —Associated Brdcstg. Corp.

810 kcys. (370.2)

CMCF ak 600 X Havana, Cuba
 WCCO ak 50000 C Minneapolis, Minn.
 WNYC ak 1000 D New York, N. Y.
 XEDF z 75 Nuevo Laredo, Tams.
 XEXC z 350 Aguascalientes, Ags.

—Oscar Gutierrez, Paseo de Marti 9
 —CBS, Nicollet Hotel
 —City of N. Y.
 —Sr. Ruperto Villarreal.
 —Gobierno del E. de Ags.

820 kcys. (365.6)

GMHW ak 100 Cienfuegos, Cuba
 WHAS ak 50000 C Louisville, Ky.
 XEBG z 1000 Tijuana, B. Cfa.

—Ramon Gonzales, Box 226
 —Louisville Times Co., 300 W. Liberty
 —Angel B. Fernandez

830 kcys. (361.2)

CMJX ak 500 Camaguey, Cuba
 KOA ak 50000 N Denver, Colo.
 WEU ak 1000 D Reading, Pa.
 WHDH ak 1000 Dn Boston, Mass.
 WRUF ak 5000 Dn Gainesville, Fla.

—Teatro Principal, Box 23
 —NBC, Inc., 1625 California St.
 —Berks Brdcstg. Co., 533 Pennsylvania
 —Matheson Radio Co., 62 Boylston
 —University of Fla.

840 kcys. (356.9)

CFQC ak 1000 F Saskatoon, Sask.
 CRCT ak 5000 FN Toronto, Ont.
 VOGY ak 400 St. John's, Nfld.
 XERA ck 350000 Villa Acuna, Coah.

—A. A. Murphy & Sons.
 —Can. Brdcstg. Corp., 805 Davenport Rd.
 —Newfoundland Hotel
 —Brinkley Hospital (Del Rio, Texas)

850 kcys. (352.7)

CMCM z Havana, Cuba
 KIEV ak 250 D Glendale, Calif.
 WESG ak 1000 CD Elmira, N. Y.

—“Radio Columbia,” 23 No. 482, Vedado.
 —Cannon System, Ltd.
 —Cornell University, Mark Twain Hotel

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WKAR ak 1000 D E. Lansing, Mich. —Mich. State College
 WWL ak 10000 C New Orleans, La. —Loyola University.

860 kcys. (348.6)

WABC ak 50000 C (WBOQ) New York, N. Y. —CBS, 485 Madison Ave.
 WHB ak 1000 DM Kansas City, Mo. —WIB Brdctg. Co., Scarritt Bldg.
 XEMO ak 5000 Tijuana, B. Cfa. —Box 202, San Diego, Calif.
 XENC z 50 Mexico City, D. F. —Ignacio Barrueta

870 kcys. (344.6)

WENR ak 50000 Ba Chicago, Ill. —NBC, Inc., Merchandise Mart
 WLS ak 50000 Na Chicago, Ill. —Agricultural Brdctg. Co.
 XEFB ak 200 Monterrey, N. L. —Jesus Quintanilla, Box 317
 XEJW z Mexico City, D. F. —.....

880 kcys. (340.7)

CBO ak 1000 F Ottawa, Ont. —Can. Brdctg. Corp.
 CFJC ak 100 F Kamloops, B. C. —Review Pub. Co., Wilcox-Hall Bldg.
 CMQ ak 2500 X Havana, Cuba —La Casa de las Medias, Vedado
 KFKA ak 500 2M (1) Greeley, Colo. —Mid-Western Radio Corp., Box 735
 KKLX ak 1000 Oakland, Calif. —Tribune Bldg. Co.
 KPof ak 500 2X Denver, Colo. —Pillar of Fire, 1845 Champa St.
 WCOC ak 500 CX (1) Meridian, Miss. —Miss. Brdctg. Co., Inc., Box 603
 WGBI ak 500 CI (1) Scranton, Pa. —Scranton Brdctg. Co., 1000 Wyoming
 WQAN ak 500 1 (1) Scranton, Pa. —Scranton Times, 149 Penn Ave.
 WRNL ak 500 D Richmond, Va. —WLBG, Inc.
 WSUI ak 500 (1) Iowa City, Iowa —State Univ. of Iowa.

890 kcys. (336.9)

KARK ak 500 B (1) Little Rock, Ark. —Ark. Radio & Equip. Co.
 KFNF ak 500 2 (1) Shenandoah, Iowa —KFNF, Inc., 407 Sycamore
 KFPY ak 1000 C (5) Spokane, Wash. —Symons Brdctg. Co., Symons Bldg.
 KUSD ak 500 2 Vermillion, S. Dak. —Univ. of S. Dak.
 WBAA ak 500 (1) W. Lafayette, Ind. —Purdue University
 WGST ak 1000 C (5) Atlanta, Ga. —Ga. School of Technology, Ansley Hotel
 WJMR ak 1000 R Providence, R. I. —Outlet Co., Weybossett St.
 WMMN ak 500 C (1) Fairmont, W. Va. —Monongahela Valley Brdctg. Co.
 XEW ak 50000 Mexico City, D. F. —Cadena Radiodifusora Mex., Box 2516

900 kcys. (333.1)

KGBU ak 500 X Ketchikan, Alaska —Aaa. Radio & Serv. Co., 107 Front St.
 KHJ ak 1000 M (5) Los Angeles, Calif. —Don Lee Sys., 7th & Bixel Sts.
 KSEI ak 250 (1) Pocatello, Idaho —Radio Serv. Corp., 141 S. 6th
 WBEN ak 1000 R (5) Buffalo, N. Y. —WBEN, Inc., Hotel Statler
 WELI ak 500 D New Haven, Conn. —City Brdctg. Corp.
 WFMD ak 500 D Frederick, Md. —Monocacy Brdctg. Co.
 WJAX ak 1000 N (5) Jacksonville, Fla. —City of Jacksonville.
 WKY ak 1000 N (5) Oklahoma City, Ok. —WKY Radiophone Co.
 WLBL ak 5000 D Stevens Point, Wis. —State of Wis., Box 233
 WTAD ak 1000 D Quincy, Ill. —Ill. Brdctg. Corp., 510 E. Main

910 kcys. (329.6)

CBF z 50000 P Montreal, P. Q. —.....
 CJAT ak 1000 F Trail, B. C. —Kootenay Brdctg. Co., Box 1959
 XENT ak 150000 Nuevo Laredo, Tams. —Box 410, Laredo, Texas

920 kcys. (325.9)

CMX ak 1000 Havana, Cuba —Casa Lavin, Aptdo. 32
 KFEL ak 500 Ma Denver, Colo. —Eugene P. O'Fallon, Inc., Albany Hotel
 KOMO ak 1000 R (5) Seattle, Wash. —Fishers Blend Station, Inc., Skinner Bldg.
 KPRC ak 1000 N (5) Houston, Texas —Houston Ptg. Corp., Lamar Hotel
 KVDQ ak 500 Ba Denver, Colo. —Colo. Radio Corp.
 WAAF ak 1000 D Chicago, Ill. —Drovers Journal Pub. Co., Palmer House
 WORL ak 500 D Boston, Mass. —Brdctg. Serv. Org., Inc.
 WPEN ak 1000 1 Philadelphia, Pa. —Wm. Penn Brdctg. Co.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WRAX	ak	1000	I	Philadelphia, Pa.	—WRAX Brdcastg. Co., 217 S. Broad
WSPA	ak	1000	D	Spartanburg, S. C.	—Voice of S. C., Ravenel & Avant
WWJ	ak	5000	R	Detroit, Mich.	—Detroit News, 616 Lafayette Blvd.
XEAA	ak	200	.....	Mexicali, B. Cfa.	—Box 714, Calexico, Calif.

930 keys. (322.4)

CFAC	ak	100	F	Calgary, Alta.	—Taylor, Pearson & Carson
CFCH	ak	100	F	North Bay, Ont.	—Northern Brdcastg. Co., Ltd.
CFCL	ak	100	.....	Prescott, Ont.	—Radio Ass'n. of Prescott
CHNS	ak	1000	F	Halifax, N. S.	—Maritime Brdcastg. Co., Ltd.
CKPC	ak	100	F	Brantford, Ont.	—Telephone City Brdcastg. Ltd.
KMA	ak	1000	(5)	Shenandoah, Iowa	—May Seed and Nursery Co.
KROW	ak	1000	.....	Oakland, Calif.	—Educational Brdcast. Corp.
WBRC	ak	1000	G	Birmingham, Ala.	—Birm. Brdcastg. Co., Inc., Bankhead Hotel
WDBJ	ak	1000	G (5)	Roanoke, Va.	—Times World Corp., Box 150
XEBH	ak	500	.....	Hermosillo, Son.	—Carlos Halderamma, Aptdo. 68

940 keys. (319.0)

KOIN	ak	1000	C (5)	Portland, Ore.	—KOIN, Inc., New Heathman Hotel
VOAS	ak	100	.....	St. John's, Nfld.	—Ayre & Sons, Ltd., Water St.
WAAT	ak	500	D	Jersey City, N. J.	—Bremer Brdcastg. Corp., 50 Journal Sq.
WAVE	ak	1000	N	Louisville, Ky.	—WAVE, Inc., 1525 Brown Hotel
WGSB	ak	1000	R (2.5)	Portland, Maine	—Congress Sq. Hotel Co., The Eastland
WDAY	ak	1000	N (5)	Fargo, N. Dak.	—WDAY, Inc., 118 Broadway
WHA	ak	5000	D	Madison, Wis.	—University of Wis., Radio Hall
WICA	z	250	DP	Ashtabula, Ohio	—Ash. Star-Beacon, 221 Center St.
XEFO	ak	5000	.....	Mexico City, D. F.	—Radio Nacional, Av. 5 de Mayo 19 y 21
XEYO	z	500	.....	Mexico City, D. F.	—Partido Nac. Revolucionaria

950 keys. (315.6)

CJOC	ak	100	F	Lethbridge, Alta.	—Lethbridge Brdcastg. Co., Marquis Hotel
CMCD	ak	250	.....	Havana, Cuba	—"La Voz del Aire," S. A., Vedado
CRCK	ak	1000	F	Quebec, P. Q.	—Can. Brdcastg. Corp.
KFWB	ak	1000	(5)	Hollywood, Calif.	—Warner Bros. Brdcastg. Corp.
KMBC	ak	1000	C (5)	Kansas City, Mo.	—Midland Brdcastg. Co., Pickwick Hotel
WHAL	z	500	DP	Saginaw, Mich.	—Gross & Shields
WRC	ak	500	RX (1)	Washington, D. C.	—NBC, Inc., National Press Bldg.

960 keys. (312.3)

CFRN	ak	100	F	Edmonton, Alta.	—Sunwapta Brdcastg. Co.
CHNC	ak	1000	F	New Carlisle, P. Q.	—Gaspesian Radio Co., Box 101
XEAW	c	50000	.....	Reynosa, Tams.	—Cia. Int. Difusora Reynosa, Aptdo. 6

970 keys. (309.1)

CMBY	z	150	.....	Havana, Cuba	—Calle Infanta 132
CMGF	ak	100	977	Matanzas, Cuba	—B. de la Torre, Gral Betancourt 51.
KJR	ak	5000	B	Seattle, Wash.	—Fishers Blend Sta., Inc., Skinner Bldg.
WGFL	ak	5000	B	Chicago, Ill.	—Chi. Fed. of Labor, Lake Shore Drive
WIBG	ak	100	D	Glenside, Pa.	—Seaboard Radio Bc. Corp.

980 keys. (306.0)

KDKA	ak	5000	B	Pittsburgh, Pa.	—Westinghouse Elec., Grant Bldg.
XEAC	ak	250	.....	Tijuana, B. Cfa.	—Aurelio Mateus, Box 28
XEFE	z	150	.....	Nuevo Laredo, Tams.	—"Voice of the Border," Rafael T. Carranza

990 keys. (302.8)

WBZ	ak	50000	BSy	Boston, Mass.	—Westinghouse Elec. Co., Hotel Bradford
WBZA	ak	1000	BSy	Springfield, Mass.	—Westinghouse Elec. Co., Hotel Kimball
XEAF	ak	750	.....	Nogales, Son.	—Francisco G. Elias, Hotel Central
XEK	ak	100	.....	Mexico City, D. F.	—Arturo Martinez, Jalapa No. 51
XES	ak	250	.....	Tampico, Tams.	—Fernando Sada, Box 309

1000 keys. (299.8)

CMBZ	ak	500	(1)	Havana, Cuba	—Manuel y G. Salas, Aptdo. 866
KFVD	ak	1000	Dn	Los Angeles, Calif.	—Standard Brdcastg. Co.
VOCM	z	200	1006	St. John's, Nfld.	—St. John's Eve, Telegram

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WHO	ak 50000	R	Des Moines, Iowa	—Central Brdcastg. Co., 914 Walnut St.
XEBI	ak 25		Aguascalientes, Ags.	—Alejandro Diaz
XEBK	ak 100		Nuevo Laredo, Tams.	—"Indo Latin Voice."
XEXS	z 100		Portable in Mexico	—Dpto. de Salubridad Publica

1010 kcys. (296.9)

CHML	ak 100	F	Hamilton, Ont.	—Maple Leaf Radio Co., Ltd.
CKCD	ak 100	F	Vancouver, B. C.	—Van. Daily Province, 198 Hastings, W.
CKCK	ak 1000	F	Regina, Sask.	—Leader-Post, Ltd., 1853 Hamilton
CKCO	ak 100	F	Ottawa, Ont.	—Dr. G. M. Geldert, 272 Somerset
CKIC	ak 50		Wolfville, N. S.	—Acadia University
CKWX	ak 100	F1	Vancouver, B. C.	—Western Brdcastg. Co., 801 W. Georgia
CMJA	ak 300		Camaguey, Cuba	—Rafael Valdez, Box 64
KGGF	ak 1000	2M	Coffeyville, Kans.	—Powell & Platz, Coffeyville Journal
KQW	ak 1000	M	San Jose, Calif.	—Station KQW, 87 E. San Antonio St.
WHN	ak 1000	(5)	New York, N. Y.	—Marcus Loew Booking Agency
WNAD	ak 1000	2	Norman, Okla.	—University of Okla.
WNOX	ak 1000	C (5)	Knoxville, Tenn.	—Scripps-Howard Radio, Inc.
XEU	ak 250		Veracruz, Ver.	—Fernando Pazos S., Independencia 98

1020 kcys. (293.9)

KYW	ak 10000	R	Philadelphia, Pa.	—Westinghouse Elec. Co., 1622 Chestnut
WDZ	ak 250	D	Tuscola, Ill.	—WDZ Brdcastg. Co.
XEJ	ak 1000		Juarez, Chih.	—Juan G. Buttner, Box 111

1030 kcys. (291.1)

CFCN	ak 10000	F	Calgary, Alta.	—Voice of the Prairies, Ltd.
CKLW	ak 5000	M	Windsor, Ont.	—West. Ont. Brdcastg. Co.
CMCX	z 150		Havana, Cuba	—"La Onda Popular," Calle Maceo 7
XEB	ak 10000		Mexico City, D. F.	—El Buen Tono, S. A. Aptdo. 79-44

1040 kcys. (288.3)

KRLD	ak 10000	C	Dallas, Texas	—KRLD Radio Corp., Adolphus Hotel
KWJJ	ak 500		Portland, Ore.	—KWJJ Brdcastg. Co., Inc., 622 Salmon St.
KYOS	z 250	D	Merced, Calif.	—Merced Star Pub. Co.
WTIC	ah 50000	R	Hartford, Conn.	—Travelers Brdcastg. Service, 26 Grove St.

1050 kcys. (285.5)

CMKD	ak 250	F	Santiago, Cuba	—Radioemisora Oriental, Box 23
CRCM	ak 5000	F	Montreal, P. Q.	—Can. Brdcastg. Corp.
KFBI	ak 5000	Dn	Abilene, Kans.	—Farmers & Bankers Bc. Corp.
KNX	ak 50000	C	Los Angeles, Calif.	—CBS of Calif., Inc., Sunset Blvd.
WEAU	z 1000	D	Eau Claire, Wis.	—Central Brdcastg. Co.
WGVA	z 1000	DP	Indianapolis, Ind.	—Glenn Van Auker

1060 kcys. (282.8)

KTHS	ak 10000	N	Hot Springs, Ark.	—Chamber of Commerce, Box 86
VOAC	z 40	1065	St. John's, Nfld.	—
WBAL	ak 10000	BM	Baltimore, Md.	—WBAL Brdcastg. Co., Lexington Bldg.
WJAG	ak 1000	D	Norfolk, Nebr.	—Norfolk Daily News.
W3XJ	z 100	P	College Park, Md.	—McNary & Chambers
XEAD	ak 125		Guadalajara, Jal.	—Alberto Palos Sauza
XEMG	z 100		Azcapotzalco, D. F.	—Humberto Garcia Ruiz

1070 kcys. (280.2)

CMBX	ak 500	F	Havana, Cuba	—Alberto Alvarez, San Miguel 194
CMHA	z 50		Sagua la Grande, Cuba	—Abelardo Menocal, Carrillo 31
KJBS	ak 500		San Francisco, Calif.	—Julius Brunton & Sons, 1380 Bush St.
WCAZ	ak 100	D	Carthage, Ill.	—Superior Brc. Serv., Inc., 502 Wabash
WTAM	ak 50000	R	Cleveland, Ohio	—NBC, Inc., 1367 E. 6th

1080 kcys. (277.6)

WBT	ak 50000	C	Charlotte, N. C.	—Columbia Brdcastg. Sys., Wilder Bldg.
WCBD	ak 5000	Dn1	Chicago, Ill.	—WCBD, Inc., 128 N. Pulaski
WMBI	ak 5000	Dn1	Chicago, Ill.	—Moody Bible Institute
XEBA	z 20		Guzman, Jal.	—Javier Velasco
XEDP	ak 500		Mexico City, D. F.	—Dpto. de Publicidad

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1090 kcys. (275.1)

KMOX ak 50000 C St. Louis, Mo. —Columbia Brdcastg. Sys., Mart Bldg.

1100 kcys. (272.6)

CBR ak 5000 F Vancouver, B. C. —Can. Brdcastg. Corp., 1150 Main St.
CMCJ ak 500 F Havana, Cuba. —Radio Emisora Comercial, Estevez 4
KGDM ak 1000 DM Stockton, Calif. —E. F. Peffer, 42 S. California
KWKH c 10000 C Shreveport, La. —Internat'l. Brc. Corp., Box 17
WBIL ak 5000 I New York, N. Y. —Arde Bulova, 415 W. 59th
WPG ak 5000 CI Atlantic City, N. J. —City of Atlantic City

1110 kcys. (270.1)

KSCO ak 2500 BDn Sioux Falls, S. Dak. —S. F. Brdcastg. Ass'n., Carpenter Hotel
WRVA CM Richmond, Va. —Larus & Bros. Co., 22nd & Gary
XELO ak 50000 Tijuana, B. Cfa.

1120 kcys. (267.7)

CHLP ak 100 F Montreal, P. Q. —La Patrie Pub. Co., Sun Life Bldg.
CHSJ ak 500 F (1) St. John, N. B. —N. B. Brdcastg. Co.
CKOC ak 500 F (1) Hamilton, Ont. —Westworth Radio Brdcastg. Co.
CKX ak 1000 F Brandon, Man. —Man. Telephone System, Rosser Ave.
CMKM ak 200 F Manzanillo, Cuba —Merchan P. Figaredo, Box 4
CRCS ak 100 F Chicoutimi, P. Q. —Can. Brdcastg. Corp., 4 rue Larouche
KFIO ak 100 D Spokane, Wash. —Spokane Brdcastg. Corp., Ziegler Bldg.
KFSG ak 500 a (2.5) Los Angeles, Calif. —Echo Park Evan. Ass'n.
KRKD ak 500 a (2.5) Los Angeles, Calif. —Radio Brdcasters., Inc., 312 Spring Arcade
KRSC ak 250 Seattle, Wash. —Radio Sales Corp.
KTBC z 1000 DP Austin, Texas. —State Capitol Brdcastg. Assn.
WCOP ak 500 D Boston, Mass. —Mass. Brdcastg. Corp., Copley Plaza Hotel
WDEL ak 250 R (.5) Wilmington, Del. —WDEL, Inc., 10th & King Sts.
WISN ak 250 C (1) Milwaukee, Wis. —Hearst Radio, Inc., 231 W. Michigan
WJBO ak 500 B Baton Rouge, La. —B. R. Brdcastg. Co., 334 Florida St.
WTAW ak 500 College Sta., Tex. —Agri. & Mechanical Col.

