

THE NOVEMBER 1932

# RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25<sup>c</sup>

What the Market Offers in D. C. Sets  
Susie Sexton Interviews Gracie Allen  
North American Short Wave Stations  
Broadcasting Stations of the World  
Tuesday Time on the Air of all Stations

No. 63

# NOVEMBER DX CALENDAR

A. M. time is given as of the night before. Thus early Monday morning programs are listed under Sunday night. See time conversion table on page 66.  
Standard Time: Eastern E; Central C; Mountain M; Pacific P.

## SUNDAY NIGHT

Nov. 6th

Mid.-2:00 E—CMCH, 1405, Havana, Cuba

Nov. 6th, 13th, 20th, 27th

11:30-Mid. C—KSOO, 1110, Sioux Falls, S. D.

Mid.-1:00 E—WSAZ, 580, Huntington, W. Va.

## MONDAY NIGHT

Nov. 28th

2:00-3:00 M—KPOF, 880, Denver, Colo.

Nov. 14th

1:00-3:00 C—WHET, 1210, Troy, Ala.

3:00-5:00 C—KFBI, 1050, Abilene, Kans.

Nov. 7th, 14th, 21st, 28th

Mid.-2:00 M—KOY, 1390, Phoenix, Ariz.

Mid.-2:30 E—WMIL, 1500, Brooklyn, N. Y.

Mid.-4:00 C—WABZ, 1200, New Orleans, La.

5:00-6:00 E—WAWZ, 1350, Zarephath, N. J.

5:15-5:30 E—WHP, 1480, Harrisburg, Pa.

## TUESDAY NIGHT

Nov. 1st

11:00-Mid. P—CHWK, 665, Chilliwack, B. C.

3:00-6:00 E—WOPI, 1500, Bristol, Tenn.

Nov. 8th

1:00-2:00 C—WJMS, 1420, Ironwood, Mich.

Nov. 23rd

1:30-2:30 C—WCLO, 1200, Janesville, Wis.

Nov. 1st, 8th, 15th, 22nd, 29th

10:30-Mid. C—KFUO, 550, St. Louis, Mo.

11:00-Mid. C—XEH, 1132, Monterrey, Mex.

Mid.-1:00 P—CFJC, 1120, Kamloops, B. C.

Mid.-3:00 C—WSUL, 880, Iowa City, Iowa

2:00-3:00 C—KFGQ, 1310, Boone, Iowa

## WEDNESDAY NIGHT

Nov. 2nd

Mid.-2:00 C—KFJZ, 1370, Ft. Worth, Tex.

Nov. 9th

1:00-3:00 M—10-BI, 1200, Prince Albert, Sask.

2:00-4:00 C—WHBF, 1210, Rock Island, Ill.

Nov. 23rd

Mid.- E—WNBH, 1310, New Bedford, Mass.

3:00-5:00 C—KGFV, 1310, Kearney, Neb.

Nov. 2nd, 9th, 16th, 23rd, 30th

11:00-Mid. C—WHBL, 1410, Sheboygan, Wis.

11:30-1:30 P—CKWX, 730, Vancouver, B. C.

Mid.- M—KFJX, 1310, Grand Junction, Colo.

1:30-3:30 C—KGFV, 1420, Shawnee, Okla.

## THURSDAY NIGHT

Nov. 3rd, 17th

11:30-3:00 E—WMBC, 1420, Detroit, Mich.

2:00-4:00 C—KASA, 1210, Elk City, Okla.

2:00-4:00 C—KGFV, 1500, Moorhead, Minn.

Nov. 24th

2:00-3:00 C—KDLR, 1210, Devils Lake, N. D.

4:30-6:00 E—10-BP, 1199, Wingham, Ont.

Nov. 3rd, 10th, 17th, 24th

Mid.-1:00 M—CFAC, 690, Calgary, Alta.

Mid.-1:00 E—WTEL, 1310, Philadelphia, Pa.

Mid.-2:00 P—CKOV, 1200, Kelowna, B. C.

Mid.-2:30 E—WMIL, 1500, Brooklyn, N. Y.

## FRIDAY NIGHT

Nov. 4th

2:00-4:00 E—10-BQ, 1200, Brantford, Ont.

Nov. 18th

5:00-6:00 E—WJBU, 1210, Lewisburg, Pa.

Nov. 4th, 11th, 18th, 25th

11:00-Mid. M—CFCN, 985, Calgary, Alta

11:30-12:30 C—WCAJ, 590, Lincoln, Nebr.

11:30-1:30 M—KGEK, 1200, Yuma, Colo.

Mid.-1:00 C—WENC, 1420, Americus, Ga.

1:00-3:00 E—CKCL, 580, Toronto, Ont.

1:00-4:00 E—CKPR, 890, Ft. William, Ont.

## SATURDAY NIGHT

Nov. 5th

Mid.-2:00 C—WILL, 890, Urbana, Ill.

2:00-3:00 E—CHML, 880, Hamilton, Ont.

Nov. 12th

1:00-4:30 P—KROW, 930, Oakland, Calif.

Nov. 19th

2:00-3:00 E—WTOC, 1260, Savannah, Ga.

3:00-5:00 C—KGFI, 1500, Corpus Christi, Tex.

4:30-6:30 M—10-BI, 1200, Prince Albert, Sask.

Nov. 5th, 19th

12:30-2:30 M—10-AB, Moose Jaw, Sask.

Nov. 26th

11:00-3:00 C—WIBW, 580, Topeka, Kans.

2:00-2:30 E—WFAS, 1210, White Plains, N. Y.

Nov. 12th, 26th

Mid.- C—KUSD, 890, Vermillion, S. D.

Nov. 5th, 12th, 19th, 26th

7:30-10:30 —KGU, 750, Honolulu, H. T.

11:30-1:30 P—CKWX, 730, Vancouver, B. C.

11:30-2:00 C—WRBZ, 1200, Ponca City, Okla.

Mid.-12:30 C—WKY, 900, Oklahoma City

Mid.-1:00 P—KDB, 1500, Santa Barbara, Cal.

Mid.-1:00 E—WJBK, 1370, Detroit, Mich.

Mid.-2:00 P—CKOV, 1200, Kelowna, B. C.

Mid.-2:00 C—KRLD, 1040, Dallas, Tex.

Mid.-2:00 E—WCAH, 1430, Columbus, Ohio

Mid.-2:00 E—WGBI, 880, Scranton, Pa.

Mid.-2:00 C—WGES, 1360, Chicago, Ill.

Mid.-2:30 C—WOW, 590, Omaha, Neb.

Mid.-3:00 E—CMCD, 925, Havana, Cuba

Mid.-3:00 E—WWRL, 1500, Woodside, N. Y.

Mid.-5:00 E—WTFI, 1450, Athens, Ga.

12:15-1:30 C—WOMT, 1210, Manitowoc, Wis.

12:30-2:00 C—KMAC, 1370, San Antonio, Tex.

12:30-3:00 M—10-BI, 1200, Prince Albert, Sask.

1:00- E—KOV, 1380, Pittsburgh, Pa.

1:00-2:00 M—KFXF, 920, Denver, Colo.

1:00-4:00 M—KGCV, 1310, Wolf Point, Mont.

1:00-5:00 C—WTRC, 1310, Elkhart, Ind.

2:00-3:00 C—WKBZ, 1500, Ludington, Mich.



Keys.	Power	Call	City	Country
882	100	VUL	Lahore	India
882	400	HS11PJ	Bangkok	Siam
887	1000	PRAS	Santos Miramir	Brazil
890	5	VK7HO	Hobart	Australia
890	250	CX18	Montevideo	Uruguay
895	250	XGY	Hangchow	China
896	1500	.....	Poznan	Poland

**900**

900	5000	1YA	Auckland	New Zealand
901	500	.....	Paris	France
905	1500	INA	Naples	Italy
909	.....	CT1GL	Lisbon	Portugal
910	2000	VK4RK	Rockhampton	Australia
910	500	ZL1YA	Auckland	New Zealand
911	1000	LV2	Cordoba	Argentina
914	1500	.....	Grenoble	France
920	50	PRAD	Pelotas	Brazil
923	1700	.....	Breslau	Germany
923	.....	HS7PJ	Bangkok	Siam
930	100	VK3UZ	Melbourne	Australia
930	2000	CX20	Montevideo	Uruguay
932	500	SCC	Falun	Sweden
932	10000	SBB	Goteborg	Sweden
937	500	PRAB	Rio de Janeiro	Brazil
937	1000	XOPP	Peking	China
937	.....	HSP3	Bangkok	Siam
938	50	XGAH	Shanghai	China
940	.....	5ZA	Apia	Samoa
941	300	.....	Dresden	Germany
950	5000	LR3	Buenos Aires	Argentina
950	600	VK2GB	Sydney	Australia
950	500	.....	Marseilles	France
950	300	.....	Bremen	Germany
952	50	NKS	Shanghai	China
959	1500	IGE	Genoa	Italy
959	1500	.....	Krakow	Poland
960	100	VK5DN	Adelaide	Australia
960	.....	YV1BC	Caracas	Venezuela
968	2000	.....	Paris	France
968	1000	G5WA	Cardiff	Wales
970	200	VK3BO	Sydney	Australia
970	250	CX22	Montevideo	Uruguay
977	700	.....	Zagreb	Jugoslavia
980	500	ZL3YA	Christchurch	New Zealand
983	25	CNO	Casablanca	Morocco
986	1500	.....	Bordeaux	France
990	10000	LR4	Buenos Aires	Argentina
990	5000	LR6	Buenos Aires	Argentina
995	1000	G2BD	Aberdeen	Scotland

**1000**

1000	50	VK4GR	Toowoomba	Australia
1000	50	PRAY	Mogydas Cruzes	Brazil
1000	350	.....	The Hague	Netherlands
1000	50	.....	Pretoria	So. Africa
1004	7000	PFBI	Amsterdam	Netherlands
			Hilversum	Netherlands
1004	6400	PH9	Amsterdam	Netherlands
			Huizen	Netherlands
1006	500	PRAR	Sao Paulo	Brazil
1010	200	VK3HA	Hamilton	Australia
1010	300	VK6ML	Perth	Australia
1010	1000	CX24	Montevideo	Uruguay
1013	10000	.....	Tallinn	Estonia
1013	8500	ITO	Turin	Italy
1016	250	CMAO	Santiago	Chile
1022	500	.....	Limoges	France
1023	2500	OKK	Kosice	Czechoslovakia
1025	50	VK2UE	Sydney	Australia
1030	10000	LR9	Buenos Aires	Argentina
1031	750	.....	Viborg	Finland
1032	500	YR	Lyon	France
1034	100	CMAJ	Valparaiso	Chile
1040	1000	G6BM	Bournemouth	England
1040	130	G6KH	Hull	England
1040	130	G2LS	Leeds-Bradford	England
1040	130	G6LV	Liverpool	England
1040	130	G5PY	Plymouth	England
1040	160	G6FL	Sheffield	England
1040	130	G6ST	Stoke-on-Trent	England

Keys.	Power	Call	City	Country
1040	130	G2DE	Dundee	Scotland
1040	350	G2EH	Edinburgh	Scotland
1040	130	G55X	Swansea	Wales
1041	50	10PI	Port Pirie	Australia
1049	200	.....	Montpellier	France
1050	50	VK2CA	Canberra	Australia
1050	150	ZL2ZF	Palmerston	New Zealand
			North	New Zealand
1050	2000	CX26	Montevideo	Uruguay
1053	500	.....	Kharbarovsk	Russia
1056	2000	CT1AA	Lisbon	Portugal
1056	10	CT1AN	Lisbon	Portugal
1056	150	CT1BO	Lisbon	Portugal
1056	.....	CT1DH	Lisbon	Portugal
1056	30	CT1EB	Lisbon	Portugal
1058	500	.....	Innsbruck	Austria
1058	600	.....	Berlin	Germany
1058	600	.....	Magdeburg	Germany
1058	600	.....	Stetin	Germany
1058	50	SCR	Uddevalla	Sweden
1058	300	SCU	Varberg	Sweden
1060	50	ZZO	Palmerston	New Zealand
1067	1000	.....	Copenhagen	Denmark
10000	LS5	.....	Buenos Aires	Argentina
1070	300	VK2KY	Sydney	Australia
1070	10	PRA1	Ribeirao Preto	Brazil
1070	1500	2KY	Sydney	Australia
1071	500	EAR5	Las Palmas	Canary Islands
1071	50	XGX	Shanghai	China
1075	100	LT9	Rosario	Argentina
12000	OKR	.....	Bratislava	Czechoslovakia
2000	LT3	.....	Rosario	Argentina
1080	20	VK7LA	Launceston	Australia
1080	50	VK3SH	Swan Hill	Australia
1080	200	.....	Caen	France
1080	20	ZL4ZB	Dunedin	New Zealand
1080	45	ZL4ZM	Dunedin	New Zealand
1080	30	ZL4ZO	Dunedin	New Zealand
1080	300	4ZW	Dunedin	New Zealand
1080	5	4ZF	Dunedin	New Zealand
60000	.....	.....	Heilsburg	Germany
1085	1700	.....	Konigsberg	Germany
1088	5	KSMS	Shanghai	China
1090	.....	PRAQ	Belo Horizonte	Brazil
1090	18	ZL1ZB	Auckland	New Zealand
1090	40	ZL1ZR	Auckland	New Zealand
1091	250	.....	Angers	France

**1100**

1100	20	VK7LA	Launceston	Australia
1100	7.5	ZL2ZU	Dannevirke	New Zealand
1103	1500	.....	Rennes	France
1110	2000	VK2HD	Newcastle	Australia
1110	50	PRAZ	France	Brazil
1112	300	.....	Kaiserslautern	Germany
1112	150	SCF	Hudkissvall	Sweden
1112	250	SCO	Norrkoping	Sweden
1112	250	SCQ	Trollhattan	Sweden
1118	1500	.....	Valencia	Spain
1119	10000	EZJ13	Barcelona	Spain
1119	30	EAJ19	Oviedo	Spain
1120	10	ZL2ZO	Palmerston	New Zealand
			North	New Zealand
1120	100	ZL2ZW	Wellington	New Zealand
1125	125	VK2UW	Sydney	Australia
1130	250	CX30	Montevideo	Uruguay
1132	500	.....	Lille	France
1135	300	VK6ML	Perth	Australia
1140	65	LP2	Villaguay	Argentina
1140	.....	CW30	Tucua-rembon	Uruguay
1145	600	VK4BC	Brisbane	Australia
1145	25	VK3YB	Melbourne	Australia
1147	110	ZL2ZM	Gisborne	New Zealand
1148	1000	G5NO	Newcastle	England
1150	10000	LR8	Buenos Aires	Argentina
1150	30000	G2LO	London	England
1150	20	ZL2ZJ	Gisborne	New Zealand
1153	1000	PRAK	Rio de Janeiro	Brazil
1153	7500	.....	Kallundborg	Denmark
1157	5600	.....	Gleiwitz	Germany
1160	50	VK7HO	Hobart	Australia
1160	8	ZL4ZI	Invercargill	New Zealand

Keys.	Power	Call	City	Country	Keys.	Power	Call	City	Country
616	5000	OKP	Prague	Czechoslovakia	750	10000	JOBK	Osaka	Japan
621	1200	RW40	Gomel	Russia	750	1000	VQ7LO	Nairobi	Kenya
625	1000	CMAB	Santiago	Chile	750	700	RA8	Bogorodsk	Russia
625	500	XOL	Tientsin	China	750	750	EAJ2	Madrid	Spain
625	500	JOQK	Nilgata	Japan	752	1000	G5SC	Glasgow	Scotland
626	25000	G5GB	Daventry	England	759	500	LT4	Mendoza	Argentina
626	30000	.....	Huddersfield	England	759	12000	.....	Bucharest	Rumania
630	5000	ZL1ZH	Hamilton	New Zealand	760	2500	VK4QG	Brisbane	Australia
630	4000	RW52	Simferopol	Russia	760	1000	JQAK	Dairen, Manchuria	Japan
635	17000	.....	Langenburg	Germany	770	8000	.....	Toulouse	France
635	500	JONK	Nagano	Japan	770	1700	.....	Frankfort	Germany
635	7500	5CK	Crystal Brook	Australia	770	200	VUM	Madras	India
636	1200	RW23	Groznyj	Russia	770	10000	JOHK	Sendai	Japan
636	300	RW28	Vladivostok	Russia	770	10000	RW36	Arkhangelsk	Russia
638	50	PRAM	Amparo	Brazil	770	600	SBF	Ostersund	Sweden
640	1200	RW56	Penza	Russia	770	500	CX12	Montevideo	Uruguay
644	3000	YN	Lyon	France	777	500	.....	Rheims	France
645	1200	RW48	Tomsk	Russia	778	500	JOPK	Shidzuoka	Japan
648	500	ZLAYA	Dunedin	New Zealand	779	.....	.....	Lwow	Poland
650	1000	RW33	Krasnodar	Russia	779	500	.....	Wilna	Poland
650	1000	CX6	Montevideo	Uruguay	779	500	.....	Luj2	Argentina
653	60000	.....	Beromunster	Switzerland	789	500	.....	Bahia Blanca	Argentina
662	500	.....	Klagenfurt	Austria	790	500	LR1	Buenos Aires	Argentina
662	250	PTB	Danzig	Danzig	790	10000	JOGK	Kumamoto	Japan
662	200	IBZ	Bolzano	Italy	790	1500	OAX	Lima	Peru
662	500	LKD	Bodo	Norway	793	1000	RW37	Moscow	Russia
662	800	LKP	Porsgrund	Norway	793	300	RW39	Moscow	Russia
662	110	LKM	Tromsø	Norway	796	1000	RW27	Makhatch Kala	Russia
662	1000	EAJ8	San Sebastian	Spain	797	1000	G2ZY	Manchester	England
662	150	SCT	Upsala	Sweden					
665	1000	VK2FC	Sydney	Australia					
667	15000	ZTJ	Johannesburg	So. Africa					
668	4000	RW13	Odessa	Russia					
670	5000	LP4	Buenos Aires	Argentina					
670	10000	JFAK	Tokyo	Japan					
671	1000	FPTT	Paris	France					
671	300	LKA	Aalesund	Norway					
671	900	LEN	Notodden	Norway					
671	170	EKR	Rjukan	Norway					
674	50	PRAH	Bahia	Brazil					
674	1000	COHB	Harbin	China					
680	75000	LR0	Rome	Italy					
680	500	JOLK	Fukuoka	Japan					
685	1000	LP8	LaPlata	Argentina					
685	2000	HJN	Bogota	Colombia					
687	1200	RW46	Petropavlovsk	Russia					
689	1000	CAB	Canton	China					
689	60	SCN	Malmberget	Sweden					
689	1000	SBA	Stockholm	Sweden					
690	1000	VK6WF	Perth	Australia					
690	1000	JODK	Keijo, Chosen	Japan					
690	1200	RA44	Tver	Russia					
696	.....	.....	Belgrade	Jugoslavia					

700									
700	500	JOKK	Okayama	Japan	800	1000	VK3LO	Melbourne	Australia
704	4000	RW20	Kharkov	Russia	804	1000	CMAC	Santiago	Chile
706	3000	PRAP	Pernambuco	Brazil	806	1700	.....	Hamburg	Germany
706	3000	PRAG	Porto Alegre	Brazil	810	1000	LT1	Concordia	Argentina
708	1500	EAJ7	Madrid	Spain	810	3000	VUC	Calcutta	India
710	5000	LSJ	Buenos Aires	Argentina	810	10000	JOCK	Nagoya	Japan
710	300	JOJK	Kanazawa	Japan	810	.....	HS7PJ	Bangkok	Siam
714	200	RA32	Saratov	Russia	810	1000	ZTC	Cape Town	So. Africa
716	1700	.....	Berlin	Germany	810	1000	CX14	Montevideo	Uruguay
720	5000	ZL2YA	Wellington	New Zealand	811	1200	RV26	Artemovsk	Russia
723	2000	COMK	Mukden	China	815	1000	PRAE	Sao Paulo	Brazil
724	2000	.....	Rabat	Morocco	815	.....	EAJ5	Seville	Spain
726	1500	2RN	Dublin	Irish Free State	820	20	3ZE	Greymouth	New Zealand
730	5000	LT6	San Juan	Argentina	820	20	ZL3ZR	Greymouth	New Zealand
730	1000	VK5CL	Adelaide	Australia	820	.....	RV42	Nokolaev	Russia
730	1000	RW55	Pokrovsk	Russia	824	2400	.....	Algiers	Algeria
730	1000	CX10	Montevideo	Uruguay	824	1000	LKB	Bergen	Norway
731	1000	ZTD	Durban	South Africa	825	1500	F8GC	Paris	France
734	10000	.....	Katowice	Poland	830	500	LR5	Buenos Aires	Argentina
735	2200	.....	Tartu	Estonia	830	10000	JOJK	Sapporo	Japan
741	1000	JOSK	Kokura	Japan	830	25	2ZP	Wairoa	New Zealand
743	25000	.....	Sottens	Switzerland	833	60000	.....	Stuttgart	Germany
748	1200	RW51	Nalchik	Russia	837	700	LKF	Fredrikstad	Norway
750	7000	LR7	Buenos Aires	Argentina	838	4000	RW57	Tiraspol	Russia
750	1000	PRAA	Rio de Janeiro	Brazil	840	10000	.....	Helsingfors	Finland
750	250	.....	Mont-de-Marsan	France	840	12000	F31CD	Saigon	Fr. Indo-China

840	3000	VUB	Bombay	India
842	250	PRAF	Para	Brazil
842	30000	G2LO	London	England
845	1500	ZBW	Victoria	Hong Kong
850	10000	JOFK	Hiroshima	Japan
850	.....	CX16	Montevideo	Uruguay
851	7000	.....	Graz	Austria
855	1000	VK2BL	Sydney	Australia
856	1200	RV36	Leningrad	Russia
856	2500	HSP1	Bangkok	Siam
857	200	PRAJ	Juiz de Fora	Brazil
857	500	PRAC	Rio de Janeiro	Brazil
860	7500	EAJ1	Barcelona	Spain
865	1200	RW24	Piatigorsk	Russia
867	6000	SFTT	Strasbourg	France
870	10000	LR2	Buenos Aires	Argentina
870	.....	.....	Shanghai	China
870	10000	JOAK	Tokyo	Japan
878	36000	OKB	Brno	Czechoslovakia
880	600	VK4BC	Brisbane	Australia
880	200	VK6PR	Perth	Australia
881	500	LV7	Tucuman	Argentina
882	50	PRAN	Curitiba	Brazil

Call	Megs.	Meters	
<b>Harrisburg—PENNSYLVANIA</b>			
WAED	3.100	96.72	T. A. T.
WAED	5.560	53.92	T. A. T.
<b>Philadelphia</b>			
WPDP	2.470	121.40	P. S.
W3XZU	9.585	31.28	Daily, ex. Thurs., Fri. 3 p. m. to midnight.
<b>Pittsburgh</b>			
WPDU	1.712	175.15	P. S.
WAEC	3.100	96.72	T. A. T.
WAEC	5.560	53.92	T. A. T.
W8XK	6.140	48.83	Westinghouse Elec. & Mfg. Co. Relays KDKA Tues., Thur., Sat., Sun. 4 p. m. to midnight.
W8XK	11.872	25.25	Westinghouse Elec. & Mfg. Co., 3 to 9 p. m. Sat. night Arctic programs. Television, Mon. & Fri. 2:30 p. m., 60 lines, 1200 r. p. m. (11,881 kc.).
W8XK	14.480	20.70	
W8XK	15.204	19.72	6:30 a. m. to 4 p. m.
W8XK	17.780	16.87	Westinghouse Elec. & Mfg. Co.
W8XK	21.540	13.92	6:30 a. m. to 11 a. m.
W8XI	31.000	9.67	
<b>Manila—PHILIPPINE ISLANDS</b>			
KZRM	6.140	48.83	Radio Corp. of Philip- pines.
NPO	8.872	33.78	Time signals 9:55 to 10 p. m. (Cavite, Manila).
K1XR	9.560	31.36	
KZRM	9.570	31.33	Radio Corp. of Philip- pines.
K1XR	11.440	26.20	11:15 a. m. to 12:15 p. m.; 1 a. m. to 3 a. m.; 5 to 10 a. m.
K1XR	11.820	25.39	11:15 a. m. to 12 15 p. m.; 1 a. m. to 3 a. m.; 5 to 10 a. m.
KZRM	11.840	25.33	Radio Corp. of Philip- pines.
K1XR	12.245	24.49	
K1XR	12.250	24.46	5 to 9 a. m., ex. Sunday
<b>Memphis—TENNESSEE</b>			
WPEC	2.470	121.40	P. S.
<b>Abilene—TEXAS</b>			
KGUL	3.490	85.91	S. A. T.
KGUL	5.630	53.25	S. A. T.
<b>Amarillo</b>			
KSW	3.100	96.72	T. A. T.
KSW	5.560	53.92	T. A. T.

Call	Megs.	Meters	
<b>Beaumont</b>			
KGPJ	1.712	175.15	P. S.
<b>Big Springs</b>			
KGUG	3.490	85.91	S. A. T.
KGUG	5.630	53.25	S. A. T.
<b>Dallas</b>			
KVP	1.712	175.15	P. S.
KGUF	3.490	85.91	S. A. T.
KGUF	5.630	53.25	S. A. T.
<b>El Paso</b>			
KGUA	3.490	85.91	S. A. T.
KGUA	5.630	53.25	S. A. T.
<b>Fort Worth</b>			
KGPR	1.712	175.23	P. S.
KGUC	3.490	85.91	S. A. T.
KGUC	5.630	53.25	S. A. T.
<b>Houston</b>			
KGZB	1.712	175.23	P. S.
<b>Salt Lake City—UTAH</b>			
KGPW	2.470	121.40	P. S.
KQD	3.170	94.58	B. A. T.
KQD	5.600	53.54	B. A. T.
<b>Arlington—VIRGINIA</b>			
NAA	4.105	73.03	Time signals 9:57 to 10 p. m.; 11:57 to noon.
NAA	8.872	33.60	Time signals 9:57 to 10 p. m.; 2:57 to 3 p. m.
NAA	12.045	24.07	Time signals 11:45 to noon.
NAA	16.060	18.05	U. S. Navy time sig- nals 11:57 to noon.
<b>Pasco—WASHINGTON</b>			
KDD	3.170	94.58	B. A. T.
KDD	5.600	53.54	B. A. T.
<b>Seattle</b>			
KGPA	2.414	124.27	P. S.
KZJ	3.178	94.30	U. A.
KZJ	5.657	53.00	U. A.
W7XC	17.300	17.33	
<b>Milwaukee—WISCONSIN</b>			
WPDK	2.450	122.40	P. S.
<b>Cheyenne—WYOMING</b>			
KQE	3.170	94.58	B. A. T.
KQE	5.600	53.54	B. A. T.
<b>Rock Springs</b>			
KQC	3.170	94.58	B. A. T.
KQC	5.600	53.54	B. A. T.