1130 kcys. (265.3)

CMJI ak 150 Ciego de Avila, Cuba —Gilberto Gesse Lopez, Box 28
KSL ak 50000 C Salt Lake City, Ut. —Radio Service Corp., Vermont Bldg.
WJJD ak 20000 Dn Chicago, Ill. —WJJD, Inc., 201 N. Wells St.
WOV ak 1000 D New York, N. Y. —Internat'l. Brc. Corp., 16 E. 42nd
XEJP z 100 Mexico City, D. F. —Salvador Monterrubio

1140 kcys. (263.0)

CMBG z 200 Havana, Cuba —John L. Stowers, Hospital No. 100
KVOO ak 25000 N1 Tulsa, Okla. —Southwestern Sales Corp., Wright Bldg.
WAPI ak 5000 N1 Birmingham, Ala. —Ala. Polytechnic Inst.
WSPR ak 500 DM Springfield, Mass. —Conn. Valley Brdcastg. Co., 63 Chestnut St.

1150 kcys. (260.7)

CMJF z 200 Camaguey, Cuba —John L. Stowers, Republica No. 88
WHAM ak 50000 B Rochester, N. Y. —Stromberg-Carlson Co., Sagamore Hotel
NEC ak 100 Tijuana, B. Cfa. —Luis F. Encinco, Teatro Zaragoza
XEDW z 20 Minatitlan, Ver. —Hector Silva Canto

1160 kcys. (258.5)

CMIH ak 175 Cienfuegos, Cuba —Romualdo Ugalde, Box 112
CMKG z Santiago, Cuba
WOWO ak 10000 BI Fort Wayne, Ind. —Westinghouse Radio Station
WWVA ak 5000 CI Wheeling, W. Va. —W. Va. Brdcastg. Corp., Hawley Bldg.
XEAS ak 500 Saltillo, Coah. —"La Voz del Comercio."
XEBJ z 20 Merida, Yuc. —Hidalgo Franco
XEBZ ad 100 Mexico City, D. F. —Refugio Esperza Vda.
XED ak 2500 Guadaluajara, Jal. —Cia. Radiofonografica, Apto 197
XEP ak 500 Juarez, Chih. —Apartado 89

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1170 keys. (256.3)

GMBD	ak	500	.....	Havana, Cuba	—Luiz Perez Garcia, Calle 17 y 0
WCAU	ak	50000	C	Philadelphia, Pa.	—WCAU Brcdstg. Co., 1622 Chestnut St.

1180 keys. (254.1)

GMJO	ak	50	.....	Ciego de Avila, Cuba	—B. Hdefonso
KEX	ak	5000	B2	Portland, Ore.	—Oregonian Pub. Co.
KOB	ak	10000	B2	Albuquerque, N. M.	—Albuquerque Brcdstg. Co.
WDGY	ak	1000	Dn (5)	Minneapolis, Minn.	—Dr. Geo. W. Young, 909 W. Broadway
WINS	ak	1000	.....	New York, N. Y.	—Hearst Radio, Inc.
WMAZ	ak	1000	C	Macon, Ga.	—Southeastern Brcdstg. Co.
XEFA	z	500	.....	Tacuba, D. F.	—Eduardo Limon Segui

1190 keys. (252.0)

CMKX	z	.....	.....	Santiago, Cuba	.....
KTKG	z	250	D	Visalia, Calif.	—Tulare-Kings Counties
VONF	ak	500	1195	St. John's, Nfld.	—Dominion Brcdstg. Co., Box 135
WATR	ak	100	DXZ	Waterbury, Conn.	—WATR Co., Inc., 47 Grand St.
WOAI	ak	50000	N	San Antonio, Tex.	—Southland Industries, Inc., 1038 Navarro
WSAZ	ak	1000	.....	Huntington, W. Va.	—WSAZ, Inc., Box 729

1200 keys. (249.9)

GHAB	ak	100	F	Moose Jaw, Sask.	—GHAB, Ltd., Grant Hall Hotel
CKNX	dk	50	.....	Wingham, Ont.	—Wingham Radio Club, Box 65
CKTB	ak	100	F	St. Catharines, Ont.	—Silver Spire Brcdstg. Station
CMCO	ad	250	.....	Havana, Cuba	—Enrique Lasanta, Calle Oficios 116
KADA	ak	100	DM	Ada, Okla.	—C. C. Morris
KBTM	ak	100	D	Jonesboro, Ark.	—W. J. Beard
KDNC	ak	100	(25) P	Lewistown, Mont.	—Democrat-News Co.
KELO	z	100	N	Sioux Falls, S. Dak.	—S. F. Brcdstg. Ass'n.
KFJB	ak	100	(25)	Marshalltown, Ia.	—Marshall Elec. Co., Inc.
KFXD	ak	100	(25)	Nampa, Idaho	—Frank E. Hurt, Box 891
KFXJ	ak	100	(25)	Grand Junc., Colo.	—Western Slope Brcdstg. Co.
KGDE	ak	100	(25)	Fergus Falls, Minn.	—Charles L. Jaren
KGEK	ak	100	.....	Sterling, Colo.	—Elmer G. Beehler, 109 W. 2nd St.
KGFJ	ak	100	.....	Los Angeles, Calif.	—Ben S. McGlashan, 1417 S. Figueroa
KGHI	ak	100	(25)	Little Rock, Ark.	—Ark. Brcdstg. Co., Pyramid Life Bldg.
KGVL	z	100	DP	Greenville, Texas	—Hunt Brcdstg. Assn.
KMLB	ak	100	(25)	Monroe, La.	—Liner's Brcdstg. Station, Francis Hotel
KMOO	ak	100	(25)	Marshallfield, Ore.	—Pacific Radio Corp., Hall Bldg.
KSUN	z	100	(25)	Lowell, Ariz.	—Copper Elec. Co., Inc., Drawer C
KVCV	z	100	.....	Redding, Calif.	—Golden Empire Brcdstg. Co.
KVOC	z	250	D	San Luis Obispo, Calif.	—Valley Elec. Co.
KVOS	dk	100	.....	Bellingham, Wash.	—KVOS, Inc., 115 W. Magnolia
KWGG	ak	100	N	Stockton, Calif.	—McClatchey Brcdstg. Co.
KWNO	z	100	DP	Winona, Minn.	—Winona Radio Service.
WABI	ak	100	(25)	Bangor, Maine	—Community Brcdstg. Serv.
WAIM	ak	100	C	Anderson, S. C.	—Wilton E. Hall, Anderson College
WAYX	ak	100	.....	Waycross, Ga.	—Waycross Brcdstg. Co., Box 714
WBZ	ak	100	M (25)	Ponca City, Okla.	—Adelaide L. Carrell, 615 W. Grand
WBHP	ak	100	.....	Huntsville, Ala.	—Wilton Harvey Pollard
WBNO	ak	100	2	New Orleans, La.	—Coliseum Place Bap. Church
WCAT	ak	100	D	Rapid City, S. Dak.	—S. Dak. State School of Mines
WCAX	ak	100	(25)	Burlington, Vt.	—Bur. Daily News, Inc., 203 College St.
WCLO	ak	100	(25)	Janesville, Wis.	—Gazette Ptg. Co., 200 E. Milwaukee St.
WCPO	ak	100	(25)	Cincinnati, Ohio	—Scripps-Howard Radio, Inc.
WDSM	z	100	P	Superior, Wis.	—Fred A. Baxter, 1507 Tower Ave.
WEST	ak	100	3 (25)	Easton, Pa.	—Associated Brcdstrs., Inc.
WFAM	ak	100	4	South Bend, Ind.	—South Bend Tribune, 225 W. Colfax Ave.
WFTC	ak	100	(25)	Kinston, N. C.	—Jonas Weiland
WIBC	ak	100	(25)	Canton, Ohio	—Edw. P. Graham, 319 Tuscola St., W.
WIBY	ak	100	(25)	Green Bay, Wis.	—WIBY, Inc., Bellin Bldg.
WIBX	ak	100	C (3)	Utica, N. Y.	—WIBX, Inc., 1st Nat'l Bank Bldg.
WIL	ak	100	(25)	St. Louis, Mo.	—Mo. Brcdstg. Corp., Melbourne Hotel
WJBC	ak	100	5 (25)	Bloomington, Ill.	—Kaskaskia Brcdstg. Co.
WJBL	ak	100	5	Decatur, Ill.	—Commodore Brcdstg. Co., Gushard Bldg.
WJBW	ak	100	2	New Orleans, La.	—Chas. C. Carlson, Godchaux Bldg.
WJNO	ak	100	C (25)	W. Palm Beach, Fla.	—Hazelwood, Inc.
WJRD	z	100	DX	Tuscaloosa, Ala.	—James R. Doss, Jr.
WKBO	ak	100	3 (25)	Harrisburg, Pa.	—Keystone Brcdstg. Corp., Penn Harris Hotel
WLVA	ak	100	(25)	Lynchburg, Va.	—Lynchburg Brcdstg. Corp.
WMFR	ak	100	D	High Point, N. C.	—Station WMFR, Inc.
WMPC	ak	100	(25)	Lapeer, Mich.	—1st Methodist Church, 81 Liberty St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WOLS	z	100	DP	Florence, S. C.	—O. Lee Stone
WRBL	ak	100	(25)	Columbus, Ga.	—WRBL Radio Station, Inc.
WSAL	z	250	DP	Salisbury, Md.	—Frank M. Stearns.
WTHT	ak	100	M	Hartford, Conn.	—Hartford Times, Inc., 983 Main St.
WTOL	z	100	DP	Toledo, Ohio	—Community Brdcastg. Co.
WWAE	ak	100	8	Hammond, Ind.	—Hammond-Calumet Brdcastg. Corp.
	z	100	DP	Coeur d'Alene, Idaho	—Berger and Freeman

1210 keys. (247.8)

CHLT	z	100	.....	Sherbrooke, P. Q.	—La Tribune, Ltd.
CJCS	ak	50	.....	Stratford, Ont.	—M. I. Higgins, Windsor Hotel
CJCU	z	50	.....	Aklavik, N.W.T.	—Dr. J. A. Urquhart, Dept. of Interior
CKBI	ak	100	F	Prince Albert, Sask.	—CKBI, Ltd., Canada Bldg.
CKCH	ak	100	F	Hull, P. Q.	—CKCH Hull Brdcastg. Co., Ltd.
CKMC	ak	50	.....	Cobalt, Ont.	—R. L. MacAdam
CMHI	ak	150	.....	Santa Clara, Cuba	—Lavis y Paz, Independencia 34
KALB	ak	100	.....	Alexandria, La.	—Alexandria Brdcastg. Co., Box 788
KANS	ak	100	B	Wichita, Kans.	—KANS Brdcastg. Co.
KASA	c	100	M	Elk City, Okla.	—E. M. Woody, Casa Grande Hotel
KDLR	ak	100	.....	Devils Lake, N. D.	—KDLR, Inc., 1025 Third St.
KDON	z	100	M	Monterrey, Calif.	—Mont. Peninsula Brdcastg. Co.
KFJI	ak	100	.....	Klamath Falls, Ore.	—KFJI Brdcasters, Inc., Willard Hotel
KFOR	ak	100	CM(.25)	Lincoln, Nebr.	—Cornbelt Brdcastg. Corp., Hotel Lincoln
KFPW	ak	100	.....	Fort Smith, Ark.	—Southwestern Hotel Co., Goldman Hotel
KFVS	ak	100	5(.25)	Cape Girardeau, Mo.	—Hirsch Battery & Radio Co., Box 275.
KFXM	ak	100	M2	San Bernardino, Cal.	—Lee Bros. Brdc. Co., Calif. Hotel.
KGLO	z	100	C(.25)	Mason City, Iowa	—Mason City Globe Gazette
KGY	ak	100	.....	Olympia, Wash.	—KGY, Inc., 11th & Capitol Way
KHBG	z	100	DP	Okmulgee, Okla.	—Okmulgee Brdcastg. Corp.
KIUL	ak	100	.....	Garden City, Kans.	—Garden City Brdcastg. Co.
KLAH	ak	100	.....	Carlsbad, N. Mex.	—Carlsbad Brdcastg. Co.
KOGA	z	100	(.25)	Kilgore, Texas	—Oil Capital Brdcastg. Ass'n.
KPFA	z	100	P(.25)	Helena, Mont.	—Peoples Forum of the Air
KPPC	ak	100	2	Pasadena, Calif.	—Pas. Presb. Church, 585 E. Colorado.
KROY	ak	100	D	Sacramento, Calif.	—Royal Miller
KVSO	ak	100	M	Ardmore, Okla.	—Ardmoreite Pub. Co.
KWTN	ak	100	.....	Watertown, S. Dak.	—Greater Kampska Radio Corp.
WALR	ak	100	.....	Zanesville, Ohio	—WALR Brdcastg. Corp.
WBAX	ak	100	.....	Wilkes-Barre, Pa.	—John H. Stenger, Jr., 70 S. Main
WBBL	ak	100	S	Richmond, Va.	—Grace Presb. Church, 1627 Monument Ave.
WBLV	ak	100	D	Lima, Ohio	—Herbert Lee Bly, 1424 Rice Ave.
WBRB	ak	100	3	Red Bank, N. J.	—Monmouth Brdcastg. Co., 63 Broad St.
WCOL	ak	100	N	Columbus, Ohio	—WCOL, Inc., 33 N. High St.
WCRW	ak	100	4	Chicago, Ill.	—Clinton R. White, 2756 Pine Grove
WEBQ	ak	100	5(.25)	Harrisburg, Ill.	—Harrisburg Brdcastg. Co., 100 E. Poplar.
WEDC	ak	100	4	Chicago, Ill.	—Emil Denemark, 3850 Ogden Ave.
WFAS	ak	100	3	White Plains, N. Y.	—Westchester Brdcastg. Corp.
WFOY	ak	100	.....	St. Augustine, Fla.	—Fountain of Youth Properties
WGBB	ak	100	3	Freeport, N. Y.	—Harry H. Carman, 64 S. Grove St.
WGCM	ak	100	(.25)	Gulfport, Miss.	—WGCM, Inc.
WGNV	ak	100	3	Newburgh, N. Y.	—Peter Goelet, 161 Broadway
WHBF	ak	100	(.25)	Rock Island, Ill.	—R. I. Brdcastg. Co., Hotel Harms
WHBU	ak	100	(.25)	Anderson, Ind.	—Anderson Brdcastg. Corp.
WIBU	ak	100	(.25)	Poynette, Wis.	—Wm. C. Forrest, R.F.D. No. 3
WJBY	ak	100	.....	Gadsden, Ala.	—Gadsden Brdcastg. Co., 108 S. 6th
WJBJ	ak	100	Dr(.05)	Hagerstown, Md.	—Hagerstown Brdcastg. Co., Lovely Dame Bldg.
WJIM	z	100	(.25)	Lansing, Mich.	—Harold G. Gross
WJTN	ak	100	B(.25)	Jamestown, N. Y.	—James Brdcastg. Co., Inc.
WJW	ak	100	(.25)	Akron, Ohio	—WJW, Inc., 41 S. High St.
WKOK	ak	100	.....	Sunbury, Pa.	—Sunbury Brdcastg. Corp., 1150 N. Front
WLMO	z	100	P(.25)	Middlesboro, Ky.	—Lincoln Mem. University
WMFG	ak	100	(.25)	Hibbing, Minn.	—Head of the Lakes Brdcastg. Co.
WMFN	ak	100	.....	Grenada, Miss.	—P. K. Ewing
WOMT	ak	100	.....	Manitowoc, Wis.	—Francis M. Kadow, Box 326
WPAX	ak	100	D	Thomasville, Ga.	—H. Wimpy, 135 E. Jackson
WSAY	z	100	D	Rochester, N. Y.	—Brown Radio Serv., 192 S. Goodman
WSBC	ak	100	4(.25)	Chicago, Ill.	—WSBC, Inc., 2400 Madison Ave.
WSIX	ak	100	.....	Nashville, Tenn.	—WSIX, Inc.
WSNJ	z	100	DP	Bridgeton, N. J.	—Eastern States Brdcastg. Corp.
WSOC	ak	100	N(.25)	Charlotte, N. C.	—WSOC, Inc., 516 W. Trade St.
WTAX	ak	100	.....	Springfield, Ill.	—WTAX, Inc., 416 E. Capitol
XEAT	ak	250	.....	Parral, Chih.	—Box 90.
XEE	ak	50	.....	Durango, Dgo.	—Alejandro Stevens, Jr., Aptdo. 148
XEFV	ak	100	.....	Juarez, Chih.	—Jose Onofre Meza, Tlaxcala 1013
XETH	ak	100	.....	Puebla, Pue.	—Ramon Huerta G., Calle 17, Oriente 11

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1220 kcys. (245.8)

CMJE	z	50	.....	Camaguey, Cuba	—Manuel Fernandez Hnos., Aguero 2
KFKU	ak	1000	a (5)	Lawrence, Kans.	—University of Kans.
KTMS	z	500	P	Santa Barbara, Cal.	—News Press Pub. Co.
KTFW	ak	1000	S2	Seattle, Wash.	—First Presb. Church, 7th & Spring
KWSC	ak	1000	2 (5)	Pullman, Wash.	—State College of Wash.
WCAD	ak	500	D	Canton, N. Y.	—St. Lawrence University
WCAE	ak	1000	MR (5)	Pittsburgh, Pa.	—WCAE, Inc.
WDAE	ak	1000	C (5)	Tampa, Fla.	—Tampa Times Co., Tampa Terrace
WDAE	ak	1000	Ba(5)	Lawrence, Kans.	—WREN Brdcastg. Co., 7th & Vermont
XEBL	z	50	.....	Mazatlan, Sin.	—Ignacio L. Saiz, Aptdo. 78
XEDA	z	200	.....	Gra. Anaya, D. F.	—Augusta Garcia Diaz
XETF	ak	30	.....	Veraacruz, Ver.	—Jose R. Lopez, Independencia 28

1230 kcys. (243.8)

KGBX	ak	500	.....	Springfield, Mo.	—Springfield Brdcastg. Co.
KGGM	ak	1000	.....	Albuquerque, N. M.	—N. Mex. Brdcastg. Co., KiMo Bldg.
KYA	ak	1000	(5)	San Francisco, Cal.	—Hearst Radio, Inc., 988 Market St.
WFBM	ak	1000	C (5)	Indianapolis, Ind.	—Ind. Power & Light Co.
WNAC	ak	1000	R (5)	Boston, Mass.	—Yankee Network, Inc.
XEFJ	ak	100	.....	Monterrey, N. L.	—Rodolfo Junco de la Vega, Box 186

1240 kcys. (241.8)

CJCB	ak	1000	F	Sydney, N. S.	—N. Nathanson, 318 Charlotte St.
CMHB	ak	500	.....	Sancti Spiritus, Cuba	—V. E. Weiss y Cia, Independencia 33
KGCU	ak	250	1	Mandan, N. Dak.	—Mandan Radio Ass'n., 404 W. Main
KLPM	ak	250	1	Minot, N. Dak.	—John B. Cooley, Box 707
KTAT	ak	1000	M	Fort Worth, Texas	—Tarrant Brdcastg. Co.
KTFI	ak	1000	.....	Twin Falls, Idaho	—Radio Brdcastg. Corp., Box 521
WKAO	ak	1000	.....	San Juan, P. R.	—Radio Corp. of P. R., Box 1414
WXYZ	ak	1000	B	Detroit, Mich.	—King-Trendle Brdcastg. Corp.
XEAY	z	100	.....	Mexico City, D. F.	—Fernando Magallanes
XEKL	z	500	.....	Leon, Guan.	—Cia. Radio del Bajio, 5 de Mayo 26
XELA	z	50	.....	Saltillo, Coah.	—Enrique Gomez

1250 kcys. (239.9)

CMCK	ak	150	.....	Santiago, Cuba	—J. A. Saco, Box 466
KFOX	ak	1000	.....	Long Beach, Calif.	—Nichols & Wariner, Inc.
WAIR	ak	250	D	Winst.-Salem, N. C.	—Radio Station WAIR
WCAL	ah	1000	2 (2.5)	Northfield, Minn.	—St. Olaf College
WDSU	ak	1000	B	New Orleans, La.	—WDSU, Inc., Hotel Monteleone
WHBI	ak	1000	a (2.5)	Newark, N. J.	—May Radio Brdcastg. Corp.
WLB	ak	1000	2	Minneapolis, Minn.	—University of Minn.
WNEW	ak	1000	a (2.5)	New York, N. Y.	—Wodaam Corp., 501 Madison Ave.
WTCN	ak	1000	2B (5)	Minneapolis, Minn.	—Minn. Brdcastg. Corp.
XEXH	z	250	.....	San Luis Pot., S.L.P.	—Ayuntamiento S.L.P.

1260 kcys. (238.0)

CMC	z	150	.....	Havana, Cuba	—Del Valle, Valdez y Cia.
KGVO	ak	1000	C	Missoula, Mont.	—Mosby's Inc., 240 N. Higgins
KHSL	ak	250	.....	Chico, Calif.	—Golden Empire Brdcastg. Co.
KOIL	ak	1000	BM(2.5)	Omaha, Nebr.	—Central States Brdcastg. Co.
KPAC	ak	500	D	Port Arthur, Texas	—Port Arthur College
KRGV	ak	1000	B	Weslaco, Texas	—KRGV, Inc.
KUOA	ak	5000	D	Siloam Spgs., Ark.	—KUOA, Inc., John Brown Univ.
KVOA	ak	1000	.....	Tucson, Ariz.	—Ariz. Brdcastg. Co., Inc.
WHIO	ak	1000	C (5)	Dayton, Ohio	—Dayton Daily News
WNBX	ak	1000	M	Springfield, Vt.	—WNBX Brdcastg. Corp., 39 Main St.
WTOC	ak	1000	C	Savannah, Ga.	—Savannah Brdcastg. Co., DeSoto Hotel

1270 kcys. (236.1)

CMHD	dk	250	.....	Caibarien, Cuba	—Manuel Alvarez M., Escobar 17
KGCA	ak	100	2D	Decorah, Iowa	—Chas. W. Greenley, 201 Water St.
KOL	ak	1000	C (5)	Seattle, Wash.	—Seattle Brdcastg. Co.
KVOR	ak	1000	C	Colo. Springs, Colo.	—Out West Brdcastg. Co.
KWLC	ak	100	2D	Decorah, Iowa	—Luther College
WASH	ak	500	DaN	Grd. Rpd., Mich.	—King-Trendle Brdcastg. Corp.
WFBR	ak	500	R (1)	Baltimore, Md.	—Balt. Radio Show, Inc., 7 St. Paul St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WJDX	ak	1000	N	(2.5) Jackson, Miss.	—Lamar Life Insurance Co.
WOOD	ak	500	Na	Gd. Rapids, Mich.	—King-Trendle Brdcstg. Corp.
XEXB	ak	50		Jalapa, Ver.	—Gobierno del E. de Ver.

1280 kcys. (234.2)

CMCU	ak	500		Havana, Cuba	—Estrada Palma No. 25. esq. F. Poey
CMKO	z			Holguin, Cuba	
KFBB	ak	1000	C (5)	Great Falls, Mont.	—Buttrey Brdcstg. Co., Box 1817
KLS	ak	250		Oakland, Calif.	—Warner Bros., 2201 Telegraph Ave.
WCAM	ak	500	1	Camden, N. J.	—City of Camden, City Hall
WCAP	ak	500	1	Asbury Park, N. J.	—Radio Industries Brdcstg. Co.
WODD	ak	1000	C (5)	Chattanooga, Tenn.	—WDDO Brdcstg. Corp., Hotel Patten
WIBA	ak	1000	N (5)	Madison, Wis.	—Badger Brdcstg. Co., 111 King St.
WORC	ak	500	C	Worcester, Mass.	—Alf. E. Kleindienst, 60 Franklin St.
WRR	ak	500	M	Dallas, Texas	—City of Dallas, Southland Bldg.
WTNJ	ak	500	1	Trenton, N. J.	—WOAX, Inc., Stacy Trent Hotel
XEBO	z			Irapuato, Guan.	
XEMX	z	100		Mexico City, D. F.	—Alfonso Traslosheros A., Salamanca 87

1290 kcys. (232.4)

KDYL	ak	1000	RX	Salt Lake City, Ut.	—Intermountain Brdcstg. Corp.
KLCN	ak	100	D	Blytheville, Ark.	—C. L. Lintzenich
KTRH	ak	1000	C (5)	Houston, Texas	—KTRH Brdcstg. Co., Rice Hotel
WEBC	ak	1000	N (5)	Duluth, Minn.	—Head of the Lakes Brdcstg. Co.
WJAS	ak	1000	C (5)	Pittsburgh, Pa.	—Pitt. Radio Supply House, 7th Ave.
WNBZ	ak	100	D	Saranac Lake, N. Y.	—Smith & Mace, 70 Broadway
WNEL	ak	1000	(2.5)	San Juan, P. R.	—Juan Piza, Box 1252

1300 kcys. (230.6)

KALE	ak	500	C	Portland, Ore.	—KALE, Inc., New Heathman Hotel
KFAC	ak	1000		Los Angeles, Calif.	—L. A. Brdcstg. Co., Inc., 3443 Wilshire Blvd.
KFH	ak	1000	C (5)	Wichita, Kans.	—Station KFII, 124 1/2 S. Market St.
WBRR	ak	1000	1	Brooklyn, N. Y.	—People's Pulpit Ass'n.
WEVD	ak	1000	1	New York, N. Y.	—Debs Memorial Radio Fund
WFAB	ak	1000	1	New York, N. Y.	—5th Ave. Brdcstg. Corp.
WFBC	ak	1000	N (5)	Greenville, S. C.	—Greenville News-Piedmont Co.
WHAZ	ak	1000	1	Troy, N. Y.	—Rensselaer Polytechnic Inst., 8th Ave.
WHBL	ak	250		Sheboygan, Wis.	—Press Pub. Co., Press Bldg.
WIOD	ak	1000	N	Miami, Fla.	—Isle of Dreams Brdcstg. Corp.

1310 kcys. (228.9)

CHCK	ak	50		Charlottetown, P.E.I.	—Burke & Gesner.
CJKL	ak	100	F	Kirkland Lake, Ont.	—Northern Brdcstg. Co., R & E Bldg.
CJLS	ak	100		Yarmouth, N. S.	—Laurie L. Smith, Box 684
CKGV	ak	100	F	Quebec, P. Q.	—CKCV, Ltd., 142 St. John St.
KAND	z	100	D	Corsicana, Tex.	—Navarro Brdcstg. Ass'n.
KARM	z	100	P	Fresno, Calif.	—George Harm.
KCKN	ak	100		Kansas City, Kans.	—KCKN Brdcstg. Co., 901 N. 8th St.
KCRJ	ak	100	DX	Jerome, Ariz.	—Chas. C. Robinson, Drawer D
KFPL	dk	100	(25)	Dublin, Texas	—C. C. Baxter, Box 176
KFXR	ak	100	(25)	Oklahoma City, Okla.	—Exchange Ave. Bap. Church
KFYO	ak	100	(25)	Lubbock, Texas	—Plains Radio Brdcstg. Co., Box 1448
KGEZ	ak	100		Kalispell, Mont.	—Donald C. Treloar, Box 1
KGFV	ak	100		Kearney, Nebr.	—Cent. Nebr. Brdcstg. Corp.
KHUB	z	250	D	Watsonville, Calif.	—Anna Atkinson
KINY	ak	100		Juneau, Alaska	—Edwin A. Kraft
KIT	ak	100	XZ(25)	Yakima, Wash.	—Carl E. Haymond, 109 1/2 E. Yakima
KPDN	ak	100	D	Pampa, Texas	—R. C. Holles
KRBA	z	100	DP	Lufkin, Texas	—Red Lands Brdcstg. Assn.
KRMD	ak	100	(25)	Shreveport, La.	—KRMD, Inc., Box 1712
KROC	ak	100	(25)	Rochester, Minn.	—So. Minn. Brdcstg. Co., Martin Hotel.
KROA	ak	100		Santa Fe, N. Mex.	—J. Laurance Martin, Box 985
KRRV	z	250	D	Sherman, Texas	—Red River Valley Brdcstg. Corp.
KSRO	z	250	DP	Santa Rosa, Calif.	—Press-Democrat Pub. Co.
KSUB	z	100		Cedar City, Utah	—Johnson & Perry
KTSM	ak	100	(25)	El Paso, Texas	—Tri-State Brdcstg. Co., Box 1976
KVOL	ak	100		Lafayette, La.	—Evangeline Brdcstg. Co.
KVOX	z	100	P	Moorhead, Minn.	—KVOX Brdcstg. Co.
KWOS	z	100	D	Jefferson City, Mo.	—Tribune Ptg. Co.
KXRO	ak	100		Aberdeen, Wash.	—KXRO, Inc., Hotel Morck
WAML	ak	100		Laurel, Miss.	—New Laurel Radio Station, Box 26
WBEO	ak	100	D	Marquette, Mich.	—Lake Superior Brdcstg. Co.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WBOW	ak	100	B (.25)	Terre Haute, Ind.	—Banks of the Wabash, Inc.
WBRE	ak	100		Wilkes-Barre, Pa.	—Louis G. Baltimore, 16 N. Main
WBRK	z	100	P (.25)	Pittsfield, Mass.	—Harold Thomas.
WCLS	ak	100		Joliet, Ill.	—W.C.I.S., Inc., 301 E. Jefferson
WCMJ	ak	100	(.25)	Ashland, Ky.	—Ashland Brdcastg. Co., Box 106
WDAH	ak	100	S (.25)	El Paso, Texas	—Tri-State Brdcastg. Co., Box 1976
WEBR	ak	100	B (.25)	Buffalo, N. Y.	—WEBR, Inc., 23 North St.
WEMP	ak	100	D	Milwaukee, Wis.	—Milwaukee Brdcastg. Co., 711 Empire Bldg.
WEXL	ak	50		Royal Oak, Mich.	—Royal Oak Brdcastg. Co., 212 W. 6th
WFBG	ak	100	3	Altoona, Pa.	—Gable Brdcastg. Co., 12th Ave. & 13th St.
WFDF	ak	100		Flint, Mich.	—Flint Brdcastg. Co.
WGH	ak	100	(.25)	Newport News, Va.	—Hampton Roads Brdcastg. Corp.
WGTM	z	100	D	Wilson, N. C.	—H. W. Wilson and Ben Farmer
WHAT	ak	100	4	Philadelphia, Pa.	—Independence Brdcastg. Co.
WJAC	ak	100	3 (.25)	Johnstown, Pa.	—W.J.A.C., Inc., Locust St.
WLAK	z	100		Lakeland, Fla.	—Lake Region Brdcastg. Co.
WLBC	ak	100	(.25)	Muncie, Ind.	—Donald A. Burton, Anthony Bldg.
WLNH	ak	400	M	Laconia, N. H.	—Northern Brdcastg. Co., 523 Main St.
WMBO	ak	100		Auburn, N. Y.	—WMBO, Inc., Metcalf Bldg.
WMFF	ak	100	(.25)	Plattsburg, N. Y.	—Plattsburg Brdcastg. Corp.
WNBH	ak	100	M (.25)	New Bedford, Mass.	—E. Anthony & Sons, Inc., 251 Union St.
WOL	ak	100	MXZ	Washington, D. C.	—American Brdcastg. Co., 1111 H St.
WRAW	ak	100		Reading, Pa.	—Reading Brdcastg. Co., 533 Penn St.
WROL	ak	100	B (.25)	Knoxville, Tenn.	—Stuart Brdcastg. Corp., 524 S. Gay
WSAJ	ak	100		Grove City, Pa.	—Grove City College, 418 Poplar
WSGN	ak	100	B (.25)	Birmingham, Ala.	—Birmingham News Co.
WSJS	ak	100	C	Winston-Salem, N. C.	—Piedmont Pub. Co., 416 N. Marshall.
WTAL	ak	100		Tallahassee, Fla.	—Fla. Capital Brdcasters, Inc.
WTFL	ak	100	4	Philadelphia, Pa.	—Foulkrod Radio Eng. Co., 3701 N. Broad
WTJS	ak	100	(.25)	Jackson, Tenn.	—Sun Pub. Co., Inc., Sun Bldg.
WTRC	ak	100	(.25)	Elkhart, Ind.	—Truth Pub. Co., Inc., Hotel Elkhart
XEAG	z	10		Cordoba, Ver.	—Diodora Zuniga
XECW	ak	10		Mexico City, D. F.	—Ma. Elena Bravo de Cordero
XEFW	ak	250		Tampico, Tams.	—Jose Expedito Martinez, Madero 10
XETB	ak	125		Torreón, Coah.	—P. O. Box 225
XEX	ak	125		Monterrey, N. L.	—L. F. Petit Jean, Box 10

1320 kcys. (227.1)

CMOX	ak	200	B	Havana, Cuba	—Curtis P. Ritchie, 113 Broadway
KGHF	am	500	B	Pueblo, Colo.	—Honolulu Brdcastg. Co., Box 581
KGMB	ak	1000	C M	Honolulu, Hawaii	—KID Brdcastg. Co., Box 487
KID	ak	500	(1)	Idaho Falls, Idaho	—Iowa Brdcastg. Co., 715 Locust St.
KRNT	ak	1000	C (5)	Des Moines, Iowa	—Allen T. Simmons, Box 29
WADC	ak	1000	C	Akron, Ohio	—York Brdcastg. Co., 15 S. Beaver
WORK	ak	1000	B	York, Pa.	—WSMB, Inc., Maison Blanche Bldg.
WSMB	ak	1000	N	New Orleans, La.	

1330 kcys. (225.4)

CMHK	z	250	B	Cruces, Cuba	—Virgilio Villanueva, Calle Heredia 61
KGB	ak	1000	M	San Diego, Calif.	—Don Lee Brdcastg. Sys., 1012—1st Ave.
KMO	ak	1000		Tacoma, Wash.	—KMO, Inc., 914½ Broadway
KRIS	z	500	B	Corpus Christi, Tex.	—Gulf Coast Brdcastg. Co.
KSGJ	ak	1000	C (5)	Sioux City, Iowa	—Sioux City Journal, 415 Douglas
WDRG	ak	1000	C (5)	Hartford, Conn.	—WDRG, Inc., 750 Main St.
WSAI	ak	1000	MR (2.5)	Cincinnati, Ohio	—Crosley Radio Corp., 1329 Arlington
WTAQ	ak	1000	C	Green Bay, Wis.	—WHBY, Inc., Bellin Bldg.

1340 kcys. (223.7)

CMAB	z	.....	.....	Pinar del Rio, Cuba	—Hotel Ricardo
CMJL	z	75		Camaguey, Cuba	—M. Caymares, Republica 181
KDTH	z	500	DP	Dubuque, Iowa	—Telegraph Herald.
KGDY	ak	250	D	Huron, S. Dak.	—Voice of S. Dak., Inc., 347 Dakota St.
KGIR	ak	1000	N (2.5)	Butte, Mont.	—KGIR, Inc., 121 W. Broadway
KGNO	ak	250		Dodge City, Kans.	—Dodge City Brdcastg. Co.
WCOA	ak	500	CX	Pensacola, Fla.	—Pensacola Brdcastg. Co.
WFEA	ak	500	BM (1)	Manchester, N. H.	—N. H. Brdcastg. Co., Carpenter Hotel
WSPD	ak	1000	B (5)	Toledo, Ohio	—The Port Industry Co.
XEXD	z	350		Jalapa, Ver.	—Gobierno del E. de Ver.

1350 kcys. (222.1)

CMCA	ak	450	.....	Havana, Cuba	—Testar y Gonzales, Gallano 102
CMKW	z	.....		Santiago, Cuba	—Reparto Vista Alegre
KIDO	ak	1000	B (2.5)	Boise, Idaho	—Boise Brdcastg. Station, Hotel Boise
KWK	ak	1000	BM (5)	St. Louis, Mo.	—Thomas Patrick, Ins., Hotel Chase

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WAWZ	ak	500	1 (1)	Zarephath, N. J.	— Pillar of Fire
WBNX	ak	1000	1	New York, N. Y.	— WBNX Brdcastg. Co., 260 E. 161st.
WMBG	ak	500	R	Richmond, Va.	— Havens & Martin. 914 W. Broad St.

1360 keys. (220.4)

CMJH	dk	50	.....	Ciego de Avila, Cuba	— Luis Marauri H., Castilla 37
KCRC	ak	250	M	Enid, Okla.	— Enid Radiophone Co., Oxford Hotel
KGGR	ak	1000	.....	Long Beach, Calif.	— Consolidated Brdcastg. Corp., 435 Pine St.
WCSC	ak	500	N (1)	Charleston, S. C.	— S. C. Brdcastg. Co., Francis Marion Hotel
WFBL	ak	1000	C (5)	Syracuse, N. Y.	— Onondaga Radio Brdcastg. Corp.
WGES	ak	500	1 (1)	Chicago, Ill.	— Oak Leaves Brdcastg. Sta.
WOBC	ak	1000	D	Vicksburg, Miss.	— Delta Brdcastg. Co., Inc., Hotel Vicksburg
WSBT	ak	500	I	South Bend, Ind.	— South Bend Tribune, 225 W. Colfax

1370 keys. (218.8)

<i>C.F.A.R.</i>					
CKCW	ak	100	F	Moncton, N. B.	— Moncton Brdcastg. Co., K. of P. Hall
CMGE	ak	150	.....	Cardenas, Cuba	— Genaro Sebater, Av. Cespedes 180
KAST	ak	100	D	Astoria, Ore.	— Astoria Brdcastg. Co., 611 Commercial St.
KCMO	ak	100	.....	Kansas City, Mo.	— KCMO Brdcastg. Co.
KEEN	ak	100	3	Seattle, Wash.	— KVL, Inc., 2101 Smith Tower
KELD	z	100	.....	El Dorado, Ark.	— Radio Enterprises, Inc.
KERN	ak	100	B	Bakersfield, Calif.	— McClatchey Brdcastg. Co.
KFGO	ak	100	D	Boone, Iowa	— Boone Biblical College
KFJZ	ak	100	(25)	Fort Worth, Texas	— Ft. Worth Brdcasters, Inc.
KFRD	ak	250	D	Longview, Texas	— Voice of Longview, Box 616
KGAR	ak	100	(25)	Tucson, Arizona	— Tucson Motor Service, 142 S. 6th
KGFL	ak	100	4	Roswell, N. Mex.	— KGFL, Inc., 507 N. Main
KGKL	ak	100	(25)	San Angelo, Texas	— KGKL, Inc., St. Angelus Hotel
KICA	ak	100	4	Clovis, N. Mex.	— Western Brdcasters., Inc., Box 111
KIUP	ak	100	.....	Durango, Colo.	— San Juan Brdcastg. Co., 2800 Main St.
KLUF	ak	100	.....	Galveston, Texas	— Geo. R. Clough, Buccaneer Hotel
KMAC	ak	100	5 (25)	San Antonio, Tex.	— W. W. McAllister, Smith-Young Tower
KOBH	ak	100	.....	Rapid City, S. Dak.	— Black Hills Brdcastg. Co.
KOKO	z	100	.....	La Junta, Colo.	— Southwest Brdcastg. Co.
KONO	ak	100	5	San Antonio, Tex.	— Mission Brdcastg. Co., Milam Bldg.
KRE	ak	100	(25)	Berkeley, Calif.	— Cent. Calif. Brdc., Inc.
KRKO	ak	50	3	Everett, Wash.	— Lee Mudgett, 2814 Rucker Ave.
KRMC	z	100	(25)	Jamestown, N. D.	— Roberts McNab Co.
KSLM	ak	100	.....	Salem, Ore.	— Oregon Radio, Inc., 343 Court St.
KTEM	ak	250	D	Temple, Texas	— Bell Brdcastg. Co.
KTOK	bk	100	M	Oklahoma City, Ok.	— Okla. Brdcastg. Co., 1113 N. Broadway
KUJ	ak	100	.....	Walla Walla, Wash.	— KUJ, Inc., Marcus Whitman Hotel
KVGB	z	100	.....	Great Bend, Kans.	— Ernest Edward Ruehlin
KWYO	ak	100	(25)	Sheridan, Wyo.	— Big Horn Brdcastg. Co.
WABY	ak	100	B	Albany, N. Y.	— Adirondack Brdcastg. Co., Strand Theater
WAGF	ak	250	D	Dothan, Ala.	— Dothan Brdcastg. Co., Box 25
WATL	ak	100	(25)	Atlanta, Ga.	— Atlanta Brdcastg. Co., 26 Cain St.
WBLK	ak	100	D	Clarksburg, W. Va.	— The Exponent Corp.
WBNY	ak	100	2 (25)	Buffalo, N. Y.	— Roy L. Albertson, 485 Main St.
WBTM	ak	100	(25)	Danville, Va.	— Piedmont Brdcastg. Corp., Miller Bldg.
WCBM	ak	100	(25)	Baltimore, Md.	— Baltimore Brdcastg. Co., Keith Theater
WDAS	ak	100	(25)	Philadelphia, Pa.	— WDAS Brdcastg. Station, Inc.
WDWS	ak	100	D	Champaign, Ill.	— Champ. News-Gazette, Inc.
WEOA	z	100	C (25)	Evansville, Ind.	— Evans, on the Air, Inc.
WFOR	ak	100	.....	Hattiesburg, Miss.	— Forrest Brdcastg. Co., Box 947
WGL	ak	100	.....	Fort Wayne, Ind.	— Westinghouse Radio Sta., Inc.
WGRC	ak	250	D	New Albany, Ind.	— North Side Brdcastg. Corp.
WHBO	ak	100	.....	Memphis, Tenn.	— WHBO, Inc., Hotel Claridge
WHDF	ak	100	(25)	Calumet, Mich.	— Upper Mich. Brdcastg. Corp., Scott St.
WHLB	ak	100	(25)	Virginia, Minn.	— Head of the Lakes Brdcastg. Co.
WIBM	ak	100	(25)	Jackson, Mich.	— WIBM, Inc., 306 W. Michigan
WLLH	ak	100	MSy (25)	Lowell, Mass.	— Merrimack Brdcastg. Co., Box D
WMBR	ak	100	C (25)	Jacksonville, Fla.	— Fla. Brdcastg. Co., Carling Hotel
WMFD	ak	100	D	Wilmington, N. C.	— Richard A. Dunlea, Hotel Wilmington
WMFO	ak	100	D	Decatur, Ala.	— James R. Doss, Jr., Box 1025
WMIN	ak	100	(25)	St. Paul, Minn.	— WMIN Brdcastg. Co.
WOC	ak	100	C (25)	Davenport, Iowa	— Tri-City Brdcastg. Co., 1000 Brady St.
WPAY	ak	100	.....	Portsmouth, Ohio	— Veebee Corp.
WPRA	z	100	(25)	Mayaguez, P. R.	— P. R. Advertising Co.
WRAC	ak	100	(25)	Williamsport, Pa.	— WRAC, Inc., 244 W. 4th
WRDO	ak	100	M	Augusta, Maine	— WRDO, Inc., 1 Commercial St.
WRJN	ak	100	(25)	Racine, Wis.	— Racine Brdcastg. Corp., Hotel Racine
WSAU	ak	100	D	Wausau, Wis.	— Northern Brdcastg. Co.
WSVS	ak	50	2D	Buffalo, N. Y.	— Seneca Voc. High School
XEGZ	z	100	.....	San L. Pot., S.L.P.	— Zeferino Z. Jimenez
XEI	ak	125	.....	Morelia, Mich.	— Carlos Gutierrez M., Masero 545

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

XELZ	z	100	.....	Mexico City, D. F.	—Aureliano Mirabel
.....	z	10-100	SyP	Lawrence, Mass.	—Merrimac Brdcstg. Co.
.....	z	100	(.25) P	Rock Springs, Wyo.	—Wyoming Brdcstg. Co.