# PRINCIPAL BROADCASTING STATIONS *of the* WORLD

Fill in your dial numbers and you will then know where these foreign stations should be received on your set

500				
Keys.	Power	Call	City	Country
551	1000	RW17	Kazan	Russia
554	4000	IIPA	Palermo	Italy
554	10000	SBD	Sundsvall	Sweden
560	7500	2CO	Corowa	Australia
560	1200	RW41	Veliki Oustug	Russia
563	1700	.....	Munich	Germany
569	3000	.....	Ljubljana	Jugoslavia
571	10000	YLZ	Riga	Latvia
580	600	VL7ZL	Hobart	Australia
581	.....	.....	Vienna	Austria
587	1000	RV50	Armavir	Russia
588	750	.....	Bloemfontaine	So. Africa
589	3600	ON4RB	Brussels	Belgium

Keys.	Power	Call	City	Country
589	15000	.....	Velthem	Belgium
590	.....	LP6	Buenos Aires	Argentina
590	10000	JOAK	Tokyo	Japan
599	8500	IMI	Milan	Italy
600				
600	1750	.....	Colombo	Ceylon
600	120	ZL2ZK	Wanganui	New Zealand
600	20	RA51	Ulyanovsk	Russia
604	1200	RW31	Ivanovo-	
			Vosnesensk	Russia
606	500	XGZ	Nanking	China
608	500	LKT	Trondelag	Norway
608	1200	RW32	Stavropol	Russia
610	1000	VK3AR	Melbourne	Australia

Call	Megs.	Meters	Call	Megs.	Meters
WNC	19.220	15.62	<b>Richmond Hill</b>		
WMI	19.850	15.05	W2XE	6.120	48.99
W2XDJ	21.420	14.00	System. Relays WABC 7:30 a. m. to 2 a. m.;		
<b>Lawrenceville</b>			W2XE	11.840	25.34
WNB	5.868	51.09	System 7:30 a. m. to 2 a. m., Sunday, 8 a. m. to 1 a. m.		
WOA	6.752	44.41	W2XE	15.280	19.62
WOB	6.752	44.41	Sun., 8 a. m. to 1 a. m.		
WNA	9.162	32.72	<b>Rochester</b>		
WOF	9.742	30.77	WPDV	2.458	122.05
WON	9.862	30.40	Phones England nights		
WLO	10.540	28.44	<b>Rocky Point</b>		
WOK	10.540	28.44	WEL	6.732	44.54
WMA	13.380	22.40	Phones LSN evenings.		
WMF	14.464	20.73	W2XBJ	7.396	40.54
WMN	14.854	20.56	Phones England daylight.		
WLK	16.260	18.44	WEM	7.396	40.54
WLO	16.300	18.39	W2XBJ	7.396	40.54
WLA	18.340	16.35	Phones England daylight.		
m. to 4 p. m.			WES	9.448	31.74
WKF	19.206	15.61	W2XBJ	9.448	31.74
m. to 4 p. m.			WLY	13.860	21.63
WKN	19.816	15.13	W2XBJ	13.860	21.63
m. to 4 p. m.			WKU	14.796	20.27
WKA	21.195	14.24	W2XBJ	14.796	20.27
m. to 4 p. m.			WKF	18.976	31.60
WLO	21.400	14.01	W2XBJ	18.976	31.60
Telegraph Co.; transatlantic phone.			WKW	19.016	15.77
WKK	21.425	14.01	W2XBJ	19.016	15.77
Phones 8 a. m.-4 p. m.			<b>Schenectady</b>		
<b>Newark</b>			W2XAC	8.600	34.50
WAEF	3.100	96.72	W2XAF	9.530	31.46
WAEF	5.560	53.92	Relays WGY daily 5 to 11 p. m.		
WSDC	5.657	53.00	W2XAD	15.320	19.57
<b>New Brunswick</b>			Sat. & Sun. 1 to 6 p. m. (15337 keys.)		
W2XAO	17.850	16.80	W2XK	17.300	17.94
W2XB	34.600	8.67	Tues., Thur., Sat. 12 to 5 p. m.		
W2XBC	51.400	5.83	<b>Syracuse</b>		
<b>Oceangate</b>			WPEA	2.458	122.05
WOO	4.748	63.13	Phones ships irregularly.		
ly.			<b>Charlotte—NORTH CAROLINA</b>		
WOO	8.562	35.02	WPDV	2.458	122.05
ly.			<b>Akron—OHIO</b>		
W2XDO	8.630	34.74	WPDO	2.458	122.05
WOO	12.836	23.36	Phones ships irregularly.		
ly.			<b>Cincinnati</b>		
WOO	17.110	17.52	WKDU	1.712	175.15
ly.			W8XAL	6.060	49.48
W2XDO	17.110	17.52	Relays WLW 6:30 to 10 a. m., 1 to 3 p. m.; 6 p. m. to 2 a. m. Daily. Sunday after 1 p. m.		
<b>Passaic</b>			<b>Cleveland</b>		
WPDJ	2.414	124.17	WRBH	2.450	122.40
<b>Albuquerque—NEW MEXICO</b>			WSDQ	5.657	53.00
KSX	3.100	96.72	A. A. S.		
KSX	5.560	53.92	<b>Columbus</b>		
<b>Albany—NEW YORK</b>			WPDJ	2.430	123.45
WSDM	5.657	53.00	WAEB	3.100	96.72
<b>Auburn</b>			WAEB	5.560	53.92
WPDN	2.458	122.05	T. A. T.		
<b>Bronx</b>			<b>Dayton</b>		
WPEF	2.450	122.40	WPDJ	2.414	124.17
<b>Brooklyn</b>			W8XAG	8.650	34.66
WRDU	1.596	187.81	W8XL	17.300	17.34
WPEE	2.450	122.40	<b>Toledo</b>		
W2XBX	5.502	54.50	WRDQ	2.470	121.40
<b>Buffalo</b>			<b>Youngstown</b>		
WMJ	2.422	123.86	WPDG	2.458	122.05
WSDO	5.657	53.00	<b>Oklahoma City—OKLAHOMA</b>		
<b>Long Island City</b>			KGPH	2.450	122.40
W2XV	4.797	62.50	<b>Tulsa</b>		
W2XV	4.975	60.27	KGPO	2.450	122.40
Lab. Inc. Irregular			KSY	3.100	96.72
W2XV	8.650	34.66	KSY	5.560	53.92
Lab., Inc. Friday, 5 to 7:30 p. m.			<b>Medford—OREGON</b>		
<b>New York</b>			KGE	3.178	94.30
WCF	1.596	187.81	KGE	5.657	53.00
WPEG	2.450	122.40	<b>Portland</b>		
			KGPP	2.422	123.86
			KVO	3.178	94.30
			KVO	5.657	53.00
			W7XA	17.300	17.33

Call	Megs.	Meters	Call	Megs.	Meters
	<b>Aurora—ILLINOIS</b>			<b>Detroit—MICHIGAN</b>	
WQDU	3.170	94.58 B. A. T.	WKDT	1.596	187.97 P. S.
WQDU	5.600	53.54 B. A. T.	WCK	2.414	124.27 P. S. WCK, Belle Island.
<b>Chicago</b>			WPDX		
WPDB	1.712	175.23 P. S.	<b>East Lansing</b>		
WPCC					
WRDS			1.574	189.50 P. S.	
W9XL	3.076	97.53	<b>Filnt</b>		
W9XL	3.256	92.24	WPDF	2.442	122.80 P. S.
W9XL	4.795	62.53	<b>Grand Rapids</b>		
W9XF	6.020	49.80 Downers Grove; Re-	WPEB	2.442	122.80 P. S.
		lays WENR 2:30 to 7 p. m.; 8:30 p. m. to 1 a. m.	<b>Grosse Pointe</b>		
W9XAA	6.072	49.34 Relays WCFL, Sun. 11	WRDR	2.414	124.27 P. S.
		a. m. to 9 p. m.; Wed., Sat., 8:30 a. m. to 9 p. m.	<b>Highland Park</b>		
		Tues., Thurs., 8:30 a. m. to 8 p. m. (6080 kc.)	WMO	2.414	124.27 P. S.
W9XL	8.650	34.66	<b>Lansing</b>		
W9XAA	11.840	25.33 Relays WCFL irregu-	WPDL	2.442	122.80 P. S.
		larly 7 to 8 a. m., 1 to 2, 4 to 5:30; 6 to 7:30 p. m.			
W9XF	6.095	49.18 Chicago Federation of			
		Labor, Downers Grove; 3:30 p. m. to 1 a. m. daily.	W9XL	6.425	46.66
W9XAA	18.105	16.57 Relays WCFL; testing	W9XL	12.850	23.35
		mornings (17780 kc.?).	W9XL	17.300	17.33
W9XF	20.500	14.63	<b>Minneapolis</b>		
<b>Elgin</b>			KGFB	2.416	124.17 P. S.
W9XAM	4.795	62.53 Time signals.	<b>St. Paul</b>		
			WPDS	2.416	124.17 P. S.
			<b>Jackson—MISSISSIPPI</b>		
			WSDB	3.490	85.91 S. A. T.
			WSDB	5.630	53.25 S. A. T.
			<b>Kansas City—MISSOURI</b>		
			KGPE	2.422	123.86 P. S.
			KST	3.100	96.72 T. A. T.
			KST	5.560	53.92 T. A. T.
			<b>St. Louis</b>		
			KGPC	1.712	175.23 P. S.
			KGTR	3.100	96.72 T. A. T.
			KGTR	5.560	53.92 T. A. T.
			<b>Lincoln—NEBRASKA</b>		
			KRF	3.170	94.58 B. A. T.
			KRF	5.600	53.54 B. A. T.
			<b>North Platte</b>		
			KMR	3.170	94.58 B. A. T.
			KMR	5.600	53.54 B. A. T.
			<b>Omaha</b>		
			KGPI	2.470	121.40 P. S.
			KMP	3.170	94.58 B. A. T.
			KMP	5.600	53.54 B. A. T.
			<b>Eiko—NEVADA</b>		
			KKO	3.170	94.58 B. A. T.
			KKO	5.600	53.54 B. A. T.
			<b>Las Vegas</b>		
			KGTV	3.100	96.72 T. A. T.
			KGTV	5.560	53.92 T. A. T.
			<b>Reno</b>		
			KJE	3.170	94.58 B. A. T.
			KJE	5.600	53.54 B. A. T.
			<b>Ampero—NEW JERSEY</b>		
			W2XCU	12.850	23.33
			W2XCU	17.300	17.33
			W3XAL	17.772	16.87 7 a. m. to 3 p. m.
			<b>Boundbrook</b>		
			W3XAL	6.096	49.18 Sat. 5 to 11 p. m.;
					National Broadcasting Co. (6100 keys.?)
			W3XL	6.386	46.96 National Broadcasting
					Co. Relays WJZ irregularly. (6425 keys.?)
			<b>Camden</b>		
			WAEK	3.100	96.72 T. A. T.
			WAEK	5.560	53.92 T. A. T.
			<b>Deal</b>		
			WOO	3.124	96.03
			WOO	4.116	72.87
			WOO	6.515	46.02
			WND	6.753	44.40
			WOO	8.630	34.74
			WNC	9.750	30.75
			WND	13.400	22.37 Transatlantic
					telephony
			WNC	14.480	20.70
			WND	18.350	16.35 Transatlantic
					telephony.



**XETG 1000** Torreon, Mex.  
**XETQ 1230** Mexico City, Mex.  
**XETR 610** Mexico City, Mex.  
**XEU 1007** Veracruz, Mex., *GST*.  
 7-8 a.m.; 10-11 a.m.; noon-3  
 p.m.; 6-mid.  
**XEV 1000** Pueblo, Mex.  
**XEW 910** Mexico City, Mex.  
**XEX 1210** Mexico City, Mex.

**KEY 1000** Merida, Mex.  
**XEZ 780** Mexico City, Mex.  
**XFC 810** Aguascalientes, Mex.  
**XFF 875** Chihuahua, Mex.  
**XFG 683.3** Mexico City, Mex.  
**XFX 867** Mexico City, Mex.  
**10-AB 1200** Moose Jaw, Sask., *MST*.  
 6-7 p.m.  
**10-AK 1200** Stratford, Ont., *EST*.  
 6-8 p.m.

**10-AT 1155** Trail, B. C.  
**10-BI 1200** Prince Albert, Sask.,  
*MST*.  
 Noon-1 p.m.; 6-8 p.m.  
**10-BP 1199** Wingham, Ont., *EST*.  
 noon-1 p.m.  
**10-BQ 1200** Brantford, Ont., *EST*.  
 6 p.m.-7; 8-10 p.m.  
**10-BU 1200** Canora, Sask.

# SHORT WAVE STATIONS of UNITED STATES

According to Frequencies in Megacycles (thousands of kilocycles) and Wave Lengths in Meters. Time is given in EST. The Foreign Short Wave Stations were given by Countries in the September issue and by frequencies in October.

Call	Megs.	Meters	Call	Megs.	Meters
<b>Tuscaloosa—ALABAMA</b>			<b>Oakland</b>		
WSDÉ	3.490	85.91 S. A. T.	KFO	3.170	94.58 B. A. T.
WSDÉ	5.630	53.25 S. A. T.	KFO	5.600	53.54 B. A. T.
<b>Kingman—ARIZONA</b>			W6XAJ	17.300	17.34
KGPL	3.100	96.72 T. A. T.	Palo Alto		
KGPL	5.560	53.92 T. A. T.	W6XD	27.800	10.78 M. R. T. Co.
<b>Bakersfield—CALIFORNIA</b>			<b>Pasadena</b>		
KGPS	2.414	124.27 P. S.	KGJX	1.712	175.23 P. S.
KQX	3.179	94.30 U. A.	<b>Sacramento</b>		
KQX	5.657	53.00 U. A.	KFM	3.178	94.30 U. A. S.
<b>Berkeley</b>			KFM	5.657	53.00 U. A. S.
KSW	2.422	123.86 P. S.	<b>San Francisco</b>		
<b>Bollnas</b>			KGPD	1.558	192.4 M. F.
KEL	6.860	43.70 Com.—Testing irregu-	KGPD	2.470	121.50 P. S.
lar J1AA.			<b>San Jose</b>		
KEE	7.715	38.86—Com.—Testing irregu-	KGPM	2.470	121.50 P. S.
larly.			<b>San Mateo</b>		
KEJ	9.012	33.27 Com.—Testing irregu-	W6XQ	24.000	12.48
larly.			<b>Tulare</b>		
KEZ	10.410	28.80 Com.—Testing.	WPDA	2.414	124.27 P. S.
KKQ	11.945	25.10	<b>Vallejo</b>		
KKQ	11.970	25.05 Com.—Testing irregu-	KGPG	2.422	123.86 P. S.
larly.			<b>Denver—COLORADO</b>		
KKX	13.690	21.90 Com.—Testing irregu-	2.422	123.86	P. S.
larly.			<b>Washington—DISTRICT OF COLUMBIA</b>		
KKZ	14.150	21.17	WPDW	2.408	124.50 P. S. (2422 kc.?)
KQJ	18.000	16.67 Com.; Testing (18.050	W3XZ	4.795	62.53
kc.?)			W3XX	8.650	34.66
<b>Burbank</b>			<b>Miami—FLORIDA</b>		
KEU	3.189	94.30 U. A. S.	W4XG	8.650	34.66
KEU	5.657	53.00 U. A. S.	<b>Atlanta—GEORGIA</b>		
<b>Dixon</b>			WPDY	2.414	124.27 P. S.
KWY	7.562	39.65 Com.; Phones Hawaii	WQDP	3.490	85.91 S. A. T.
nights.			WQDP	5.630	53.23 S. A. T.
KWX	7.605	39.42 Com.; phones Hawaii	<b>Honolulu—HAWAII</b>		
nights.			KGPO	2.450	122.40 P. S.
KWV	10.830	27.68 Com.; phones Hawaii	<b>Kahuku</b>		
irregular.			KEQ	6.888	43.54 Com.; phones Califor-
KKW	13.776	21.77 Com.; phones irregu-	nia nights.		
larly.			KDK-KKH	7.518	39.89 Com.; phones KWO 9
KWU	15.344	19.54 Com.; phones Hawaii	p. m. to 2 a. m.		
2 till 7 p. m.			KIO	11.690	25.65 Com.; phones KES 2
KWO	15.410	19.46 Com.; phones Hawaii	to 8 p. m., irregularly (11670 kc.?)		
2 to 7 p. m.			KKP	16.024	18.71 Com.; phones KWO 2
<b>Fresno</b>			to 7 p. m.		
KGZA	2.415	124.17 P. S.	<b>Boise—IDAHO</b>		
KGT	3.178	94.30 U. A. S.	KRA	3.170	94.58 B. A. T.
<b>Los Angeles</b>			KRA	5.600	53.54 B. A. T.
KGFL	1.710	175.23 P. S. (1712 kcys.?).			
KSI	3.100	96.72 T. A. T.			
KSI	5.560	53.92 T. A. T.			

# WPAD INDEX BY CALL LETTERS AND TUESDAY TIME KETF

- WPAD** 1420 Paducah, Ky., *CST*.  
7-9:30 a.m.; 11 a.m.-2 p.m.;  
4-10:30 p.m.
- WPAP** 1010 New York City, *EST*.  
11 p.m.-1 a.m.
- WPAW** 1210 Providence, R. I., *EST*.  
9 a.m.-1:45 p.m.; 3 p.m.-mid.
- WPCC** 560 Chicago, Ill.  
Silent.
- WPCB** 810 New York City, *EST*.  
8 a.m.-sunset.
- WPEN** 1500 Philadelphia, Pa., *EST*.  
7:30 a.m.-10:30 p.m.
- WPFB** 1370 Hattiesburg, Miss., *CST*.  
7 a.m.-2 p.m.; 4-9 p.m.
- WPG** 1100 Atlantic City, N. J., *EST*.  
8:15 a.m.-6 p.m.; 8 p.m.-1 a.m.  
next day.
- WPHR** 1200 Petersburg, Va., *EST*.  
7-11 a.m.; noon-5 p.m.; 6-9 p.m.
- WPOR** 780 Norfolk, Va.
- WPRO** 1210 Providence, R. I., *EST*.  
9 a.m.-1:45 p.m.; 3 p.m.-mid.
- WPSC** 1230 State College, Pa., *EST*.  
11:45 a.m.-12:15 p.m.; 4-5:30
- WPTF** 680 Raleigh, N. C., *EST*.  
6:45 a.m.-8 p.m.
- WQAM** 560 Miami, Fla., *EST*.  
7 a.m.-mid.
- WQAN** 880 Scranton, Pa., *EST*.  
12:30-1:30 p.m.; 4:30-5:30 p.m.;  
8-11 p.m.
- WQAO** 1010 New York City.  
Silent.
- WQBC** 1360 Vicksburg, Miss., *CST*.  
7:30 a.m.-2:30 p.m.; 5-10 p.m.
- WQDM** 1370 St. Albans, Vt., *EST*.  
8-9 a.m.; 11 a.m.-2 p.m.
- WQDX** 1210 Thomasville, Ga.
- WRAC** 1370 Williamsport, Pa., *EST*.  
8:30 a.m.-2:30 p.m.; 4:30-10:30
- WRAM** 1370 Wilmington, N. C., *EST*.  
7:30 a.m.-3 p.m.; 6:30-11 p.m.
- WRAY** 1310 Reading, Pa., *EST*.  
7-9:30 a.m.; 6 p.m.-mid.
- WRAX** 1020 Philadelphia, Pa., *EST*.  
7 a.m.-sunset.
- WRBL** 1200 Columbus, Ga., *CST*.  
7 a.m.-9 p.m.
- WRBX** 1410 Roanoke, Va., *EST*.  
9 a.m.-noon; 3-6 p.m.; 8 p.m.-1
- WRC** 950 Washington, D. C., *EST*.  
6:45 a.m.-1 a.m. next day.
- WRDO** 1370 Augusta, Maine, *EST*.  
7-9:30 p.m.; 10:30 a.m.-1:30  
p.m.; 3:30-10 p.m.
- WRDW** 1500 Augusta, Ga., *EST*.  
8 a.m.-2 p.m.; 5-11 p.m.
- WREC** 800 Memphis, Tenn.
- WREN** 1220 Lawrence, Kans., *CST*.  
7 a.m.-mid.
- WRHM** 1250 Minneapolis, Minn.,  
*CST*.  
6:15-9:45 a.m.; 10:35 a.m.-3  
p.m.; 9 p.m.-1 a.m.
- WRJN** 1370 Racine, Wis., *CST*.  
8 a.m.-10:30 p.m.
- WRNY** 1010 New York City.
- WROL** 1310 Knoxville, Tenn., *CST*.  
7 a.m.-10 p.m.
- WRR** 1280 Dallas, Texas, *CST*.  
6:30 a.m.-11 p.m.
- WRUF** 830 Gainesville, Fla., *EST*.  
8 a.m.-6:45 p.m.
- WRVA** 1110 Richmond, Va., *EST*.  
7 a.m.-3 p.m.; 4:15 p.m.-mid.
- WSAI** 1330 Cincinnati, Ohio, *EST*.  
8 a.m.-11 p.m.
- WSAJ** 1310 Grove City, Pa.  
Silent.
- WSAN** 1440 Allentown, Pa., *EST*.  
5 p.m.-mid.
- WSAR** 1450 Fall River, Mass., *EST*.  
8 a.m.-3:30 p.m.; 5-10 p.m.
- WSAZ** 580 Huntington, W. Va.,  
*EST*.  
6-9 a.m.; noon-2 p.m.; 4-8:30
- WSB** 740 Atlanta, Ga., *CST*.  
7 a.m.-mid.
- WSBC** 1210 Chicago, Ill.
- WSBT** 1230 South Bend, Ind., *CST*.  
6-7:30 a.m.; 10:15 a.m.-noon;  
3-5:30 p.m.
- WSEN** 1210 Columbus, Ohio, *EST*.  
8 a.m.-11 p.m.
- WSFA** 1410 Montgomery, Ala., *CST*.  
6:30 a.m.-sunset; 9-11 p.m.
- WSIX** 1210 Springfield, Tenn., *CST*.  
6 a.m.-3 p.m.; 6-9 p.m.
- WSJS** 1310 Winston-Salem, N. C.,  
*EST*.  
8 a.m.-mid.
- WSM** 650 Nashville, Tenn., *CST*.  
6:30 a.m.-mid.
- WSMB** 1320 New Orleans, La., *CST*.  
7 a.m.-mid.
- WSMK** 1380 Dayton, Ohio, *EST*.  
7 a.m.-8 p.m.; 10 p.m.-mid.
- WSOC** 1210 Gastonia, N. C., *EST*  
8 a.m.-10 p.m.
- WSPA** 1420 Spartanburg, S.C., *EST*.  
7:30 a.m.-11 p.m.
- WSPD** 1340 Toledo, Ohio, *EST*.  
7:30 a.m.-mid.
- WSUI** 880 Iowa City, Iowa, *CST*.  
9 a.m.-10; 11-12:30; 2-4; 6-10  
p.m.; mid-4 a.m.
- WSUN** 620 St. Petersburg, Fla., *EST*.  
7:15 a.m.-mid.
- WSVS** 1370 Buffalo, N. Y., *EST*.  
8:30 a.m.-10 a.m.; 2-3 p.m.
- WSYB** 1500 Rutland, Vt., *EST*.  
10 a.m.-1 p.m.; 5-9 p.m.
- WSYR** 570 Syracuse, N. Y., *EST*.  
7 a.m.-3 p.m.; 4-11 p.m.
- WTAD** 1440 Quincy, Ill., *CST*.  
9:30 a.m.-1 p.m.; 2:30-8 p.m.
- WTAG** 980 Worcester, Mass., *EST*.  
8 a.m.-11:15 p.m.
- WTAM** 1070 Cleveland, Ohio, *EST*.  
6:30 a.m.-1 a.m. next day.
- WTAQ** 1330 Eau Claire, Wis., *CST*.  
7 a.m.-8 p.m.
- WTAR** 780 Norfolk, Va., *EST*.  
7 a.m.-mid.
- WTAW** 1120 College Station, Texas.  
Silent.
- WTAX** 1210 Springfield, Ill.
- WTBO** 1420 Cumberland, Md., *EST*.  
7 a.m.-1:30 p.m.; 2:30-8 p.m.
- WTCL** 1310 Philadelphia, Pa., *EST*.  
7 a.m.-9; 11-1 p.m.; 5-8:30 p.m.
- WTFI** 1450 Athens, Ga., *EST*.  
8 a.m.-4 p.m.; 6-10 p.m.
- WTIC** 1060 Hartford, Conn., *EST*  
7 a.m.-4 p.m.
- WTJS** 1310 Jackson, Tenn., *CST*.  
7 a.m.-1 p.m.; 3-9 p.m.
- WTMJ** 620 Milwaukee, Wis., *CST*.  
6:45 a.m.-mid.
- WTOC** 1260 Savannah, Ga., *EST*.  
7 a.m.-mid.
- WTRC** 1310 Elkhart, Ind., *CST*.  
7:30 a.m.-7 p.m.
- WTSL** 1310 Laurel, Miss.
- WWAE** 1200 Hammond, Ind., *CST*.  
7 a.m.-8:30; 11-11 pm.; 4-9  
9-11:30 p.m.
- WWJ** 920 Detroit, Mich., *EST*.  
7:30 a.m.-mid.
- WWL** 850 New Orleans, La., *CST*.  
8 a.m.-8:30 p.m.
- WWNC** 570 Asheville, N. C., *CST*.  
7 a.m.-mid.
- WWRL** 1500 Woodside, N. Y., *EST*.  
8-9 a.m.; 11 a.m.-noon; 1-2 p.m.;  
6-8 p.m.
- WWSW** 1500 Pittsburgh, Pa., *EST*.  
8 a.m.-1:30 p.m.; 3-11:30 p.m.
- WWVA** 1160 Wheeling, W. Va., *EST*.  
7:30 a.m.-9 p.m.
- WXYZ** 1240 Detroit, Mich., *EST*.  
7:30 a.m.-mid.
- XEA** 1155 Guadalajara, Mex., *CST*.  
11 a.m.-noon; 2-3 p.m.; 5-11
- XEB** 1030 Mexico City, Mex., *CST*.  
8 a.m.-mid.
- XEC** 1000 Toluca, Mex.
- XED** 965 Reynosa, Mex.
- XEE** 1000 Oaxaca, Mex.
- XEF** 735 Villa Acuna, Mex.,  
24 hours daily.
- XEFA** 1250 Mexico City, Mex.
- XEFB** 1315 Monterrey, Mex., *CST*.  
11 a.m.-2 p.m.; 6-10 p.m.
- XEFC** 1050 Merida, Mex.
- XEFD** 1020 Tijuana, Mex.
- XEFE** 1000 Laredo, Mex.
- XEFI** 1000 Chihuahua, Mex.
- XEFO** 940 Mexico City, Mex., *CST*.  
2-3 p.m.; 7-11 p.m.
- XEFS** 1000 Queretaro, Mex., *CST*.  
7:30-10:30 p.m.
- XEFZ** 1370 Coyoacan, Mex., *CST*.  
8-11 p.m.-
- XEG** 1070 Mexico City, Mex.
- XEH** 1132 Monterrey, Mex., *CST*.  
9 a.m.-1:30 p.m.; 6-mid.
- XEI** 1310 Morelia, Mex., *CST*.  
2-3:30 p.m.; 8:30-10 p.m.
- XEJ** 1000 Juarez, Mex., *CST*.  
11 a.m.-4 p.m.; 6-11 p.m.
- XEK** 990 Mexico City, Mex.
- XEL** 1000 Saltillo, Mex., *CST*.  
11 a.m.-1 p.m.; 6-9 p.m.
- XEM** 1300 Tampico, Mex.
- XEN** 711 Mexico City, Mex., *CST*.  
10 a.m.-noon; 2-4 p.m.; 7-11
- XENT** 1115 Neuvo Laredo, Mex.
- XEP** 1400 Laredo, Mex.
- XEQ** 750 Juarez, Mex., *MST*.  
9 a.m.-2 p.m.; 5-11 p.m.
- XER** 735 Villa Acuna, Mex.  
24 hours daily
- XES** 1055 Tampico, Mex., *CST*.  
9-10:30 a.m.; noon-2 p.m.; 7:15-  
10 p.m.
- XET** 690 Monterrey, Mex., *CST*.  
9 a.m.-2 p.m.; 6-10 p.m.
- XETA** 1140 Mexico City, Mex.
- XETB** 1380 Torreon, Mex.
- XETC** 1000 Jalapa, Mex.
- XETF** 630 Veracruz, Mex., *CST*.  
7-8 a.m.; noon-2 p.m.; 7 p.m.  
mid.

<b>WJAX</b> 900 Jacksonville, Fla., <i>EST.</i> 7 a.m.-11 p.m.	<b>WLAP</b> 1200 Louisville, Ky., <i>CST.</i> 6:30 a.m.-11 p.m.	<b>WMSG</b> Noon-5 p.m. 1350 New York City, <i>EST.</i> Noon-3 p.m.
<b>WJAY</b> 610 Cleveland, Ohio, <i>EST.</i> 6 a.m.-6:45 p.m.	<b>WLB</b> 1250 Minneapolis, Minn., <i>CST.</i>	<b>WMT</b> 600 Waterloo, Iowa, <i>CST.</i> 7 a.m.-11 p.m.
<b>WJBC</b> 1200 LaSalle, Ill., <i>CST.</i> 8-9 a.m.; 10 a.m.-12:30 p.m.; 3:30-6:30 p.m.	<b>WLBC</b> 8-9 p.m. 1310 Muncie, Ind., <i>CST.</i>	<b>WNAK</b> 1230 Boston, Mass., <i>EST.</i> 8 a.m.-11 a.m. next day.
<b>WJBI</b> 1210 Red Bank, N. J., <i>EST.</i> 5-7 p.m.	<b>WLBK</b> 1420 Kansas City, Kans., <i>CST.</i>	<b>WNAD</b> 1010 Norman, Okla. 7:15-9:15 p.m.
<b>WJBK</b> 1370 Detroit, Mich., <i>EST.</i> 7 a.m.-11 p.m.	<b>WLBW</b> 7 a.m.-11 p.m. 900 Stevens Point, Wis., <i>CST.</i>	<b>WNAJ</b> 570 Yankton, S. D., <i>CST.</i> 6 a.m.-mid.
<b>WJBL</b> 1200 Decatur, Ill., <i>CST.</i> 6:30-8 a.m.; 9-10 p.m.; 12:30-3 p.m.; 6:30 p.m.-mid.	<b>WLBL</b> 8 a.m.-3:30 p.m. 1260 Erie, Pa., <i>EST.</i>	<b>WNBK</b> 1500 Binghamton, N. Y., <i>EST.</i> 7 a.m.-10 p.m.
<b>WJBO</b> 1420 New Orleans, La.	<b>WLBW</b> 8 a.m.-11 p.m. 820 Bangor, Maine, <i>EST.</i>	<b>WNBH</b> 1310 New Bedford, Mass., <i>EST.</i>
<b>WJBU</b> 1210 Lewisburg, Pa., <i>EST.</i> Noon-2 p.m.; 4-6 p.m.	<b>WLBZ</b> 8:30 a.m.-mid. 1370 Lexington, Mass., <i>EST.</i>	<b>WNBO</b> 8:30 a.m.-1:10 p.m.; 3-11 p.m. 1200 Washington, Pa., <i>EST.</i>
<b>WJBW</b> 1200 New Orleans, La., <i>CST.</i> 8 a.m.-noon; 4-8 p.m.	<b>WLEY</b> Noon-3 p.m.; 6-9 p.m. 560 Philadelphia, Pa., <i>EST.</i>	<b>WNBR</b> 1430 Memphis, Tenn., <i>CST.</i> 7:30 a.m.-12:30 p.m.; 3-10:15
<b>WJBY</b> 1210 Gadsden, Ala., <i>CST.</i> 6 a.m.-12:10 next day.	<b>WLIT</b> 9-9:45 a.m.; 11 a.m.-1 p.m.; 2-3 p.m.; 4:30-6 p.m.	<b>WNBW</b> 1200 Carbondale, Pa.
<b>WJDX</b> 1270 Jackson, Miss., <i>CST.</i> 6:15-10 a.m.; 11:30 a.m.-10 p.m.	<b>WLOE</b> 1500 Boston, Mass., <i>EST.</i> 10 a.m.-1:30 p.m.; 4:30-10 p.m.	<b>WNBX</b> 1260 Springfield, Vt., <i>EST.</i> 6 a.m.-sunset.
<b>WJEG</b> 1270 Hagerstown, Md.	<b>WLS</b> 6:10-15 a.m.; 11:45 a.m.-3:30 p.m.; 7-8:30 p.m.	<b>WNBZ</b> 1290 Saranac Lake, N. Y.
<b>WJEQ</b> 1210 Williamsport, Pa.	<b>WLTH</b> 1400 Brooklyn, N. Y., <i>EST.</i> 11:30 a.m.-1:30 p.m.; 7:30-9	<b>WNJ</b> 1450 Newark, N. J., <i>EST.</i> 10 a.m.-noon; 9 p.m.-mid.
<b>WJJD</b> 1130 Chicago, Ill., <i>CST.</i> 6 a.m.-8:30 p.m.	<b>WLVA</b> 8-11 a.m.; 1-6 p.m. 700 Cincinnati, Ohio, <i>EST.</i>	<b>WNOX</b> 560 Knoxville, Tenn., <i>CST.</i> 6:45 a.m.-11 p.m.
<b>WJKS</b> 1360 Gary, Ind., <i>CST.</i> 12:30-6:15 p.m.; 8:30 p.m.-mid.	<b>WLW</b> 6:30 a.m.-1 a.m. next day. 1100 New York City.	<b>WNYC</b> 570 New York City, <i>EST.</i> 11 a.m.-noon; 6-9:30 p.m.
<b>WJMS</b> 1420 Ironwood, Mich., <i>CST.</i> 7 a.m.-2:30 p.m.; 4:30 p.m.-sun- set.	<b>WLWL</b> 6-8 p.m. 570 Syracuse, N. Y.	<b>WOAI</b> 1190 San Antonio, Tex., <i>CST.</i> 6:30-9:45 a.m.; 11:15 a.m.-3 p.m.; 4:45-10:45 p.m.
<b>WJR</b> 750 Detroit, Mich., <i>EST.</i> 6:00 a.m.-1 a.m. next day.	<b>WMAC</b> 630 Washington, D. C., <i>EST.</i> 8 a.m.-mid.	<b>WOAX</b> 1280 Trenton, N. J., <i>EST.</i> Noon-2 p.m.
<b>WJSV</b> 1460 Washington, D. C., <i>EST.</i> 7:30 a.m.-1 a.m. next day.	<b>WMAQ</b> 670 Chicago, Ill., <i>CST.</i> 7 a.m.-1 a.m. next day.	<b>WOBU</b> 580 Charleston, W. Va., <i>EST.</i> 9 a.m.-noon; 2-4 p.m.; 8:30 p.m.- mid.
<b>WJTL</b> 1370 Atlanta, Ga., <i>CST.</i> 6:45 a.m.-mid.	<b>WMAS</b> 7:45 a.m.-mid. 1180 Macon, Ga., <i>EST.</i>	<b>WOC</b> 1000 Davenport, Iowa, <i>CST.</i> 7 a.m.-11 p.m.
<b>WJW</b> 1210 Akron, Ohio, <i>EST.</i> 8 a.m.-10 p.m.	<b>WMBA</b> 1420 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid.	<b>WOCL</b> 1210 Jamestown, N. Y., <i>EST.</i> Noon-mid.
<b>WJZ</b> 760 New York City, <i>EST.</i> 7:30 a.m.-1 a.m. next day.	<b>WMBD</b> 1440 Peoria, Ill., <i>CST.</i> 6-9:30 a.m.; 1-2:30 p.m.; 8 p.m.- mid.	<b>WODA</b> 1250 Paterson, N. J.
<b>WKAQ</b> 1240 San Juan, P. R., <i>AST.</i> 2:30-4:30 p.m.; 6:30-10 p.m.	<b>WMBG</b> 1210 Richmond, Va., <i>EST.</i> 7:30 a.m.-1:30 p.m.; 5-11 p.m.	<b>WODX</b> 1410 Mobile, Ala., <i>CST.</i> 9 a.m.-4 p.m.; 5:30-9 p.m.
<b>WKAR</b> 1040 E. Lansing, Mich., <i>CST.</i> Noon-12:30 p.m.	<b>WMBH</b> 1420 Joplin, Mo., <i>CST.</i>	<b>WOI</b> 640 Ames, Iowa, <i>CST.</i> 6:30 a.m.-1:30 p.m.
<b>WKAJ</b> 1310 Laconia, N. H., <i>EST.</i> 9 a.m.-1 p.m.; 3-8 p.m.	<b>WMBI</b> Noon-2 p.m.; 6-9:30 p.m. 1080 Chicago, Ill., <i>CST.</i>	<b>WOKO</b> 1430 Albany, N. Y., <i>EST.</i> 9 a.m.-1 a.m. next day.
<b>WKBB</b> 1310 Joliet, Ill., <i>CST.</i> 8-11 a.m.; noon-3 p.m.; 8 p.m.- mid.	<b>WMBK</b> 10:30-11:30 a.m.; 10:30-11:30 a.m.; noon-1:30 p.m.; 3-4:30 p.m.; 5:30-8 p.m.	<b>WOL</b> 1310 Washington, D. C., <i>EST.</i> 7 a.m.-1 p.m.; 3-9 p.m.
<b>WKBC</b> 1310 Birmingham, Ala.	<b>WMBL</b> 1500 Brooklyn, N. Y., <i>EST.</i> 2-6 p.m.	<b>WOMT</b> 1210 Manitowoc, Wis., <i>CST.</i> 7 a.m.-9 p.m.
<b>WKBF</b> 1400 Indianapolis, Ind., <i>CST.</i> 6:30 a.m.-1:15 p.m.; 4:15-11	<b>WMBM</b> 890 Fairmont, W. Va., <i>EST.</i> 7 a.m.-9 p.m.	<b>WOOD</b> 1270 Gd. Rapids, Mich., <i>CST.</i> 7 a.m.-mid.
<b>WKBH</b> 1380 LaCrosse, Wis., <i>CST.</i> 7:30 a.m.-10 p.m.	<b>WMBP</b> 1500 Brooklyn, N. Y., <i>EST.</i> 9-11 a.m.; 8-10 p.m.	<b>WOPI</b> 1500 Bristol, Tenn., <i>EST.</i> 7 a.m.-2 p.m.; 4-9 p.m.
<b>WKBI</b> 1420 Cicero, Ill., <i>CST.</i> 1:30-4 p.m.; 9-11 p.m.	<b>WMBR</b> 1370 Tampa, Fla., <i>EST.</i> 6:45 a.m.-10 p.m.	<b>WORO</b> 1300 Kansas City, Mo., <i>CST.</i> 6-7 a.m.; 8:35-9:05 a.m.; 11- 11:30 a.m.; 2-3 p.m.; 11-mid.
<b>WKBN</b> 570 Youngstown, Ohio, <i>EST.</i> 7-9 a.m.; 11 a.m.-1 p.m.; 3-mid.	<b>WMC</b> 780 Memphis, Tenn., <i>CST.</i> 7 a.m.-11 p.m.	<b>WORJ</b> 710 Newark, N. J., <i>EST.</i> 6:45 a.m.-mid.
<b>WKBS</b> 1310 Galesburg, Ill.	<b>WMCB</b> 570 New York City, <i>EST.</i> 8-11 a.m.; noon-6 p.m.; 9:30	<b>WORC</b> 1200 Worcester, Mass., <i>EST.</i> 8 a.m.-mid.
<b>WKBV</b> 1500 Connorsville, Ind., <i>CST.</i> 10 a.m.-noon; 6-10 p.m.	<b>WMCA</b> 8-11 a.m.; noon-6 p.m.; 9:30	<b>WORK</b> 1000 York, Pa., <i>EST.</i> 7:55 a.m.-sunset.
<b>WKBW</b> 1480 Buffalo, N. Y., <i>EST.</i> 9:15 a.m.-1 a.m. next day.	<b>WMCL</b> 1500 Brooklyn, N. Y., <i>EST.</i> 2-6 p.m.	<b>WOS</b> 630 Jefferson City, Mo., <i>CST.</i>
<b>WKBZ</b> 1500 Ludington, Mich., <i>CST.</i> 9 a.m.-9:30 p.m.	<b>WMCN</b> 7 a.m.-9 p.m.	<b>WOV</b> 9 a.m.-4 p.m. 1130 New York City, <i>EST.</i>
<b>WKFI</b> 1210 Greenville, Miss., <i>CST.</i> 7 a.m.-2 p.m.; 4-9 p.m.	<b>WMCP</b> 1500 Lapeer, Mich., <i>EST.</i> 10 a.m.-2 p.m.; 3:30-6 p.m.; 7-10:30 p.m.	<b>WOW</b> 590 Omaha, Neb., <i>CST.</i> 6:15-10 a.m.; 10:45 a.m.-3:30 p.m.; 4-9 p.m.; 10-11:30 p.m.
<b>WKJC</b> 1200 Lancaster, Pa., <i>EST.</i> 11 a.m.-3 p.m.; 6-8 p.m.	<b>WMRJ</b> 1210 Jamaica, N. Y., <i>EST.</i>	<b>WOWO</b> 1160 Fort Wayne, Ind., <i>CST.</i> 7:30 a.m.-7:45 p.m.; 9:15 p.m.- mid.
<b>WKRC</b> 550 Cincinnati, Ohio, <i>EST.</i> 6:45 a.m.-mid.		
<b>WKY</b> 900 Oklahoma City, Okla., <i>CST.</i> 6:30 a.m.-11:30 p.m.		
<b>WKZO</b> 590 Kalamazoo, Mich., <i>CST.</i> 6:30 a.m.-8:15 p.m.		
<b>WLAC</b> 1470 Nashville, Tenn., <i>CST.</i>		

<b>WDEL</b> 1120 Wilmington, Del., <i>EST</i> 9 a.m.-10 p.m.	<b>WFBM</b> 1230 Indianapolis, Ind., <i>CST.</i> 7:30-10:15 a.m.; noon-3 p.m.; 5:30 p.m.-mid.	<b>WBHU</b> 1310 Anderson, Ind., <i>CST.</i> 7 a.m.-1 p.m.; 3-9:15 p.m.
<b>WDEW</b> 550 Waterbury, Vt., <i>EST.</i> 9:30-11 a.m.; noon-2 p.m.	<b>WFBR</b> 1270 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	<b>WHBY</b> 1200 Green Bay, Wis., <i>CST.</i> 7 a.m.-10 p.m.
<b>WDGY</b> 1180 Minneapolis, Minn., <i>CST.</i> 6:30 a.m.-8:15 p.m.	<b>WDFD</b> 1310 Flint, Mich., <i>CST.</i> 7 a.m.-11 p.m.	<b>WHDF</b> 1370 Calumet, Mich., <i>CST.</i> 9-9:45 a.m.; noon-1 p.m.; 4:40-7 8:30 Boston, Mass., <i>EST.</i>
<b>WDDD</b> 1280 Chattanooga, Tenn., <i>CST.</i> 7:30 a.m.-11 p.m.	<b>WFDV</b> 1500 Rome, Ga., <i>CST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	<b>WHDH</b> 830 a.m.-12:45 p.m.; 2:45-7:15 <i>EST.</i>
<b>WDRC</b> 1330 Hartford, Conn., <i>EST.</i> 8 a.m.-mid.	<b>WFEA</b> 1430 Manchester, N. H., <i>EST.</i> 9 a.m.-11 p.m.	<b>WHDL</b> 1420 Tupper Lake, N. Y., <i>EST.</i> 7:45 a.m.-1 p.m.; 3-7:45 p.m.
<b>WDSU</b> 1250 New Orleans, La., <i>CST.</i> 7 a.m.-11:45 p.m.	<b>WFI</b> 560 Philadelphia, Pa., <i>EST.</i> 6:45-9 a.m.; 9:45-11 p.m.; 1-2 p.m.; 3-4:30 p.m.; 6 p.m.-mid.	<b>WHEB</b> 740 Portsmouth, N. H., <i>EST.</i> 10 a.m.-sunset.
<b>WDZ</b> 1070 Tuscola, Ill., <i>CST.</i> 7 a.m.-4:30 p.m.	<b>WFIW</b> 940 Hopkinsville, Ky., <i>CST.</i> 6 a.m.-3 p.m.; 5 p.m.-mid.	<b>WHEC</b> 1430 Rochester, N. Y., <i>EST.</i> 8 a.m.-mid.
<b>WEAF</b> 660 New York City, <i>EST.</i> 6:45 a.m.-1 a.m. next day.	<b>WFLA</b> 620 Clearwater, Fla., <i>EST.</i> 7:15 a.m.-mid.	<b>WHEF</b> 1500 Kosciusko, Miss. 12:10 Troy, Ala., <i>CST.</i>
<b>WEAI</b> 1270 Ithaca, N. Y. Variable.	<b>WFOX</b> 1400 Brooklyn, N. Y., <i>EST.</i> 1:30-3:45 p.m.; 10:30-mid.	<b>WHET</b> 6-8 a.m.; 11 a.m.-5 p.m.
<b>WEAN</b> 780 Providence, R. I., <i>EST.</i> 7:30 a.m.-1 a.m. next day.	<b>WGAL</b> 1310 Lancaster, Pa., <i>EST.</i> 10 a.m.-noon; 1:30-6 p.m.	<b>WHFC</b> 1420 Cicero, Ill., <i>CST.</i> 7 a.m.-1:30 p.m.; 6-9 p.m.; 11 p.m.-1 a.m. next day.
<b>WEAO</b> 570 Columbus, Ohio, <i>EST.</i> 9-11 a.m.; 1-3 p.m.	<b>WGAR</b> 1450 Cleveland, Ohio, <i>EST.</i> 6 a.m.-1 a.m. next day.	<b>WHIS</b> 1410 Bluefield, W. Va., <i>EST.</i> 8-9 a.m.; noon-2 p.m.; 6-8 p.m.
<b>WEBC</b> 1290 Superior, Wis., <i>CST.</i> 7 a.m.-11 p.m.	<b>WGBB</b> 1210 Freeport, N. Y., <i>EST.</i> 7-9 p.m.	<b>WHK</b> 1390 Cleveland, Ohio, <i>EST.</i> 7 a.m.-mid.
<b>WEBQ</b> 1210 Harrisburg, Ill., <i>CST.</i> 6-9 a.m.; noon-4 p.m.; 7:30-9	<b>WGBF</b> 630 Evansville, Ind., <i>CST.</i> 6:30 a.m.-3 p.m.; 4-6:45 p.m.; 8-11 p.m.	<b>WHN</b> 1010 New York City, <i>EST.</i> 1:30-5:30 p.m.
<b>WEBR</b> 1310 Buffalo, N. Y., <i>EST.</i> 7 a.m.-2 a.m. next day.	<b>WGBI</b> 880 Scranton, Pa., <i>EST.</i> 9:30 a.m.-12:30 p.m.; 1:30-4:30 p.m.; 5:30-8 p.m.	<b>WHO</b> 1000 Des Moines, Iowa. <b>WHOM</b> 1450 Jersey City, N. J., <i>EST.</i> 8-10 a.m.; 3-9 p.m.
<b>WEDC</b> 1210 Chicago, Ill.	<b>WGCM</b> 1210 Gulfport, Miss., <i>CST.</i> 8 a.m.-2 p.m.; 3-9 p.m.	<b>WHP</b> 1430 Harrisburg, Pa., <i>EST.</i> 8:30-10:30 a.m.; 11:30 a.m.-1:30 p.m.; 2:30-4 p.m.; 4:30 p.m.- 1 a.m.
<b>WEEL</b> 590 Boston, Mass., <i>EST.</i> 6:45 a.m.-mid.	<b>WGCP</b> 1250 Newark, N. J., <i>EST.</i> 2-5 p.m.; 8-10 p.m.	<b>WIAS</b> 1310 Ottumwa, Iowa, <i>CST.</i> 7:30 a.m.-1:30 p.m.; 4-9 p.m.
<b>WEEU</b> 830 Reading, Pa., <i>EST.</i> 8 a.m.-8 p.m.	<b>WGES</b> 1360 Chicago, Ill., <i>CST.</i> 8 a.m.-12:30 p.m.; 6:15-8:30	<b>WIBA</b> 1280 Madison, Wis., <i>CST.</i> 6:30 a.m.-11:30 p.m.
<b>WEHC</b> 1350 Emory, Va., <i>EST.</i> 6-8 a.m.; 11 a.m.-2 p.m.; 4-7	<b>WGH</b> 1310 Newport News, Va., <i>EST.</i> 7 a.m.-2 p.m.; 5-11 p.m.	<b>WIBG</b> 530 Glenside, Pa., <i>EST.</i> Daybreak to sunset.
<b>WEHS</b> 1420 Cicero, Ill., <i>CST.</i> 4-6 p.m.	<b>WGL</b> 1370 Fort Wayne, Ind., <i>CST.</i> 6:15 a.m.-9:30 p.m.	<b>WIBM</b> 1370 Jackson, Mich., <i>CST.</i> 7:30 a.m.-8:15 p.m.; 11 p.m.- mid.
<b>WELL</b> 1420 Battle Creek, Mich.	<b>WGN</b> 720 Chicago, Ill., <i>CST.</i> 7:30 a.m.-1:30 a.m. next day.	<b>WIBO</b> 560 Chicago, Ill., <i>CST.</i> 6:30 a.m.-mid.
<b>WENC</b> 1420 Americus, Ga., <i>EST.</i> 7 a.m.-2 p.m.; 4 p.m.-sunset.	<b>WGR</b> 550 Buffalo, N. Y., <i>EST.</i> 7:30 a.m.-mid.	<b>WIBU</b> 1210 Poynette, Wis., <i>CST.</i> 9 a.m.-9 p.m.
<b>WENR</b> 870 Chicago, Ill., <i>CST.</i> 10:15-11:45 a.m.; 3:30-7 p.m.; 8:30 p.m.-1 a.m. next day.	<b>WGST</b> 890 Atlanta, Ga., <i>CST.</i> 7 a.m.-11 p.m.	<b>WIBW</b> 580 Topeka, Kans., <i>CST.</i> 6 a.m.-mid.
<b>WERE</b> 1420 Erie, Pa., <i>EST.</i> 8 a.m.-1:30 p.m.; 3:45-10:45	<b>WGY</b> 790 Schenectady, N. Y., <i>EST.</i> 6:45 a.m.-1 a.m. next day.	<b>WIBX</b> 1200 Utica, N. Y. <b>WICC</b> 600 Bridgeport, Conn., <i>EST.</i> 7:30 a.m.-mid.
<b>WESG</b> 1370 Glens Falls, N. Y.	<b>WHA</b> 940 Madison, Wis., <i>CST.</i> 8 a.m.-3:30 p.m.	<b>WIL</b> 1200 St. Louis, Mo., <i>CST.</i> 7:9:45 a.m.; 11:15 a.m.-9:30 a.m.-mid.
<b>WEVD</b> 1300 New York City, <i>EST.</i> 8-9 a.m.; 3-6 p.m.; 8-9 p.m.; 10-11 p.m.	<b>WHAD</b> 1120 Milwaukee, Wis., <i>CST.</i> 9:30-10:15 a.m.; 3-4 p.m.; 8:30- 9:30 p.m.	<b>WILL</b> 890 Urbana, Ill., <i>CST.</i> 10 a.m.-12:15 p.m.; 5-6 p.m.
<b>WEW</b> 760 St. Louis, Mo., <i>CST.</i> 8 a.m.-5 p.m.	<b>WHAM</b> 1150 Rochester, N. Y., <i>EST.</i> 7:45 a.m.-mid.	<b>WILM</b> 1420 Wilmington, Del., <i>EST.</i> 7:30 a.m.-2 p.m.; 4:30-10 p.m.
<b>WEXL</b> 1310 Royal Oak, Mich., <i>EST.</i> 8 a.m.-11 p.m.	<b>WHAS</b> 820 Louisville, Ky., <i>CST.</i> 7 a.m.-mid.	<b>WINS</b> 1180 New York City, <i>EST.</i> 7 a.m.-10:15 p.m.
<b>WFAA</b> 800 Dallas, Texas, <i>CST.</i> 6:45-8:30 a.m.; 10:30 a.m.-12:30 p.m.; 3-5 p.m.; 5:30-6 p.m.; 9-11:30 p.m.	<b>WHAT</b> 1310 Philadelphia, Pa., <i>EST.</i> 9 a.m.-noon; 1-2 p.m.; 8:30-mid.	<b>WIOD</b> 1300 Miami, Fla., <i>EST.</i> 7 a.m.-1 a.m. next day.
<b>WFAB</b> 1300 New York City	<b>WHAZ</b> 1300 Troy, N. Y., <i>EST.</i> Mid-1 a.m.	<b>WIP</b> 610 Philadelphia, Pa., <i>EST.</i> 9 a.m.-mid.
<b>WFAM</b> 1200 South Bend, Ind., <i>CST.</i> 7:30-10:15 a.m.; noon-3 p.m.; 5:30-8:30 p.m.	<b>WHB</b> 860 Kansas City, Mo., <i>CST.</i> 6 a.m.-sunset.	<b>WIS</b> 1010 Columbia, S. C., <i>EST.</i> 7 a.m.-1:30 p.m.; 5:30-11 p.m.
<b>WFAN</b> 610 Philadelphia, Pa., <i>EST.</i> 9 a.m.-mid.	<b>WHBC</b> 1200 Canton, Ohio, <i>EST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	<b>WISN</b> 1120 Milwaukee, Wis., <i>CST.</i> 7-9:30 a.m.; 10:15 a.m.-3 p.m.; 4-8:30 p.m.; 9:30 p.m.-mid.
<b>WFAS</b> 1210 White Plains, N. Y., <i>EST.</i> 9 a.m.-noon; 9 p.m.-mid.	<b>WHBD</b> 1370 Mt. Orab, Ohio, <i>EST.</i> 7-11 a.m.; noon-5 p.m.; 6-9 p.m.	<b>WJAC</b> 1310 Johnstown, Pa., <i>EST.</i> 8:30-10:30 a.m.; 4:30-7 p.m.
<b>WFBE</b> 1200 Cincinnati, Ohio, <i>EST.</i> 7 a.m.-11 p.m.	<b>WHBF</b> 1210 Rock Island, Ill., <i>CST.</i> 10 a.m.-3 p.m.; 5 p.m.-mid.	<b>WJAG</b> 1060 Norfolk, Neb., <i>CST.</i> 6 a.m.-sunset.
<b>WFBG</b> 1310 Altoona, Pa., 10:30 a.m.-4:30 p.m.; 7-10:30	<b>WHBL</b> 1410 Sheboygan, Wis., <i>CST.</i> 7-10 a.m.; 12:30-3 p.m.; 6-8 p.m.; 10 p.m.-mid.	<b>WJAR</b> 890 Providence, R. I., <i>EST.</i> 8 a.m.-mid.
<b>WFBL</b> 1360 Syracuse, N. Y., <i>EST.</i> 7:30 a.m.-mid.	<b>WHBQ</b> 1370 Memphis, Tenn., <i>CST.</i> 7:55 a.m.-10:30 p.m.	<b>WJAS</b> 1290 Pittsburgh, Pa., <i>EST.</i> 7:30 a.m.-11:30 p.m.