1380 kcys. (217.3)

KOH	ak	500	C	Reno, Nevada	—The Bee, Inc., 440 N. Virginia
KQV	ak	500	C1	Pittsburgh, Pa.	—KQV Brdcstg. Co., 1406 C of C Bldg.
WALA	ak	500	C (1)	Mobile, Ala.	—Pape Brdcstg. Co., Box 288
WKBH	ak	100	C	La Crosse, Wis.	—WKBH, Inc., 409 Main St.
WNBC	ak	250	D	New Britain, Conn.	—State Brdcstg. Corp., 147 Main St.
WSMK	ak	200	C1	Dayton, Ohio	—WSMK, Inc., 121 N. Main

1390 kcys. (215.7)

CJGX	ak	100	F	Yorkton, Sask.	—J. Richardson & Sons, Ltd.
CMJC	z	150	.....	Camaguey, Cuba	—Felix Sanchez
KLRA	ak	1000	C (5)	Little Rock, Ark.	—Ark. Brdcstg. Co., Box 550
KOY	ak	1000	C	Phoenix, Ariz.	—Salt River Brdcstg. Co.
KRLC	ak	250	.....	Lewiston, Idaho	—H. E. Studebaker, Lewis-Clarke Hotel
WHK	ak	1000	B (2.5)	Cleveland, Ohio	—Radio Air Corp., 1311 Terminal Tower
WQDM	dk	1000	D	St. Albans, Vt.	—Regan & Bostwick, 8 Kingman St.

1400 kcys. (214.2)

CMGC	ad	150	.....	Matanzas, Cuba	—Oscar Mechoso, Independencia 56
CKKR	z	100	.....	Santiago, Cuba	—Jaime Nadal, Calle B. Maso alta 71
KHBC	ak	250	CM	Hilo, T. H.	—Honolulu Brdcstg. Co., Ltd., Box 595
KLO	ak	500	B	Ogden, Utah	—Interstate Brdcstg. Corp.
KTUL	ak	500	C (1)	Tulsa, Okla.	—Tulsa Brdcstg. Co., Inc.
WBBC	ak	500	2 (1)	Brooklyn, N. Y.	—Brooklyn Brdcstg. Corp.
WHDL	ak	250	D	Olean, N. Y.	—WHDL, Inc., Exchange Bank
WIRE	ak	1000	MR (5)	Indianapolis, Ind.	—Indianapolis Brdcstg., Inc.
WVFW	ak	500	2	Brooklyn, N. Y.	—Paramount Brdcstg. Co., 4 & 5 Court Sq.

1410 kcys. (212.6)

CKFC	ak	50	5	Vancouver, B. C.	—Standard Brdcstg. System, Ltd.
CKMO	ak	100	5F	Vancouver, B. C.	—British Columbia Brdcstg., Ltd.
CMCQ	ak	250	.....	Havana, Cuba	—Calle Vista Alegre 90
KFJM	ak	500	(1)	Grand Forks, N. D.	—University of N. Dak.
KGNC	ak	1000	(2.5) B	Amarillo, Texas	—Plains Radio Brdcstg. Co.
KMED	ck	250	N	Medford, Ore.	—Mrs. W. J. Virgin, Sparta Bldg.
WAAB	ak	500	M (1)	Boston, Mass.	—Yankee Network, Inc.
WBGM	ak	500	X	Bay City, Mich.	—James E. Davidson, Hotel Wenonah
WHIS	ak	500	(1)	Bluefield, W. Va.	—Daily Telegraph Ptg. Co., Bland St.
WROK	ak	500	(1)	Rockford, Ill.	—Rockford Broadcasters, Inc.
WSFA	ak	500	C (1)	Montgomery, Ala.	—Montgomery Brdcstg. Co., Inc.

1420 kcys. (211.1)

CKGB	ak	100	F	Timmins, Ont.	—Northern Brdcstg. Co., Ltd.
CRGV	ak	100	F	Toronto, Ont.	—Canadian Brdcstg. Corp.
KABC	ak	100	(.25)	San Antonio, Texas	—Alamo Brdcstg. Co., Inc.
KABR	ak	100	.....	Aberdeen, S. D.	—Aberdeen Brdcstg. Co.
KATE	z	250	DP	Albert Lea, Minn.	—Albert Lea Brdcstg. Corp.
KBPS	ak	100	4	Portland, Ore.	—Bensan Polytechnic School
KCMC	ak	100	(.25)	Texarkana, Tex.	—KCMC, Inc.
KEUB	ak	100	.....	Price, Utah	—Eastern Utah Brdcstg. Co.
KFAM	z	100	P	St. Cloud, Minn.	—Times Publishing Co.
KFIZ	ak	100	.....	Fond du Lac, Wis.	—Reporter Printing Co., Lange Bldg.
KGFF	ak	100	(.25) M	Shawnee, Okla.	—KGFF, Inc., 9th and Bell
WGCG	ak	100	.....	San Francisco, Cal.	—Golden Gate Brdcstg. Co., 230 Eddy St.
KGIW	ak	100	1	Alamosa, Colo.	—Leonard E. Wilson, Box 26
KIDW	ak	100	1	Lamar, Colo.	—Southwest Brdcstg. Co.
KIUN	ak	100	.....	Pecos, Texas	—J. H. Hawkins & B. H. Tubbs
KLBM	z	100	(.25) P	La Grande, Ore.	—Harold M. Finley
KNET	ak	100	D	Palestine, Texas	—Palestine Brdcstg. Ass'n.
KORE	ak	100	.....	Eugene, Ore.	—Eugene Brdcstg. Station, 733 Willamette
KRBC	ak	100	(.25)	Abilene, Texas	—Reporter Brdcstg. Co., Box 263
KRLH	z	100	D	Midland, Texas	—Clarence Scharbaur
KTRI	z	100	(.25) P	Sioux City, Iowa	—Sioux City Brdcstg. Co.
KUMA	ak	100	.....	Yuma, Ariz.	—Dr. A. M. Schermann, Box 267

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KWBG	ak	100	.....	Hutchinson, Kans.	—W. N. Greenwald
KXL	ak	100	4 (25)	Portland, Ore.	—KXL Broadcasters, Multnomah Hotel
WACO	ak	100	C	Waco, Texas	—KTSA Brdcastg. Co.
WAGM	ak	100	.....	Presque Isle, Me.	—Aroostook Brdcastg. Corp., Main St.
WAPO	ak	100	(25)	Chattanooga, Tenn.	—W. A. Patterson, 9th Broad St.
WAZL	ak	100	2	Hazleton, Pa.	—Hazleton Brdcastg. Serv., Inc.
WCBS	ak	100	.....	Springfield, Ill.	—WCBS, Inc., 208 1/2 S. 5th
WCHV	ak	100	3 (25)	Charlottesville, Va.	—Community Brdcastg. Corp., Box 221
WEED	ak	100	3 (25)	Rocky Mount, N. C.	—Wm. Avera Wynne, Box 221
WELL	ak	100	.....	Battle Creek, Mich.	—Enquirer News Co., 1 W. Michigan
WGPC	ak	100	.....	Albany, Ga.	—Americus Brdcastg. Corp.
WHFC	ak	100	(25)	Cicero, Ill.	—WHFC, Inc., 6138 Cermak Rd.
WILM	aj	100	2	Wilmingon, Del.	—Delaware Brdcastg. Corp., 920 King St.
WJBR	z	100	P	Gastonia, N. C.	—J. B. Roberts
WJMS	ak	100	.....	Ironwood, Mich.	—WJMS, Inc., St. James Hotel
WLAP	ak	100	(25)	Lexington, Ky.	—American Brdcastg. Corp.
WLEU	ak	100	(25) B	Erie, Pa.	—Leo J. Omelian, Commerce Bldg.
WMAS	ak	100	C (25)	Springfield, Mass.	—WMAS, Inc., Hotel Stonehaven
WMBC	ak	100	(25)	Detroit, Mich.	—Michigan Brdcastg. Co.
WJBIH	ak	100	(25)	Joplin, Mo.	—Joplin Brdcastg. Co., 1334 Roosevelt
WMBS	ak	250	D	Uniontown, Pa.	—Fayette Brdcastg. Corp.
WMFJ	ak	100	.....	Daytona Bch., Fla.	—W. W. Esch, 126 1/2 Magnolia
WMSD	ak	100	.....	Sheffield, Ala.	—Muscle Shoals Brdcastg. Corp.
WNNY	z	100	(25) P	Watertown, N. Y.	—Black River Valley Broadcasts, Inc.
WPAD	ak	100	(25)	Paducah, Ky.	—Paducah Brdcastg. Co., Inc., 2201 Broadway
WPAR	ak	100	C	Parkersburg, W. V.	—Ohio Valley Brdcastg. Corp.
WPRP	z	100	(25)	Ponce, Puerto Rico	—Julio M. Conesa

1430 kcys. (209.7)

CMJP	ak	75	.....	Moron, Cuba	—Cesar Canall, Callejas 80
KECA	ak	1000	(5) B	Los Angeles, Cal.	—E. C. Anthony, Inc., 1000 S. Hope
KGNF	ak	1000	D	North Platte, Neb.	—Great Plains Brdcastg. Co., W. 12th St.
KSO	ak	500	BM(2.5)	Des Moines, Iowa	—Iowa Brdcastg. Co., 715 Locust St.
WBNS	ak	500	C (1)	Columbus, Ohio	—WBNS, Inc., 33 N. High St.
WHFC	ak	500	C (1)	Rochester, N. Y.	—WHFC, Inc., 40 Franklin St.
WHIP	ak	500	C (1)	Harrisburg, Pa.	—WHP, Inc., 216 Locust St.
WMPS	ak	500	(1) B	Memphis, Tenn.	—Memphis Commercial Appeal, Box 445
WOKO	ak	500	C (1)	Albany, N. Y.	—WOKO, Inc., Hotel Ten Eyck

1440 kcys. (208.2)

CMOA	z	150	.....	Havana, Cuba	—Juan Fernandez Duran, Aguilar 126
KDFN	ak	500	.....	Casper, Wyo.	—Donald Lewis Hathaway, Box 930
KELA	z	500	P	Centralia, Wash.	—Central Brdcastg. Corp.
KXYZ	ak	1000	B	Houston, Texas	—Harris County Brdcastg. Co., Gulf Bldg.
WBLG	ak	1000	C	Greensboro, N. C.	—N. C. Brdcastg. Co., Inc.
WCBA	aj	500	a	Allentown, Pa.	—B. B. Musselman, 39-41 Tenth St.
WMBD	ak	500	C(1)X	Peoria, Ill.	—Peoria Brdcastg. Co.
WSAN	aj	500	Ba	Allentown, Pa.	—WSAN, Inc., 39 Tenth St.
XEFL	ak	250	.....	Chihuahua, Chih.	—Feliciano Lopez Isles, Apido. 157

1450 kcys. (206.8)

CFCT	ak	50	.....	Victoria, B. C.	—Victoria Brdcastg. Assn., 620 View St.
CHGS	ak	50	F	Summerside, P.E.I.	—R. T. Holman, Ltd., 190 Water St.
CMHM	z	100	.....	Cienfuegos, Cuba	—Hotel Union
KGCN	ak	1000	.....	Wolf Point, Mont.	—E. E. Krebsbach
KIEM	ak	500	.....	Eureka, Calif.	—Redwood Brdcastg. Co., Vance Hotel
KTRS	ak	1000	N	Shreveport, La.	—Tri-State Brdcastg. System, Box 17
WAGA	ak	500	B (1)	Atlanta, Ga.	—Liberty Brdcastg. Co.
WGAR	ak	500	MC (1)	Cleveland, Ohio	—WGAR Brdcastg. Co., Hotel Statler
WHOM	ak	250	.....	Jersey City, N. J.	—New Jersey Brdcastg. Corp.
WSAR	ak	1000	M	Fall River, Mass.	—Doughty & Welch Elec. Co., Inc.
XEF	ak	100	.....	Juarez, Chih.	—Box 70

1460 kcys. (205.4)

CMKF	z	250	.....	Holguin, Cuba	—Manuel J. DeGongora
KSTP	ak	10000	R (25)	St. Paul, Minn.	—National Battery Brdcastg. Co.
WJSV	ak	10000	C	Washington, D. C.	—Columbia Brdcastg. System, Earle Bldg.

1470 kcys. (204.0)

KGA	ak	5000	B	Spokane, Wash.	—Louis Wasmer, 1023 W. Riverside
WLAC	ak	5000	C	Nashville, Tenn.	—WLAC, Inc., 2421 West End Ave.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1480 kcys. (202.6)

KOMA	ak	5000	C	Oklahoma City, Ok.	—Hearst Radio, Inc., Biltmore Hotel
WHIP	z	5000	DP	Hammond, Ind.	—Hammond-Calumet Brdcstg. Corp.
WKBW	ak	5000	C	Buffalo, N. Y.	—Buffalo Brdcstg. Corp., Rand Bldg.

1490 kcys. (201.2)

KFBK	ak	5000	N X	Sacramento, Calif.	—McClatchey Brdcstg. Co., 708 I St.
WCKY	ak	10000	B	Covington, Ky.	—L. B. Wilson, Inc., 6th & Madison.

1500 kcys. (199.9)

CJIC	ak	100		S. S. Marie, Ont.	—Hyland & Whitby, Windsor Hotel
KAWM	z	100		Gallup, N. Mex.	—A. W. Mills
KBIX	ak	100	M	Muskogee, Okla.	—Muskogee Press, Barnes Bldg.
KBST	z	100		Big Spring, Texas	—Big Spring Herald Brdcstg. Co.
KDAL	ak	100	C	Duluth, Minn.	—Red River Brdcstg. Co., Inc.
KDB	ak	100	M(.25)	Santa Barbara, Cal.	—Santa Barbara Brdcsters., Ltd.
KGFI	ak	100	Y(.25)	Corp. Christi, Tex.	—Eagle Brdcstg. Co., Inc., Box 1508
KGKB	ak	100	(.25)	Tyler, Texas	—East Texas Brdcstg. Co., 115 S. College
KGKY	ak	100	(.25)	Scottsbluff, Neb.	—Hilliard Co., Inc., 1517 1/2 Broadway
KNEL	ak	250	D	Brady, Texas	—G. L. Bowles, Box 1077
KNOW	ak	100	C	Austin, Texas	—KUT Brdcstg. Co., Norwood Bldg.
KOTN	ak	100	D	Pine Bluff, Ark.	—Universal Brdcstg. Corp., Hotel Pines
KOVC	ak	100		Valley City, N. D.	—KOVG, Inc.
KPLC	ak	100	(.25)	Lake Charles, La.	—Calcasieu Brdcstg. Co., Majestic Hotel
KPLT	z	250	D	Paris, Texas	—North Texas Brdcstg. Co.
KPO	ak	100	(.25)	Wenatchee, Wash.	—Wescoast Brdcstg. Co., 20—2nd St.
KRNR	ak	100	(.25)	Roseburg, Ore.	—News-Review Co.
KROD	ak	100	P	El Paso, Texas	—Dorrence D. Roderick
KSAL	ak	100	(.25)	Salina, Kans.	—R. J. Laubengayer, Journal Bldg.
KUTA	z	100	P	Salt Lake City, Ut.	—Utah Broadcasting Co.
KVOE	ak	100	M	Santa Ana, Calif.	—Voice of Orange Empire, Ltd.
KXO	ak	100	I(.25)	Brooklyn, N. Y.	—F. M. Bowles, Box 140
WCNWX	ak	100	(.25)	Durham, N. C.	—Arthur Paske, 846 Flatbush
WDNC	ak	100	C	Lancaster, Pa.	—Durham Radio Corp., Washington Duke Hotel
WGAL	ak	100	(.25)	Selma, Ala.	—WGAL, Inc., 8 W. King St.
WHBB	ak	100	(.25)	Kosciusko, Miss.	—Selma Brdcstg. Co., Inc., Box 26
WHEF	ak	100	(.25)	Detroit, Mich.	—Attala Brdcstg. Corp., Box 631
WJBB	ak	100	(.25)	Miami Beach, Fla.	—Jas. F. Hopkins, Inc., 6559 Hamilton
WKAT	z	100	P	E. Dubuque, Ill.	—A. Frank Katzentine
WKBB	ak	100	(.25)	Richmond, Ind.	—Sanders Bros., Hotel Julian
WKBV	ak	100	(.25)	Muskegon, Mich.	—Knox Radio Corp., Box 308
WKBZ	ak	100	(.25)	Griffin, Ga.	—Karl L. Ashbacher, Mich. Theater
WKEU	ak	100	D	Brooklyn, N. Y.	—Station WKEU, 906 Hill St.
WMBO	ak	100	I	Boston, Mass.	—Metropolitan Brdcstg. Corp., 95 Leonard
WMEX	ak	100	(.25)	Binghamton, N. Y.	—The Northern Corp., Hotel Manager
WNBF	ak	100	C(.25)	New London, Conn.	—Howitt-Wood Radio Co., Arlington Hotel
WNLC	ak	100	DM	Owensboro, Ky.	—Thames Brdcstg. Corp., Mohican Hotel
WOMI	z	100	P	Bristol, Tenn.	—Owensboro Brdcstg. Co.
WOPI	ak	100		Augusta, Ga.	—Radiophore Station WOPI, 22nd & State
WRDW	ak	100	(.25)	Rome, Ga.	—Augusta Brdcstg. Co., Inc., 309-8th
WRGA	ak	100	(.25)	Richmond, Va.	—Rome Brdcstg. Corp., 10 Third
WRTD	z	100	B	Richmond, Va.	—Times Dispatch Pub. Co.
WSYB	ak	100		Rutland, Vt.	—Philip Weiss Music Co., Box 328
WTMV	ak	100	(.25)	E. St. Louis, Ill.	—Miss. Valley Brdcstg. Co.
WWRL	ak	100	I(.25)	Woodside, N. Y.	—Long Isl. Brdcstg. Co.
WWSW	ak	100	(.25)	Pittsburgh, Pa.	—Walker & Downing Radio Corp., Hotel Key-stone

1510 kcys. (198.6)

CFRC	ak	100	F	Kingston, Ont.	—Queen's University, Fleming Hall
CKCR	ak	100		Waterloo, Ont.	—K. W. Brdcstg. Co., 24 King St. S.

1530 kcys. (196.0)

KXBY	ak	1000		Kansas City, Mo.	—First Natl. Television Inc., 106 W. 14th
WBR Y	ak	1000	M	Waterbury, Conn.	—American Republican, Inc., 136 Grand

1550 kcys. (193.4)

KPMC	ak	1000	M	Bakersfield, Calif.	—Pioneer Mercantile Co.
WQXR	ak	1000		New York, N. Y.	—Interstate Brdcstg. Co., 730 Fifth Ave.