<b>KVL</b> 1370 Seattle, Wash.	<b>WAGO</b> 1240 Waco, Texas, <i>CST</i> .	<b>WCAH</b> 1430 Columbus, Ohio, <i>EST</i> .
<b>KVOA</b> 1260 Tucson, Ariz.	6-7 a.m.: 9-noon; 1:30-4 p.m.;	7:45 a.m.-mid.
6-9 a.m.; noon-3 p.m.; 6-9 p.m.	7-9 p.m.	<b>WCAJ</b> 590 Lincoln, Neb., <i>CST</i> .
<b>KVOO</b> 1140 Tulsa, Okla., <i>CST</i> .	<b>WADC</b> 1320 Akron, Ohio, <i>EST</i> .	10-10:45 a.m.; 3:30-4 p.m.; 9-10
7 a.m.-1:45 p.m.; 3-9 p.m.	8:30 a.m.-mid.	<b>WCAL</b> 1250 Northfield, Minn., <i>CST</i> .
<b>KVOR</b> 1270 Colorado Springs, Colo.,	<b>WAGM</b> 1420 Presque Isle, Me., <i>EST</i> .	9:45-10:15 a.m.
<i>MST</i> .	7 a.m.-1 p.m.; 3-9 p.m.	<b>WCAM</b> 1280 Camden, N. J., <i>EST</i> .
7 a.m.-10 p.m.	<b>WAIU</b> 640 Columbus, Ohio, <i>EST</i> .	2-5 p.m.
<b>KVOS</b> 1200 Bellingham, Wash.	7 a.m.-sunset.	<b>WCAO</b> 600 Baltimore, Md., <i>EST</i> .
<b>KWCR</b> 1420 Cedar Rapids, Ia., <i>CST</i> .	<b>WALR</b> 1210 Zanesville, Ohio, <i>EST</i> .	7 a.m.-mid.
6:30 a.m.-mid.	9 a.m.-10 p.m.	<b>WCAP</b> 1280 Asbury Park, N. J., <i>EST</i> .
<b>KWEA</b> 1210 Shreveport, La.	<b>WAMC</b> 1420 Anniston, Ala., <i>CST</i> .	9 a.m.-noon; 5-mid.
<b>KWKG</b> 1200 Stockton, Calif., <i>PST</i> .	7-10:30 a.m.; noon-9 p.m.	<b>WCAT</b> 1200 Rapid City, S. D., <i>CST</i> .
7 a.m.-mid.	<b>WAPI</b> 1140 Birmingham, Ala., <i>CST</i> .	12:30 p.m.-1:30 p.m.
<b>KWJJ</b> 1060 Portland, Ore.	6:30 a.m.-sunset; 9 p.m.-mid.	<b>WCAU</b> 1170 Philadelphia, Pa., <i>EST</i> .
<b>KWK</b> 1350 St. Louis, Mo., <i>CST</i> .	<b>WASH</b> 1270 Gd. Rapids, Mich., <i>CST</i> .	8 a.m.-1 a.m. next day.
6:55 a.m.-12:15 a.m. next day.	7 a.m.-mid.	<b>WCAX</b> 1200 Burlington, Vt., <i>EST</i> .
<b>KWKK</b> 1370 Kansas City, Mo.	<b>WAWZ</b> 1350 Zarephath, N. J., <i>EST</i> .	Noon-1 p.m.
<b>KWKH</b> 850 Shreveport, La., <i>CST</i> .	7:45-8:45 a.m.; noon-1:30 p.m.	<b>WCAZ</b> 1070 Carthage, Ill., <i>CST</i> .
8:30 p.m.-mid.	<b>WBAA</b> 1400 Lafayette, Ind., <i>CST</i> .	9:30 a.m.-3:30 p.m.
<b>KWLC</b> 1270 Decorah, Iowa, <i>CST</i> .	Silent.	<b>WCBA</b> 1440 Allentown, Pa., <i>EST</i> .
6:45-8 a.m.; 10:30-9:30 p.m.	<b>WBAK</b> 1430 Harrisburg, Pa., <i>EST</i> .	7:30 a.m.-1 p.m.
11:30 a.m.-12:30 p.m.	10:30-11:30 a.m.; 1:30-2:30	<b>WCBD</b> 1080 Zion, Ill., <i>CST</i> .
<b>KWSC</b> 1220 Pullman, Wash., <i>PST</i> .	p.m.; 4-4:30 p.m.	6-7 a.m.; 7:30-10:30 a.m.; 1:30-3
6:45-8 a.m.; 10:30-9:30 p.m.	<b>WBAL</b> 1060 Baltimore, Md., <i>EST</i> .	p.m.; 4:30-5:30 p.m.
<b>KXWG</b> 1260 Brownsville, Texas.	7 a.m.-mid.	<b>WCBM</b> 1370 Baltimore, Md., <i>EST</i> .
<b>KXWA</b> 750 Seattle, Wash., <i>PST</i> .	<b>WBAP</b> 800 Ft. Worth, Texas, <i>CST</i> .	7 a.m.-1:30 p.m.; 5-11 p.m.
7 a.m.-sundown; 9 p.m.-mid.	8:30-10:30 a.m.; 12:30-3 p.m.;	<b>WCBS</b> 1210 Springfield, Ill., <i>CST</i> .
<b>KXL</b> 1420 Portland, Ore., <i>PST</i>	4:30-5:30 p.m.; 6-9 p.m.	11:30 a.m.-3 p.m.; 6:45-9 p.m.
7 a.m.-mid.	<b>WBAX</b> 1210 Wilkes Barre, Pa., <i>EST</i> .	<b>WCCO</b> 810 Minneapolis, Minn.,
<b>KXO</b> 1500 El Centro, Calif.	7:30 a.m.-noon; 6-11 p.m.	<i>CST</i> .
<b>KXRO</b> 1310 Aberdeen, Wash., <i>PST</i> .	<b>WBBC</b> 1400 Brooklyn, N. Y., <i>EST</i> .	6:45 a.m.-mid.
7:30 a.m.-10 p.m.	7-11:30 a.m.; 6-7:30 p.m.	<b>WCDA</b> 1350 New York City, <i>EST</i> .
<b>KXYZ</b> 1440 Houston, Texas, <i>CST</i> .	<b>WBBL</b> 1210 Richmond, Va., <i>EST</i> .	6-7:30 a.m.; 9-noon; 6-9 p.m.
7-10 a.m.; 11 a.m.-1:15 p.m.;	Silent.	<b>WCFL</b> 970 Chicago, Ill., <i>CST</i> .
3:30-10:30 p.m.	<b>WBBM</b> 770 Chicago, Ill., <i>CST</i> .	6 a.m.-mid.
<b>KYA</b> 1230 San Francisco, Calif.,	6:45 a.m.-10 p.m.; 11:30 p.m.-	<b>WCGU</b> 1400 Brooklyn, N. Y., <i>EST</i> .
<i>PST</i> .	2 a.m.	3:45-6 p.m.; 9-10:30 p.m.
7:30 a.m.-mid.	<b>WBBR</b> 1300 Brooklyn, N. Y., <i>EST</i> .	<b>WCKY</b> 1490 Covington, Ky., <i>CST</i> .
<b>KYW</b> 1020 Chicago, Ill., <i>CST</i> .	10 a.m.-noon; 6-8 p.m.	Mid.-mid.
7 a.m.-1 a.m. next day.	<b>WBBZ</b> 1200 Ponca City, Okla., <i>CST</i> .	<b>WCLO</b> 1200 Janesville, Wis., <i>CST</i> .
<b>NAA</b> 690 Arlington, Va.	6 a.m.-10 p.m.	7:30 a.m.-3:30 p.m.; 5-9 p.m.
<b>RUS</b> 684 Salvadora.	<b>WBCM</b> 1410 Bay City, Mich., <i>CST</i> .	1310 Joliet, Ill., <i>CST</i> .
<b>TGW</b> 570 Guatemala.	8 a.m.-mid.	11 a.m.-noon; 3-8 p.m.
<b>TIGR</b> 911 San Jose, C. R.	<b>WBEN</b> 900 Buffalo, N. Y., <i>EST</i> .	<b>WCMA</b> 1400 Culver, Ind., <i>CST</i> .
<b>VAS</b> 685 Glace Bay, N. S., <i>AST</i> .	6:45 a.m.-1 a.m. next day.	6-6:30 a.m.; 1:15-4:15 p.m.; 11-
1-1:15 p.m.; mid.-12:15 a.m.	<b>WBEO</b> 1310 Marquette, Mich.	mid.
<b>VOAS</b> 810 St. Johns, N. F.	<b>WBHS</b> 1200 Huntsville, Ala., <i>CST</i> .	<b>WCOA</b> 1340 Pensacola, Fla., <i>CST</i>
11 a.m.-12:30 p.m.; 4-5:30 p.m.	8 a.m.-2 p.m.; 5-9:30 p.m.	9 a.m.-10:30 p.m.
(Zone 19)	<b>WBIG</b> 1440 Greensboro, N. C., <i>EST</i> .	<b>WCOC</b> 880 Meridian, Miss., <i>CST</i> .
<b>VOGT</b> 893 Wabana, N. F.	8 a.m.-3 p.m.; 5-11 p.m.	7:30 a.m.-2 p.m.; 5-11 p.m.
Silent.	<b>WBMS</b> 1450 Hackensack, N. J., <i>EST</i> .	1200 Harrisburg, Pa., <i>EST</i> .
<b>VONA</b> 950 St. Johns, N. F.	Noon-3 p.m.	8-11 a.m.; 3-6 p.m.; 8-11 p.m.
12:30-2 p.m.; 6:30-8 p.m.	<b>WBNX</b> 1350 New York City, <i>EST</i> .	<b>WCRW</b> 1210 Chicago, Ill., <i>CST</i> .
(Zone 19)	1:30-6 p.m.	7-8:30 a.m.; 11:30 a.m.-1:30
<b>VONF</b> 1115 St. Johns, N. F.	<b>WBOQ</b> 860 New York City.	p.m.; 6-7 p.m.; 9-10 p.m.
1-2 p.m.; 6:30-8 p.m. (Zone 19)	<b>WBOV</b> 1310 Terre Haute, Ind., <i>CST</i> .	<b>WCSC</b> 1360 Charleston, S. C., <i>EST</i> .
<b>VOWR</b> 750 St. Johns, N. F.	7 a.m.-2 p.m.; 4-11 p.m.	8 a.m.-3 p.m.; 6-11 p.m.
8:15-10 p.m. (Zone 19)	<b>WBRC</b> 950 Birmingham, Ala., <i>CST</i> .	<b>WCSH</b> 940 Portland, Maine, <i>EST</i> .
<b>VOX</b> 690 Halifax, N. S.	7 a.m.-11 p.m.	7:45 a.m.-1:30 p.m.; 2-11:15
<b>VPN</b> 610 Nassau, B. I.	<b>WBRE</b> 1310 Wilkes Barre, Pa.	<b>WDAE</b> 1220 Tampa, Fla., <i>EST</i> .
<b>WAAB</b> 1410 Boston, Mass., <i>EST</i> .	<b>WBSO</b> 920 Babson Park, Mass.,	8 a.m.-mid.
7:45 a.m.-mid.	<i>EST</i> .	<b>WDAF</b> 610 Kansas City, Mo., <i>CST</i> .
<b>WAAF</b> 920 Chicago, Ill., <i>CST</i> .	7 a.m.-5 p.m.	6:26 a.m.-mid.
6 a.m.-local sunset.	<b>WBT</b> 1080 Charlotte, N. C., <i>EST</i> .	<b>WDAG</b> 1410 Amarillo, Texas, <i>CST</i> .
<b>WAAM</b> 1250 Newark, N. J., <i>EST</i> .	7 a.m.-mid.	8-10 a.m.; 12:30-3 p.m.; 4:30-6
7-9 a.m.; 10 a.m.-noon; 2-4:30	<b>WBTM</b> 1370 Danville, Va., <i>EST</i> .	p.m.; 7:30-9 p.m.; 10 p.m.-
p.m.; 6-9 p.m.	11 a.m.-1 p.m.; 6-6:30 p.m.; 7-	mid.
<b>WAAT</b> 940 Jersey City, N. J., <i>EST</i> .	10:30 p.m.	<b>WDAH</b> 1310 El Paso, Texas.
6 a.m.-6 p.m.	<b>WBZ</b> 990 Boston, Mass., <i>EST</i> .	<b>WDAS</b> 1370 Philadelphia, Pa., <i>EST</i> .
<b>WAAW</b> 560 Omaha, Neb., <i>CST</i> .	7 a.m.-mid.	9 a.m.-10:30 p.m.
6 a.m.-6 p.m.	<b>WBZA</b> 990 Springfield, Mass., <i>EST</i> .	<b>WDAY</b> 940 Fargo, N. D., <i>CST</i> .
<b>WABC</b> 860 New York City, <i>EST</i> .	7 a.m.-mid.	6 a.m.-11 p.m.
7:30 a.m.-2 a.m. next day.	<b>WCAC</b> 600 Storrs, Conn., <i>EST</i> .	<b>WDBJ</b> 930 Roanoke, Va., <i>EST</i> .
<b>WABI</b> 1200 Bangor, Maine, <i>EST</i> .	12:30-1 p.m.; 7-8 p.m.	8 a.m.-mid.
6-9 a.m.; noon-3 p.m.; 6-9 p.m.	<b>WCAD</b> 1220 Canton, N. Y., <i>EST</i> .	<b>WDBO</b> 580 Orlando, Fla., <i>EST</i> .
<b>WABZ</b> 1200 New Orleans, La., <i>CST</i> .	12:30-1:20 p.m.	7 a.m.-mid.
Noon-4 p.m.; 8 p.m.-mid.	<b>WCAE</b> 1220 Pittsburgh, Pa., <i>EST</i> .	
	6:45 a.m.-mid.	

**KGHL** 950 Billings, Mont., *MST*.  
7:30 a.m.-4 p.m.; 5:30-11 p.m.

**KGIR** 1360 Butte, Mont., *MST*.  
7 a.m.-mid.

**KGIW** 1420 Trinidad, Colo.

**KGIX** 1420 Las Vegas, Nev., *PST*.  
6-9 a.m.; noon-3 p.m.; 6-9 p.m.

**KGIZ** 1500 Grant City, Mo., *CST*.  
7-11 a.m.; noon-5 p.m.; 6-9 p.m.

**KGKB** 1500 Tyler, Texas, *CST*.  
7 a.m.-2 p.m.; 4-10 p.m.

**KGKL** 1370 San Angelo, Texas, *CST*.  
8 a.m.-9:30 p.m.

**KGKO** 570 Wichita Falls, Texas.

**KGKX** 1420 Lewiston, Idaho.

**KGKY** 1500 Scottsbluff, Neb., *MST*.  
6:30 a.m.-2 p.m.; 4:30-9 p.m.

**KGMB** 1320 Honolulu, Hawaii.  
7-9 a.m.; 10:40 a.m.-11 p.m. (Zone 5)

**KGNF** 1430 North Platte, Neb., *MST*.  
7 a.m.-sunset.

**KGNO** 1210 Dodge City, Kans., *MST*.  
7:30 a.m.-3:30 p.m.; 5-9 p.m.

**KGQ** 790 San Francisco, Calif., *PST*.  
7 a.m.-12:30 a.m. next day.

**KGRS** 1410 Amarillo, Texas, *CST*.  
6-8 a.m.; 10 a.m.-12:30 p.m.; 3-4:30 p.m.; 6-7:30 p.m.; 9-10 p.m.

**KGU** 750 Honolulu, Hawaii (Zone 5).  
6:15 a.m.-11:15; noon-1; 4:45-11 p.m.

**KGVO** 1200 Missoula, Mont., *MST*.  
6 a.m.-mid.

**KGW** 620 Portland, Ore., *PST*.  
6:30 a.m.-mid.

**KGY** 1210 Olympia, Wash., *PST*.  
6 a.m.-6 p.m.

**KHJ** 900 Los Angeles, Calif., *PST*.  
7 a.m.-1 a.m. next day.

**KHQ** 590 Spokane, Wash., *PST*.  
7 a.m.-mid.

**KICA** 1370 Clovis, N. M.

**KICK** 1420 Red Oak, Iowa.

**KID.** 1320 Idaho Falls, Idaho, *MST*.  
9 a.m.-mid.

**KIDO** 1350 Boise, Idaho, *MST*.  
7 a.m.-10 p.m.

**KIDW** 1420 Lamar, Colo., *MST*.  
6 a.m.-8 a.m.; 2-6 p.m.; 8-10 p.m.

**KIT** 1310 Yakima, Wash., *PST*.  
7 a.m.-11 p.m.

**KJBS** 1070 San Francisco, Calif., *PST*.  
Mid. to local sunset.

**KJR** 970 Seattle, Wash., *PST*.  
7 a.m.-mid.

**KLCN** 1290 Blytheville, Ark.

**KLO** 1400 Salt Lake City, Utah, *MST*.  
8:30 a.m.-10:30 p.m.

**KLPM** 1420 Minot, N. D., *CST*.  
7 a.m.-1 p.m.; 6-7:45 p.m.; 10-11:30 p.m.

**KLRA** 1390 Little Rock, Ark., *CST*.  
8-11 a.m.; 1-5 p.m.; 6:30-11 p.m.

**KLS.** 1440 Oakland, Calif., *PST*.  
8:30 a.m.-7:30 p.m.

**KLX** 880 Oakland, Calif., *PST*.  
7 a.m.-11 p.m.

**KLZ** 560 Denver, Colo., *MST*.  
6:30 a.m.-11:30 p.m.

**KMA** 930 Shenandoah, Iowa, *CST*.  
6-7:30 a.m.; 9:30-11 a.m.; 12:30-2 p.m.; 3:30-5 p.m.; 6:30-8:30 p.m.

**KMAC** 1370 San Antonio, Tex., *CST*.  
7-8:30 a.m.; 10-11 a.m.; noon-1:30 p.m.; 4-6 p.m.; 7-8 p.m.; 10 p.m.-mid.

**KMBC** 950 Kansas City, Mo., *CST*.  
6:15 a.m.-mid.

**KMED** 1310 Medford, Ore., *PST*.  
8 a.m.-9:30 p.m.

**KMJ** 580 Fresno, Calif., *PST*.  
7 a.m.-mid.

**KMLB** 1200 Monroe, La., *CST*.  
7 a.m.-10 p.m.

**KMMJ** 740 Clay Center, Neb., *CST*.  
5:45 a.m.-sunset.

**KMO** 1330 Tacoma, Wash., *PST*.  
6:30 a.m.-11 p.m.

**KMOX** 1090 St. Louis, Mo., *CST*.  
6:45 a.m.-12:45 a.m. next day.

**KMPK** 710 Beverly Hills, Calif.

**KMPR** 570 Hollywood, Calif., *PST*.  
6:30 a.m.-mid.

**KNOW** 1500 Austin, Texas, *CST*.  
7:30 a.m.-1 p.m.; 5-11, p.m.

**KNX** 1050 Hollywood, Calif., *PST*.  
6:30 a.m.-1 a.m. next day.

**KOA** 830 Denver, Colo., *MST*.  
7 a.m.-mid.

**KOAC** 550 Corvallis, Ore., *PST*.  
6:30 a.m.-4 p.m.; 6-8:30 p.m.

**KOB** 1180 Albuquerque, N. M., *MST*.  
7 a.m.-9 p.m.

**KOCW** 1300 Chickasha, Okla.

**KOH** 1380 Reno, Nev., *PST*.  
8 a.m.-9 p.m.

**KOIL** 1260 Council Bluffs, Ia., *CST*.  
6 a.m.-1 a.m. next day.

**KOIN** 940 Portland, Ore., *PST*.  
6 a.m.-1 a.m. next day.

**KOL** 1270 Seattle, Wash., *PST*.  
6:45 a.m.-mid.

**KOMA** 1480 Oklahoma City, Okla.,  
7 a.m.-11 p.m., *CST*

**KOMO** 920 Seattle, Wash., *PST*.  
6:55 a.m.-12:30 a.m. next day.

**KONO** 1370 San Antonio, Tex., *CST*.  
8:30-10 a.m.; 11 a.m.-noon;  
1:30-4 p.m.; 6-7 p.m.; 8-10 p.m.

**KOOS** 1370 Marshfield, Ore., *PST*.  
9 a.m.-9 p.m.

**KORE** 1420 Eugene, Ore., *PST*.  
7:45 a.m.-8:30 p.m.

**KOY** 1390 Phoenix, Ariz., *MST*.  
7 a.m.-10 p.m.

**KPCB** 650 Seattle, Wash., *PST*.  
5:30 a.m.-8 p.m.; 10 p.m.-4 a.m. next day.

**KPJM** 1500 Prescott, Ariz.

**KPO** 680 San Francisco, Calif., *PST*.  
7:30 a.m.-mid.

**KPOF** 880 Denver, Colo., *MST*.  
7:30-9 a.m.; 2:30-4:30 p.m.; 6-8 p.m.

**KPPC** 1210 Pasadena, Calif. Silent.

**KPQ** 1500 Wenatchee, Wash., *PST*.  
7 a.m.-10 p.m.

**KPRC** 920 Houston, Texas, *CST*.  
6:30 a.m.-mid.

**KQV** 1380 Pittsburgh, Pa., *EST*.  
8:30 a.m.-1 p.m.; 2-11 p.m.

**KQW** 1010 San Jose, Calif., *PST*.  
7 a.m.-3 p.m.; 4:30-10 p.m.

**KRE** 1370 Berkeley, Calif., *PST*.  
6:30-9:30 a.m.; noon-3 p.m.; 6-9 p.m.

**KREG** 1500 Santa Ana, Calif., *PST*.  
9 a.m.-11 p.m.

**KRGV** 1260 Harlingen, Texas, *CST*.  
7-9:30 a.m.; 12:30-3:30 p.m.

**KRKD** 1120 Los Angeles, Calif., *PST*.  
6 a.m.-1:30 p.m.; 3-7:30 p.m.

**KRLD** 1040 Dallas, Texas, *CST*.  
6-7:15 a.m.; 7:45-9 a.m.; 10-11 a.m.; 12:30-4:30 p.m.; 5:30-8 p.m.; 9:30-10:30 p.m.

**KRMD** 1310 Shreveport, La., *CST*.  
7 a.m.-1 p.m.; 5-8 p.m.

**KROW** 930 Oakland, Calif., *PST*.  
8-9 a.m.; 1-6 p.m.; 7:30-11 p.m.

**KRSC** 1120 Seattle Wash., *PST*.  
Sunrise to local sunset.

**KSAC** 580 Manhattan, Kans., *CST*.  
8-9 a.m.; 10-10:30 a.m.; 12:30-1:30 p.m.; 4:30-5:30 p.m.

**KSCJ** 1330 Sioux City, Iowa, *CST*.  
6:30 a.m.-11 p.m.

**KSD** 550 St. Louis, Mo., *CST*.  
7 a.m.-12:15 p.m.; 12:40-11 p.m.

**KSEI** 890 Pocatello, Idaho, *MST*.  
8 a.m.-11 p.m.

**KSL** 1130 Salt Lake City, Utah, *MST*.  
7 a.m.-mid.

**KSO** 1380 Clarinda, Iowa.

**KSOO** 1110 Sioux Falls, S. D., *CST*.  
6 a.m.-8 p.m.

**KSTP** 1460 St. Paul, Minn., *CST*.  
6:30 a.m.-12:30 a.m. next day.

**KTAB** 560 San Francisco, Calif., *PST*.  
6:45 a.m.-1 a.m. next day.

**KTAR** 620 Phoenix, Ariz., *MST*.  
7 a.m.-11:15 p.m.

**KTAT** 1240 Ft. Worth, Texas.  
12-9 a.m.; Noon-1:30 p.m.; 4-7 p.m.; 9-mi-t.

**KTBS** 1450 Shreveport, La., *CST*.  
6 a.m.-mid.

**KTFI** 1240 Twin Falls, Idaho, *MST*.  
6:30 a.m.-11 p.m.

**KTHS** 1040 Hot Springs, Ark., *CST*.  
9-10 a.m.; 11 a.m.-12:30 p.m.; 4:30-5:30 p.m.; 8-9:30 p.m.; 10:30-11:30 p.m.

**KTM** 780 Los Angeles, Calif., *PST*.  
6-10 a.m.; 1-5 p.m.; 8 p.m.-4 a.m. next day.

**KTRH** 1120 Houston, Texas, *CST*.  
6:30-11 a.m.; noon-11:30 p.m.

**KTSA** 1290 San Antonio, Tex., *CST*.  
6-8 a.m.; 9:30-11:30 a.m.; 3-5 p.m.; 7-10 p.m.

**KTSM** 1310 El Paso, Texas.

**KTW** 1220 Seattle, Wash.

**KUJ** 1370 Walla Walla, Wash., *PST*.  
6 a.m.-sunset.

**KUMA** 1420 Yuma, Ariz., *MST*.  
7-9 a.m.; noon-3 p.m.; 6-9 p.m.

**KUOA** 1390 Fayetteville, Ark., *CST*.  
7-8 a.m.; 11 a.m.-1 p.m.; 5-8:30 p.m.

**KUSD** 890 Vermillion, S. D., *CST*.  
Silent.

**KVI** 570 Tacoma, Wash., *PST*.  
6:30 a.m.-mid.

<b>KASA</b> 1210 Elk City, Okla., <i>CST.</i> 7 a.m.-9 p.m.	<b>KFJR</b> 1300 Portland, Ore., <i>PST.</i> 10:30 a.m.-2:30 p.m.; 5-6 p.m.; 7-mid.	<b>KFYO</b> 1310 Lubbock, Texas. <b>KFYR</b> 550 Bismarck, N. D., <i>CST.</i> 6:30 a.m.-12:30 p.m.; 2-11 p.m.
<b>KBPS</b> 1420 Portland, Ore., <i>PST.</i> 11 a.m.-12:30 p.m.; 3-5 p.m.	<b>KFJZ</b> 1370 Fort Worth, Texas, <i>CST.</i> 7 a.m.-11 p.m.	<b>KGA</b> 1470 Spokane, Wash., <i>PST.</i> 6 a.m.-mid.
<b>KBTM</b> 1200 Paragould, Ark., <i>CST.</i> 7:30 a.m.-1:30 p.m.; 3:15-8:15	<b>KFKA</b> 880 Greeley, Colo., <i>MST.</i> 6-7:30 a.m.; 9 a.m.-2:30 p.m.; 8-11 p.m.	<b>KGAR</b> 1370 Tucson, Ariz., <i>MST.</i> 7 a.m.-1:30 p.m.; 4-11
<b>KCMC</b> 1420 Texarkana, Ark., <i>CST.</i> 6:45 a.m.-2 p.m.; 4-9 p.m.	<b>KFKU</b> 1220 Lawrence, Kans., <i>CST.</i> 2:30-3 p.m.; 6-6:15 p.m.	<b>KGB</b> 1330 San Diego, Calif., <i>PST.</i> 7 a.m.-mid.
<b>KCRC</b> 1370 Enid, Okla., <i>CST.</i> 10 a.m.-2 p.m.; 3:45-7:45 p.m.	<b>KFKX</b> 1020 Chicago, Ill.	<b>KGBU</b> 900 Ketchikan, Alaska. <b>KGBX</b> 1310 Springfield, Mo., <i>CST.</i> 6:30-9:30 a.m.; 11 a.m.-2 p.m.; 4-10 p.m.
<b>KCRJ</b> 1310 Jerome, Ariz., <i>MST.</i> 7:30-9:30 a.m.; noon-1 p.m.; 3:45-6 p.m.	<b>KFLV</b> 1410 Rockford, Ill., <i>CST.</i> 10 a.m.-12:30 p.m.; 3-6 p.m.; 8-10 p.m.	<b>KGBZ</b> 930 York, Neb., <i>CST.</i> 7:30-9:30 a.m.; 11 a.m.-12:30 p.m.; 2-3:30 p.m.; 5-6:30 p.m.; 8:30-mid.
<b>KDB</b> 1500 Santa Barbara, Calif., <i>PST.</i> 8 a.m.-mid.	<b>KFLX</b> 1370 Galveston, Texas. <b>KFMX</b> 1250 Northfield, Minn. Silent.	<b>KGCA</b> 1270 Decora, Iowa, <i>CST.</i> 8:30-9:45 a.m.; 10:45-11:30 a.m.; 12:30-2:30
<b>KDFN</b> 1440 Casper, Wyo., <i>MST.</i> 9 a.m.-9 p.m.	<b>KFNF</b> 890 Shenandoah, Ia., <i>CST.</i> 5-8 a.m.; 9-10 a.m.; 12:15-5 p.m.; 8-10 p.m.	<b>KGCR</b> 1210 Watertown, S. D., <i>CST.</i> 6:30 a.m.-3 p.m.; 5-9
<b>KDKA</b> 980 Pittsburgh, Pa., <i>EST.</i> 7 a.m.-12:30 a.m. next day.	<b>KFOR</b> 1210 Lincoln, Neb., <i>CST.</i> 7 a.m.-10 p.m.	<b>KGCU</b> 1240 Mandan, N. D., <i>CST.</i> Noon-5 p.m.; 6:45-9 p.m.
<b>KDLR</b> 1210 Devils Lake, N. D., <i>CST.</i> 7 a.m.-3 p.m.; 5:30-9:30 p.m.	<b>KFOX</b> 1250 Long Beach, Calif., <i>PST.</i> 6 a.m.-mid.	<b>KGCX</b> 1310 Wolf Point, Mont., <i>MST.</i> 7:30-9 a.m.; noon-3 p.m.; 6-7:30
<b>KDYL</b> 1290 Salt Lake City, Utah, <i>MST.</i> 6:30 a.m.-1 a.m. next day.	<b>KFPL</b> 1310 Dublin, Texas, <i>CST.</i> 6 a.m.-10:30 p.m.	<b>KGDA</b> 1370 Mitchell, S. D., <i>CST.</i> 8 a.m.-4:30 p.m.; 5:30-9
<b>KECA</b> 1430 Los Angeles, Calif., <i>PST.</i> 9 a.m.-11 p.m.	<b>KFPM</b> 1310 Greenville, Texas, <i>CST.</i> 7:45-9 a.m.; 1-2:45 p.m.; 6-9 p.m.	<b>KGDE</b> 1200 Fergus Falls, Minn., <i>CST.</i> 7 a.m.-9 p.m.
<b>KELW</b> 780 Burbank, Calif., <i>PST.</i> 10 a.m.-1 p.m.; 5-8 p.m.	<b>KFPW</b> 1210 Fort Smith, Ark., <i>CST.</i> 6:30 a.m.-2 p.m.; 5-10:30 p.m.	<b>KGDM</b> 1100 Stockton, Calif., <i>PST.</i> 6 a.m.-sunset.
<b>KERN</b> 1200 Bakersfield, Calif. <i>PST.</i> 7:30 a.m.-Mid.	<b>KFPY</b> 1340 Spokane, Wash., <i>PST.</i> 7 a.m.-12:30 a.m. next day.	<b>KGDY</b> 1200 Huron, S. D., <i>CST.</i> 7 a.m.-2 p.m.; 4-9 p.m.
<b>KEX</b> 1180 Portland, Ore., <i>PST.</i> 7 a.m.-noon; 1 p.m.-mid.	<b>KFQD</b> 1230 Anchorage, Alaska. 6 p.m.-mid. (Zone 6)	<b>KGEK</b> 1200 Yuma, Colo., <i>MST.</i> 11 a.m.-1:30; 3-9 p.m.
<b>KFAB</b> 770 Lincoln, Neb., <i>CST.</i> 6 a.m.-10:30 p.m.	<b>KFRC</b> 610 San Francisco, Calif. <i>PST.</i> 7 a.m.-1 a.m. next day.	<b>KGER</b> 1360 Long Beach, Calif., <i>PST.</i> 6 a.m.-mid.
<b>KFAC</b> 1300 Los Angeles, Calif., <i>PST.</i> 7 a.m.-mid.	<b>KFRU</b> 630 Columbia, Mo., <i>CST.</i> 6:30 a.m.-9; 4-8 p.m.	<b>KGEW</b> 1200 Ft. Morgan, Colo., <i>MST.</i> 6:30-9:30 p.m.
<b>KFBB</b> 1280 Great Falls, Mont., <i>MST.</i> 8 a.m.-3 p.m.; 5-10 p.m.	<b>KFSD</b> 600 San Diego, Calif., <i>PST.</i> 7:30 a.m.-mid.	<b>KGEZ</b> 1310 Kalispell, Mont., <i>MST.</i> 8 a.m.-9 p.m.
<b>KFBI</b> 1050 Abilene, Kans., <i>CST.</i> 5 a.m.-9 p.m.	<b>KFSG</b> 1120 Los Angeles, Calif., <i>PST.</i> 1:30-3 p.m.; 7:30-mid.	<b>KGFF</b> 1420 Shawnee, Okla., <i>CST.</i> 7:30 a.m.-9 p.m.
<b>KFBK</b> 1310 Sacramento, Calif., <i>PST.</i> 7 a.m.-11 p.m.	<b>KFUL</b> 1290 Galveston, Texas, <i>CST.</i> 8:9-30 a.m.; 11 a.m.-1 p.m.; 2:30-4 p.m.; 5:30-8 p.m.; 10: 15 p.m.-mid.	<b>KGFG</b> 1370 Oklahoma City, Okla., <i>CST.</i> 7:1-10 a.m.; 3-3:45 p.m.; 7:45- 10 p.m.
<b>KFBL</b> 1370 Everett, Wash., <i>PST.</i> 8:30 a.m.-noon; 3-6 p.m.; 3-6 a.m.	<b>KFUO</b> 550 St. Louis, Mo., <i>CST.</i> 6:30-7 a.m.; 12:15-12:40 p.m.; 11 p.m. unlimited.	<b>KGFI</b> 1500 Corpus Christi, Texas, <i>CST.</i> 7 a.m.-3 p.m.; 6-10 p.m.
<b>KFDM</b> 560 Beaumont, Texas, <i>CST.</i> 7 a.m.-2 p.m.; 4:30-10:30 p.m.	<b>KFVD</b> 1000 Los Angeles, Calif., <i>PST.</i> 6 a.m.-6:45 p.m.; 10 p.m.-mid.	<b>KGFJ</b> 1200 Los Angeles, Calif. 24 hours daily.
<b>KFDY</b> 550 Brookings, S. D., <i>CST.</i> 12:30-2 p.m.	<b>KFVS</b> 1210 Cape Girardeau, Mo., <i>CST.</i> 9 a.m.-noon; 4-7:30; 9-mid. 7:30 a.m.-mid.	<b>KGFK</b> 1500 Moorhead, Minn., <i>CST.</i> 8 a.m.-9 p.m.
<b>KFEL</b> 920 Denver, Colo., <i>MST.</i> 7:8-30 a.m.; 10 a.m.-12:30 p.m.; 3-4:30 p.m.; 6-7:30 p.m.; 9- mid.	<b>KFWB</b> 950 Los Angeles, Calif., <i>PST.</i> 7:30 a.m.-mid.	<b>KGFL</b> 1370 Santa Fe, N. M., <i>MST.</i> 9-10 a.m.; 11 a.m.-3 p.m.; 4-5:30 p.m.; 7-9-9
<b>KFEQ</b> 680 St. Joseph, Mo., <i>CST.</i> 6 a.m.-7:45 p.m.	<b>KFWF</b> 1200 St. Louis, Mo., <i>CST.</i> 9:45 a.m.-11:15 a.m.	<b>KGFW</b> 1310 Kearney, Neb., <i>CST.</i> 7:30 a.m.-1:30 p.m.; 5-10:30 p.m.
<b>KFGQ</b> 1310 Boone, Iowa, <i>CST.</i> 6-7:30 a.m.; 1:30-2:30 p.m.	<b>KFWI</b> 930 San Francisco, Calif., <i>PST.</i> 7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30 p.m.; 11 p.m.-1 a.m.	<b>KGFX</b> 630 Pierre, S. D.
<b>KFH</b> 1300 Wichita, Kans., <i>CST.</i> 7:8-30 a.m.; 9-11 a.m.; 1:30 a.m.-2 p.m.; 3-11 p.m.	<b>KFXD</b> 1200 Nampa, Idaho, <i>MST.</i> 7 a.m.-9 p.m.	<b>KGGC</b> 1420 San Francisco, Calif., <i>PST.</i> 9 a.m.-9 p.m.
<b>KFI</b> 640 Los Angeles, Calif., <i>PST.</i> 6:30 a.m.-mid.	<b>KFXE</b> 920 Denver, Colo., <i>MST.</i> 8:30-10 a.m.; 12:30-3; 4:30-6; 7:30-mid.	<b>KGGF</b> 1010 Coffeyville, Kans., <i>CST.</i> 7:30 a.m.-1:30 p.m.; 5-10:30
<b>KFIO</b> 1120 Spokane, Wash., <i>PST.</i> 6 a.m.-sunset.	<b>KFXJ</b> 1310 Grand Jet., Colo., <i>MST.</i> 8 a.m.-2 p.m.; 6-9 p.m.	<b>KGGM</b> 1230 Albuquerque, N. M., <i>MST.</i> 8 a.m.-2 p.m.; 4-10 p.m.
<b>KFIZ</b> 1420 Fond du Lac, Wis., <i>CST.</i> 10 a.m.-1 p.m.; 4-10 p.m.	<b>KFXM</b> 1210 San Bernardino, Calif., <i>PST.</i> 7 a.m.-mid.	<b>KGHF</b> 1320 Pueblo, Colo., <i>MST.</i> 7 a.m.-1 p.m.; 4-10 p.m.
<b>KFJB</b> 1200 Marshalltown, Iowa, 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	<b>KFXR</b> 1310 Oklahoma City, Okla., <i>CST.</i> 7:30 a.m.-2 p.m.; 4-10	<b>KGHI</b> 1200 Little Rock, Ark., <i>CST.</i> 8:30 a.m.-1:30 p.m.; 5-9; mid- 3 a.m.
<b>KFJI</b> 1210 Klamath Falls, Ore., <i>PST.</i> 7:30 a.m.-9 p.m.		
<b>KFJM</b> 1370 Grand Forks, N. D., <i>CST.</i> 7 a.m.-9 p.m.		