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Coeur d'Alene 1200 100</p> <p>Idaho Falls KID 1320 500</p> <p>Lewiston KRLC 1390 250</p> <p>Nampa KFXD 1200 100</p> <p>Pocatello KSEI 900 250</p> <p>Twin Falls KTFI 1240 1000</p>	<p>Fort Wayne WGL 1370 100 WOWO 1160 10000 B</p> <p>Gary WIND 560 1000</p> <p>Hammond WHIP 1480 5000 WWAE 1200 100</p> <p>Indianapolis WFBM 1230 1000 C WGVA 1050 1000 WIRE 1400 1000 R</p> <p>Muncie WLBC 1310 100</p> <p>New Albany WGRC 1370 250</p> <p>Richmond WKBV 1500 100</p> <p>South Bend WFAM 1200 100 WSBT 1360 500</p> <p>Terre Haute WBOW 1310 100 B</p> <p>West Lafayette WBAA 890 500</p>	<p>Kansas City KCKN 1310 100</p> <p>Lawrence KFKU 1220 1000 WREN 1220 1000 B</p> <p>Manhattan KSAC 580 500</p> <p>Pittsburg KOAM 790 1000</p> <p>Salina KSAL 1500 100</p> <p>Topeka WIBW 580 1000 C</p> <p>Wichita KANS 1210 100 B KFH 1300 1000 C</p>	<p>MARYLAND</p> <p>Baltimore WBAL 760 2500 B WBAL 1060 10000 B WCAO 600 500 C WCBM 1370 100 R WFBR 1270 500 R</p> <p>College Park W3XJ 1060 100</p> <p>Cumberland WTBO 800 250</p> <p>Frederick WFMD 900 500</p> <p>Hagerstown WJEJ 1210 100</p> <p>Salisbury WSAL 1200 250</p>
<p>ILLINOIS</p> <p>Bloomington WJBC 1200 100</p> <p>Carthage WCAZ 1070 100</p> <p>Champaign WDWS 1370 100</p> <p>Chicago WAAF 920 1000 WBBM 770 50000 C WCBD 1080 5000 WCFL 970 5000 B WCRW 1210 100 WDEC 1210 100 WENR 870 50000 B WGES 1360 500 WGN 720 50000M WJJD 1130 20000 WLS 870 50000 N WMAQ 670 50000 R WMBI 1080 5000 WSBC 1210 100</p> <p>Cicero WHFC 1420 100</p> <p>Decatur WJBL 1200 100</p> <p>East Dubuque WKBB 1500 100</p> <p>East St. Louis WTMV 1500 100</p> <p>Harrisburg WEBQ 1210 100</p> <p>Joliet WCLS 1310 100</p> <p>Peoria WMBD 1440 500 C</p> <p>Quincy WTAD 900 1000</p> <p>Rockford WROK 1410 500</p> <p>Rock Island WHBF 1210 100</p> <p>Springfield WCBS 1420 100 WTAX 1210 100</p> <p>Tuscola WIDZ 1020 250</p> <p>Urbana WILL 580 1000</p>	<p>IOWA</p> <p>Ames WOI 640 5000</p> <p>Boone KFGO 1370 100</p> <p>Cedar Rapids WMT 600 1000 B</p> <p>Davenport WOC 1370 100 C</p> <p>Decorah KGCA 1270 100 KWLC 1270 100</p> <p>Des Moines KRNT 1320 1000 C KSO 1430 500 B WHO 1000 50000 R</p> <p>Dubuque KDTH 1340 500</p> <p>Iowa City WSUI 880 500</p> <p>Marshalltown KFJB 1200 100</p> <p>Mason City KGLO 1210 100 C</p> <p>Shenandoah KFNE 890 500 KMA 930 1000</p> <p>Sioux City KSCJ 1330 1000 C KTRI 1420 100</p>	<p>KENTUCKY</p> <p>Ashland WCMI 1310 100</p> <p>Covington WCKY 1490 10000 B</p> <p>Lexington WLAP 1420 100</p> <p>Louisville WAVE 940 1000 N WHAS 820 50000 C</p> <p>Middlesboro WLMU 1210 100</p> <p>Owensboro WOMI 1500 100</p> <p>Paducah WPAD 1420 100</p>	<p>MASSACHUSETTS</p> <p>Boston WAAB 1410 500M WBZ 990 50000 B WCOP 1120 500 WEEI 590 1000 C WHDH 830 1000 WMEX 1500 100 WNAC 1230 1000 R WORL 920 500</p> <p>Fall River WSAR 1450 1000M</p> <p>Lawrence WLAW 680 1000 1370 10-100</p> <p>Lowell WLLH 1370 100M</p> <p>New Bedford WNBH 1310 100M</p> <p>Pittsfield WBRK 1310 100</p> <p>Springfield WBZA 990 1000 B WMAS 1420 100 C WSPR 1140 500M</p> <p>Worcester WORC 1280 500 C WTAG 580 1000 R</p>
<p>INDIANA</p> <p>Anderson WIBU 1210 100</p> <p>Elkhart WTRC 1310 100</p> <p>Evansville WEOA 1370 100 C WGBF 630 500 B</p>	<p>KANSAS</p> <p>Abilene KFBI 1050 5000</p> <p>Coffeyville KGGF 1010 1000M</p> <p>Dodge City KCNO 1340 250</p> <p>Garden City KIUL 1210 100</p> <p>Great Bend KVGB 1370 100</p> <p>Hutchinson KWBG 1420 100</p>	<p>LOUISIANA</p> <p>Alexandria KALB 1210 100</p> <p>Baton Rouge WJBO 1120 500 B</p> <p>Lafayette KVOL 1310 100</p> <p>Lake Charles KPLC 1500 100</p> <p>Monroe KMLB 1200 100</p> <p>New Orleans WBNO 1200 100 WDSU 1250 1000 B WJBW 1200 100 WSMB 1320 1000 N WWL 850 10000 C</p> <p>Shreveport KRMD 1310 100 KTBS 1450 1000 N KWKH 1100 10000 C</p>	<p>MICHIGAN</p> <p>Battle Creek WELL 1420 100</p> <p>Bay City WBCM 1410 500</p> <p>Calumet WHDF 1370 100</p> <p>Detroit WJBK 1500 100 WJR 750 50000 C WMBG 1420 100 WVJ 920 5000 R WXYZ 1240 1000 B</p> <p>East Lansing WKAR 850 1000</p> <p>Flint WDFD 1310 100</p> <p>Grand Rapids WASH 1270 500 N WOOD 1270 500 N</p> <p>Ironwood WJMS 1420 100</p> <p>Jackson WIBM 1370 100</p>
		<p>MAINE</p> <p>Augusta WRDO 1370 100M</p> <p>Bangor WABI 1200 100 WLBZ 620 500 C</p> <p>Portland WCSH 940 1000 R WGAN 640 500</p> <p>Presque Isle WAGM 1420 100</p>	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Kalamazoo WKZO 590 1000 B</p> <p>Lansing WJIM 1210 100</p> <p>Lapeer WMFC 1200 100</p> <p>Marquette WBEO 1310 100</p> <p>Muskegon WKBZ 1500 100</p> <p>Royal Oak WEXL 1310 50</p> <p>Saginaw WHAL 950 500</p> <hr/> <p style="text-align: center;">MINNESOTA</p> <hr/> <p>Albert Lea KATE 1420 250</p> <p>Duluth KDAL 1500 100 C WEBC 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 WLB 1250 1000 WTCN 1250 1000 B</p> <p>Moorhead KVOX 1310 100</p> <p>Northfield WCAL 1250 1000</p> <p>Rochester KROC 1310 100</p> <p>St. Cloud KFAM 1420 100</p> <p>St. Paul KSTP 1460 10000 R WMIN 1370 100</p> <p>Virginia WHLB 1370 100</p> <p>Winona KWNO 1200 100</p> <hr/> <p style="text-align: center;">MISSISSIPPI</p> <hr/> <p>Grenada WMFN 1210 100</p> <p>Gulfport WGCM 1210 100</p> <p>Hattiesburg WFOR 1370 100</p> <p>Jackson WJDX 1270 1000 N</p> <p>Kosciusko WHEF 1500 100</p> <p>Laurel WAML 1310 100</p> <p>Meridian WCOC 880 500 C</p> <p>Vicksburg WQBC 1360 1000</p> <hr/> <p style="text-align: center;">MISSOURI</p> <hr/> <p>Cape Girardeau KFVS 1210 100</p> <p>Columbia KFUR 630 500</p> <p>Jefferson City KWOS 1310 100</p> <p>Joplin WMBH 1420 100</p>	<p>Kansas City KCMO 1370 100 KMBC 950 1000 C KXBY 1530 1000 WDAF 610 1000 R WHB 860 1000M</p> <p>St. Joseph KFEQ 680 2500</p> <p>St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100</p> <p>Springfield KGBX 1230 500 KWTO 560 5000</p> <hr/> <p style="text-align: center;">MONTANA</p> <hr/> <p>Billings KGHL 780 1000 N</p> <p>Butte KGRJ 1340 1000 N</p> <p>Great Falls KFBB 1280 1000 C</p> <p>Helena KPFA 1210 100 Kalspell KGEZ 1310 100 Lewistown KDNC 1200 100 Missoula KGVO 1260 1000 C Wolf Point KGCX 1450 1000</p> <hr/> <p style="text-align: center;">NEBRASKA</p> <hr/> <p>Clay Center KMMJ 740 1000</p> <p>Kearney KGFV 1310 100</p> <p>Lincoln KFAB 770 10000 C KFOR 1210 100 C</p> <p>Norfolk WJAC 1060 1000</p> <p>North Platte KGNF 1430 1000</p> <p>Omaha KOIL 1260 1000 B WAAW 660 500 WOW 590 1000 R</p> <p>Scottsbluff KGGY 1500 100</p> <hr/> <p style="text-align: center;">NEVADA</p> <hr/> <p>Reno KOH 1380 500 C</p> <hr/> <p style="text-align: center;">NEW HAMPSHIRE</p> <hr/> <p>Laconia WLNH 1310 100M</p> <p>Manchester WFEA 1340 500 B</p> <p>Portsmouth WHEB 740 250</p> <hr/> <p style="text-align: center;">NEW JERSEY</p> <hr/> <p>Asbury Park WCAP 1280 500</p>	<p>Atlantic City WPG 1100 5000 C</p> <p>Bridgeton WSNJ 1210 100</p> <p>Camden WCAM 1280 500</p> <p>Jersey City WAAT 940 500 WHOM 1450 250</p> <p>Newark WHBI 1250 1000 WOR 710 50000M</p> <p>Red Bank WBRB 1210 100</p> <p>Trenton WTNJ 1280 500</p> <p>Zarephath WAWZ 1350 500</p> <hr/> <p style="text-align: center;">NEW MEXICO</p> <hr/> <p>Albuquerque KGGM 1230 1000 KOB 1180 10000 B</p> <p>Carlsbad KLAH 1210 100</p> <p>Clovis KICA 1370 100</p> <p>Gallup KAWM 1500 100</p> <p>Roswell KGFL 1370 100</p> <p>Santa Fe KRQA 1310 100</p> <hr/> <p style="text-align: center;">NEW YORK</p> <hr/> <p>Albany WABY 1370 100 WOKO 1430 500 C</p> <p>Auburn WMBO 1310 100</p> <p>Binghamton WNBf 1500 100 C</p> <p>Brooklyn WBCB 1400 500 WBRB 1300 1000 WCNW 1500 100 WMBO 1500 100 WVFW 1400 500</p> <p>Buffalo WBEN 900 1000 R WBNY 1370 100 WEBR 1310 100 B WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50</p> <p>Canton WCAD 1220 500</p> <p>Elmira WESG 850 1000 C</p> <p>Freeport WGBB 1210 100</p> <p>Jamestown WJTN 1210 100 B</p> <p>Newburgh WGNV 1310 100</p> <p>New York WABC 860 50000 C WHIL 1100 5000 WBNX 1350 1000 WBOQ 860 50000 WEAF 660 50000 R</p>	<p>WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WMCA 570 1000 WNEW 1250 1000 WNYC 810 1000 WOV 1130 1000 WQXR 1550 1000</p> <p>Olean WHDL 1400 250</p> <p>Plattsburg WMFF 1310 100</p> <p>Rochester WHAM 1150 50000 B WHEC 1430 500 C WSAY 1210 100</p> <p>Saranac Lake WNBZ 1290 100</p> <p>Schenectady WGY 790 50000 R</p> <p>Syracuse WFBL 1360 1000 C WSYR 570 1000 B</p> <p>Troy WHAZ 1300 1000</p> <p>Utica WIBX 1200 100 C</p> <p>Watertown WNNY 1420 100</p> <p>White Plains WFAS 1210 100</p> <p>Woodside WWRL 1500 100</p> <hr/> <p style="text-align: center;">NORTH CAROLINA</p> <hr/> <p>Asheville WWNC 570 1000 N</p> <p>Charlotte WBT 1080 50000 C WSOC 1210 100 N</p> <p>Durham WDNC 1500 100 C</p> <p>Gastonia WJBR 1420 100</p> <p>Greensboro WBG 1440 1000 C</p> <p>High Point WMFR 1200 100</p> <p>Kinston WFTC 1200 100</p> <p>Raleigh WPTF 680 1000 N</p> <p>Rocky Mount WEED 1420 100</p> <p>Wilmington WMFD 1370 100</p> <p>Wilson WGTM 1310 100</p> <p>Winston-Salem WAIR 1250 250 WSJS 1310 100 C</p> <hr/> <p style="text-align: center;">NORTH DAKOTA</p> <hr/> <p>Bismarck KFYR 550 1000 N</p> <p>Devils Lake KDLR 1210 100</p> <p>Fargo WDAY 940 1000 N</p> <p>Grand Forks KFJM 1410 500</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Jamestown KRMC 1370 100</p> <p>Mandan KGCC 1240 250</p> <p>Minot KLPM 1240 250</p> <p>Valley City KOVC 1500 100</p> <hr/> <p style="text-align: center;">OHIO</p> <hr/> <p>Akron WADC 1320 1000 C WJW 1210 100</p> <p>Ash tabula WICA 940 250</p> <p>Canton WHBC 1200 100</p> <p>Cincinnati WCPO 1200 100 WKRC 550 1000 C WLW 700 500000 N WSAI 1330 1000 R W8XO 700 500000</p> <p>Cleveland WCLE 610 500M WGAR 1450 500 C WHK 1390 1000 B WTAM 1070 50000 R</p> <p>Columbus WBNS 1430 500 C WGOL 1210 100 N WHKC 640 500 WOSU 570 750</p> <p>Dayton WHIO 1260 1000 C WSMK 1380 200 C</p> <p>Lima WBLY 1210 100</p> <p>Portsmouth WPAY 1370 100</p> <p>Toledo WSPD 1340 1000 B WTOL 1200 100</p> <p>Youngstown WKBN 570 500 C</p> <p>Zanesville WALR 1210 100</p> <hr/> <p style="text-align: center;">OKLAHOMA</p> <hr/> <p>Ada KADA 1200 100M</p> <p>Ardmore KVSO 1210 100M</p> <p>Elk City KASA 1210 100M</p> <p>Enid KCRC 1360 250M</p> <p>Muskogee KBIX 1500 100M</p> <p>Norman WNAD 1010 1000</p> <p>Oklahoma City KFXR 1310 100 KOMA 1480 5000 C KTOK 1370 100M WKY 900 1000 N</p> <p>Okmulgee KHBG 1210 100</p> <p>Ponca City WBBZ 1200 100M</p> <p>Shawnee KGFF 1420 100M</p>	<p>Tulsa KTUL 1400 500 C KVOO 1140 25000 N</p> <hr/> <p style="text-align: center;">OREGON</p> <hr/> <p>Astoria KAST 1370 100</p> <p>Corvallis KOAC 550 1000</p> <p>Eugene KORE 1420 100</p> <p>Klamath Falls KFJI 1210 100</p> <p>La Grande KLBM 1420 100</p> <p>Marshfield KOOS 1200 100</p> <p>Medford KMED 1410 250 N</p> <p>Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 B KGW 620 1000 R KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100</p> <p>Roseburg KRRR 1500 100</p> <p>Salem KSLM 1370 100</p> <hr/> <p style="text-align: center;">PENNSYLVANIA</p> <hr/> <p>Allentown WCBA 1440 500 WSAN 1440 500 B</p> <p>Altoona WFBG 1310 100</p> <p>Easton WEST 1200 100</p> <p>Erie WLEU 1420 100 B</p> <p>Glenside WIBG 970 100</p> <p>Greensburg WHJB 620 250 C</p> <p>Grove City WSAJ 1310 100</p> <p>Harrisburg WHP 1430 500 C WKBO 1200 100</p> <p>Hazleton WAZL 1420 100</p> <p>Johnstown WJAC 1310 100</p> <p>Lancaster WGAL 1500 100</p> <p>Philadelphia KYW 1020 10000 R WCAU 1170 50000 C</p> <p>WDAS 1370 100</p> <p>WFIL 560 1000 B</p> <p>WHAT 1310 100</p> <p>WIP 610 1000</p> <p>WPEN 920 1000</p> <p>WRAX 920 1000</p> <p>WTEL 1310 100</p> <p>Pittsburgh KDKA 980 50000 B KOV 1380 500 C WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100</p>	<p>Reading WEUU 830 1000 WRAW 1310 100</p> <p>Scranton WGBI 880 500 WQAN 880 500</p> <p>Sunbury WKOK 1210 100</p> <p>Uniontown WMBS 1420 250</p> <p>Wilkes-Barre WBAX 1210 100 WBRE 1310 100</p> <p>Williamsport WRAK 1370 100</p> <p>York WORK 1320 1000 B</p> <hr/> <p style="text-align: center;">PUERTO RICO</p> <hr/> <p>Mayaguez WPRA 1370 100</p> <p>Ponce WPRP 1420 100</p> <p>San Juan WKAO 1240 1000 WNEL 1290 1000</p> <hr/> <p style="text-align: center;">RHODE ISLAND</p> <hr/> <p>Providence WEAN 780 1000M WJAR 890 1000 R WPRO 630 500 C</p> <hr/> <p style="text-align: center;">SOUTH CAROLINA</p> <hr/> <p>Anderson WAIM 1200 100 C</p> <p>Charleston WCSC 1360 500 N</p> <p>Columbia WIS 560 1000 N</p> <p>Florence WOLS 1200 100</p> <p>Greenville WFBC 1300 1000 N</p> <p>Spartanburg WSPA 920 1000</p> <hr/> <p style="text-align: center;">SOUTH DAKOTA</p> <hr/> <p>Aberdeen KABR 1420 100</p> <p>Brookings KFDY 780 1000</p> <p>Huron KGDY 1340 250</p> <p>Pierre KGFY 630 200</p> <p>Rapid City KOBH 1370 100 WCAT 1200 100</p> <p>Sioux Falls KELO 1200 100 N KSOO 1110 2500 B</p> <p>Vermillion KUSD 890 500</p> <p>Watertown KWTN 1210 100</p> <p>Yankton WNAX 570 1000 C</p> <hr/> <p style="text-align: center;">TENNESSEE</p> <hr/> <p>Bristol WOPI 1500 100</p>	<p>Chattanooga WAPO 1420 100 WDDO 1280 1000 C</p> <p>Jackson WTJS 1310 100</p> <p>Knoxville WNOX 1010 1000 C WROL 1310 100 B</p> <p>Memphis WHBO 1370 100 WMC 780 1000 N WMPS 1430 500 B WREC 600 1000 C</p> <p>Nashville WLAC 1470 5000 C WSIX 1210 100 WSM 650 50000 N</p> <hr/> <p style="text-align: center;">TEXAS</p> <hr/> <p>Abilene KRBC 1420 100</p> <p>Amarillo KGNC 1410 1000 B</p> <p>Austin KNOW 1500 100 C KTBC 1120 1000</p> <p>Beaumont KFDM 560 500 B</p> <p>Big Spring KBST 1500 100</p> <p>Brady KNEL 1500 250</p> <p>College Station WTAW 1120 500</p> <p>Corpus Christi KGFI 1500 100 KRIS 1330 500 B</p> <p>Corsicana KAND 1310 100</p> <p>Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M</p> <p>Dublin KFPL 1310 100</p> <p>El Paso KROD 1500 100 KTSM 1310 100 WDAH 1310 100</p> <p>Fort Worth KFJZ 1370 100 KTAT 1240 1000M WBAP 800 50000 N</p> <p>Galveston KLUF 1370 100</p> <p>Greenville KGVL 1200 100</p> <p>Houston KPRC 920 1000 N KTRH 1290 1000 C KXYZ 1440 1000 R</p> <p>Kilgore KOCA 1210 100</p> <p>Longview KFRO 1370 250</p> <p>Lubbock KFYO 1310 100</p> <p>Lufkin KRBA 1310 100</p> <p>Midland KRLH 1420 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Palestine KNET 1420 100</p> <p>Pampa KPDN 1310 100</p> <p>Paris KPLT 1500 250</p> <p>Pecos KIUN 1420 100</p> <p>Port Arthur KPAC 1260 500</p> <p>San Angelo KGKL 1370 100</p> <p>San Antonio KABC 1420 100</p> <p>KMAC 1370 100</p> <p>KONO 1370 100</p> <p>KTSA 550 1000 C</p> <p>WOAI 1190 50000 N</p> <p>Sherman KRRV 1310 250</p> <p>Temple KTEM 1370 250</p> <p>Texarkana KCMC 1420 100</p> <p>Tyler KGKB 1500 100</p> <p>Waco WACO 1420 100 C</p> <p>Weslaco KRCV 1260 1000 B</p> <p>Wichita Falls KGKO 570 250 C</p>	<p>WRTD 1500 100 B</p> <p>WRVA 1110 5000 C</p> <p>Roanoke WDBJ 930 1000 C</p> <p style="text-align: center;">WASHINGTON</p> <p>Aberdeen KXRO 1310 100</p> <p>Bellingham KVOS 1200 100</p> <p>Centralia KELA 1440 500</p> <p>Everett KRKO 1370 50</p> <p>Longview 780 250</p> <p>Olympia KGY 1210 100</p> <p>Pullman KWSC 1220 1000</p> <p>Seattle KEEN 1370 100</p> <p>KIRO 710 1000</p> <p>KJR 970 5000 B</p> <p>KOL 1270 1000 C</p> <p>KOMO 920 1000 R</p> <p>KRSC 1120 250</p> <p>KTW 1220 1000</p> <p>KXA 760 250</p> <p>Spokane KFO 1120 100</p> <p>KFPY 890 1000 C</p> <p>KGA 1470 5000 B</p> <p>KHQ 590 1000 R</p> <p>Tacoma KMO 1330 1000</p> <p>KVI 570 1000 C</p> <p>Walla Walla KUJ 1370 100</p> <p>Wenatchee KPO 1500 100</p> <p>Yakima KIT 1310 100</p>	<p>LaCrosse WKBH 1380 1000 C</p> <p>Madison WHA 940 5000</p> <p>WIBA 1280 1000 N</p> <p>Manitowoc WOMT 1210 100</p> <p>Milwaukee WEMP 1310 100</p> <p>WISN 1120 250 C</p> <p>WTMJ 620 1000 N</p> <p>Poynette WIBU 1210 100</p> <p>Racine WRJN 1370 100</p> <p>Sheboygan WHBL 1300 250</p> <p>Stevens Point WLBL 900 5000</p> <p>Superior WDSM 1200 100</p> <p>Wausau WSAU 1370 100</p> <p style="text-align: center;">WYOMING</p> <p>Casper KDFN 1440 500</p> <p>Rock Springs 1370 100</p> <p>Sheridan KWYO 1370 100</p> <p style="text-align: center;">CANADA</p> <p style="text-align: center;">ALBERTA</p> <p>Calgary CFAC 930 100 F</p> <p>CFCN 1030 10000</p> <p>CJGJ 690 100 F</p> <p>Edmonton CFRN 960 100 F</p> <p>CJCA 730 1000 F</p> <p>CKUA 580 500</p> <p>Lethbridge CJOC 950 100 F</p> <p style="text-align: center;">BRIT. COLUMBIA</p> <p>Chilliwack CHWK 780 100 F</p> <p>Kamloops CFJC 880 100 F</p> <p>Kelowna CKOV 630 100 F</p> <p>Prince Rupert CFPR 580 50</p> <p>Trail CJAT 910 1000 F</p> <p>Vancouver CBR 1100 5000 F</p> <p>CJOR 600 500</p> <p>CKGD 1010 100</p> <p>CKFC 1410 50</p> <p>CKMO 1410 100 F</p> <p>CKWX 1010 100 F</p> <p>Victoria CFCT 1450 50</p> <p style="text-align: center;">MANITOBA</p> <p>Brandon CKX 1120 1000 F</p> <p>Winnipeg CJRC 630 500 F</p> <p>CKY 760 15000 F</p>	<p style="text-align: center;">NEW BRUNSWICK</p> <p>Fredericton CFNB 550 500 F</p> <p>Moncton CKCW 1370 100 F</p> <p>St. John CHSJ 1120 500 F</p> <p style="text-align: center;">N. W. TERRITORY</p> <p>Aklavik CJCU 1210 50</p> <p style="text-align: center;">NOVA SCOTIA</p> <p>Glace Bay VAS 685 2000</p> <p>Halifax CHNS 930 1000 F</p> <p>Sydney CJCB 1240 1000 F</p> <p>Wolfville CKIC 1010 50</p> <p>Yarmouth CJLS 1310 100</p> <p style="text-align: center;">ONTARIO</p> <p>Brantford CKPC 930 100 F</p> <p>Chatham CFCO 630 100 F</p> <p>Cobalt CKMC 1210 50</p> <p>Port William CKPR 730 100 F</p> <p>Hamilton CHML 1010 100 F</p> <p>CKOC 1120 500 F</p> <p>Kingston CFRC 1510 100 F</p> <p>Kirkland Lake CJKL 1310 100 F</p> <p>London CFPL 730 100 F</p> <p>North Bay CFCH 930 100 F</p> <p>Ottawa CKCO 1010 100 F</p> <p>CRCO 880 1000 F</p> <p>Prescott CFCL 930 100</p> <p>St. Catharines CKTB 1200 100 F</p> <p>Sault Ste. Marie CJIC 1500 100</p> <p>Stratford CJCS 1210 50</p> <p>Sudbury CKSO 780 1000 F</p> <p>Timmins CKGB 1420 100 F</p> <p>Toronto CBL 50000</p> <p>CFRB 690 10000 C</p> <p>CKCL 580 100 F</p> <p>CRCT 840 5000 N</p> <p>CRCY 1420 100 F</p> <p>Waterloo CKCR 1510 100</p> <p>Windsor CBW 600 500 F</p> <p>CKLW 1030 5000 M</p> <p>Wingham CKNX 1200 50</p>
<p style="text-align: center;">UTAH</p> <p>Cedar City KSUB 1310 100</p> <p>Ogden KLO 1400 500 B</p> <p>Price KEUB 1420 100</p> <p>Salt Lake City KDYL 1290 1000 R</p> <p>KSL 1130 5000 C</p> <p>KUTA 1500 100</p> <p style="text-align: center;">VERMONT</p> <p>Burlington WCAX 1200 100</p> <p>Rutland WSYB 1500 100</p> <p>St. Albans WQDM 1390 1000</p> <p>Springfield WNBX 1260 1000 M</p> <p>Waterbury WDEV 550 500</p> <p style="text-align: center;">VIRGINIA</p> <p>Charlottesville WCHV 1420 100</p> <p>Danville WBTM 1370 100</p> <p>Harrisonburg WSVA 550 500</p> <p>Lynchburg WLVA 1200 100</p> <p>Newport News WGII 1310 100</p> <p>Norfolk WTAR 780 1000 N</p> <p>Richmond WBBL 1210 100</p> <p>WMBG 1350 500 R</p> <p>WRNL 880 500</p>	<p style="text-align: center;">WEST VIRGINIA</p> <p>Bluefield WHIS 1410 500</p> <p>Charleston WCHS 580 500 C</p> <p>Clarksburg WBLK 1370 100</p> <p>Fairmont WMMN 890 500 C</p> <p>Huntington WSAZ 1190 1000</p> <p>Parkersburg WPAR 1420 100 C</p> <p>Wheeling WWVA 1160 5000 C</p> <p style="text-align: center;">WISCONSIN</p> <p>Eau Claire WEAU 1050 1000</p> <p>Fond du Lac KFIZ 1420 100</p> <p>Green Bay WBHY 1200 100</p> <p>WTAO 1330 1000 C</p> <p>Janesville WCLO 1200 100</p>		