<b>CFAC</b> 690 Calgary, Alta., <i>MST</i> . 7:30-9 a.m.; 11:30 a.m.-1:30 p.m.; 4:30-6 p.m.; 7-9 p.m.	<b>CJRW</b> 665 Fleming, Sask., <i>MST</i> . Noon-1 p.m.; 4:30-7:30 p.m.	<b>CMCB</b> 1070 Havana, Cuba, <i>EST</i> . 11:30 a.m.-1 p.m.; 5-6 p.m.; 7:30-10 p.m.
<b>CFBO</b> 890 St. John, N. B.	<b>CKAC</b> 730 Montreal, Que., <i>EST</i> . 7:30 a.m.-mid.	<b>CMCD</b> 925 Havana, Cuba, <i>EST</i> . Noon-3 p.m.; 8 p.m.-mid.
<b>CFCA</b> 1120 Toronto, Ont., <i>EST</i> . 7:15-noon; 1-10:30 p.m.	<b>CKCD</b> 730 Vancouver, B. C.	<b>CMCF</b> 890 Havana, Cuba, <i>EST</i> . 5-8 p.m.; 9-11 p.m.
<b>CFCF</b> 1030 Montreal, Que., <i>EST</i> . 8 a.m.-mid.	<b>CKCI</b> 645 Quebec, Que., <i>EST</i> . 1-1:30 p.m.	<b>CMCH</b> 1405 Havana, Cuba, <i>EST</i> . 5-9 p.m.
<b>CFCH</b> 930 North Bay, Ont., <i>EST</i> . 8-8:30 a.m.; noon-1 p.m.; 5-8 p.m.	<b>CKCK</b> 960 Regina, Sask., <i>MST</i> . 9-10 a.m.; 11 a.m.-noon; 1-3:30 p.m.; 5:30-mid.	<b>CMCJ</b> 588 Havana, Cuba
<b>CFCN</b> 985 Calgary, Alta., <i>MST</i> . 7:30 a.m.-1:30 p.m.; 5-11 p.m.	<b>CKCL</b> 580 Toronto, Ont., <i>EST</i> . 8:30 a.m.-mid.	<b>CMCM</b> 1405 Havana, Cuba
<b>CFCO</b> 1210 Chatham, Ont., <i>EST</i> . 9-10 p.m.	<b>CKCO</b> 890 Ottawa, Ont.	<b>CMCN</b> 1270 Havana, Cuba
<b>CFCT</b> 630 Victoria, B. C., <i>PST</i> . 8 a.m.-12:30 p.m.; 6-8 p.m.	<b>CKCR</b> 645 Waterloo, Ont., <i>EST</i> . 10 a.m.-1:15 p.m.; 4-10 p.m.	<b>CMCQ</b> 780 Havana, Cuba
<b>CFCY</b> 580 Charlottetown, P. E. I., <i>AST</i> . 11:30 a.m.-noon; 4:30-8 p.m.	<b>CKCV</b> 880 Quebec, Que., <i>EST</i> . Noon-2 p.m.; 6:30-11 p.m.	<b>CMCQ</b> 1325 Havana, Cuba
<b>CFJC</b> 1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.; mid.-2 a.m.	<b>CKFC</b> 730 Vancouver, B. C. Silent.	<b>CMCQ</b> 630 Havana, Cuba
<b>CFLE</b> 915 Prescott, Ont., <i>EST</i> . 8-10 a.m.; noon-2 p.m.; 5-7:30 p.m.; 8-10 p.m.	<b>CKGW</b> 820 Toronto, Ont., <i>EST</i> . 6:45 a.m.-mid.	<b>CMCW</b> 1325 Havana, Cuba
<b>CFNB</b> 1210 Fredericton, N. B., <i>AST</i> . 8:30-9:30 a.m.; 12:30-2 p.m.	<b>CKIC</b> 1010 Wolfville, N. S., <i>AST</i> . 7:30-8:30 a.m.; 12:15-1:15 p.m.; 6-7 p.m.	<b>CMCX</b> 1010 Havana, Cuba
<b>CFQC</b> 910 Saskatoon, Sask.	<b>CKLC</b> 840 Red Deer, Alta., <i>MST</i> . 8 a.m.-8:15 p.m.	<b>CMCY</b> 1365 Havana, Cuba, <i>EST</i> . 8:30-10:30 p.m.
<b>CFRB</b> 690 Toronto, Ont., <i>EST</i> . 8 a.m.-mid.	<b>CKMC</b> 1210 Cobalt, Ont. Silent.	<b>CMDB</b> 1405 Havana, Cuba
<b>CFRC</b> 930 Kingston, Ont.	<b>CKMO</b> 730 Vancouver, B. C.	<b>CMDD</b> 588 Havana, Cuba
<b>CHCH</b> 1200 Montreal, Que.	<b>CKNC</b> 960 Toronto, Ont., <i>EST</i> . 8 a.m.-12:30 p.m.; 2:30-11:15 p.m.	<b>CMDE</b> 925 Havana, Cuba
<b>CHCK</b> 960 Charlottetown, P. E. I., <i>AST</i> . Noon-2 p.m.; 5-7:30 p.m.	<b>CKOC</b> 635 Hamilton, Ont., <i>EST</i> . 8 a.m.-10:30 p.m.	<b>CMGA</b> 834 Colon, Cuba
<b>CHGS</b> 1120 Summerside, P. E. I., <i>AST</i> . 10 a.m.-2 p.m.; 4-8 p.m.	<b>CKOK</b> 540 Windsor, Ont., <i>EST</i> . 7:30 a.m.-mid.	<b>CMGB</b> 1205 Matanzas, Cuba
<b>CHLS</b> 730 Vancouver, B. C., <i>PST</i> . 8:50-10:30 p.m.	<b>CKOV</b> 1200 Kelowna, B. C., <i>PST</i> . 8-9 a.m.; 11:30 a.m.-2 p.m.; 4:30-7:30 p.m.; 9-11 p.m.	<b>CMGC</b> 820 Matanzas, Cuba
<b>CHMA</b> 580 Edmonton, Alta. <i>MST</i> . Silent.	<b>CKPC</b> 880 Preston, Ont., <i>EST</i> . 4 p.m.-mid.	<b>CMGE</b> 1375 Cardenas, Cuba
<b>CHML</b> 880 Hamilton, Ont., <i>EST</i> . 9 a.m.-2 p.m.	<b>CKPR</b> 890 Ft. William, Ont., <i>EST</i> . 9 a.m.-2 p.m.; 5:30-11 p.m.	<b>CMGF</b> 987 Matanzas, Cuba
<b>CHNC</b> 840 Toronto, Ont.	<b>CKTB</b> 635 St. Catharines, Ont., <i>EST</i> . 1:30-5 p.m.; 6:30-8 p.m.	<b>CMGH</b> 1040 Matanzas, Cuba
<b>CHNS</b> 815 Halifax, N. S., <i>AST</i> . 8 a.m.-2 p.m.; 6 p.m.-mid.	<b>CKUA</b> 580 Edmonton, Alta., <i>MST</i> . Silent.	<b>CMHG</b> 790 Tuinucu, Cuba
<b>CHRC</b> 645 Quebec, Que., <i>EST</i> . 9 a.m.-2 p.m.; 5 p.m.-mid.	<b>CKWX</b> 730 Vancouver, B. C., <i>PST</i> . 8-8:30 a.m.; 10:30 a.m.-noon; 4:30-7:30 p.m.	<b>CMHI</b> 1030 Santa Clara, Cuba, <i>EST</i> . 11 a.m.-1 p.m. 8-10 p.m.
<b>CHWC</b> 960 Regina, Sask., <i>MST</i> . 7-9 a.m.; 10-11 a.m.; noon-1 p.m.; 3:30-6:30 p.m.	<b>CKX</b> 930 Brandon, Man., <i>CST</i> . 8:30-9:30 a.m.	<b>CMHJ</b> 1125 Cienfuegos, Cuba, <i>EST</i> . 11 a.m.-1 p.m.; 7-9 p.m.
<b>CHWK</b> 665 Chilliwack, B. C., <i>PST</i> . Noon-8 p.m.	<b>CKY</b> 780 Winnipeg, Man., <i>CST</i> . 8:30 a.m.-2 p.m.; 3:30-6 p.m.; 7-11 p.m.	<b>CMHL</b> 1225 Cruces, Cuba
<b>CHYC</b> 730 Montreal, Que.	<b>CMAB</b> 1249 Pinar del Rio, Cuba.	<b>CMHM</b> 1290 Cienfuegos, Cuba
<b>CJCA</b> 745 Edmonton, Alta., <i>MST</i> . 7:45-9:15 a.m.; noon-1 p.m.; 3:30-4:30 p.m.; 5-10 p.m.	<b>CMAF</b> 680 Havana, Cuba.	<b>CMJ</b> 960 Camaguey, Cuba.
<b>CJCB</b> 880 Sydney, N. S., <i>AST</i> . 10 a.m.-2 p.m.; 6-10 p.m.	<b>CMAG</b> 965 Havana, Cuba.	<b>CMJO</b> 1110 Ciego de Avila, Cuba.
<b>CJGJ</b> 690 Calgary, Alta., <i>MST</i> . 9-11:30 a.m.; 1:45-3 p.m.; 6-7 p.m.	<b>CMBC</b> 965 Havana, Cuba, <i>EST</i> . 11 a.m.-5 p.m.	<b>CMJP</b> 1310 Moron, Cuba.
<b>CJGC</b> 595 London, Ont., <i>EST</i> . 8:45 a.m.-1:15 p.m.; 5:30-10 p.m.	<b>CMBD</b> 1270 Havana, Cuba.	<b>CMK</b> 730 Havana, Cuba, <i>EST</i> . 10 a.m.-noon; 6 p.m.-mid.
<b>CJGX</b> 630 Yorkton, Sask., <i>CST</i> . 8:30-9:15 a.m.; 10:30-10:45 a.m.; 12:40-1:15 p.m.; 7:15-8 p.m.	<b>CMBF</b> 1365 Havana, Cuba.	<b>CMKC</b> 1034 Santiago, Cuba.
<b>CJOC</b> 1120 Lethbridge, Alta., <i>MST</i> . 8:45-10 a.m.; noon-1:15 p.m.; 3-4 p.m.; 6-8 p.m.	<b>CMBG</b> 1070 Havana, Cuba.	<b>CMKJ</b> 1300 Guantanamo, Cuba.
<b>CJOR</b> 1210 Vancouver, B. C., <i>PST</i> . 7:30 a.m.-1 p.m.; 4-11:30 p.m.	<b>CMBJ</b> 1140 Havana, Cuba.	<b>CMKQ</b> 630 Havana, Cuba.
<b>CJRM</b> 665 Moose Jaw, Sask., <i>MST</i> . 8-10:30 a.m.; noon-2:30 p.m.; 7:30-10 p.m.	<b>CMBK</b> 1485 Havana, Cuba.	<b>CMW</b> 1185 Havana, Cuba, <i>EST</i> . 7:30 a.m.-11:30 p.m.
	<b>CMBL</b> 1445 Havana, Cuba, <i>EST</i> . 3-5 p.m.	<b>CMX</b> 890 Havana, Cuba, <i>EST</i> . 11 a.m.-2 p.m.; 8-11 p.m.
	<b>CMBN</b> 1445 Havana, Cuba, <i>EST</i> . 2-3 p.m.; 9:15-11 p.m.	<b>CNRA</b> 630 Moncton, N. B., <i>AST</i> . 12:30-2 p.m.; 6:15-7:15 p.m.; 8:30-10 p.m.
	<b>CMBR</b> 1485 Havana, Cuba.	<b>CNRH</b> 815 Halifax, N. S. <i>AST</i> . Silent.
	<b>CMBS</b> 780 Havana, Cuba.	<b>CNRO</b> 600 Ottawa, Ont., <i>EST</i> . Noon-1 p.m.; 6-11 p.m.
	<b>CMBW</b> 1140 Havana, Cuba.	<b>CNRV</b> 1050 Vancouver, B. C., <i>PST</i> . 2-5:30 p.m.; 5:30-8:30 p.m.
	<b>CMBY</b> 1230 Havana, Cuba.	<b>CPRY</b> 840 Toronto, Ont., <i>EST</i> . 1-1:30 p.m.; 7:45-8:30; 9:30-10 p.m.
	<b>CMBZ</b> 1010 Havana, Cuba, <i>EST</i> . 9-10:30 a.m.; noon-2 p.m.; 4-5 p.m.; 6-7 p.m.; 8-11 p.m.	<b>HHK</b> 920 Portau Prince, Haiti.
	<b>CMC</b> 840 Havana, Cuba.	<b>HIX</b> 630 Santo Domingo, <i>EST</i> . 8:25-9:40 p.m.
	<b>CMCA</b> 1230 Havana, Cuba.	<b>KABC</b> 1420 San Antonio, Tex., <i>CST</i> . 6:45 a.m.-1:30 p.m.; 4-11:30 p.m.
		<b>KALE</b> 1300 Portland, Ore. <i>PST</i> . 7-10:30 a.m.; 2:30-5; 6-7 p.m.
		<b>KARK</b> 890 Little Rock, Ark., <i>CST</i> . 7:30 a.m.-9 p.m.



## INDEX BY LOCATIONS WITH MAP KEY

	Watts		Keys.		Watts		Keys.
<b>JALISCO</b>							
Guadalajara, Jal. X-10	500	XEA	1155	Cienfuegos W-25	40	CMHJ	1125
<b>MICHOACAN</b>					20	CMHL	1290
Morelia, Mich. Y-12	150	XEI	1310	Colon W-24	100	CMGA	834
<b>NEUVO LEON</b>				Cruces	15	CMHK	1225
Monterrey, N. L. U-13	100	XEFB	1315	Guantanamo X-28 tc	20	CMKJ	1300
	1000	XEH	1132	Havana W-23	500	CMAF	680
	500	XET	690		150	CMAY	965
<b>OAXACA</b>					150	CMBC	965
Oaxaca, Oax. AA-14	105	XEE	1000		150	CMBD	1270
<b>PUEBLA</b>					150	CMBF	1365
Puebla Z-13	101	XEV	1000		225	CMBG	1070
<b>QUERETARO</b>					150	CMBJ	1140
Queretaro X-12 br	40	XEFS	1000		15	CMBK	1485
<b>TAMAULIPAS</b>					20	CMBL	1445
N. Laredo S-13	101	XEFE	1000		30	CMBN	1445
	50000	XENT	1115		40	CMBR	1485
	200	XEP	1400		150	CMBS	780
Reynosa, Tams. T-14	10000	XED	965		150	CMBW	1140
Tampico, Tams. W-14	500	XEM	730		350	CMBY	1230
	500	XES	1055		150	CMBZ	1010
<b>VERA CRUZ</b>					500	CMC	840
Jalapa Y-14	100	XETC	1000		150	CMCA	1230
Vera Cruz, Ver. Z-14	500	XETF	630		150	CMCB	1070
	100	XEU	1007		250	CMCD	925
<b>YUCATAN</b>					250	CMCF	890
Merida, Yuc. X-19	10	XEFC	1050		50	CMCH	1405
	105	XEY	1000		250	CMCJ	588
<b>WEST INDIES</b>					15	CMCM	1405
<b>BAHAMA</b>					250	CMCN	1270
assau T-27 c	500	VPN	610		1000	CMCQ	780
<b>CUBA</b>					150	CMCR	1325
Caibarien W-25	250	CMHD	950		150	CMCU	630
Carnaguey W-26	150	CMJC	1382		150	CMCW	1325
	50	CMJE	1175		150	CMCX	1010
	200	CMJF	930		1000	CMCY	1365
	50	CMJG	1050		40	CMDB	588
	50	CMJL	960		150	CMDD	1405
	50	CMJN	1240		250	CMDE	925
Cardenas W-24	30	CMGE	1375		3150	CMK	730
Ciego de Avila W-26	50	CMJH	1150		250	CMQ	630
	5	CMJI	1260		1400	CMW	1185
	15	CMJO	1110		500	CMX	890
				Matanzas W-24	30	CMGB	1205
					30	CMGC	820
					100	CMGF	987
					15	CMGH	1040
				Moron	7.5	CMJP	1310
				Pinar del Rio W-22	20	CMAB	1249
				Santa Clara W-25	30	CMHI	1030
				Santiago X-28	150	CMKC	1034
				Tuinucu W-25 rc	250	CMHC	790
				<b>DOMINICAN REPUBLIC</b>			
				Santo Domingo X-31	1000	HIX	630
				<b>HAITI</b>			
				Port au Prince X-30	1000	HHK	920

## TIME CONVERSION TABLE

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

# INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Keys.		Watts		Keys.
Edmonton A-8	250	CHMA	580	Quebec D-27	100	CHRC	645
	500	CJCA	745		100	CKCI	645
	500	CKUA	580		100	CKCV	880
Lethbridge C-8	100	CJOC	1120	<b>SASKATCHEWAN</b>			
Red Deer A-8	1000	CKLC	840	Canora B-13 tl	15	10-BU	1200
<b>BRITISH COLUMBIA</b>				Fleming C-13	1000	CJRW	665
Chilliwack B-3	100	CHWK	665	Moose Jaw C-11	500	CJRM	665
Kamloops B-5	100	CJFC	1120		25	10-AB	1200
Kelowna C-6 tl	100	CKOV	1200	Prince Albert A-11 rc	25	10-BI	1200
Trail C-6 c	25	10-AT	1155	Regina C-12	500	CHWC	960
Vancouver B-3	100	CHLS	730		500	CKCK	960
	500	CJOR	1210	Saskatoon B-11	500	CFQC	910
	100	CKCD	730	Yorkton B-13	500	CJGX	630
	50	CKFC	730	<b>NEWFOUNDLAND</b>			
	100	CKMO	730	St. Johns A-35	200	VOAS	810
	100	CKWX	730		500	VOGY	910
	500	CNRV	1030		100	VONA	950
Victoria C-3	500	CFCT	630		500	VONF	1115
					750	VOWR	750
<b>MANITOBA</b>				Wabana A-35	400	VOGT	893
Brandon D-14	500	CKX	930	<b>CENTRAL AMERICA</b>			
Winnipeg D-15	5000	CKY	780	<b>COSTA RICA</b>			
<b>NEW BRUNSWICK</b>				San Jose FF-23	50	TICR	911
Fredericton D-29	100	CFNB	1210	<b>GUATAMALA</b>			
Moncton D-30	700	CNRA	630	Guatamala CC-18 tr	50	TGW	570
St. John D-30	500	CFBO	890	<b>SALVADOR</b>			
<b>NOVA SCOTIA</b>				Salvador CC-19 br	500	RUS	664
Glace Bay C-32	2000	VAS	685	<b>MEXICO</b>			
Halifax E-31	500	CHNS	815	<b>AGUASCALIENTES</b>			
	500	CNRH	815	Aguascalientes W-11 bc	250	XFC	810
	100	VCX	690	<b>BAJA CALIFORNIA</b>			
Sydney C-32	100	CJCB	880	Tiajuana N-3 bc	300	XEFD	1020
Wolfville D-31	50	CKIC	1010	<b>CHIHUAHUA</b>			
<b>ONTARIO</b>				Chihuahua R-9	100	XEFI	1000
Brantford H-23 tr	15	10-BQ	1200		250	XFF	875
Chatham H-22	250	CFCO	1210	Juarez P-9	101	XEQ	1000
Cobalt E-23	100	CKMC	1210		5000	XEQ	750
Ft. William E-19 bl	100	CKPR	890	<b>COAHUILA</b>			
Hamilton H-24	50	CHML	880	Salttillo, Coah. U-12	25	XEL	1000
	1000	CKOC	635	Torreón U-11 tl	125	XETB	1380
Kingston G-25	50	CFRC	930		100	XETG	1000
London H-23	5000	CJGC	595	Villa Acuna R-12 c	75000	XER-XEF	735
North Bay F-23 c	100	CFCH	930			XEPN	875
Ottawa F-25	100	CKCO	890	<b>D. F.</b>			
	500	CNRO	600	Coyoacan Y-13	100	XEFZ	1370
Prescott F-25	100	CFLC	915	Mexico City Y-13	1000	XEB	1030
Preston H-23	100	CKPC	880		250	XEFA	1250
St. Catharines H-24 tl	1000	CKTB	635		250	XBG	1070
Stratford H-23 tc	15	10-AK	1200		101	XEK	990
Toronto G-24	500	CFCA	1120		1000	XEN	711
	10000	CFRB	690		5000	XEFO	940
	5000	CHNC	840		500	XETA	1140
	500	CKCL	580		100	XETQ	1230
	5000	CKGW	840		2500	XETR	610
	500	CKNC	960		5000	XEW	910
	5000	CPRY	840		500	XEX	1210
Waterloo G-23	100	CKCR	645		500	XEZ	780
Windsor I-22 tc	5000	CKOK	540		2000	XFG	638
Wingham G-23	25	10-BP	1199		500	XFJ	867
<b>PRINCE EDWARD ISLAND</b>				Toluca Y-12	50	XEC	1000
Charlottetown C-31	500	CFCY	580				
	100	CHCK	960				
Summerside C-31	100	CHGS	1120				
<b>QUEBEC</b>							
Montreal E-26	500	CFCF	N 1030				
	100	CHCH	1200				
	5000	CHYC	730				
	5000	CKAC	C 730				

## INDEX BY LOCATIONS WITH MAP KEY

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

SOUTH DAKOTA			Watts	Kcys.	VIRGINIA			Watts	Kcys.
Brookings H-15	500	KFDY	550	Arlington J-25	1000	NAA	690		
Huron H-14	100	KGDY	1200	Danville L-25	100	WBTM	1370		
Mitchell H-14	100	KGDA	1370	Emory L-23	500	WEHC	1350		
Pierre G-13	200	KGFX	630	Lynchburg L-25	100	WLVA	1370		
Rapid City H-12	100	WCAT	1200	Newport News L-26	100	WGH	1310		
Sioux Falls H-15	1000	KSOO	1110	Norfolk L-26	500	WTRAR	C 780		
Vermillion L-15	500	KUSD	890	Petersburg L-26	100	WPHR	1200		
Watertown G-15	1000	KGCR	1210	Portsmouth L-26 tc	500	WPOR	780		
Yankton I-15	1000	WNAX	C 570	Richmond K-26	100	WBBL	1210		
					100	WMBG	C 1210		
					5000	WRVA	N 1110		
				Roanoke L-24	250	WDBJ	C 930		
					250	WRBX	1410		
<b>TENNESSEE</b>					<b>WASHINGTON</b>				
Bristol L-23	100	WOPI	1500	Aberdeen D-2	100	KXRO	1310		
Chattanooga N-21	1000	WDOD	C 1280	Bellingham C-3	100	KVOS	1200		
Jackson M-19 br	100	WTJS	1310	Everett C-3	50	KFBL	1370		
Knoxville M-22	1000	WNOX	C 560	Olympia D-3 tl	100	KGY	1210		
Memphis N-19	100	WHBQ	1370	Pullman E-5	1000	KWSC	1220		
	500	WMC	N 780	Seattle C-3	5000	KJR	N 970		
	500	WNBR	C 1430		1000	KOL	C 1270		
Nashville M-21	5000	WREC	C 600		1000	KOMO	N 920		
Springfield M-20	100	WSIX	1210		100	KPCB	650		
					100	KRSC	1120		
					1000	KTW	1220		
<b>TEXAS</b>						100	KVL	1370	
Amarillo N-12	1000	KGRS	1410		250	KXA	760		
	1000	WDAG	1410	Spokane D-5	100	KFIO	1120		
Austin Q-14	100	KNOW	1500		1000	KFPY	C 1340		
Beaumont R-17	500	KFDM	560		5000	KGA	B 1470		
Brownsville U-15	500	KWWG	1260	Tacoma D-3	1000	KHQ	N 590		
College Sta. Q-15	500	WTAW	1120		250	KMO	1330		
Corpus Christi S-14	100	KGFI	1500		500	KVI	C 570		
Dallas P-15	10000	KRLD	C N 1040	Walla Walla E-5	100	KUJ	1370		
	50000	WFAA	C 800	Wenatchee D-4	50	KPO	1500		
	500	WRR	C 1280	Yakima D-4	100	KIT	1310		
Dublin P-14	100	KFPL	1310	<b>WEST VIRGINIA</b>					
El Paso P-9	100	KTSM	1310	Bluefield L-24	250	WHIS	1410		
	100	WDAH	1310	Charleston K-23	250	WOBW	580		
Fort Worth P-15	100	KFJZ	1370	Fairmont J-24	250	WMMN	890		
	1000	KTAT	1240	Huntington K-23	250	WSAZ	580		
	10000	WBAP	N 800	Wheeling J-24	5000	WVVA	C 1160		
Galveston R-16	100	KFUL	1290	<b>WISCONSIN</b>					
	500	KFPM	1310	Eau Claire G-18	1000	WTAQ	C 1330		
Greenville O-15	15	KRJV	1260	Fond du Lac H-19	100	KFIZ	1420		
Harlingen T-14	500	KRGV	920	Green Bay G-19	100	WHBY	1200		
Houston R-16	1000	KTRH	C 1120	Janesville I-19	100	WCLO	1200		
	500	KXYZ	1440	La Crosse H-18	1000	WKBH	C 1380		
	250	KFYD	1310	Madison H-19	1000	WHA	940		
Lubbock O-12 tr	100	KGKL	1370		500	WIBA	N 1280		
San Angelo Q-13	100	KABC	1420	Manitowoc H-20	100	WOMT	1210		
San Antonio R-14	100	KMAC	1370	Milwaukee H-19	250	WHAD	C 1120		
	100	KONO	1370		250	WISN	C 1120		
	1000	KTSA	C 1290		1000	WTMJ	N 620		
	50000	WGAI	N 1190	Poynette H-19	100	WIBU	1210		
Tyler P-16 rc	100	KGKB	1500	Racine I-20	100	WRJN	1370		
Waco Q-15	1000	WACO	C 1240	Sheboygan H-20	500	WHBL	1410		
Wichita Falls O-14	250	KGKO	570	Stevens Point G-19	2000	WLBL	900		
				Superior F-17	1000	WEBC	N 1290		
<b>UTAH</b>					<b>WYOMING</b>				
Salt Lake City I-7	2500	KDYL	N 1290	Casper H-10	500	KDFN	1440		
	500	KLO	1400						
	5000	KSL	C 1130	<b>CANADA</b>					
<b>VERMONT</b>					<b>ALBERTA</b>				
Burlington F-27	100	WCAX	1200	Calgary B-7	500	CFAC	690		
Rutland G-27	100	WSYB	1500		10000	CFCN	985		
St. Albans F-27	100	WQDM	1370		500	CJ CJ	690		
Springfield G-27	250	WNBX	1260						
Waterbury F-27 c	500	WDEV	550						

# INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Keys.		Watts		Keys.
Saranac Lake F-26	50	WMBZ	1290	Portland E-3	500	KALE	C 1300
Schenectady G-27	50000	WGY	R 790		5000	KEX	N 1180
Syracuse G-25	1000	WFBL	C 1360		100	KBPS	1420
	250	WMAC	570		500	KFJR	1300
	250	WSYR	R 570		1000	KGW	N 620
Troy G-27	500	WHAZ	1300		1000	KOIN	C 940
Tupper Lake F-26	100	WHDL	1420		500	KWJJ	1060
Utica G-26	100	WIBX	1200		100	KXL	1420
Woodside I-27	100	WWRL	1500				
White Plains H-27 bl	100	WFAS	1210				
<b>PENNSYLVANIA</b>							
				Allentown I-26	250	WCBA	1440
					250	WSAN	1440
				Altoona I-25	100	WFBG	1310
				Carbondale H-26	10	WNBW	1200
				Erie H-24	100	WERE	1420
					500	WLBW	C 1260
				Glenside I-26 rc	25	WIBG	930
				Grove City I-24	100	WSAJ	1310
				Harrisburg I-25	500	WBAK	1430
					100	WCOD	1200
					500	WHP	C 1430
				Hazleton I-26 lc	100	WKEA	1420
				Johnstown J-24	100	WJAC	1310
				Lancaster I-26	100	WGAL	1310
					100	WKJC	1200
				Lewisburg I-26	100	WJBU	1210
				Philadelphia I-26	50000	WCAU	C 1170
					100	WDAS	1370
					500	WFAN	C 610
					500	WFI	R 560
					100	WHAT	1310
					500	WIP	C 610
					500	WLIT	R 560
					100	WPEN	1500
					250	WRAX	1020
					100	WTEL	1310
				Pittsburgh J-24	50000	KKA	B 980
					500	KQV	1380
					1000	WCAE	R 1220
					1000	WJAS	C 1290
					100	WWSW	1500
				Reading I-26	1000	WEEU	830
					100	WRAW	1310
				Scranton H-26	250	WGBI	880
					250	WQAN	880
				State College I-25	500	WPSC	1230
				Washington J-24	100	WNBO	1200
				Wilkes-Barre I-26	100	WBAX	1210
					100	WBRE	1310
				Williamsport I-25	100	WRAK	1370
					100	WJEQ	1370
				York J-25 tr	1000	WORK	1000
<b>PHILIPPINES</b>							
				Cebu	500	KZRC	937.5
				Manila	1000	KZKA	1110
					50000	KZRM	618.5
<b>PORTO RICO</b>							
				San Juan W-34	1000	WKAQ	1240
<b>RHODE ISLAND</b>							
				Providence H-28	250	WEAN	C 780
					250	WJAR	R 890
					100	WPAW	1210
					100	WPRO	1210
<b>SOUTH CAROLINA</b>							
				Charleston O-25	500	WCSC	1360
				Columbia N-24	500	WIS	N 1010
				Spartanburg N-23	100	WSPA	1420

# INDEX BY LOCATIONS WITH MAP KEY

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

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

## MINNESOTA

Fergus Falls F-15	100	KGDE	1200
Minneapolis G-17	5000	WCCO	C 810
	1000	WDGY	1180
	1000	WLB	1250
	1000	WRHM	1250
Moorhead F-15	50	KGFK	1500
Northfield G-17	1000	KFMX	1250
	1000	WCAL	1250
St. Paul G-17	10000	KSTP	N 1460

## MISSISSIPPI

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

## MISSOURI

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

## MONTANA

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

## NEBRASKA

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

## NEVADA

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

## NEW HAMPSHIRE

Laconia G-28 lc	100	WKAU	1310
Manchester G-28	500	WFEA	C 1430
Portsmouth G-28 tc	250	WHEB	740

## NEW JERSEY

Asbury Park I-27	500	WCAP	C 1280
Atlantic City J-27	5000	WPG	C 1100
Camden I-26	500	WCAM	1280
Hackensack I-27	250	WBMS	1450
Jersey City I-27	300	WAAT	940
	250	WHOM	1450
Newark I-27	1000	WAAM	1250
	250	WGCP	1250
	250	WNJ	1450
	5000	WOR	710
	1000	WODA	1250
Paterson I-27	100	WJBI	1210
Red Bank I-27	500	WOAX	1280
Trenton I-26	250	WAWZ	1350
Zarephath I-27			

## NEW MEXICO

Albuquerque N-7	250	KGGM	1230
	10000	KOB	1180
Clovis O-11 tr	100	KICA	1370
Santa Fe M-10	100	KGFL	1370

## NEW YORK

Albany G-27 bl	500	WOKO	C 1430
Auburn H-25	100	WMBQ	1310
Binghamton H-26	100	WMBF	1500
Brooklyn I-27	500	WBEC	1400
	1000	WBBR	1300
	500	WCGU	1400
	500	WFOX	1400
	500	WLTH	1400
	100	WMBQ	1500
	100	WMIL	1500
Buffalo H-24	100	WBBN	R 900
	100	WBBR	1310
	1000	WGR	C 550
	5000	WKBW	C 1480
	50	WSVS	1370
Canton F-26	500	WCAD	1220
Chester Twp.	50		1210
Freeport I-27	100	WGBB	1210
Glens Falls G-27	50	WGLC	1370
Ithaca H-25	1000	WESG	1270
Jamaica H-27	100	WMRJ	1210
Jamestown H-24	50	WOCL	1210
New York City I-27	50000	WABC	C 860
	250	WBNX	1350
	50000	WBOQ	860
	250	WCDA	1350
	50000	WEAF	R 660
	500	WEVD	1300
	1000	WFAB	1300
	500	WINS	1180
	250	WHN	1010
	30000	WJZ	B 760
	5000	WLWL	1100
	500	WMCA	570
	250	WMSG	1350
	500	WNYC	570
	1000	WOV	1130
	250	WPAP	1010
	500	WPCH	810
	250	WQAO	1010
	250	WRNY	1010
Rochester G-25	5000	WHAM	B 1150
	500	WHEC	C 1430

# INDEX BY LOCATIONS WITH MAP KEY

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

## ILLINOIS

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

Cicero I-20

Decatur K-19  
Galesburg J-18  
Harrisburg L-19  
Joliet I-19

La Salle J-19  
Peoria J-19  
Quincy K-18  
Rockford I-19  
Rock Island I-18  
Springfield K-19

Tuscola K-20  
Urbana J-20  
Zion I-20

## INDIANA

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

## IOWA

Ames I-17	5000	WOI	640
Boone I-17	100	KFGQ	1310
Cedar Rapids I-18	100	KWCR	B 1420
Clarinda J-16	500	KSO	1380
Council Bluffs J-16	1000	KOIL	B 1260
Davenport I-18	5000	WOC	R 1000
Decorah H-18	100	KGCA	1270
	100	KWLC	1270
	5000	WHO	R 1000
	500	WSUI	880
	100	KFJB	1200
	100	WIAS	1310
	100	KICK	1420
	500	KFNF	890
	500	KMA	930
	1000	KSCJ	C 1330
	500	WMT	C 600

## KANSAS

	Watts		Keys.
Abilene K-15 bl	5000	KFBI	1050
Coffeyville M-15 tr	500	KGGF	1010
Dodge City L-13	100	KGNO	1210
Kansas City K-16	100	WLBF	1420
Lawrence K-16	500	KFKU	1220
	1000	WREN	B 1220
	500	KSAC	580
	1000	WIBW	C 580
	1000	KFH	C 1300

Manhattan K-15  
Topeka K-16  
Wichita L-15

## KENTUCKY

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

Paducah M-19

## LOUISIANA

Monroe P-18	100	KMLB	1200
New Orleans R-19	100	WABZ	1200
	1000	WDSU	C 1250
	100	WJBO	1420
	100	WJBW	1200
	500	WSMB	N 1320
	5000	WWL	850
	100	KRMD	1310
	1000	KTBS	N 1450
	100	KWEA	1210
	10000	KWKH	850

Shreveport P-17

## MAINE

Augusta F-28	100	WRDO	1370
Bangor F-29	100	WABI	1200
	500	WLZB	C 620
	1000	WCSH	R 940
	100	WAGM	1420

Portland F-28  
Presque Isle D-29 lc

## MARYLAND

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

Cumberland J-25  
Hagerstown J-25 rc

## MASSACHUSETTS

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

Fall River H-28  
Lexington G-28  
New Bedford H-28  
Springfield H-27

Worcester G-28

## MICHIGAN

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

East Lansing H-21



## INDEX BY FREQUENCIES AND DIAL NUMBERS

WCAH	ae	500	CA	Columbus, Ohio	Commercial Radio Service Co.
WFEA	ae	500	CH	Manchester, N. H.	New Hampshire Broadcasting Co.
WHEC	ae	500	CA	Rochester, N. Y.	WHEC, Inc. (Roch. Sav. Bank Bldg.)
WHP	ak	500	1CA(1)	Harrisburg, Pa.	WHP, Inc. (Harrisburg Telegraph)
WNBR	ae	500	.....	Memphis, Tenn.	Memphis Bdctg. Co. (WGBC)
WOKO	ae	500	CA	Albany, N. Y.	WOKO, Inc. (Hotel Ten Eyck)

### 1440 kilocycles 208.2 meters

CMBL	ak	20	1445	Havana, Cuba	Julio C. Hidalgo
CMBN	ak	30	1445	Havana, Cuba	Armando Romeu Marrero
KDFN	ak	500	.....	Casper, Wyo.	Donald L. Hathaway
KLS	ae	250	D	Oakland, Calif.	Warner Bros.
KXYZ	ak	250	.....	Houston, Texas	Harris County Broadcast Co.
WBIG	ae	500	C(1)	Greensboro, N. C.	No. Carolina Broadcasting Co., Inc.
WCBA	ah	250	.....	Allentown, Pa.	B. Bryan Musselman
WMBD	ae	500	3C(1)	Peoria, Ill.	Peoria Broadcasting Co.
WSAN	z	250	a	Allentown, Pa.	Allentown Call Publishing Co., Inc.
WTAD	ak	500	3	Quincy, Ill.	Illinois Broadcasting Corp.

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### 1450 kilocycles 206.8 meters

KTBS	ae	1000	N	Shreveport, La.	Tri-State Bdctg. System, Inc.
WBMS	ak	250	1	Hackensack, N. J.	WBMS Broadcasting Corp.
WGAR	ak	500	B	Cleveland, Ohio	WGAR Broadcasting Co., Inc.
WHOM	ae	250	1	Jersey City, N. J.	New Jersey Broadcasting Corp.
WNJ	ak	250	1	Newark, N. J.	The Radio Investment Co., Inc.
WSAR	ae	250	.....	Fall River, Mass.	Doughty & Welch Electric Co., Inc.
WTFI	ak	500	.....	Athens, Ga.	Liberty Broadcasting Co.

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### 1460 kilocycles 205.4 meters

KSTP	ae	10000	N	St. Paul, Minn.	National Battery Broadcasting Co.
WJSV	ck	10000	C	Washington, D. C.	Old Dominion Broadcasting Co.

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### 1470 kilocycles 204.0 meters

KGA	ak	5000	B	Spokane, Wash.	Northwest Broadcasting System
WLAC	ae	5000	C	Nashville, Tenn.	Life & Casualty Insurance Co.

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### 1480 kilocycles 202.6 meters

CMBK	z	15	1485	Havana, Cuba	Alberto Alvarez
CMBR	z	40	.....	Havana, Cuba	Tomas Basail
KOMA	ak	5000	C	Oklahoma City, Okla.	National Radio Mfg. Co.
WKBW	ae	5000	C	Buffalo, N. Y.	Buffalo Broadcasting Corp.

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### 1490 kilocycles 201.2 meters

WCKY	ae	5000	N	Covington, Ky.	L. B. Wilson, Inc. (Mabley & Carew)
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### 1500 kilocycles 199.9 meters

KBD	ak	100	CT	Santa Barbara, Calif.	Santa Barbara Broadcasters, Ltd.
KGFI	aj	100	(.25)	Corpus Christi, Texas	Eagle Broadcasting Co., Inc.
KGFK	ak	50	.....	Moorhead, Minn.	Red River Broadcasting Co., Inc.
KGIZ	ak	100	.....	Grant City, Mo.	Grant City Park Corp.
KGKB	bk	100	.....	Tyler, Texas	East Texas Broadcasting Co.
KGKY	ck	100	.....	Scottsbluff, Neb.	Hilliard Co., Inc.
KNOW	ak	100	.....	Austin, Texas	KUT Bdctg. Co. (Driskill Hotel)
KPJM	z	100	.....	Prescott, Arizona	A. P. Miller
KPO	aj	50	.....	Wenatchee, Wash.	Wescoast Broadcasting Co.
KREG	ak	100	.....	Santa Ana, Calif.	J. S. Edwards
KXO	z	100	.....	El Centro, Calif.	E. R. Irey and F. M. Bowles
WFDV	ak	100	.....	Rome, Ga.	Rome Broadcasting Corp.
WHEF	ak	100	(.25)	Kosciusko, Miss.	Attala Milling & Produce Co.
WKBV	z	100	.....	Connerville, Ind.	William O. Knox
WKBZ	ak	100	.....	Ludington, Mich.	K. L. Ashbacher
WLOE	ae	100	(.25)	Boston, Mass.	Boston Broadcasting Co. (WRSC)
WMBQ	ae	100	1	Brooklyn, N. Y.	Paul J. Gollhofer
WMIL	ak	100	1	Brooklyn, N. Y.	Arthur Faske
WMPC	ak	100	.....	Lapeer, Mich.	First Methodist Protestant Church
WNBF	ae	100	.....	Binghamton, N. Y.	Howitt-Wood Radio Co., Inc.
WOPI	ae	100	.....	Bristol, Tenn.	Radiophone Bdctg. Station WOPI
WPEN	ae	100	(.25)	Philadelphia, Pa.	Wm. Penn Broadcasting Co.
WRDW	ae	100	.....	Augusta, Ga.	Muscovoe, Inc. (Relays WLW)
WSYB	ae	100	.....	Rutland, Vt.	Phillip Weiss Music Co.
WRRL	ak	100	1	Woodside, N. Y.	Long Island Broadcasting Corp.
WWSW	ae	100	X(.25)	Pittsburgh, Pa.	Walker & Downing Radio Corp.

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KCYS.  
**1500**  
MTRS.  
**199.9**  
DIAL

OUT  
DOTTED  
LINES



INDEX BY FREQUENCIES AND DIAL NUMBERS

1390 kilocycles 215.7 meters

KLRA ae 1000 1C  
 KOY ae 500 C  
 KUOA bk 1000 1  
 WHK ae 1000 C

Little Rock, Ark.  
 Phoenix, Arizona  
 Fayetteville, Ark.  
 Cleveland, Ohio

Arkansas Broadcasting Co.  
 Nielson Radio & Sporting Goods Co.  
 Southwestern Hotel Co. (Ft. Smith)  
 Radio Air Service Corp. (Higbee Store)

1400 kilocycles 214.2 meters

CMCH ak 50 1405  
 CMCM z 15 1405  
 CMDB z 40 1405  
 KLO ae 500 .....  
 KOCW z 250 (.5)  
 WBAA ak 500 1  
 WBCC ae 500 2  
 WCGU ak 500 2  
 WCMA ak 500 1  
 WFOX ak 500 2  
 WKBF ak 500 1W  
 WLTH aeh 500 2  
 XEP z 200 .....

Havana, Cuba  
 Havana, Cuba  
 Havana, Cuba  
 Salt Lake City, Utah  
 Chickasha, Okla.  
 Lafayette, Ind.  
 Brooklyn, N. Y.  
 Brooklyn, N. Y.  
 Culver, Ind.  
 Brooklyn, N. Y.  
 Indianapolis, Ind.  
 Brooklyn, N. Y.  
 Laredo, Mexico

Wifredo & Hum. Fontanals Sanchez  
 Aurelio Balino  
 Julio Powers  
 Interstate Bdg. Corp. (Hotel Bigelow)  
 College for Women  
 Purdue University  
 Brooklyn Broadcasting Corp.  
 United States Broadcasting Corp.  
 General Broadcasting, Inc.  
 Paramount Broadcasting Co.  
 Indianapolis Broadcasting, Inc.  
 Voice of Brooklyn, Inc.  
 La Voz Latino

1410 kilocycles 212.6 meters

KFLV ak 500 4  
 KGRS ae 1000 1  
 WAAB ae 500 CH  
 WBCM ae 500 C  
 WDAG ae 1000 1  
 WHBL ae 500 4  
 WHIS ak 250 2  
 WODX ea 500 3CU  
 WRBX ae 250 2  
 WSFA ak 500 3C

Rockford, Ill.  
 Amarillo, Texas  
 Boston, Mass.  
 Bay City, Mich.  
 Amarillo, Texas  
 Sheboygan, Wis.  
 Bluefield, W. Va.  
 Mobile, Ala.  
 Roanoke, Va.  
 Montgomery, Ala.

Rockford Broadcasters, Inc.  
 E. B. Gish  
 Bay State Broadcasting Corp.  
 James E. Davidson  
 National Radio & Bdctg. Corp.  
 The Press Publishing Co.  
 Daily Telegraph  
 Mobile Broadcasting Corp.  
 Richmond Development Corp.  
 Montgomery Broadcasting Co., Inc.

1420 kilocycles 211.1 meters

KABC ak 100 .....  
 KBPS aj 100 4  
 KCMC ak 100 .....  
 KFIZ ak 100 .....  
 KGFF ak 100 .....  
 KGGC ak 100 5  
 KGIW ak 100 1  
 KGIX ak 100 .....  
 KGKX z 100 .....  
 KICK z 100 Y  
 KIDW ak 100 1  
 KORE aeh 100 .....  
 KUMA ak 100 .....  
 KWCR ae 100 B(.25)  
 KXL ae 100 4  
 WAGM ae 100 .....  
 WAMC ae 100 .....  
 WEHS ak 100 a  
 WELL z 50 .....  
 WENC ak 100 D  
 WERE ae 100 .....  
 WHDL aeh 100 D  
 WHFC ae 100 a  
 WILM ae 100 2  
 WJBO z 100 D  
 WJMS ak 100 .....  
 WKBI ak 100 a  
 WKEA z 100 P2  
 WLBF ae 100 .....  
 WMAS ak 100 CH  
 WMBC ae 100 (.25)  
 WMBH ak 100 (.25)  
 WPAD ak 100 .....  
 WSPA aeh 100 (.25)  
 WTBO ae 100 (.25)

San Antonio, Texas  
 Portland, Ore.  
 Texarkana, Ark.  
 Fond du Lac, Wis.  
 Shawnee, Okla.  
 San Francisco, Calif.  
 Trinidad, Colo.  
 Las Vegas, Nevada  
 Lewiston, Idaho  
 Red Oak, Iowa  
 Lamar, Colo.  
 Eugene, Ore.  
 Yuma, Arizona  
 Cedar Rapids, Iowa  
 Portland, Ore.  
 Presque Isle, Maine  
 Anniston, Ala  
 Cicero, Ill.  
 Battle Creek, Mich.  
 Americus, Ga.  
 Erie, Pa.  
 Tupper Lake, N. Y.  
 Cicero, Ill.  
 Wilmington, Del.  
 New Orleans, La.  
 Ironwood, Mich.  
 Cicero, Ill.  
 Hazleton, Pa.  
 Kansas City, Kans.  
 Springfield, Mass.  
 Detroit, Mich.  
 Joplin, Mo.  
 Paducah, Ky.  
 Spartanburg, S. C.  
 Cumberland, Md.

Alamo Bctg. Co., Inc. (Texas Theatre)  
 Student Body Benson Polytech. School  
 Texarkana Gazette & Daily News  
 Reporter Printing Co.  
 KGFF Bdctg. Co. (Aldridge Hotel)  
 Golden Gate Broadcasting Co.  
 Leonard E. Wilson  
 J. M. Heaton  
 Sand Point Broadcasting Co.  
 Red Oak Radio Corp.  
 Southwest Broadcasting Co.  
 Frank L. Hill & Curtis G. Phillips  
 Dr. Albert H. Schermann  
 Cedar Rapids Broadcast Co.  
 KXL Broadcasters (Hotel Multnomah)  
 Aroostook Broadcasting Corp.  
 Raymond C. Hammett (Alabama Hot.)  
 WEHS, Inc.  
 Enquirer-News Co.  
 Americus Broadcast Co.  
 Erie Bdctg. Corp. (Lawrence Hotel)  
 Tupper Lake Broadcasting Co., Inc.  
 WHFC, Inc.  
 Delaware Broadcasting Co.  
 Valdemar Jensen  
 WJMS, Inc. (St. James Hotel)  
 WKBI, Inc.  
 Herman G. Halsted  
 WLBF Bdctg. Co. (Aladdin Hotel)  
 Albert S. Moffet  
 Michigan Broadcasting Co.  
 W. M. Robertson  
 Paducah Bdctg. Co. (Cortina Hotel)  
 The Voice of South Carolina  
 Interstate Broadcasting System, Inc.

1430 kilocycles 209.7 meters

KECA ah 1000 N  
 KGNE ak 500 D  
 WBAK ak 500 1(1)

Los Angeles, Calif.  
 North Platte, Neb.  
 Harrisburg, Pa.

Earle C. Anthony, Inc.  
 Great Plains Broadcasting Co.  
 Pennsylvania State Police

INDEX BY FREQUENCIES AND DIAL NUMBERS

1350 kilocycles 222.1 meters

KIDO	ak	1000	.....	Boise, Idaho
KWK	ae	1000	B	St. Louis, Mo.
WAWZ	ae	250	1	Zarephath, N. J.
WBXN	ae	250	1a	New York City
WCDA	ae	250	1a	New York City
WEHC	ae	500	D	Emory, Va.
WMSG	ae	250	1a	New York City

C. G. Phillips & Frank Hill  
 Thomas Patrick, Inc. (Hotel Chase)  
 Pillar of Fire  
 New York Met. Broadcasting Corp.  
 Italian Educ. Bdctg. Co., Inc.  
 Emory & Henry College  
 New York Met. Broadcasting Corp.

1360 kilocycles 220.4 meters

CMBF	z	150	1365	Havana, Cuba
CMCY	ak	1000	1365	Havana, Cuba
KGER	ah	1000	.....	Long Beach, Calif.
KGIR	ak	500	NJ	Butte, Mont.
WCSC	ae	500	.....	Charleston, S. C.
WFBL	ak	1000	C(2.2)	Syracuse, N. Y.
WGES	ae	500	1(1)	Chicago, Ill.
WJKS	agj	1000	1Z	Gary, Ind.
WQBC	ak	500	.....	Vicksburg, Miss.

Ramon Bardales  
 M. D. Autran  
 Consolidated Bdctg. Co. (R/C Los An.)  
 KGIR, Inc.  
 So. Carolina Broadcasting Co., Inc.  
 Onondaga Radio Broadcasting Corp.  
 Oak Leaves Broadcasting Station, Inc.  
 Johnson-Kennedy Radio Corp.  
 Delta Bdctg. Co. (Post-Herald Station)

1370 kilocycles 218.7 meters

CMGE	z	30	1375	Cardenas, Cuba
KCRC	ak	100	2(.25)	Enid, Okla.
KFBL	aj	50	3	Everett, Wash.
KFJM	zk	100	.....	Grand Forks, N. Dak.
KFJZ	ae	100	.....	Fort Worth, Texas
KFLX	z	100	.....	Galveston, Texas
KGAR	ae	100	(.25)	Tucson, Arizona
KGDA	ak	100	.....	Mitchell, S. Dak.
KGFG	bk	100	2	Oklahoma City, Okla.
KGFL	zk	100	4	Santa Fe, N. Mex.
KGKL	ak	100	4	San Angelo, Texas
KICA	z	100	4	Clovis, N. Mex.
KMAC	z	100	5	San Antonio, Texas
KONO	ak	100	5	San Antonio, Texas
KOOS	ae	100	.....	Marshfield, Ore.
KRE	ak	100	.....	Berkeley, Calif.
KUJ	ak	100	D	Walla Walla, Wash.
KVL	z	100	3	Seattle, Wash.
KWKC	z	100	.....	Kansas City, Mo.
WBTM	z	100	7	Danville, Va.
WCBM	ae	100	Z(.25)	Baltimore, Md.
WDAS	ae	100	(.25)	Philadelphia, Pa.
WGLC	z	50	.....	Glens Falls, N. Y.
WGL	ae	100	C	Fort Wayne, Ind.
WHBD	bk	100	.....	Mount Orab, Ohio
WHBQ	ak	100	.....	Memphis, Tenn.
WHDF	ak	100	(.25)	Calumet, Mich.
WIBM	ae	100	1	Jackson, Mich.
WJBK	ae	50	10	Detroit, Mich.
WJEQ	z	100	6P	Williamsport, Pa.
WJTL	ae	100	.....	Atlanta, Ga.
WLEY	ae	100	(.25)	Lexington, Mass.
WLVA	ck	100	7	Lynchburg, Va.
WMBR	ak	100	.....	Tampa, Fla.
WPFB	ak	100	.....	Hattiesburg, Miss.
WQDM	ak	100	D	St. Albans, Vt.
WRAK	ak	100	6	Williamsport, Pa.
WRAM	ae	100	.....	Wilmington, N. C.
WRDO	ae	100	.....	Augusta, Maine
WRJN	ae	100	.....	Racine, Wis.
WSVS	ak	50	.....	Buffalo, N. Y.
XEFZ	ae	100	.....	Coyoacan, Mexico

Genaro Sebater  
 Enid Radiophone Co. (Oxford Hotel)  
 Leese Bros.  
 University of North Dakota  
 Fort Worth Broadcasters, Inc.  
 George Roy Clough  
 Tucson Motor Service Co.  
 Mitchell Broadcasting Corp.  
 Oklahoma Broadcasting Co., Inc.  
 KGFL, Inc.  
 KGKL, Inc. (St. Angelus Hotel)  
 W. E. Whitmore  
 Walmac Co., Inc. (Blue Bonnet Stud.)  
 Mission Broadcasting Co.  
 H. H. Hanseth, Inc. (Hall Bldg.)  
 First Cong. Church of Berkeley  
 KUJ, Inc. (Marcus Whitman Hotel)  
 KVL, Inc.  
 Wilson Duncan Broadcasting Co.  
 Piedmont Broadcasting Corp.  
 Baltimore Broadcasting Corp.  
 WDAS Bdctg. Sta., Inc. (Elks Hotel)  
 W. N. Parker and H. H. Metcalfe  
 F. C. Zieg  
 F. P. Moler  
 Station WHBQ, Inc. (Hotel Claridge)  
 Upper Michigan Broadcasting Co.  
 WIBM, Inc. (Osetga Hotel)  
 James F. Hopkins, Inc. (Curtiss Bldg.)  
 Sun-Gazette Broadcasting Co.  
 Oglethorpe University  
 Lexington Air Station  
 Lynchburg Broadcasting Corp.  
 F. J. Reynolds  
 Hattiesburg Broadcasting Co.  
 A. J. St. Antoine & E. J. Regan  
 C. R. Cummins (Penn Central Bldg.)  
 Wilmington Radio Assn., Inc.  
 WRDO, Inc. (Augusta House)  
 Racine Bdctg. Corp. (Hotel Racine)  
 Seneca Vocational School  
 Manuel Zetina

KCY.S.  
 1380  
 MTRS.  
 217.3  
 DIAL

1380 kilocycles 217.3 meters

CMJC	z	150	1382	Camaguey, Cuba
KOH	ak	500	C	Reno, Nevada
KQV	ak	500	2	Pittsburgh, Pa.
KSO	z	500	Y	Clarinda, Iowa
WKBH	aj	1000	1C	LaCrosse, Wis.
WSMK	ak	200	2	Dayton, Ohio
XETB	z	125	.....	Torreon, Coah., Mex.

Feliciano Isaac  
 McClatchy Newspapers  
 KQV Bdctg. Co. (Investment Bldg.)  
 Iowa Broadcasting Co.  
 WKBH, Inc. (Radio Bldg.)  
 Stanley M. Krohn, Jr.  
 Jose A. Berumen

CUT OUT  
 ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1310 kilocycles 228.9 meters



CMJP	z	7.5	.....	Moron, Cuba
KCRJ	ak	100	D	Jerome, Arizona
KFBK	ak	100	C	Sacramento, Calif.
KFGQ	ak	100	7	Boone, Iowa
KFPL	ck	100	.....	Dublin, Texas
KFPM	ae	15	.....	Greenville, Texas
KFXJ	ak	100	.....	Grand Junction, Colo.
KFXR	ak	100	(.25)	Oklahoma City, Okla.
KFYO	z	100	(.25)Z	Lubbock, Texas
KGBX	ae	100	.....	Springfield, Mo.
KGCX	ak	100	(.25)	Wolf Point, Mont.
KGEZ	aj	100	.....	Kalispell, Mont.
KGFW	ah	100	.....	Kearney, Neb.
KIT	ak	100	.....	Yakima, Wash.
KMED	ak	100	.....	Medford, Ore.
KRMD	ak	100	.....	Shreveport, La.
KTSM	z	100	a	El Paso, Texas
KXRO	ak	100	.....	Aberdeen, Wash.
WBEO	z	100	.....	Marquette, Mich.
WBOW	ak	100	.....	Terre Haute, Ind.
WBRE	z	100	.....	Wilkes-Barre, Pa.
WCLS	ae	100	.....	Joliet, Ill.
WDAH	z	100	b	El Paso, Texas
WBBR	ae	100	a	Buffalo, N. Y.
WEXL	ak	50	Q(.25)	Royal Oak, Mich.
WFBG	ae	100	3	Altoona, Pa.
WFDF	ae	100	.....	Flint, Mich.
WGAL	ae	100	5	Lancaster, Pa.
WGH	ae	100	.....	Newport News, Va.
WHAT	ak	100	4	Philadelphia, Pa.
WIAS	ak	100	7	Ottumwa, Iowa
WJAC	ae	100	3	Johnstown, Pa.
WKAV	ae	100	.....	Laconia, N. H.
WKBB	ae	100	b	Joliet, Ill.
WKBC	z	100	.....	Birmingham, Ala.
WKBS	z	100	.....	Galesburg, Ill.
WLBC	ak	50	6	Muncie, Ind.
WMBO	ak	100	.....	Auburn, N. Y.
WNBH	ak	100	H(.25)	New Bedford, Mass.
WOL	ae	100	.....	Washington, D. C.
WRAW	ak	100	5X	Reading, Pa.
WROL	ak	100	.....	Knoxville, Tenn.
WSAJ	ae	100	.....	Grove City, Pa.
WSJS	ae	100	C	Winston-Salem, N. C.
WTEL	ae	100	4	Philadelphia, Pa.
WTJS	ak	100	(.25)	Jackson, Tenn.
WTRC	ak	50	6	Elkhart, Ind.
WTSL	z	100	.....	Laurel, Miss.
XEFB	ak	100	1315	Monterrey, N. L., Mex.
XEI	ak	150	.....	Morelia, Mexico

Cesar Canals
Chas. C. Robinson
Jas. McClatchy Co.
Boone Biblical College
C. C. Baxter
New Furniture Co.
Western Slope Broadcasting Co.
Exchange Ave. Baptist Church
T. E. Kirksey
KGBX, Inc.
First State Bank of Vida
Donald C. Treloar
Central Nebraska Bdctg. Corp.
Valley Broadcasters, Inc.
Mrs. W. J. Virgin
KRMD, Inc. (Jefferson Hotel)
Tri-State Broadcasting Co., Inc.
KXRO, Inc. (Hotel Morek)
Lake Superior Broadcasting Co.
Banks of Wabash, Inc.
Louis G. Baltimore
WCLS, Inc.
Tri-State Broadcasting Co., Inc.
Howell Broadcasting Station
Royal Oak Broadcasting Co.
The William F. Gable Co.
Frank D. Fallain (Union Ind. Bldg.)
WGAL, Inc. (Lancaster Newsp. Bldg.)
Hampton Roads Broadcasting Corp.
Independence Broadcasting Co.
Iowa Bdctg. Co. (Hotel Ottumwa)
WJAC, Inc.
Laconia Radio Club
Richard W. Hoffman
R. B. Broyles Furniture Co.
Permil N. Nelson
D. A. Burton—A. J. Marriott
WMBO, Inc. (Masonic Temple)
New Bedford Bdctg. Co. (N. B. Hotel)
American Broadcasting Co.
Reading Broadcasting Co.
Stuart Bdctg. Co. (Farragut Hotel)
Grove City College
Winston-Salem Journal Co.
Foulkrod Radio Eng. Co., Inc.
Sun Publishing Co. (Sun Bldg.)
Elkhart Daily Truth
G. A. Houseman
Quintanilla y Stevenson
Carlos Gutierrez M.

1320 kilocycles 227.1 meters



CMCR	z	150	1325	Havana, Cuba
CMCW	z	150	1325	Havana, Cuba
KGHF	ak	250	(.5)	Pueblo, Colo.
KGMB	ak	250	C	Honolulu, Hawaii
KID	ae	250	(.5)	Idaho Falls, Idaho
WADC	ae	1000	C	Akron, Ohio
WSMB	ae	500	N	New Orleans, La.

Aurelio Hernandez
Jose Lorenzo
C. P. Ritchie & J. E. Finch
Honolulu Broadcasting Co.
KID Broadcasting Co., Inc.
Allan T. Simmons
WSMB, Inc.

1330 kilocycles 225.4 meters



KGB	ae	1000	CT	San Diego, Calif.
KMO	ak	250	.....	Tacoma, Wash.
KSCJ	ah	1000	1C(2.5)	Sioux City, Iowa
WDRG	ae	500	CH	Hartford, Conn.
WSAI	ae	500	R(1)	Cincinnati, Ohio
WTAQ	ae	1000	1C	Eau Claire, Wis.

Don Lee Broadcasting System
KMO, Inc. (Hotel Winthrop)
Perkins Bros. Co.
WDRG, Inc.
The Crosley Radio Corp.
The Gillette Rubber Co.

1340 kilocycles 223.7 meters



KFPY	ae	1000	CT	Spokane, Wash.
WCOA	agj	500	.....	Pensacola, Fla.
WSPD	ag	1000	C	Toledo, Ohio

Symons Bdctg. Co. (Symons Bldg.)
Pensacola Bdctg. Co. (San Carlos Hot.)
Toledo Bdctg. Co. (Com. Perry Hotel)

## INDEX BY FREQUENCIES AND DIAL NUMBERS

KTAT	ak	1000	1	Fort Worth, Texas	KTAT Broadcast Co., Inc.
KTFI	ak	500	.....	Twin Falls, Idaho	Radio Broadcasting Corp. of Idaho
WACO	ak	1000	1C	Waco, Texas	Central Texas Broadcasting Co.
WKAO	ae	1000	.....	San Juan, P. R.	Radio Corp. of Porto Rico
WXYZ	ak	1000	.....	Detroit, Mich.	Kunsky-Trendle Broadcasting Corp.

### 1250 kilocycles 239.9 meters

KFMX	aj	1000	2	Northfield, Minn.	Carleton College
KFOX	ae	1000	CT	Long Beach, Calif.	Nichols & Warinner, Inc.
WAAM	ae	1000	1(2.5)	Newark, N. J.	WAAM, Inc.
WCAL	ae	1000	2	Northfield, Minn.	St. Olaf College
WDSU	ak	1000	C	New Orleans, La.	Jos. H. Uhalt
WGCP	ak	250	1	Newark, N. J.	May Radio Broadcasting Co.
WLB	ak	1000	2	Minneapolis, Minn.	University of Minnesota
WODA	z	1000	1	Paterson, N. J.	Richard E. O'Dea
WRHM	ae	1000	2	Minneapolis, Minn.	Minnesota Broadcasting Corp.
XEFA	z	250	.....	Mexico City, Mexico	Manuel F. Murguia

### 1260 kilocycles 238.0 meters

CMJI	ak	.....	5	Ciego de Avila, Cuba	Gilberto Gessa Lopez
KOIL	ak	1000	B	Council Bluffs, Iowa	Mona Motor Oil Co.
KRGV	ak	500	1	Harlingen, Texas	KRGV, Inc. (Rio Grande Na. Life Bldg.)
KVOA	ak	500	P	Tucson, Arizona	Robert M. Riculfi
KWWG	z	500	1	Brownsville, Texas	Frank P. Jackson
WLWB	ak	500	C(1)	Erie, Pa.	Broadcasters of Pennsylvania, Inc.
WNBX	ak	250	D	Springfield, Vt.	WNBX Broadcasting Corp.
WTOC	ae	500	CU	Savannah, Ga.	Savannah Broadcasting Co., Inc.

### 1270 kilocycles 236.1 meters

CMBD	z	150	.....	Havana, Cuba	Luis Perez Garcia
CMCN	z	250	.....	Havana, Cuba	Antonio Ginard
KGCA	ak	100	D2	Decorah, Iowa	Chas. W. Greenley
KOL	ae	1000	CT	Seattle, Wash.	Seattle Broadcasting Co.
KWOR	ae	1000	C	Colorado Springs, Col.	Reynolds Radio Co., Inc.
KWLC	ak	100	D2	Decorah, Iowa	Luther College
WASH	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.
WESG	ae	1000	D	Ithaca, N. Y.	Cornell University
WFBR	ae	500	R	Baltimore, Md.	Baltimore Radio Show, Inc.
WJDX	ak	1000	N	Jackson, Miss.	Lamar Life Insurance Co.
WOOD	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.

### 1280 kilocycles 234.2 meters

KFBB	aeh	1000	(2.5)	Great Falls, Mont.	Buttrely Broadcast, Inc.
WCAM	aeh	500	1	Camden, N. J.	City of Camden (City Hall Tower)
WCAP	ae	500	1C	Asbury Park, N. J.	Radio Industries Broadcast Co.
WDOD	ae	1000	C(2.5)	Chattanooga, Tenn.	WDOD Bdctg. Corp. (Hotel Patten)
WIBA	ae	500	N(1)	Madison, Wis.	Badger Broadcasting Co., Inc.
WOAX	geh	500	1	Trenton, N. J.	Trenton Broadcasting Co.
WRR	ach	500	C	Dallas, Texas	City of Dallas (Hilton Hotel)

### 1290 kilocycles 232.4 meters

CMHL	z	20	.....	Cienfuegos, Cuba	Oscar Zayas
KDYL	ak	1000	N	Salt Lake City, Utah	Intermountain Broadcasting Corp.
KFUL	ak	500	1	Galveston, Texas	News Publishing Co. (Buccaneer Hotel)
KLCN	z	50	D	Blytheville, Ark.	C. L. Lintzenich
KTSA	ak	1000	1C(2.5)	San Antonio, Texas	Lone Star Broadcast Co. (Plaza Hotel)
WEBC	ae	1000	N(2.5)	Superior, Wis.	Head of the Lakes Broadcasting Co.
WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.	Pittsburgh Radio Supply House
WNBZ	z	50	D	Saranac Lake, N. Y.	Smith & Mace

### 1300 kilocycles 230.6 meters

CMKJ	z	20	.....	Guantanamo, Cuba	Luis Morlote
KALE	ak	500	3C	Portland, Ore.	KALE, Inc.
KFAC	aj	1000	.....	Los Angeles, Calif.	Los Angeles Broadcasting Co.
KFH	ae	1000	C	Wichita, Kans.	Wichita Eagle—Hotel Lassen
KFJR	ag	500	3	Portland, Ore.	Ashley C. Dixon—KFJR, Inc.
WBEB	aej	1000	1	Brooklyn, N. Y.	Peoples Pulpit Assn.
WEVD	ae	500	1	New York City	Debs Memorial Radio Fund, Inc.
WFAB	z	1000	1	New York City	Defenders of Truth Society, Inc.
WHAZ	ae	500	1	Troy, N. Y.	Rensselaer Polytechnic Institute
WIOD	aeh	1000	N	Miami, Fla.	Isle of Dreams Broadcasting Corp.
WOO	ae	1000	.....	Kansas City, Mo.	Unity School of Christianity
XEM	z	250	.....	Tampico, Tams, Mex.	Maria T. de Gutierrez

CUT OUT ON DOTTED LINES

KYCS.  
1300  
MTRS.  
230.6  
DIAL



## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1160 kilocycles 258.5 meters

WOWO	ae	10000	1C	Fort Wayne, Ind.
WVVA	ae	5000	1C	Wheeling, W. Va.

Main Auto Supply Co.
West Virginia Broadcasting Corp.

### 1170 kilocycles 256.3 meters

CMJE	z	50	1175	Camaguey, Cuba
WCAU	ae	50000	C	Philadelphia, Pa.

Manuel Fernandez
Universal Broadcasting Corp.

### 1180 kilocycles 254.1 meters

CMW	ae	1400	1185	Havana, Cuba
KEX	ak	5000	2N	Portland, Ore.
KOB	ak	10000	2	Albuquerque, N. M.
WDGY	ak	1000	Dn	Minneapolis, Minn.
WINS	ak	500	.....	New York City
WMAZ	ak	500	.....	Macon, Ga.

Troncoso y Gil
National Broadcasting Co.
N. M. Coll. of Agr. & Mechanical Arts
George W. Young
American Radio News Corp.
Southeastern Broadcasting Co.

### 1190 kilocycles 252.0 meters

WOAI	aeh	50000	N	San Antonio, Texas
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Southern Equipment Co.
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### 1200 kilocycles 249.9 meters

CHCH	z	100	.....	Montreal, Que.
CKOV	ak	100	.....	Kelowna, B. C.
CMGB	z	30	1205	Matanzas, Cuba
KBTM	ak	100	D	Paragould, Ark.
KERN	ak	100	CT	Bakersfield, Calif.
KFJB	ak	100	(.25)	Marshalltown, Iowa
KFWF	ak	100	5	St. Louis, Mo.
KFXD	ae	100	(.25)	Nampa, Idaho
KGDE	ae	100	(.25)	Fergus Falls, Minn.
KGDY	ak	100	.....	Huron, S. D.
KGEK	ak	100	9	Yuma, Colo.
KGEW	ak	100	9	Ft. Morgan, Colo.
KGFJ	ak	100	.....	Los Angeles, Calif.
KGHI	ak	100	.....	Little Rock, Ark.
KGVO	ak	100	.....	Missoula, Mont.
KMLB	ae	100	.....	Monroe, La.
KVOS	z	100	.....	Bellingham, Wash.
KWG	aeh,	100	CT	Stockton, Calif.
WABI	ak	100	.....	Bangor, Maine
WABZ	ak	100	1	New Orleans, La.
WBBZ	ak	100	.....	Ponca City, Okla.
WBHS	ak	100	4	Huntsville, Ala.
WCAT	ak	100	D	Rapid City, S. D.
WCAZ	ak	100	.....	Burlington, Vt.
WCLO	ak	100	.....	Janesville, Wis.
WCOD	ae	100	3	Harrisburg, Pa.
WFAM	ak	100	8C	South Bend, Ind.
WFBE	ak	100	(.25)	Cincinnati, Ohio
WHBC	ak	10	.....	Canton, Ohio
WHBY	ak	100	.....	Green Bay, Wis.
WIBX	z	100	(.3)	Utica, N. Y.
WIL	ae	100	5(.25)	St. Louis, Mo.
WJBC	ae	100	6	LaSalle, Ill.
WJBL	ae	100	6	Decatur, Ill.
WJWB	ak	100	1	New Orleans, La.
WJJC	ae	100	3	Lancaster, Pa.
WLAP	ae	100	(.25)	Louisville, Ky.
WNBO	aeh	100	.....	Washington, Pa.
WNBW	z	10	(.1)	Carbondale, Pa.
WORC	ak	100	CH	Worcester, Mass.
WPHR	ae	100	(.25)	Petersburg, Va.
WRBL	ak	100	.....	Columbus, Ga.
WWAE	aeh	100	8	Hammond, Ind.
10-AB	ak	25	.....	Moose Jaw, Sask.
10-AK	ak	15	.....	Stratford, Ont.
10-BI	ak	25	.....	Prince Albert, Sask.
10-BP	ak	25	1199	Wingham, Ont.
10-BQ	ak	15	.....	Brantford, Ont.
10-BU	z	15	.....	Canora, Sask.

Montreal Radio Corp.
Okanagan Broadcasters, Ltd.
Jose Anorga
Beard's Temple of Music
Bee Bakersfield Broadcasting Co.
Marshall Electric Co., Inc.
St. Louis Truth Center, Inc.
Frank E. Hurt (R/C Boise)
Jaren Drug Co.
Voice of South Dakota, Inc.
Beehler Electrical Equipment Co.
City of Fort Morgan
Ben. S. McGlashan
O. A. Cook
Mosby's, Inc.
Liner's Broadcasting Station, Inc.
KVOS, Inc.
McClatchy Newspapers
First Universalist Society
Samuel D. Reeks
C. L. Carrell (R/C various cities)
Radio Station WBHS, Inc.
State School of Mines
Burlington Daily News
WCLO Radio Corp. (R/C Beloit)
Keystone Broadcasting Corp.
South Bend Tribune (WSBT)
The Post Publishing Co., Opr.
Edward P. Graham
St. Norbert College (Bellin Bldg.)
WIBX, Inc.
Missouri Broadcasting Corp.
Kaskaskia Broadcasting Co.
Commodore Broadcasting, Inc.
C. C. Carlson
Lancaster Bdctg. Service, Inc.
American Broadcasting Corp. of Ky.
Spriggs Symplex
WNBW, Inc.
A. F. Kleindienst
WLBG, Inc.
WRBL Radio Station, Inc.
Hammond-Calumet Bdctg. Corp.
Moose Jaw Radio Assn.
M. I. Higgins Elec. & Radio Co.
Prince Albert Radio Club
W. T. Cruickshank
Tom Brown & Harold Brown
Canora Radio Assn.

KCYS.

1210

MTRS.

247.8

DIAL

CUT OUT ON DOTTED LINES

### 1210 kilocycles 247.8 meters

CFGO	ak	250	8G	Chatham, Ont.
CFNB	ae	100	E	Fredericton, N. B.

John Beardall (Wm. Pitt Hotel)
James S. Neill & Sons, Ltd.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1060 kilocycles 282.8 meters

KWJJ z 500 Dn Portland, Ore.  
 WBAL ae 1000 1B Baltimore, Md.  
 WJAG ak 1000 Dn Norfolk, Neb.  
 WTIC ak 5000 1R Hartford, Conn.

KWJJ Broadcast Co., Inc.  
 Consolidated Gas, Elec. L. & Pwr. Co.  
 Norfolk Daily News  
 Travelers' Bdctg. Service Corp.

1070 kilocycles 280.2 meters

CMBG z 225 ..... Havana, Cuba  
 CMCB af 150 ..... Havana, Cuba  
 KJBS ae 100 D San Francisco, Calif.  
 WCAZ ae 50 D Carthage, Ill.  
 WDZ ak 100 D Tuscola, Ill.  
 WTAM ak 5000 R Cleveland, Ohio  
 XEG z 250 ..... Mexico City, Mexico

John L. Stowers  
 Metropolitan-Radio de Cuba  
 Julius Brunton & Sons Co.  
 Superior Bdctg. Service, Inc.  
 James L. Bush  
 National Broadcasting Co., Inc.  
 Miguel Yarza

1080 kilocycles 277.6 meters

WBT ae 25000 CU Charlotte, N. C.  
 WCBD ae 5000 1Dn Zion, Ill.  
 WMBI ck 5000 1Dn Chicago, Ill.

Station WBT, Inc.  
 Wilbur Glenn Voliva  
 Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX ak 5000 C St. Louis, Mo.

Voice of St. Louis, Inc.

1100 kilocycles 272.6 meters

KGDM ak 250 D Stockton, Calif.  
 WLWL ae 5000 1 New York City  
 WPG ae 5000 1C Atlantic City, N. J.

E. F. Peffer  
 Missionary Society of St. Paul  
 Municipality of Atlantic City

1110 kilocycles 270.1 meters

CMJO z 15 ..... Ciego de Avila, Cuba  
 KSOO ae 1000 Dn(2.5) Sioux Falls, So. Dak.  
 VONF z 500 1115 St. John's, N. F.  
 WRVA ae 5000 N Richmond, Va.  
 XENT z 5000 1115 Neuvo Laredo, Mex.

Rey-Borges  
 Sioux Falls Broadcast Assn., Inc.  
 Larus & Bros. Co., Inc.  
 Norman T. Baker

1120 kilocycles 267.7 meters

CFCa ak 500 G Toronto, Ont.  
 CFJC ak 100 EL Kamloops, B. C.  
 CHGS ce 100 VX Summerside, P. E. I.  
 CJOC ak 100 ..... Lethbridge, Alta.  
 CMHJ ae 40 1125 Cienfuegos, Cuba  
 KFI0 ae 100 D Spokane, Wash.  
 KFSG ak 500 3 Los Angeles, Calif.  
 KRKD aeh 500 3 Los Angeles, Calif.  
 KRSC ak 100 D Seattle, Wash.  
 KTRH ak 500 2C Houston, Tex.  
 WDEL aj 250 (.5) Wilmington, Del.  
 WHAD ae 250 1C Milwaukee, Wis.  
 WISN ak 250 1C Milwaukee, Wis.  
 WTAW ae 500 2 College Station, Texas

Toronto Daily Star  
 The Kamloops Sentinel  
 R. T. Holman, Ltd.  
 Harold R. Carson  
 Victorino Lopez (Hotel Bristol)  
 Spokane Broadcasting Corp.  
 Echo Park Evangelistic Assn.  
 Dalton's, Inc. (Arcade Bldg.)  
 Radio Sales Corp. (Wash. Ath. Club)  
 KTRH Broadcasting Co. (Rice Hotel)  
 WDEL, Inc.  
 Marquette University  
 American Radio News Corp.  
 Agricultural & Mech. College

1130 kilocycles 265.3 meters

KSL ae 5000 C Salt Lake City, Utah  
 WJJD ze 20000 Dn Chicago, Ill.  
 WOV ae 1000 D New York City  
 XEH ak 1000 1132 Monterrey, Mexico

Radio Service Corp. of Utah  
 WJJD, Inc. (Palmer House)  
 International Broadcasting Corp.  
 Tarnava & Cia

1140 kilocycles 263.0 meters

CMBJ z 150 ..... Havana, Cuba  
 CMBW z 150 ..... Havana, Cuba  
 KVOO ae 5000 IN Tulsa, Okla.  
 WAPI aj 5000 IN Birmingham, Ala.  
 XETA z 500 ..... Mexico City, Mexico

Emilio Perera  
 Alvarez-Moris  
 Southwestern Sales Corp.  
 WAPI Broadcasting Corp.  
 Manuel Espinosa Tagle

1150 kilocycles 260.7 meters

CMJH ak 50 ..... Ciego de Avila, Cuba  
 WHAM ae 5000 BX Rochester, N. Y.  
 XEA ak 500 K1155 Guadalajara, Mexico  
 10-AT z 25 1155 Trail, B. C.

Luis Marauri Mendoza  
 Stromberg-Carlson Tel. Mfg. Co.  
 Radiofonografica de Guadalajara, S. A.  
 Trail Amateur Radio Assn.

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970 kilocycles 309.1 meters

KJR ae 5000 N Seattle, Wash.  
 WCFL ak 1500 RX Chicago, Ill.

Northwest Broadcasting System, Inc.  
 Chicago Federation of Labor

980 kilocycles 305.9 meters

CFCN ak 10000 985FL Calgary, Alberta  
 CMGF z 100 987 Matanzas, Cuba  
 KDKA ak 50000 B Pittsburgh, Pa.

The Voice of the Prairies, Ltd.  
 Bernabe R. de la Torre  
 Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

WBZ ak 25000 BA Boston, Mass.  
 WBZA ak 1000 BA Springfield, Mass.  
 XEK z 101 ..... Mexico City, Mexico

Westinghouse Elec. & Mfg. Co.  
 Westinghouse Elec. & Mfg. Co.  
 Arturo Martinez

1000 kilocycles 299.8 meters

KFVD ak 250 Dn Los Angeles, Calif.  
 WHO z 5000 RAX Des Moines, Iowa  
 WOC ak 5000 RAX Davenport, Iowa  
 WORK aj 1000 D York, Pa.  
 XEC z 50 ..... Toluca, Mexico  
 XEE z 105 ..... Oaxaca, Oax., Mexico  
 XEFE z 100 ..... N. Laredo, Tarns., Mex.  
 XEFI z 100 ..... Chihuahua, Mexico  
 XEFS z 40 ..... Queretaro, Mexico  
 XEJ ak 100 K Juarez, Mexico  
 XEL ak 25 ..... Saltillo, Mexico  
 XETC z 100 ..... Jalapa, Ver., Mexico  
 XETG z 100 ..... Torreon, Coah., Mex.  
 XEU ak 100 1007K Veracruz, Mexico  
 XEV z 100 ..... Puebla, Pue., Mex.  
 XEY z 105 ..... Merida, Yuc.

Los Angeles Broadcasting Co.  
 Central Broadcasting Co.  
 Central Broadcasting Co.  
 York Broadcasting Co.  
 Jesus R. Bernavides  
 Alfonso Zorilla B.  
 Rafael T. Carranza  
 Feliciano Lopez Islas  
 Salvador Sandhez  
 Juan G. Buttner & Leo Allande  
 Antonio Garza Castro y J. T. Perez  
 Juventino Sanchez  
 Feliciano Lopez Islas  
 Baltasat Pazos Sosa  
 Cirol Molina  
 Partido Socialista S. E.

KCY.S.  
 1050  
 MTRS.  
 285.5  
 DIAL

1010 kilocycles 296.8 meters

CKIC ak 50 ..... Wolfville, N. S.  
 CMBZ ak 150 ..... Havana, Cuba  
 CMCX z 150 ..... Havana, Cuba  
 KGGF ak 500 2(1)Y So. Coffeyville, Okla.  
 KOW ae 500 T San Jose, Calif.  
 WHN ae 250 1 New York City  
 WIS ae 500 N(1) Columbia, S. C.  
 WNAD ae 500 2 Norman, Okla.  
 WPAP ae 250 1a New York City  
 WQAO ae 250 1a New York City  
 WRNY z 250 1 New York City

Acadia University  
 Manuel & Guillermo Salas  
 Diario "El Mundo"  
 Powell & Platz  
 Pacific Agricultural Foundation, Ltd.  
 Marcus Loew Booking Agency  
 South Carolina Bdctg. Co., Inc.  
 University of Oklahoma  
 Jersey Boulevard Corp.  
 Jersey Boulevard Corp.  
 Aviation Radio Station, Inc.

1020 kilocycles 293.9 meters

KYW ae 10000 N Chicago, Ill.  
 WRAX ae 250 D Philadelphia, Pa.  
 XEFD z 300 ..... Tiajuana, Mex.

Westinghouse Elec. & Mfg. Co. (KFKX)  
 WRAX Broadcasting Co.  
 Carlos de la Sierra

1030 kilocycles 291.1 meters

CFCF ae 500 NG Montreal, Que.  
 CMHI ck 30 a Santa Clara, Cuba  
 CMKC z 150 1034a Santiago de Cuba  
 CNRV ak 500 ..... Vancouver, B. C.  
 XEB ak 1000 ..... Mexico City, Mexico

Canadian Marconi Co.  
 Laviz & Paz  
 Pinol Batlle y Co.  
 Canadian National Railways  
 El Buen Tono, S. A.

1040 kilocycles 288.3 meters

CMGH z 15 ..... Matanzas, Cuba  
 KRLD ae 10000 1C Dallas, Tex.  
 KTHS ae 10000 1N Hot Springs, Ark.  
 WKAR ae 1000 D East Lansing, Mich.