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>PRINCE EDWARD ISLAND</p> <p>Charlottetown</p> <p>CFCY 630 1000 F</p> <p>CHCK 1310 50</p> <p>Summerside</p> <p>CHGS 1450 50 F</p> <p>QUEBEC</p> <p>Chicoutimi</p> <p>CRCS 1120 100 F</p> <p>Hull</p> <p>CKCH 1210 100 F</p> <p>Montreal</p> <p>CBF 910 50000</p> <p>CFCF 600 500 N</p> <p>CHLP 1120 100 F</p> <p>CKAC 730 5000 C</p> <p>CRCM 1050 5000 F</p> <p>New Carlisle</p> <p>CHNC 960 1000 F</p> <p>Quebec</p> <p>CHRC 580 100</p> <p>CKCV 1310 100 F</p> <p>CRCK 950 1000 F</p> <p>Sherbrooke</p> <p>CHLT 1210 100</p> <p>SASKATCHEWAN</p> <p>Moose Jaw</p> <p>CHAB 1200 100 F</p> <p>Prince Albert</p> <p>CKBI 1210 100 F</p> <p>Regina</p> <p>CJRM 540 1000</p> <p>CKCK 1010 1000 F</p> <p>Saskatoon</p> <p>CFQC 840 1000 F</p> <p>Yorkton</p> <p>CJGX 1390 100 F</p> <p>NEWFOUNDLAND</p> <p>St. John's</p> <p>VOAC 1065 40</p> <p>VOAS 940 100</p> <p>VOCM 1006 200</p> <p>VOGY 840 400</p> <p>VONF 1195 500</p> <p>VOWR 681 500</p> <p>MEXICO</p> <p>AGUASCALIENTES</p> <p>Aguascalientes</p> <p>XEBI 1000 25</p> <p>XEXC 810 350</p> <p>BAJA CALIFORNIA</p> <p>Mexicali</p> <p>XEAA 920 200</p> <p>XEAO 660 250</p> <p>Tijuana</p> <p>XEAC 980 250</p> <p>XEBG 820 1000</p> <p>XEC 1150 100</p> <p>XELO 1110 50000</p> <p>XEMO 860 5000</p> <p>XEOK 760 2500</p>	<p>CHIHUAHUA</p> <p>Chihuahua</p> <p>XEFI 1440 250</p> <p>Juarez</p> <p>XEFV 1210 100</p> <p>XEF 1450 100</p> <p>XEJ 1020 1000</p> <p>XEP 1160 500</p> <p>Parral</p> <p>XEAT 1210 250</p> <p>COAHUILA</p> <p>Piedras Negras</p> <p>XEMU 580</p> <p>XEPN 730 100000</p> <p>Sabinas</p> <p>XEBX 640 250</p> <p>Saltillo</p> <p>XEAS 1160 50</p> <p>XELA 1240 50</p> <p>Torreón</p> <p>XETB 1310 125</p> <p>Villa Acuna</p> <p>XERA 840 350000</p> <p>D. F.</p> <p>Atzacapotzalco</p> <p>XEMG 1060 100</p> <p>Gra. Anaya</p> <p>XEDA 1220 200</p> <p>Mexico City</p> <p>XEAL 660 1000</p> <p>XEAY 1240 100</p> <p>XEB 1030 10000</p> <p>XEBZ 1160 100</p> <p>XECW 1310 10</p> <p>XEDP 1080 500</p> <p>XEDF 940 5000</p> <p>XEJP 1130 100</p> <p>XEJW 870</p> <p>XEK 990 100</p> <p>XEL 780 1000</p> <p>XELZ 1370 100</p> <p>XEMX 1280 100</p> <p>XENC 860 50</p> <p>XEW 890 50000</p> <p>XEYO 940 500</p> <p>Tabaca</p> <p>XEFA 1180 500</p> <p>DURANGO</p> <p>Durango</p> <p>XEE 1210 50</p> <p>GUANAJUATO</p> <p>Irapuato</p> <p>XEB0 1280</p> <p>Leon</p> <p>XEKL 1240 500</p> <p>JALISCO</p> <p>Guadalajara</p> <p>XEAD 1060 125</p> <p>XED 1160 2500</p> <p>Guzman</p> <p>XEBA 1080 20</p>	<p>MICHOACAN</p> <p>Morelia</p> <p>XEI 1370 125</p> <p>NUEVO LEON</p> <p>Monterrey</p> <p>XEFB 870 200</p> <p>XEFJ 1230 100</p> <p>XEH 720 250</p> <p>XET 690 5000</p> <p>XEX 1310 125</p> <p>PUEBLA</p> <p>Puebla</p> <p>XETH 1210 100</p> <p>SAN LUIS POTOSI</p> <p>San Luis Potosi</p> <p>XECZ 1370 100</p> <p>XEXH 1250 250</p> <p>SINALOA</p> <p>Mazatlan</p> <p>XEBL 1220 50</p> <p>SONORA</p> <p>Hermosillo</p> <p>XEBH 930 500</p> <p>Nogales</p> <p>XEAF 990 750</p> <p>TAMAULIPAS</p> <p>Matamoros</p> <p>XEAM 750 25</p> <p>Nuevo Laredo</p> <p>XEBK 1000 100</p> <p>XEDF 810 75</p> <p>XEFE 980 150</p> <p>XENT 910 150000</p> <p>Reynosa</p> <p>XEAW 960 50000</p> <p>Tampico</p> <p>XEFW 1310 250</p> <p>XES 990 250</p> <p>VERACRUZ</p> <p>Cordoba</p> <p>XEAG 1310 10</p> <p>Jalapa</p> <p>XEXB 1270 50</p> <p>XEXD 1340 350</p> <p>Minatitlan</p> <p>XEDW 1150 20</p> <p>Veracruz</p> <p>XETF 1220 30</p> <p>XEU 1010 250</p> <p>YUCATAN</p> <p>Merida</p> <p>XEBJ 1160 20</p> <p>XEFC 550 100</p> <p>XEZ 630 500</p> <p>CUBA</p> <p>Caibarien</p> <p>CMHD 1270 250</p>	<p>Camaguey</p> <p>CMJA 1010 300</p> <p>CMJC 1390 150</p> <p>CMJE 1220 50</p> <p>CMJF 1150 200</p> <p>CMJK 788 250</p> <p>CMJL 1340 75</p> <p>CMJX 830 500</p> <p>Cardenas</p> <p>CMGE 1370 150</p> <p>Ciego de Avila</p> <p>CMJH 1360 50</p> <p>CMJI 1130 150</p> <p>CMJO 1180 50</p> <p>Cienfuegos</p> <p>CMHL 1160 175</p> <p>CMHM 1450 100</p> <p>CMHW 820 100</p> <p>CMHX 760 200</p> <p>Cruces</p> <p>CMHK 1330 250</p> <p>Havana</p> <p>CMBC 630</p> <p>CMBD 1170 500</p> <p>CMBG 1140 200</p> <p>CMBS 770 150</p> <p>CMBX 1070 500</p> <p>CMBY 970 150</p> <p>CMC 1000 500</p> <p>CMC 1260 150</p> <p>CMCA 1350 450</p> <p>CMCB 640 150</p> <p>CMCD 950 250</p> <p>CMCF 810 600</p> <p>CMCG 680 1000</p> <p>CMCJ 1100 500</p> <p>CMCM 850</p> <p>CMCO 1200 250</p> <p>CMCQ 1410 250</p> <p>CMCU 1280 500</p> <p>CMCW 750 150</p> <p>CMCX 1030 150</p> <p>CMCY 570 5000</p> <p>CMK 730 3000</p> <p>CMOA 1440 150</p> <p>CMOX 1320 200</p> <p>CMO 880 2500</p> <p>CMW 600 1400</p> <p>CMX 920 1000</p> <p>Holguin</p> <p>CMFK 1460 250</p> <p>CMKO 1280</p> <p>Manzanillo</p> <p>CMKM 1120 200</p> <p>Matanzas</p> <p>CMGC 1400 150</p> <p>CMGF 977 100</p> <p>CMGH 790 500</p> <p>Moron</p> <p>CMJP 1430 75</p> <p>Pinar del Rio</p> <p>CMAB 1340</p> <p>Sagua la Grande</p> <p>CMHA 1070 50</p> <p>Sancti Spiritus</p> <p>CMHB 1240 50</p> <p>Santa Clara</p> <p>CMHI 1210 150</p> <p>Santiago</p> <p>CMKC 1250 150</p> <p>CMKD 1050 250</p> <p>CMKG 1160</p> <p>CMKR 1400 100</p> <p>CMKW 1350</p> <p>CMKX 1190</p>
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NORTH AMERICAN B. C. STATIONS BY CALLS

CMJE 1220	50	KALB 1210	100	KEUB 1420	100
Camaguey, Cuba		Alexandria, La.		Pricer, Utah	
CMJF 1150	200	KALE 1300	500	KEX 1180	5000
Camaguey, Cuba		Portland, Ore.		Portland, Ore.	
CMJH 1360	50	KAND 1310	100	KFAB 770	10000
Ciego de Avila, Cuba		Corsicana, Texas		Lincoln, Neb.	
CMJI 1130	150	KANS 1210	100	KFAC 1300	1000
Ciego de Avila, Cuba		Wichita, Kans.		Los Angeles, Calif.	
CMJK 780	250	KARK 890	500	KFAM 1420	100
Camaguey, Cuba		Little Rock, Ark.		St. Cloud, Minn.	
CMJL 1340	75	KARM 1310	100	KFBB 1280	1000
Camaguey, Cuba		Fresno, Calif.		Great Falls, Mont.	
CMJO 1180	50	KASA 1210	100	KFBI 1050	5000
Ciego de Avila, Cuba		Elk City, Okla.		Ablene, Kans.	
CMJP 1430	75	KAST 1370	100	KFBK 1490	5000
Camaguey, Cuba		Astoria, Ore.		Sacramento, Calif.	
CMJX 830	500	KATE 1420	250	KFDM 560	500
Camaguey, Cuba		Albert Lea, Minn.		Beaumont, Texas	
CMK 730	3000	KAWM 1500	100	KFDY 780	1000
Havana, Cuba		Gallup, N. Mex.		Brookings, S. D.	
CMKC 1250	150	KBIX 1500	100	KFEL 920	500
Santiago, Cuba		Muskogee, Okla.		Denver, Colo.	
CMKD 1050	250	KBPS 1420	100	KFEQ 680	2500
Santiago, Cuba		Portland, Ore.		St. Joseph, Mo.	
CMKF 1460	250	KBST 1500	100	KFGQ 1370	100
Holguin, Cuba		Big Spring, Texas		Boone, Iowa	
CMKG 1160		KBTM 1200	100	KFH 1300	1000
Santiago, Cuba		Jonesboro, Ark.		Wichita, Kans.	
CMKM 1120	200	KCKN 1310	100	KFI 640	50000
Manzanillo, Cuba		Kansas City, Kans.		Los Angeles, Calif.	
CMKO 1280		KCMC 1420	100	KFIO 1120	100
Holguin, Cuba		Texarkana, Texas		Spokane, Wash.	
CMKR 1400	100	KCMO 1370	100	KFIZ 1420	100
Santiago, Cuba		Kansas City, Mo.		Fond du Lac, Wis.	
CMKW 1350		KCRC 1360	250	KFJB 1200	100
Santiago, Cuba		Enid, Okla.		Marshalltown, Iowa	
CMKX 1190		KCRJ 1310	100	KFJI 1210	100
Santiago, Cuba		Jerome, Ariz.		Klamath Falls, Ore.	
CMOA 1440	150	KDAL 1500	100	KFJM 1410	500
Havana, Cuba		Duluth, Minn.		Grand Forks, N. D.	
CMOX 1320	200	KDB 1500	100	KFJZ 1370	100
Havana, Cuba		Santa Barbara, Calif.		Fort Worth, Texas	
CMQ 880	2500	KDFN 1440	500	KFKA 880	500
Havana, Cuba		Casper, Wyo.		Greeley, Colo.	
CMW 600	1400	KDKA 980	50000	KFKU 1220	1000
Havana, Cuba		Pittsburgh, Pa.		Lawrence, Kans.	
CMX 920	1000	KDLR 1210	100	KKNF 890	500
Havana, Cuba		Devils Lake, N. D.		Shenandoah, Iowa	
CRCK 950	1000	KDNC 1200	100	KFOR 1210	100
Quebec, Que.		Lewistown, Mont.		Lincoln, Neb.	
CRCM 1050	5000	KDON 1210	100	KFOX 1250	1000
Montreal, Que.		Monterrey, Calif.		Long Beach, Calif.	
CRCO 880	1000	KDTH 1340	500	KFPL 1310	100
Ottawa, Ont.		Dubuque, Iowa		Dublin, Texas	
CRCS 1120	100	KDYL 1290	1000	KFPW 1210	100
Chicoutimi, Que.		Salt Lake City, Utah		Fort Smith, Ark.	
CRCT 840	5000	KECA 1430	1000	KFPY 890	1000
Toronto, Ont.		Los Angeles, Calif.		Spokane, Wash.	
CRCV 1100	5000	KEEN 1370	100	KFQD 780	250
Vancouver, B. C.		Seattle, Wash.		Anchorage, Alaska	
CRCW 600	500	KEHE 780	1000	KFRC 610	1000
Windsor, Ont.		Los Angeles, Calif.		San Francisco, Calif.	
CRCY 960	100	KELA 1440	500	KFRD 1370	250
Toronto, Ont.		Centralla, Wash.		Longview, Texas	
KABC 1420	100	KELD 1370	100	KFRU 630	500
San Antonio, Texas		El Dorado, Ark.		Columbia, Mo.	
KABR 1420	100	KELO 1200	100	KFSD 600	1000
Aberdeen, S. Dak.		Sioux Falls, S. Dak.		San Diego, Calif.	
KADA 1200	100	KERN 1370	100	KFSG 1120	500
Ada, Okla.		Bakersfield, Calif.		Los Angeles, Calif.	

NORTH AMERICAN B. C. STATIONS BY CALLS

KFUO 550	500	KGHI 1200	100	KIUL 1210	100
St. Louis, Mo		Little Rock, Ark.		Garden City, Kans.	
KFVD 1000	1000	KGHL 780	1000	KIUN 1420	100
Los Angeles, Calif.		Billings, Mont.		Pecos, Texas	
KFVS 1210	100	KGIR 1340	1000	KIUP 1370	100
Cape Girardeau, Mo		Butte, Mont.		Durango, Colo.	
KFWB 95.	1000	KGIW 1420	100	KJBS 1070	500
Hollywood, Calif.		Alamosa, Colo.		San Francisco, Calif.	
KFXD 1200	100	KGKB 1500	100	KJR 970	5000
Nampa, Idaho		Tyler, Texas		Seattle, Wash.	
KFXJ 1200	100	KGKL 1370	100	KLAH 1210	100
Grand Junction, Colo.		San Angelo, Texas		Carlsbad, N. Mex.	
KFXM 1210	100	KGKO 570	250	KLBM 1420	100
San Bernardino, Calif.		Wichita Falls, Texas		La Grande, Ore.	
KFXR 1310	100	KGKY 1500	100	KLCN 1290	100
Oklahoma City, Okla.		Scottsbluff, Neb.		Blytheville, Ark.	
KFYO 1310	100	KGLO 1210	100	KLO 1400	500
Lubbock, Texas		Mason City, Iowa		Ogden, Utah	
KFYR 550	1000	KGMB 1320	1000	KLPM 1240	250
Blamarek, N. D.		Honolulu, T. H.		Minot, N. D.	
KGA 1470	5000	KGNC 1410	1000	KLRA 1390	1000
Spokane, Wash.		Amarillo, Texas		Little Rock, Ark.	
KGAR 1370	100	KGNF 1430	1000	KLS 1280	250
Tucson, Ariz.		North Platte, Neb.		Oakland, Calif.	
KGB 1330	1000	KGNO 1340	250	KLUF 1370	100
San Diego, Calif.		Dodge City, Kans.		Galveston, Texas	
KGBU 900	500	KGO 790	7500	KLX 880	1000
Ketchikan, Alaska		San Francisco, Calif.		Oakland, Calif.	
KGBX 1230	500	KGU 750	2500	KLZ 560	1000
Springfield, Mo.		Honolulu, T. H.		Denver, Colo.	
KGCA 1270	100	KGVL 1200	100	KMA 930	1000
Decorah, Iowa		Greenville, Texas		Shenandoah, Iowa	
KCCU 1240	250	KGVO 1260	1000	KMAC 1370	100
Mandan, N. D.		Missoula, Mont.		San Antonio, Texas	
KGCX 1450	1000	KGW 620	1600	KMBC 950	1000
Wolf Point, Mont.		Portland, Ore.		Kansas City, Mo.	
KGDE 1200	100	KGY 1210	100	KMED 1410	250
Fergus Falls, Minn.		Olympia, Wash.		Medford, Ore.	
KGDM 1100	1000	KHBC 1400	250	KMJ 580	1000
Stockton, Calif.		Hilo, T. H.		Fresno, Calif.	
KGDY 1340	250	KHBG 1210	100	KMLB 1200	100
Huron, S. D.		Okmulgee, Okla.		Monroe, La.	
KGEK 1200	100	KHJ 900	1000	KMMMJ 740	1000
Sterling, Colo.		Los Angeles, Calif.		Clay Center, Neb.	
KGER 1360	1000	KHQ 590	1000	KMO 1330	1000
Long Beach, Calif.		Spokane, Wash.		Tacoma, Wash.	
KGEZ 1310	100	KHSL 1260	250	KMOX 1090	50000
Kalspell, Mont.		Chico, Calif.		St. Louis, Mo.	
KGFF 1420	100	KHUB 1310	250	KMPC 710	500
Shawnee, Okla.		Watsonville, Calif.		Beverly Hills, Calif.	
KGFI 1500	100	KICA 1370	100	KMTR 570	1000
Corpus Christi, Tex.		Clovis, N. M.		Los Angeles, Calif.	
KGfJ 1200	100	KID 1320	500	KNEL 1500	250
Los Angeles, Calif.		Idaho Falls, Idaho		Brady, Texas	
KGFL 1370	100	KIDO 1350	1000	KNET 1420	100
Roswell, N. M.		Boise, Idaho		Palestine, Texas	
KGFW 1310	100	KIDW 1420	100	KNOW 1500	100
Nearney, Neb.		Lamar, Colo.		Austin, Texas	
KGFX 630	200	KIEM 1450	500	KNX 1050	50000
Pierre, S. D.		Eureka, Calif.		Los Angeles, Calif.	
KGGC 1420	100	KIEV 850	250	KOA 830	50000
San Francisco, Calif.		Glendale, Calif.		Denver, Colo.	
KGGF 1010	1000	KINY 1310	100	KOAC 550	1000
Coffeyville, Kans.		Juneau, Alaska		Corvallis, Ore.	
KGGM 1230	1000	KIRO 710	1000	KOAM 790	1000
Albuquerque, N. M.		Seattle, Wash.		Pittsburg, Kans.	
KGHF 1320	500	KIT 1310	100	KOB 1180	10000
Pueblo, Colo.		Yakima, Wash.		Albuquerque, N. M.	

NORTH AMERICAN B. C. STATIONS BY CALLS

KOBH 1370 Rapid City, S. Dak.	100	KRLC 1390 Lewiston, Idaho	250	KTKC 1190 Visalia, Calif.	250
KOCA 1210 Kilgore, Texas	100	KRLD 1040 Dallas, Texas	10000	KTMS 1220 Santa Barbara, Calif.	500
KOH 1380 Reno, Nev.	500	KRLH 1420 Midland, Texas	100	KTOK 1370 Oklahoma City, Okla.	100
KOIL 1260 Omaha, Neb.	1000	KRMC 1370 Jamestown, N. Dak.	100	KTRB 740 Modesto, Calif.	250
KOIN 940 Portland, Ore.	1000	KRMD 1310 Shreveport, La.	100	KTRH 1290 Houston, Texas	1000
KOKO 1370 La Junta, Colo.	100	KRRR 1500 Roseburg, Ore.	100	KTRI 1420 Sioux City, Iowa	100
KOL 1270 Seattle, Wash.	1000	KRNT 1320 Des Moines, Iowa	1000	KTSA 550 San Antonio, Texas	1000
KOMA 1480 Oklahoma City, Okla.	5000	KROC 1310 Rochester, Minn.	100	KTSM 1310 El Paso, Texas	100
KOMO 920 Seattle, Wash.	1000	KROD 1500 El Paso, Texas	100	KTUL 1400 Tulsa, Okla.	500
KONO 1370 San Antonio, Texas	100	KROW 930 Oakland, Calif.	1000	KTW 1220 Seattle, Wash.	1000
KOOS 1200 Marshfield, Ore.	100	KROY 1210 Sacramento, Calif.	100	KUJ 1370 Walla Walla, Wash.	100
KORE 1420 Eugene, Ore.	100	KRQA 1310 Santa Fe, N. Mex.	100	KUMA 1420 Yuma, Ariz.	100
KOTN 1500 Pine Bluff, Ark.	100	KRRV 1310 Sherman, Texas	250	KUOA 1260 Siloam Springs, Ark.	5000
KOVC 1500 Valley City, N. Dak.	100	KRSC 1120 Seattle, Wash.	250	KUSD 890 Vermillion, S. Dak.	500
KOY 1390 Phoenix, Ariz.	1000	KSAC 580 Manhattan, Kans.	500	KUTA 1500 Salt Lake City, Utah	100
KPAC 1260 Port Arthur, Texas	500	KSAL 1500 Salina, Kans.	100	KVCV 1200 Redding, Calif.	100
KPDN 1310 Pampa, Texas	100	KSCJ 1330 Sioux City, Iowa	1000	KVEC 1200 San Luis Obispo, Cal.	250
KPFA 1210 Helena, Mont.	100	KSD 550 St. Louis, Mo.	1000	KVGB 1370 Great Bend, Kans.	100
KPLC 1500 Lake Charles, La.	100	KSEI 900 Pocatello, Idaho	250	KVI 570 Tacoma, Wash.	1000
KPLT 1500 Paris, Texas	100	KSFO 560 San Francisco, Calif.	1000	KVOA 1260 Tucson, Ariz.	1000
KPMC 1550 Bakersfield, Calif.	1000	KSL 1130 Salt Lake City, Utah	50000	KVOD 920 Denver, Colo.	500
KPO 680 San Francisco, Calif.	50000	KSLM 1370 Salem, Ore.	100	KVOE 1500 Santa Ana, Calif.	100
KPOF 880 Denver, Colo.	500	KSO 1430 Des Moines, Iowa	500	KVOL 1310 Lafayette, La.	100
KPPC 1210 Pasadena, Calif.	100	KSOO 1110 Sioux Falls, S. Dak.	2500	KVOO 1140 Tulsa, Okla.	25000
KPPQ 1500 Wenatchee, Wash.	100	KSRO 1310 Santa Rosa, Calif.	250	KVOR 1270 Colorado Springs, Colo.	1000
KPRC 920 Houston, Texas	1000	KSTP 1460 St. Paul, Minn.	10000	KVOS 1200 Bellingham, Wash.	100
KQV 1380 Pittsburgh, Pa.	500	KSUB 1310 Cedar City, Utah	100	KVOX 1310 Moorhead, Minn.	100
KQW 1010 San Jose, Calif.	1000	KSUN 1200 Lowell, Ariz.	100	KVSO 1210 Armore, Okla.	100
KRBA 1310 Lufkin, Texas	100	KTAR 620 Phoenix, Ariz.	1060	KWBG 1420 Hutchinson, Kans.	100
KRBC 1420 Abilene, Texas	100	KTAT 1240 Fort Worth, Texas	1000	KWG 1200 Stockton, Calif.	100
KRE 1370 Berkeley, Calif.	100	KTBC 1120 Austin, Texas	1000	KWJJ 1040 Portland, Ore.	500
KRGV 1260 Weslaco, Texas	1000	KTBS 1450 Shreveport, La.	1000	KWK 1350 St. Louis, Mo.	1000
KRIS 1330 Corpus Christi, Tex.	500	KTEM 1370 Tempe, Texas	250	KWKH 1100 Shreveport, La.	10000
KRKD 1120 Los Angeles, Calif.	500	KTFI 1240 Twin Falls, Idaho	1000	KWLC 1270 Deerwah, Iowa	100
KRKO 1370 Everett, Wash.	50	KTHS 1060 Hot Springs, Ark.	10000	KWNO 1200 Winona, Minn.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

KWOS 1310 100	Jefferson City, Mo.	WAIR 1250 250	Winston-Salem, N. C.	WBOQ 860 50000	New York, N. Y.
KWSC 1220 1000	Pullman, Wash.	WALA 1380 500	Mobile, Ala.	WBOW 1310 100	Terre Haute, Ind.
KWTN 1210 100	Watertown, S. Dak.	WALR 1210 100	Zanesville, Ohio	WBRB 1210 100	Red Bank, N. J.
KWTO 560 5000	Springfield, Mo.	WAML 1310 100	Laurel, Miss.	WBRC 930 1000	Birmingham, Ala.
KWYO 1370 100	Sheridan, Wyo.	WAPI 1140 5000	Birmingham, Ala.	WBRE 1310 100	Wilkes-Barre, Pa.
KXA 768 250	Seattle, Wash.	WAPO 1420 100	Chattanooga, Tenn.	WBRK 1310 100	Pittsfield, Mass.
KXBY 1530 1000	Kansas City, Mo.	WASH 1270 500	Grand Rapids, Mich.	WBRY 1530 1000	Waterbury, Conn.
KXL 1420 100	Portland, Ore.	WATL 1370 100	Atlanta, Ga.	WBT 1080 50000	Charlotte, N. C.
KXO 1500 100	El Centro, Calif.	WATR 1190 100	Waterbury, Conn.	WBTM 1370 100	Danville, Va.
KXRO 1310 100	Aberdeen, Wash.	WAVE 940 1000	Louisville, Ky.	WBZ 390 50000	Boston, Mass.
KXYZ 1440 1000	Houston, Texas	WAWZ 1350 500	Zarephath, N. J.	WBZA 990 1000	Springfield, Mass.
KYA 1230 1000	San Francisco, Calif.	WAYX 1200 100	Waycross, Ga.	WCAD 1220 500	Canton, N. Y.
KYOS 1040 250	Mered, Calif.	WAZL 1420 100	Hazleton, Pa.	WCAE 1220 1000	Pittsburgh, Pa.
KYW 1020 10000	Philadelphia, Pa.	WBAA 890 500	West Lafayette, Ind.	WCAL 1250 1000	Northfield, Minn.
VAS 685 2000	Glace Bay, N. S.	WBAL 760 2500	Baltimore, Md.	WCAM 1280 500	Camden, N. J.
VOAC 1065 40	St. John's, Nfld.	WBAL 1060 10000	Baltimore, Md.	WCAO 600 500	Baltimore, Md.
VOAS 940 100	St. John's, Nfld.	WBAP 800 50000	Fort Worth, Texas	WCAP 1280 500	Asbury Park, N. J.
VOCM 1006 200	St. John's, Nfld.	WBAX 1210 100	Wilkes-Barre, Pa.	WCAT 1200 100	Rapid City, S. Dak.
VOGY 840 400	St. John's, Nfld.	WBBC 1400 500	Brooklyn, N. Y.	WCAU 1170 50000	Philadelphia, Pa.
VONF 1195 500	St. John's, Nfld.	WBBL 1210 100	Richmond, Va.	WCAX 1200 100	Burlington, Vt.
VOWR 681 500	St. John's, Nfld.	WBMM 770 50000	Chicago, Ill.	WCAZ 1070 100	Carthage, Ill.
WAAB 1410 500	Boston, Mass.	WBBR 1300 1000	Brooklyn, N. Y.	WCBA 1440 500	Allentown, Pa.
WAAF 920 1000	Chicago, Ill.	WBBZ 1200 100	Ponca City, Okla.	WCBD 1080 5000	Chicago, Ill.
WAAT 940 500	Jersey City, N. J.	WBCM 1410 500	Bay City, Mich.	WCBM 1370 100	Baltimore, Md.
WAAW 660 500	Omaha, Neb.	WBEN 900 1000	Buffalo, N. Y.	WCBS 1420 100	Springfield, Ill.
WABC 860 50000	New York, N. Y.	WBEO 1310 100	Marquette, Mich.	WCCO 810 50000	Minneapolis, Minn.
WABI 1200 100	Bangor, Maine	WBHP 1200 100	Huntsville, Ala.	WCFL 970 5000	Chicago, Ill.
WABY 1370 100	Albany, N. Y.	WBIG 1440 1000	Greensboro, N. C.	WCFS 580 500	Charleston, W. Va.
WACO 1420 100	Waco, Texas	WBIL 1100 5000	New York, N. Y.	WCHV 1420 100	Charlottesville, Va.
WADC 1320 1000	Akron, Ohio	WBLK 1370 100	Clarksburg, W. Va.	WCKY 1490 10000	Covington, Ky.
WAGA 1450 500	Atlanta, Ga.	WBLE 1210 100	Lima, Ohio	WCLE 610 500	Cleveland, Ohio
WAGF 1370 250	Dothan, Ala.	WBNO 1200 100	New Orleans, La.	WCLO 1200 100	Janesville, Wis.
WAGM 1420 100	Presque Isle, Me.	WBNS 1430 500	Columbus, Ohio	WCLS 1310 100	Joliet, Ill.
WAIM 1200 100	Anderson, S. C.	WBNX 1350 1000	New York, N. Y.	WCMI 1310 100	Ashland, Ky.
		WBNY 1370 100	Buffalo, N. Y.	WCNW 1500 100	Brooklyn, N. Y.

NORTH AMERICAN B. C. STATIONS BY CALLS

WCOA 1340	500	WEEU 830	1000	WGCM 1210	100
Pensacola, Fla.		Reading, Pa.		Gulfport, Miss.	
WCOC 880	500	WELI 900	500	WGES 1360	500
Meridian, Miss.		New Haven, Conn.		Chicago, Ill.	
WCOL 1210	100	WELL 1420	100	WGH 1310	100
Columbus, Ohio		Battle Creek, Mich.		Newport News, Va.	
WCOP 1120	500	WEMP 1310	100	WGL 1370	100
Boston, Mass.		Milwaukee, Wis.		Fort Wayne, Ind.	
WCPO 1200	100	WENR 870	50000	WGN 720	50000
Cincinnati, Ohio		Chicago, Ill.		Chicago, Ill.	
WCRW 1210	100	WEOA 1370	100	WGNV 1210	100
Chicago, Ill.		Evansville, Ind.		Newburgh, N. Y.	
WCSC 1360	500	WESG 850	1000	WGPC 1420	100
Charleston, S. C.		Elmira, N. Y.		Albany, Ga.	
WCSH 940	1000	WEST 1200	100	WGR 550	1000
Portland, Me.		Easton, Pa.		Buffalo, N. Y.	
WDAE 1220	1000	WEVD 1300	1000	WGRC 1370	250
Tampa, Fla.		New York, N. Y.		New Albany, Ind.	
WDAF 610	1000	WEW 760	1000	WGST 890	1000
Kansas City, Mo.		St. Louis, Mo.		Atlanta, Ga.	
WDAH 1310	100	WEXL 1310	50	WGTM 1310	160
El Paso, Texas		Royal Oak, Mich.		Wilson, N. C.	
WDAS 1370	100	WFAA 800	50000	WGVA 1050	1000
Philadelphia, Pa.		Dallas, Texas		Indianapolis, Ind.	
WDAY 940	1000	WFAB 1300	1000	WGY 790	50000
Fargo, N. Dak.		New York, N. Y.		Schenectady, N. Y.	
WDBJ 930	1000	WFAM 1200	100	WHA 940	5000
Roanoke, Va.		South Bend, Ind.		Madison, Wis.	
WDBO 580	1000	WFAS 1210	100	WHAL 950	500
Orlando, Fla.		White Plains, N. Y.		Saginaw, Mich.	
WDEL 1120	250	WFBC 1300	1000	WHAM 1150	50000
Wilmington, Del.		Greenville, S. C.		Rochester, N. Y.	
WDEV 550	500	WFBG 1310	100	WHAS 820	50000
Waterbury, Vt.		Altoona, Pa.		Louisville, Ky.	
WDGY 1180	1000	WFBL 1360	1000	WHAT 1310	100
Minneapolis, Minn.		Syracuse, N. Y.		Philadelphia, Pa.	
WDNC 1500	100	WFBM 1230	1000	WHAZ 1300	1000
Durham, N. C.		Indianapolis, Ind.		Troy, N. Y.	
WDOD 1280	1000	WFEP 1270	500	WHB 860	1000
Chattanooga, Tenn.		Baltimore, Md.		Kansas City, Mo.	
WDRC 1330	1000	WFDF 1310	100	WHBB 1500	100
Hartford, Conn.		Flint, Mich.		Selma, Ala.	
WDSM 1200	100	WFEA 1340	500	WHBC 1200	100
Superior, Wis.		Manchester, N. H.		Canton, Ohio	
WDSU 1250	1000	WFIL 560	1000	WHBF 1210	100
New Orleans, La.		Philadelphia, Pa.		Rock Island, Ill.	
WDWS 1370	100	WFLA 620	1000	WHBI 1250	1000
Champaign, Ill.		Clearwater, Fla.		Newark, N. J.	
WDZ 1020	250	WFMD 900	500	WHBL 1300	250
Tuscola, Ill.		Frederick, Md.		Sheboygan, Wis.	
WEAF 660	50000	WFOR 1370	100	WHBQ 1370	100
New York, N. Y.		Hattiesburg, Miss.		Memphis, Tenn.	
WEAN 780	1000	WFOY 1210	100	WHBU 1210	100
Providence, R. I.		St. Augustine, Fla.		Anderson, Ind.	
WEAU 1050	1000	WFTC 1200	100	WHBY 1200	100
Eau Claire, Wis.		Kinston, N. C.		Green Bay, Wis.	
WIBC 1290	1000	WGAL 1500	100	WHDF 1370	100
Duluth, Minn.		Lancaster, Pa.		Calumet, Mich.	
WIBQ 1210	100	WGAN 640	500	WHDH 830	1000
Harrisburg, Ill.		Portland, Me.		Boston, Mass.	
WIBR 1310	100	WGAR 1450	500	WHDL 1400	250
Buffalo, N. Y.		Cleveland, Ohio		Olean, N. Y.	
WIBC 1210	100	WGBB 1210	100	WHBB 740	250
Chicago, Ill.		Freeport, N. Y.		Portsmouth, N. H.	
WIED 1420	100	WGBF 630	500	WHCC 1430	500
Rocky Mount, N. C.		Evansville, Ind.		Rochester, N. Y.	
WEEI 590	1000	WGBI 880	500	WHEF 1500	100
Boston, Mass.		Seranton, Pa.		Kosciusko, Miss.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WHFC 1420 Cicero, Ill.	100	WJAX 900 Jacksonville, Fla.	1000	WKZO 590 Kalamazoo, Mich.	1000
WHIO 1260 Dayton, Ohio	1000	WJBC 1200 Bloomington, Ill.	100	WLAC 1470 Nashville, Tenn.	5000
WHIP 1480 Hammond, Ind.	5000	WJBK 1500 Detroit, Mich.	100	WLAK 1310 Lakeland, Fla.	100
WHIS 1410 Bluefield, W. Va.	500	WJBL 1200 Decatur, Ill.	100	WLAP 1420 Lexington, Ky.	100
WHJB 620 Greensburg, Pa.	250	WJBO 1120 Baton Rouge, La.	500	WLAW 680 Lawrence, Mass.	1000
WHK 1390 Cleveland, Ohio	1000	WJBR 1420 Gastonia, N. C.	100	WLB 1250 Minneapolis, Minn.	1000
WHKC 640 Columbus, Ohio	500	WJBW 1200 New Orleans, La.	100	WLBC 1310 Muncie, Ind.	100
WHLB 1370 Virginia, Minn.	100	WJBY 1210 Gadsden, Ala.	100	WLBL 900 Stevens Point, Wis.	5000
WHN 1010 New York, N. Y.	1000	WJDX 1270 Jackson, Miss.	1000	WLZ 620 Bangor, Me.	500
WHO 1000 Des Moines, Iowa	50000	WJEJ 1210 Hagerstown, Md.	100	WLEU 1420 Erie, Pa.	100
WHOM 1450 Jersey City, N. J.	250	WJIM 1210 Lansing, Mich.	100	WLLH 1370 Lowell, Mass.	100
WHP 1430 Harrisburg, Pa.	500	WJJD 1130 Chicago, Ill.	20000	WLMU 1210 Middlesboro, Ky.	100
WIBA 1280 Madison, Wis.	1000	WJMS 1420 Ironwood, Mich.	100	WLNH 1310 Laconia, N. H.	100
WIBG 970 Glenside, Pa.	100	WJNO 1200 W. Palm Beach, Fla.	100	WLS 870 Chicago, Ill.	50000
WIBM 1370 Jackson, Mich.	100	WJR 750 Detroit, Mich.	50000	WLVA 1200 Lynchburg, Va.	100
WIBU 1210 Poynette, Wis.	100	WJRD 1200 Tuscaloosa, Ala.	100	WLW 700 Cincinnati, Ohio	500000
WIBW 580 Topeka, Kans.	1000	WJSV 1460 Washington, D. C.	10000	WMAL 630 Washington, D. C.	250
WIBX 1200 Utica, N. Y.	100	WJTN 1210 Jamestown, N. Y.	100	WMAQ 670 Chicago, Ill.	50000
WICA 940 Ashtabula, Ohio	250	WJW 1210 Akron, Ohio	100	WMAS 1420 Springfield, Mass.	100
WICC 600 Bridgeport, Conn.	500	WJZ 760 New York, N. Y.	50000	WMAZ 1180 Macon, Ga.	1000
WIL 1200 St. Louis, Mo.	100	WKAQ 1240 San Juan, P. R.	1000	WMBC 1420 Detroit, Mich.	100
WILL 580 Urbana, Ill.	1000	WKAR 850 East Lansing, Mich.	1000	WMBD 1440 Peoria, Ill.	500
WILM 1420 Wilmington, Del.	100	WKAT 1500 Miami Beach, Fla.	100	WMBG 1350 Richmond, Va.	500
WIND 560 Gary, Ind.	1000	WKBB 1500 East Dubuque, Ill.	100	WMBH 1420 Joplin, Mo.	100
WINS 1180 New York, N. Y.	1000	WKBH 1380 LaCrosse, Wis.	1000	WMBI 1080 Chicago, Ill.	5000
WIOD 1300 Miami, Fla.	1000	WKBN 570 Youngstown, Ohio	500	WMO 1310 Auburn, N. Y.	100
WIP 610 Philadelphia, Pa.	1000	WKBO 1200 Harrisburg, Pa.	100	WMBQ 1500 Brooklyn, N. Y.	100
WIRE 1400 Indianapolis, Ind.	1000	WKBV 1500 Richmond, Ind.	100	WMBR 1370 Jacksonville, Fla.	100
WIS 560 Columbia, S. C.	1000	WKBW 1480 Buffalo, N. Y.	5000	WMS 1420 Uniontown, Pa.	250
WISN 1120 Milwaukee, Wis.	250	WKBZ 1500 Muskegon, Mich.	100	WMC 780 Memphis, Tenn.	1000
WJAC 1310 Johnstown, Pa.	100	WKEU 1500 Griffin, Ga.	100	WMCA 570 New York, N. Y.	1000
WJAG 1060 Norfolk, Neb.	1000	WKOK 1210 Sunbury, Pa.	100	WMEX 1500 Boston, Mass.	100
WJAR 890 Providence, R. I.	1000	WKRC 550 Cincinnati, Ohio	1000	WMFD 1370 Wilmington, N. C.	100
WJAS 1290 Pittsburgh, Pa.	1000	WKY 900 Oklahoma City, Okla.	1000	WMFF 1310 Plattsburg, N. Y.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

WMFG 1210 Hibbing, Minn.	100	WORC 1280 Worcester, Mass.	500	WRR 1280 Dallas, Texas	500
WMFJ 1420 Daytona Beach, Fla.	100	WORK 1320 York, Pa.	1000	WRTD 1500 Richmond, Va.	100
WMFN 1210 Grenada, Miss.	100	WORL 920 Boston, Mass.	500	WRUF 830 Gainesville, Fla.	5000
WMFO 1370 Decatur, Ala.	100	WOSU 570 Columbus, Ohio	750	WRVA 1110 Richmond, Va.	5000
WMFR 1200 High Point, N. C.	100	WOV 1130 New York, N. Y.	1000	WSAI 1330 Cincinnati, Ohio	1000
WMIN 1370 St. Paul, Minn.	100	WOW 590 Omaha, Neb.	1000	WSAJ 1310 Grove City, Pa.	100
WMMN 890 Fairmont, W. Va.	500	WOWO 1160 Fort Wayne, Ind.	10000	WSAL 1200 Salisbury, Md.	250
WMPC 1200 Lapeer, Mich.	100	WPAD 1420 Paducah, Ky.	100	WSAN 1440 Allentown, Pa.	500
WMPS 1430 Memphis, Tenn.	500	WPAR 1420 Parkersburg, W. Va.	100	WSAR 1450 Fall River, Mass.	1000
WMSD 1420 Sheffield, Ala.	100	WPAX 1210 Thomasville, Ga.	100	WSAU 1370 Wausau, Wis.	100
WMT 600 Cedar Rapids, Iowa	1000	WPAY 1370 Portsmouth, Ohio	100	WSAY 1210 Rochester, N. Y.	100
WNAC 1230 Boston, Mass.	1000	WPEN 920 Philadelphia, Pa.	1000	WSAZ 1190 Huntington, W. Va.	1000
WNAD 1010 Norman, Okla.	1000	WPG 1100 Atlantic City, N. J.	5000	WSB 740 Atlanta, Ga.	50000
WNAX 570 Yankton, S. D.	1000	WPRA 1370 Mayaguez, P. R.	100	WSBC 1210 Chicago, Ill.	100
WNBC 1380 New Britain, Conn.	250	WPRO 630 Providence, R. I.	500	WSBT 1360 South Bend, Ind.	500
WNBH 1310 New Bedford, Mass.	100	WPRP 1420 Ponce, P. R.	100	WSFA 1410 Montgomery, Ala.	500
WNBX 1260 Springfield, Vt.	1000	WPTF 680 Raleigh, N. C.	1000	WSGN 1310 Birmingham, Ala.	100
WNBZ 1290 Saranac Lake, N. Y.	100	WQAM 560 Miami, Fla.	1000	WSIX 1210 Nashville, Tenn.	100
WNEL 1290 San Juan, P. R.	1000	WQAN 880 Scranton, Pa.	500	WSJS 1310 Winston-Salem, N. C.	100
WNEW 1250 New York, N. Y.	1000	WQBC 1360 Vicksburg, Miss.	1000	WSM 650 Nashville, Tenn.	50000
WNLC 1500 New London, Conn.	100	WQDM 1390 St. Albans, Vt.	1000	WSMB 1320 New Orleans, La.	1000
WNNY 1420 Watertown, N. Y.	100	WQXR 1550 New York, N. Y.	1000	WSMK 1380 Dayton, Ohio	200
WNOX 1010 Knoxville, Tenn.	1000	WRAC 1370 Williamsport, Pa.	100	WSNJ 1210 Bridgeton, N. J.	100
WNYC 810 New York, N. Y.	1000	WRAP 1310 Reading, Pa.	100	WSOC 1210 Charlotte, N. C.	100
WOAI 1190 San Antonio, Texas	50000	WRAX 920 Philadelphia, Pa.	1000	WSPA 920 Spartanburg, S. C.	1000
WOC 1370 Davenport, Iowa	100	WRBL 1200 Columbus, Ga.	100	WSPD 1340 Toledo, Ohio	1000
WOI 640 Ames, Iowa	5000	WRC 950 Washington, D. C.	500	WSPR 1140 Springfield, Mass.	500
WOKO 1430 Albany, N. Y.	500	WRDO 1370 Augusta, Me.	100	WSUI 880 Iowa City, Iowa	500
WOL 1310 Washington, D. C.	100	WRDW 1500 Augusta, Ga.	100	WSUN 620 St. Petersburg, Fla.	1000
WOLS 1200 Florence, S. C.	100	WREC 600 Memphis, Tenn.	1000	WSVA 550 Harrisonburg, Va.	500
WOMI 1500 Owensboro, Ky.	100	WREN 1220 Lawrence, Kans.	1000	WSVS 1370 Buffalo, N. Y.	50
WOMT 1210 Manitowoc, Wis.	100	WRGA 1500 Rome, Ga.	100	WSYR 1500 Rutland, Vt.	100
WOOD 1270 Grand Rapids, Mich.	500	WRJN 1370 Racine, Wis.	100	WSYR 570 Syracuse, N. Y.	1000
WOPI 1500 Bristol, Tenn.	100	WRNL 880 Richmond, Va.	500	WTAD 900 Quincy, Ill.	1000
WOR 710 Newark, N. J.	50000	WROK 1410 Rockford, Ill.	500	WTAG 580 Worcester, Mass.	1000
		WROL 1310 Knoxville, Tenn.	100		

NORTH AMERICAN B. C. STATIONS BY CALLS

WTAL 1310	100	XEAO 660	250	XEH 720	250
Tallahassee, Fla.		Mexicali, B. C.		Monterrey, N. L.	
WTAM 1070	50000	XEAS 1160	50	XEI 1370	125
Cleveland, Ohio		Saltillo, Coah.		Morélia, Mich.	
WTAQ 1330	1000	XEAT 1210	250	XEJ 1020	1000
Green Bay, Wis.		Parrai, Chih.		Juarez, Chih.	
WTAR 780	1000	XEAW 960	50000	XEJP 1150	100
Norfolk, Va.		Reynosa, Tams.		Mexico City, D. F.	
WTAW 1120	500	XEAY 1240	100	XEJW 870	.....
College Station, Tex.		Mexico City, D. F.		Mexico City, D. F.	
WTAX 1210	100	XEB 1030	10000	XEK 990	100
Springfield, Ill.		Mexico City, D. F.		Mexico City, D. F.	
WTBO 800	250	XEBA 1080	20	XEKL 1240	500
Cumberland, Md.		Guzman, Jal.		Leon, Guan.	
WTCN 1250	1000	XEBG 820	1000	XEL 780	1000
Minneapolis, Minn.		Tijuana, B. Cta.		Mexico City, D. F.	
WTEL 1310	100	XEBH 930	500	XELA 1240	50
Philadelphia, Pa.		Hermosillo, Sonora		Saltillo, Coah.	
WTHT 1200	100	XEBI 1000	25	XELO 1110	50000
Hartford, Conn.		Aguascalientes, Ags.		Tijuana, B. Cta.	
WTIC 1040	50000	XEBJ 1160	20	XELZ 1370	100
Hartford, Conn.		Merida, Yuc.		Mexico City, D. F.	
WTJS 1310	100	XEBK 1000	100	XEMG 1060	100
Jackson, Tenn.		Neuvo Laredo, Tams.		Atzacotzaleco, D. F.	
WTMJ 620	1000	XEBL 1220	50	XEMO 860	5000
Milwaukee, Wis.		Mazatlan, Sin.		Tijuana, L. C.	
WTMV 1500	100	XEBO 1280	.....	XEMU 580	.....
East St. Louis, Ill.		Irapuato, Guan.		Piedras Negras, Coah.	
WTNJ 1280	500	XEBX 640	250	XEMX 1280	100
Trenton, N. J.		Sabinas, Coah.		Mexico City, D. F.	
WTOC 1260	1000	XEBZ 1160	100	XENC 860	50
Savannah, Ga.		Mexico City, D. F.		Mexico City, D. F.	
WTOL 1200	100	XEC 1150	100	XENT 910	150000
Toledo, Ohio		Tijuana, L. C.		Neuvo Laredo, Tams.	
WTRC 1310	100	XECW 1310	10	XEOK 760	2500
Elkhart, Ind.		Mexico City, D. F.		Tijuana, L. C.	
WVFW 1400	500	XECZ 1370	100	XEP 1160	500
Brooklyn, N. Y.		San Luis Potosí, S.L.P.		Juarez, Chih.	
WWAE 1200	100	XED 1160	2500	XEPN 730	100000
Hammond, Ind.		Guadalajara, Jal.		Piedras Negras, Coah.	
WWJ 920	5000	XEDA 1220	200	XERA 840	350000
Detroit, Mich.		Gra. Anaya, D. F.		Villa Acuna, Coah.	
WWL 850	10000	XEDF 810	75	XES 990	250
New Orleans, La.		Neuvo Laredo, Tams.		Tampico, Tams.	
WWNC 570	1000	XEDP 1080	500	XET 690	5000
Asheville, N. C.		Mexico City, D. F.		Monterrey, N. L.	
WWRL 1500	100	XEDW 1150	20	XETB 1310	125
Woodside, N. Y.		Minatitlan, Ver.		Torreón, Coah.	
WWSW 1500	100	XEE 1210	50	XETF 1220	30
Pittsburgh, Pa.		Durango, Dgo.		Veraacruz, Ver.	
WWVA 1160	5000	XEF 1450	100	XETH 1210	100
Wheeling, W. Va.		Juarez, Chih.		Puebla, Pue.	
WXYZ 1240	1000	XEFA 1180	500	XEU 1010	250
Detroit, Mich.		Tacuba, D. F.		Veraacruz, Ver.	
W3XJ 1060	100	XEFB 870	200	XEW 890	50000
College Park, Md.		Monterrey, N. L.		Mexico City, D. F.	
W8XO 700	500000	XEFC 550	100	XEX 1310	125
Cincinnati, Ohio		Merida, Yuc.		Monterrey, N. L.	
XEAA 920	200	XEFE 980	150	XEXB 1270	50
Mexicali, B. C.		Laredo, Tams.		Jalapa, Ver.	
XEAC 980	250	XEFI 1440	250	XEXC 810	350
Tijuana, L. C.		Chihuahua, Chih.		Aguascalientes, Ags.	
XEAD 1060	125	XEFJ 1230	100	XEXD 1340	350
Guadalajara, Jal.		Monterrey, N. L.		Jalapa, Ver.	
XEAF 990	750	XEFO 940	5000	XEXH 1250	250
Nogales, Son.		Mexico City, D. F.		San Luis Potosí, S.L.P.	
XEAG 1310	10	XEFV 1210	100	XEXS 1000	100
Cordoba, Ver.		Juarez, Chih.		Portable in Mexico	
XEAL 660	1000	XEFW 1310	250	XEYO 940	500
Mexico City, D. F.		Tampico, Tams.		Mexico City, D. F.	
XEAM 750	25			XEZ 630	500
Matamoros, Tams.				Merida, Yuc.	

A LARGE number of changes are taking place in Australia at this time. The most recent alterations are covered in the paragraphs following.

In Katoomba, N.S.W., 2KA has a new 2000 watt transmitter under construction, which should be on the air before the end of the year. It is believed this station will also change frequency.

A new station in Singleton, N.S.W., 2HR, is now testing on 680 kcs. The power is not known but it seems to be about 2 kilowatts, although a Japanese station on the same frequency overwhelms him at times.

Station 6GN in Geraldton, W. A., is now on the air. 5AN at Adelaide has also commenced transmitting on 890 kcs with 500 watts.

The Ayr station, 4AY, 860 kcs, announces now that they use 2 kilowatts. 2MW in Murwillumbah, N.S.W. is almost completed and may be on the air, on 860 kcs, by the time this appears in print. It has been heard testing on 1470, and perhaps it will remain on this latter frequency.

2BE in Bega, N.S.W., is ready to go on the air on 1490 kcs with 100 watts.

4SB, to relay 4BC at Brisbane, has been assigned to 1060 kcs. To make room for this 2 kw station, 4MB in Maryborough, Qsld., has already shifted to 1400 kcs.

A station somewhere in New South Wales, call letters 2XL, is testing on 880 kcs, but it is not well received. The location is not known.

New Zealand Alterations

In Invercargill station 4ZP has a new high fidelity transmitter working on 620 kcs. with 100 watts.

Work on new transmitter buildings and studios for 3ZB Christchurch and 4ZB Dunedin has commenced. It is understood the transmitters are to be 1000 watt Collins.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC.

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

Of Radio Index, published monthly except July and August, at Cleveland, Ohio, for Oct. 1, 1937.

State of Ohio, County of Cuyahoga, ss.:

Before me, a Notary Public in and for the State and county aforesaid, personally appeared Elizabeth S. Butler, who, having been duly sworn according to law, deposes and says that she is the publisher of the RADIO INDEX, and that the following is, to the best of her knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, Elizabeth S. Butler, 14717 Detroit Ave., Cleveland, Ohio; Editor, Page Taylor, 14717 Detroit Ave., Cleveland, Ohio; Managing Editor, None; Business Managers, None.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock; If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well of those of each individual member, must be given.) Elizabeth S. Butler, d. b. a. The Radex Press, 14717 Detroit Ave., Cleveland, Ohio.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the twelve months preceding the date shown above is (This information is required from daily publications only.)

Elizabeth S. Butler, Publisher.

Sworn to and subscribed before me this 23rd day of September, 1937.

[Seal.]

R. C. Elmer.

(My commission expires May 24, 1940.)

At DEADLINE . . .

A Johannesburg, South Africa station was heard on 9625 kcs between 11:45 pm and 12:40 am, EST. The signal was very good and this station should be widely heard throughout the eastern states at least. It is owned by the South African Broadcasting Co., P. O. Box 4094, Johannesburg. It was announced that they also transmit on 7625 and 6069 kcs.

The McGregor Expedition in Greenland has been heard through station OX2QY, on the high end of the 20-meter amateur band, transmitting near midnight, EST. Reports are to be addressed to W2QY, A. G. Sayre, Storm King School, Cornwall-on-Hudson, N. Y.

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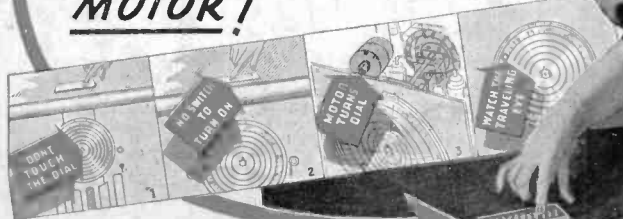
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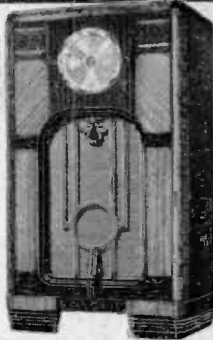
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