O. y J. Alvarez  
 KRLD Radio Corp. (Adolphus Hotel)  
 Chamber of Commerce  
 Michigan State College

1050 kilocycles 285.5 meters

CMJG z 50 ..... Camaguey, Cuba  
 KFBI ae 5000 Dn Abilene, Kans.  
 KNX ae 5000 X Hollywood, Calif.  
 XEFC z 10 ..... Merida, Yuc.  
 XES adk 500 1055K Tampico, Mexico

Jose Antonio Lefran  
 Farmers & Bankers Life Ins. Co.  
 Western Broadcast Co.  
 Hugo Molina Font  
 Wendell Cox

CUT OUT ON DOTTED LINES



## INDEX BY FREQUENCIES AND DIAL NUMBERS

VOGT	z	400	893	Wabana, N. F.	The Gaiety Theatre
WGIL	ae	250	C(.5)	Atlanta, Ga.	Southern Broadcasting Co.
WJLL	ak	250	2(.5)	Urbana, Ill.	University of Illinois
WJAR	ae	250	(.5)R	Providence, R. I.	The Outlet Co.
WMMN	ae	250	(.5)	Fairmont, W. Va.	A. M. Rowe, Inc.

### 900 kilocycles 333.1 meters

KGBU	z	500	.....	Ketchikan, Alaska	Alaska Radio & Service Co.
KHJ	ae	1000	CT	Los Angeles, Calif.	Don Lee Broadcasting System
WBEN	ae	1000	R	Buffalo, N. Y.	WBEN, Inc., Buffalo Evening News
WJAX	ae	1000	N	Jacksonville, Fla.	City of Jacksonville
WKY	ae	1000	N	Oklahoma City, Okla.	Oklahoma Publishing Co.
WLBL	ae	2000	D	Stevens Point, Wis.	Wis. Dept. Agriculture & Markets

### 910 kilocycles 329.6 meters

CFQC	z	500	.....	Saskatoon, Sask.	The Electric Shop, Ltd.
CFCL	ae	100	915	Prescott, Ont.	Radio Association of Prescott
TIGR	z	50	911	San Jose, Costa Rica	
VOGY	z	500	P	St. John's, N. F.	
XEW	z	5000	.....	Mexico City, Mexico	Mexico Music Co.

### 920 kilocycles 325.9 meters

CMCD	ae	250	925	Havana, Cuba	Angel Bertematy y Garcia
CMDE	z	250	925	Havana, Cuba	Evilio Villar
HHK	z	1000	.....	Port au Prince, Haiti	Republic of Haiti
KFEL	ak	500	1	Denver, Colo.	Gene O'Fallon (Albany Hotel)
KFXF	ae	500	1	Denver, Colo.	Colorado Radio Corp.
KOMO	aj	1000	N	Seattle, Wash.	Fisher's Blend Station, Inc.
KPRC	ak	1000	N(2.5)	Houston, Texas	Houston Printing Co. (Houston Post)
WAAF	ak	500	D	Chicago, Ill.	Drovers Journal Publishing Co.
WBSO	ae	500	D	Babson Park, Mass.	Broadcasting Service Org., Inc.
WWJ	ak	1000	R	Detroit, Mich.	The Detroit News

### 930 kilocycles 322.4 meters

CFCH	aj	100	3LM	North Bay, Ont.	Northern Supplies, Ltd.
CFRC	ak	50	3(2)	Kingston, Ont.	Queen's University
CKX	ak	500	E	Brandon, Manitoba	Manitoba Telephone System
CMJF	z	200	.....	Camaguey, Cuba	John L. Stowers
KFWI	aj	500	1	San Francisco, Calif.	Radio Entertainments, Ltd.
KGBZ	ak	500	2(1)	York, Neb.	Dr. Geo. R. Miller
KMA	ae	500	2(1)	Shenandoah, Iowa	Earl E. May Seed & Nursery Co.
KROW	ak	500	1(1)	Oakland, Calif.	Educational Broadcasting Corp.
WBRC	ak	500	C(1)	Birmingham, Ala.	Birmingham Bdctg. Co., Inc.
WDBJ	ae	250	C(.5)	Roanoke, Va.	Times-World Corp.
WIBG	ae	25	D	Glenside, Penna.	WIBG, Inc. (Keswick Bldg.)

### 940 kilocycles 319.0 meters

KOIN	zk	1000	CT	Portland, Ore.	KOIN, Inc. (New Heathman Hotel)
WAAT	ae	300	D	Jersey City, N. J.	Bremer Broadcasting Corp.
WCSS	ae	1000	R(2.5)	Portland, Maine	Congress Square Hotel Co.
WDAY	ae	1000	N	Fargo, No. Dakota	WDAY, Inc. (Black Bldg.)
WFIW	ae	1000	C	Hopkinsville, Ky.	WFIW, Inc.
WHA	ak	1000	D	Madison, Wis.	University of Wisconsin
XEFO	ak	5000	(35)	Mexico City, Mexico	National Revolucionario Party

### 950 kilocycles 315.6 meters

CMHD	z	250	.....	Caibarien, Cuba	Manual Alvarez
KFWB	ak	1000	.....	Los Angeles, Calif.	Warner Bros. Broadcasting Corp.
KGHL	ak	1000	NJ(2.5)	Billings, Mont.	Northwestern Auto Supply Co.
KMBC	ak	1000	C	Kansas City, Mo.	Midland Bdctg. Co. (Pickwick Hotel)
VONA	z	100	.....	St. John's, N. F.	Lane, Gillard & Avery
WRC	ak	500	N	Washington, D. C.	National Broadcasting Co., Inc.

### 960 kilocycles 312.3 meters

CHCK	ak	100	V	Charlottetown, P.E. I.	J. A. Gesner & W. E. Burke
CHWC	ak	500	3FL	Regina, Sask.	R. H. Williams & Sons, Ltd.
CKCK	ak	500	3FL	Regina, Sask.	Leader Post, Ltd. (Leader Bldg.)
CKNC	ak	500	M	Toronto, Ont.	Canadian National Carbon Co., Ltd.
CMAY	z	150	965	Havana, Cuba	Egigenio Oliver
CMBC	ae	150	965	Havana, Cuba	Domingo Fernandez
CMJL	z	50	.....	Camaguey, Cuba	Enrique Artime
XED	z	10000	965	Reynosa, Mexico	International Broadcasting Co.

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800 kilocycles 374.8 meters

WBAP ak 10000 1N Fort Worth, Texas  
 WFAA ak 50000 1N Dallas, Texas

Carter Publications, Inc.  
 Dallas News-Dallas Journal

810 kilocycles 370.2 meters

CHNS ae 500 815aZG Halifax, N. S.  
 CNRH ak 500 815aZ Halifax, N. S.  
 VOAS ak 200 D St. John's, N. F.  
 WCCO ae 5000 C Minneapolis, Minn.  
 WPCH ak 500 D New York City  
 XFC z 250 ..... Aguascalientes, Mex.

Maritime Bdctg. Co., Ltd. Oprs.  
 Canadian National Railways  
 Ayre & Sons, Ltd.  
 Northwestern Broadcasting, Inc.  
 Eastern Broadcasters, Inc.  
 Gobierno del Estado de Aguascalientes

820 kilocycles 365.6 meters

CMGC z 30 ..... Matanzas, Cuba  
 WHAS aj 25000 C Louisville, Ky.

Oscar S. Mechoso  
 The Louisville Times Co., Inc.

830 kilocycles 361.2 meters

CMGA z 100 834 Colon, Cuba  
 KOA ak 12500 NJ Denver, Colo.  
 WEEU ak 1000 D Reading, Pa.  
 WHDH ae 1000 DY Boston, Mass.  
 WRUF ae 5000 DnC Gainesville, Fla.

L. Valdes Figueroa  
 General Electric Co. (NBC Opr.)  
 Berks Broadcasting Co.  
 Matheson Radio Co., Inc.  
 State of Florida (Univ. of Fla.)

840 kilocycles 356.9 meters

CHNC z 500 a Toronto, Ont.  
 CKGW ae 5000 NEa Toronto, Ont.  
 CKLK ak 1000 G Red Deer, Alta.  
 CMC z 500 ..... Havana, Cuba  
 CPY ae 5000 La Toronto, Ont.

Canadian National Carbon Co., Ltd.  
 Gooderham & Worts, Ltd.  
 Alberta Pacific Grain Co., Ltd.  
 Cuban Telephone Co.  
 Canadian Pacific Co., Royal York Hotel

850 kilocycles 352.7 meters

KIEV z 100 D Glendale, Calif.  
 KWKH ae 10000 1 Shreveport, La.  
 WWL ak 5000 1DnX New Orleans, La.

Cannon Systems, Inc.  
 Hello World Broadcasting Corp.  
 WWL Development Co. (Loyola Univ.)

860 kilocycles 348.6 meters

WABC ae 50000 aC New York City  
 WBOQ ae 50000 a New York City  
 WHB ae 500 D Kansas City, Mo.  
 XFX z 500 867 Mexico City, Mexico

Atlantic Broadcasting Corp.  
 Atlantic Broadcasting Corp. (tests)  
 WHB Broadcasting Co.  
 Secretaria de Educacion Publica

870 kilocycles 344.6 meters

WENR ak 50000 Na Chicago, Ill.  
 WLS ae 50000 Na Chicago, Ill.  
 XFF z 500 875 Chihuahua, Mexico

Great Lakes Bdctg. Co. NBC Opr.  
 Agricultural Broadcasting Co.  
 Gobierno del Estado de Chihuahua

880 kilocycles 340.7 meters

CHML ae 50 4G Hamilton, Ont.  
 CJCB ak 100 G Sydney, N. S.  
 CKCV ak 100 ..... Quebec, Que.  
 CKPC ak 100 4L Preston, Ont.  
 KFKA ak 500 2(1) Greeley, Colo.  
 KILX ae 500 ..... Oakland, Calif.  
 KPOF ae 500 2 Denver, Colo.  
 WCOF ae 500 (1) Meridian, Miss.  
 WGBI ah 250 Q1 Scranton, Pa.  
 WQAN ak 250 1 Scranton, Pa.  
 WSUI ae 500 ..... Iowa City, Iowa

Maple Leaf Radio Co., Ltd.  
 Nathanson's Radio Headquarters  
 Vandy, Inc.  
 Cyrus Dolph  
 Mid-Western Radio Corp.  
 Tribune Publishing Co.  
 Pillar of Fire  
 Mississippi Broadcasting Co., Inc.  
 Scranton Broadcasters, Inc.  
 Scranton Times  
 State University of Iowa

890 kilocycles 336.9 meters

CFBO z 500 ..... St. John, N. B.  
 CKCO z 100 3 Ottawa, Ont.  
 CKPR ak 100 3G Fort William, Ont.  
 CMCF ak 250 1 Havana, Cuba  
 CMX ae 500 1 Havana, Cuba  
 KARK ak 250 ..... Little Rock, Ark.  
 KFNF ak 500 2(1) Shenandoah, Iowa  
 KSEI ae 250 (.5) Pocatello, Idaho  
 KUSD ae 500 2 Vermillion, S. Dak.

C. A. Munro, Ltd.  
 Dr. G. M. Geldert  
 Dougall Motor Car Co., Ltd.  
 Raoul Karman, Casa DelaPorte  
 Casa "Lavin" Francisco A. Lavin, Adm.  
 Arkansas Radio & Equipment Co.  
 Henry Field Company  
 Radio Service Corporation  
 University of South Dakota

KCY.S.  
 890  
 MTRS  
 336.  
 DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

690 kilocycles 434.5 meters

CFAC	ak	500	1G	Calgary, Alta.
CFRB	ae	10000	CM	Toronto, Ont.
CJ CJ	ak	500	1LE	Calgary, Alta.
NAA	z	1000	.....	Arlington, Va.
VAS	z	2000	685(4)	Glace Bay, N. S.
XET	ck	500	.....	Monterrey, Mexico
VOX	z	100	.....	Halifax, N. S.

Calgary Herald, Ltd.  
Rogers-Majestic Corp., Ltd.  
Albertan Publishing Co., Ltd.  
U. S. Navy  
Canadian Marconi Co.  
Cadena Radio Difusora Mexicana S. A.  
Sambro Lightship

700 kilocycles 428.3 meters

WLW	ae	50000	B	Cincinnati, Ohio
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The Crosley Radio Corporation

710 kilocycles 422.3 meters

KMPC	z	500	Dn	Beverly Hills, Calif.
WOR	ak	5000	X	Newark, N. J.
XEN	agj	1000	711K	Mexico City

R. S. MacMillan  
Bamberger's Broadcasting Service, Inc.  
Cerveceria Modelo S. A.

720 kilocycles 416.4 meters

WGN	ak	25000	C	Chicago, Ill.
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WGN, Inc., Drake Hotel

730 kilocycles 410.7 meters

CHLS	ak	100	1b	Vancouver, B. C.
CHYC	z	5000	Sa	Montreal, Que.
CKAC	ak	5000	CaM	Montreal, Que.
CKCD	z	100	1b	Vancouver, B. C.
CKFC	ak	50	1	Vancouver, B. C.
CKMO	z	100	1	Vancouver, B. C.
CKWX	ak	100	1L	Vancouver, B. C.
CMK	aeH	3150	.....	Havana, Cuba
XEF-XER	z	75000	735	Villa Acuna, Mexico

W. G. Hassell (Province Bldg.)  
Northern Electric Co., Ltd.  
La Presse Publishing Co., Ltd.  
Vancouver Daily Province  
United Church of Canada  
Spratt-Shaw Radio Co.  
Western Broadcasting Co., Ltd.  
National Broadcasting Co. of Cuba  
Villa Acuna Broadcasting Co., Inc.

740 kilocycles 405.2 meters

CJCA	ae	500	745EL	Edmonton, Alberta
KMMJ	bk	1000	Dn	Clay Center, Neb.
WSB	aeH	5000	N	Atlanta, Ga.
WHBB	ak	250	D	Portsmouth, N. H.

Edmonton Journal, Ltd.  
M. M. Johnson Co. (R/C Lincoln)  
Atlanta Journal, Biltmore Hotel  
Granite State Broadcasting Co.

750 kilocycles 399.8 meters

KGU	aj	2500	NX	Honolulu, Hawaii
VOWR	ak	750	.....	St. John's, N. F.
WJR	ak	10000	B	Detroit, Mich.
XEQ	aeH	5000	.....	Juarez, Chih., Mexico

Advertiser Publishing Co.  
Wesley United Church  
WJR, The Goodwill Station, Inc.  
Radio Difusora National S. A.

760 kilocycles 394.5 meters

KXA	ae	250	(.5)	Seattle, Wash.
WBAL	ae	10000	BA	Baltimore, Md.
WEW	ae	1000	D	St. Louis, Mo.
WJZ	ck	30000	BA	New York City

American Radio Tel. Co.  
(See 1060 kcys. also)  
St. Louis University  
National Broadcasting Co., Inc.

770 kilocycles 389.4 meters

KFAB	ae	5000	1C	Lincoln, Neb.
WBMM	ae	25000	1C	Chicago, Ill.

KFAB Broadcasting Co.  
WBMM Bdctg. Corp. (Wrigley Bldg.)

780 kilocycles 384.4 meters

CKY	z	5000	.....	Winnipeg, Man.
CMBS	z	150	.....	Havana, Cuba
CMCQ	z	1000	.....	Havana, Cuba
KELW	aeH	500	2	Burbank, Calif.
KTM	ae	500	2(1)	Los Angeles, Calif.
WEAN	ak	250	CH(.5)	Providence, R. I.
WMC	ak	500	N(1)	Memphis, Tenn.
WPOR	aeH	500	b	Portsmouth, Va.
WTAR	aeH	500	bC	Norfolk, Va.
XEZ	z	500	.....	Mexico, Mexico

Manitoba Telephone System  
Enrique Artalejo  
Andres Martinez  
Magnolia Park, Ltd.  
Pickwick Broadcasting Corp., Ltd.  
Shepard Broadcasting Service, Inc.  
Memphis Commercial Appeal, Inc.  
WTAR Radio Corp. (Norfolk)  
WTAR Radio Corp.  
Joaquin Capilla

790 kilocycles 379.5 meters

CMHC	z	250		Tuinucu, Cuba
KGO	ak	7500	N	San Francisco, Calif.
WGY	ak	50000	R	Schenectady, N. Y.

Frank H. Jones  
General Electric Co. (Opr. NBC)  
General Electric Co.

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600 kilocycles 499.7 meters

CNRO	ak	500	F	Ottawa, Ont.
KFSD	ah	500	N(1)	San Diego, Calif.
WCAC	ak	250	2	Storrs, Conn.
WCAO	ae	250	C	Baltimore, Md.
WICC	ae	250	2H(.5)C	Bridgeport, Conn.
WMT	ak	500	C	Waterloo, Iowa
WREC	z	500	C(1)	Memphis, Tenn.

Canadian National Railways
Airfan Radio Corp.
Connecticut Agricultural College
Monumental Radio Co.
Bridgeport Bdctg. Station, Inc.
Waterloo Broadcasting Co.
WREC, Inc.

KCYS.  
680  
MTRS.  
440.  
DIAL

610 kilocycles 491.5 meters

KFRK	ae	1000	C	San Francisco, Calif.
WDAF	ae	1000	R	Kansas City, Mo.
WIP	ak	500	C	Philadelphia, Pa.
WJAY	ae	500	D	Cleveland, Ohio
XETR	z	2500	.....	Mexico City, Mexico

Don Lee Broadcasting System
Kansas City Star Co.
Pennsylvania Bdctg. Co. (WFAN)
Cleveland Radio Broadcasting Corp.
Cia. Difusora Mexicana S. A.

620 kilocycles 483.6 meters

KGW	ae	1000	N	Portland, Ore.
KTAR	ae	500	NJ(1)	Phoenix, Ariz.
WFLA	ae	1000	Na(2.5)	Clearwater, Fla.
WLBZ	ak	500	C	Bangor, Maine
WSUN	ae	1000	Na(2.5)	St. Petersburg, Fla.
WTMJ	ae	1000	N(2.5)	Milwaukee, Wis.

Oregonian Publishing Co.
KTAR Broadcasting Co.
Florida West Coast Bdctg. Co., Inc.
Maine Broadcasting Co., Inc.
Florida West Coast Bdctg. Co., Inc.
Journal Company

630 kilocycles 475.9 meters

CFCT	ae	500	G	Victoria, B. C.
CJGX	ae	500	FL	Yorkton, Sask.
CKOC	ae	1000	635aG	Hamilton, Ont.
CKTB	aej	1000	635aL	St. Catharines, Ont.
CMCU	z	150	.....	Havana, Cuba
CMO	z	250	.....	Havana, Cuba
CNRA	ae	700	F	Moncton, N. B.
HIX	ah	1000	J	Santo Domingo, D. R.
KFRU	ak	200	D	Columbia, Mo.
KGFX	z	500	C	Pierre, S. D.
WGBF	ae	500	W	Evansville, Ind.
WMAL	ae	250	C(.5)	Washington, D. C.
WOS	ak	500	1D	Jefferson City, Mo.
XETF	ak	500	K	Veracruz, Ver., Mexico

Victoria Broadcasting Assn.
Winnipeg Grain Exchange
Wentworth Radio Bdctg. Co., Ltd.
Wentworth Radio Bdctg. Co., Ltd.
Jorge Garcia Serra
Jose Fernandez
Canadian National Railways
The Dominican Government
KFRU, Inc.
Dana McNeil
Evansville On the Air, Inc.
M. A. Leese Radio Corp., Inc.
Missouri State Marketing Bureau
Manuel Angel Fernandez

640 kilocycles 468.5 meters

CHRC	ak	100	645aG	Quebec, Que.
CKCI	ck	100	645a	Quebec, Que.
CKCR	ak	100	645G	Waterloo, Ont.
KFI	ah	50000	N1	Los Angeles, Calif.
WAIU	ae	500	1	Columbus, Ohio
WOI	ae	5000	D	Ames, Iowa

CHRC, Ltd., Victoria Hotel
Le Soleil, Ltd.
Mitchell & Liddle
Earle C. Anthony, Inc.
American Insurance Union
State College of Agriculture

650 kilocycles 461.3 meters

KPCB	ae	100	.....	Seattle, Wash.
WSM	aej	50000	N	Nashville, Tenn.

Queen City Broadcasting Co.
National Life & Accident Ins. Co.

660 kilocycles 454.3 meters

CHWK	ak	100	665	Chilliwack, B. C.
CJRM	z	500	665	Moose Jaw, Sask.
CJRW	z	1000	665	Fleming, Sask.
RUS	z	500	664	Salvador
WAAW	agh	500	D	Omaha, Neb.
WEAF	ak	50000	R	New York City

Chilliwack Broadcasting Co., Ltd.
Jas. Richardson & Sons, Ltd.
Jas. Richardson & Sons, Ltd.
Republic of El Salvador
Omaha Grain Exchange
National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

WMAQ	ae	5000	N	Chicago, Ill.
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WMAQ, Inc. (NBC Lessees)
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680 kilocycles 440.9 meters

CMAF	ak	1000	.....	Havana, Cuba
KFEQ	ae	2500	D	St. Joseph, Mo.
KPO	ak	5000	N	San Francisco, Calif.
WPFF	ae	1000	N Dn	Raleigh, N. C.
XFG	z	2000	683.3	Mexico, Mexico

International Broadcasting Co.
Scroggin & Co., Bank
National Broadcasting Co., Inc.
Durham Life Insurance Co.
Sria. de Guerra y Marina

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

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FOR KEY TO SYMBOLS SEE PAGE 45

### 540 kilocycles 555.6 meters

CKOK ae 5000 CG Windsor, Ont.

Essex Broadcasters, Ltd.

### 550 kilocycles 545.1 meters

KFDY ae 500 (1)1 Brookings, S. D.  
 KFUO ae 500 2(1) St. Louis, Mo.  
 KFYZ ah 1000 1N(2.5) Bismarck, No. Dakota  
 KOAC ak 1000 ..... Corvallis, Ore.  
 KSD ak 500 2R St. Louis, Mo.  
 WDEV ae 500 D Waterbury, Vt.  
 WGR ae 1000 C Buffalo, N. Y.  
 WKRC ak 1000 C Cincinnati, Ohio

South Dakota State College  
 Evangelical Lutheran Church  
 Meyer Broadcasting Co.  
 Oregon State Agricultural College  
 Pulitzer Publishing Co.  
 Harry G. Whitehill  
 Buffalo Broadcasting Corp.  
 WKRC, Inc., Hotel Alms

### 560 kilocycles 535.4 meters

KFDM ak 500 (1) Beaumont, Texas  
 KLZ ae 1000 C Denver, Colo.  
 KTAB ae 1000 ..... San Francisco, Calif.  
 WFI ae 500 1R Philadelphia, Pa.  
 WIBO ae 1000 (1.5)a Chicago, Ill.  
 WLIT ak 500 1R Philadelphia, Pa.  
 WNOX ak 1000 C(2) Knoxville, Tenn.  
 WPCC ak 500 Sa Chicago, Ill.  
 WQAM ae 1000 C Miami, Fla.

Sabine Broadcasting Co., Inc.  
 Reynolds Radio Co., Inc.  
 Associated Broadcasters, Inc.  
 WFI Broadcasting Co.  
 Nelson Bros. Bond & Mtg. Co.  
 Lit Bros. Broadcasting System, Inc.  
 So. Carolina Broadcasting Co., Inc.  
 North Shore Congregational Church  
 Miami Broadcasting Co.

### 570 kilocycles 526.0 meters

KGKO z 250 (.5) Wichita Falls, Texas  
 KMTR aeh 500 ..... Hollywood, Calif.  
 KVI ae 500 C Tacoma, Wash.  
 TGW z 50 ..... Guatemala  
 WEOA ae 750 1 Columbus, Ohio  
 WKBN ak 500 1C Youngstown, Ohio  
 WMCA ak 500 3 New York, N. Y.  
 WNAX ae 1000 C Yankton, S. D.  
 WNYC ak 500 3 New York, N. Y.  
 WSYR ak 250 2R2a Syracuse, N. Y.  
 WWNC ae 1000 N Asheville, N. C.

Wichita Falls Broadcasting Co.  
 KMTR Radio Corp.  
 Puget Sound Broadcasting Co.

Ohio State University  
 WKBN Broadcasting Corp.  
 Knickerbocker Broadcasting Co., Inc.  
 House of Gurney, Inc.  
 Dept. of Plant & Structures  
 Clive B. Meredith Estate (WMAC)  
 Citizens Broadcasting Co., Inc.

### 580 kilocycles 516.9 meters

CFCY ae 500 E Charlottetown, P. E. I.  
 CHMA ak 250 4S Edmonton, Alta.  
 CKCL agj 500 ..... Toronto, Ont.  
 CKUA ak 500 4F Edmonton, Alta.  
 CMJC z 250 588 Havana, Cuba  
 CMDD z 150 588 Havana, Cuba  
 KMJ ak 500 CT Fresno, Calif.  
 KSAC ak 500 2(1) Manhattan, Kans.  
 WDBO ae 250 CU Orlando, Fla.  
 WIBW ae 1000 C2 Topeka, Kans.  
 WOBU ak 250 1(.5) Charleston, W. Va.  
 WSAZ ak 250 1(.5) Huntington, W. Va.  
 WTAG ae 250 R(.5) Worcester, Mass.

Island Radio Broadcasting Co., Ltd.  
 Christian & Missionary Alliance  
 The Dominion Battery Co.  
 University of Alberta  
 Rafael Rodriguez  
 G. deSequeira  
 McClatchy Radio Stations (Fresno Bee)  
 State Agricultural College  
 Orlando Broadcasting Co., Inc.  
 Capper Publications  
 WOBU, Inc., Ruffner Hotel  
 WSAZ, Inc.  
 Worcester Telegram Pub. Co., Inc.

### 590 kilocycles 508.2 meters

CJGC ae 5000 595GZ London, Ont.  
 KHQ ak 1000 N(2) Spokane, Wash.  
 WCAJ ae 500 1 Lincoln, Neb.  
 WEEI ak 1000 R Boston, Mass.  
 WKZO ae 1000 D Kalamazoo, Mich.  
 WOW aeh 1000 1R Omaha, Neb.

Free Press Printing Co., Ltd.  
 Louis Wasmer, Inc.  
 Nebraska Wesleyan University  
 Edison Electric Illuminating Co.  
 WKZO, Inc., Burdick Hotel  
 Women of the World

Church of the Air, 1:30 p.m., Sunday, C.  
 Rev. Chas. E. Coughlin, 4:00 p.m., Sunday.  
 Highlights of Bible, 4:30 p.m., Sunday, B.  
 Mid-Week Hymn Sing, 7:00 p.m., Tuesday, R.  
 National Sunday Forum, 3:30 p.m., Sunday, R.  
 Old Songs of Church, 6:30 p.m., Thursday, B.  
 Seth Parker, 10:45 p.m., Sunday, R.  
 Salt Lake Tabernacle Choir, 12 noon, Sunday, C.  
 World of Religion, 5:00 p.m., Sunday, B.

### SINGERS

Mildred Bailey, 10:45 p.m., Mon., Wed. and Fri., B.  
 Irene Beasley, 6:30 p.m., Sun.; 6:00 p.m., Mon. and Fri., C.  
 Boswell Sisters, 10:00 p.m., Mon.; 9:00 p.m., Thurs., C.  
 Eddie Cantor, 8:00 p.m., Sunday, R.  
 Charles Carlile, 10:30 p.m., Mon., Tues. and Thurs., C.  
 Vaughn DeLeath, 6:30 p.m., Mon.; 6 p.m., Wed.; 5:45 p.m., Thurs.; 7:15 p.m., Fri.; 10:45 p.m., Sat., C.  
 Do Re Mi, 8:00 p.m., Sunday, C.  
 Morton Downey, 9:30 p.m., Friday, C.  
 Jessica Dragonette, 8:00 p.m., Friday, R.  
 Ruth Etting, 10:00 p.m., Wed.; 9:00 p.m., Sat., C.  
 Jane Froman, 4:00 p.m., Sun., R.; 10:45 p.m., Tues. and Thurs., B.  
 Jack Fulton, 7:15 p.m., Sat.; 10:15 p.m., Wed., B.  
 Sid Gary, 7:15 p.m., Monday, C.  
 Tito Guizar, 7:45 p.m., Monday, C.  
 Wm. Vincent Hall, 8:00 p.m., Sun.; 6:30 p.m., Wed.; 7:15 p.m., Sat., C.  
 Harlem Fantasy, 6:30 p.m., Saturday, R.  
 Art Jarrett, 11:00 p.m., Thursday, R.  
 Jones and Hare, 7:30 and 11:15 p.m., Mon., Wed. and Fri., R.  
 Harriet Lee, 7:00 p.m., Monday, R.  
 Little Jack Little, 6:15 p.m., Sun.; 9 a.m., daily, ex. Sun., C.  
 Tommy McLaughlin, 9:15 p.m., Tuesday, C.  
 Frank Munn, 9:15 p.m., Sunday, R.  
 Musical Memories, 9:00 p.m., Tuesday, B.  
 Donald Novis, 7:00 p.m., Sun.; 6:45 p.m., Mon., Wed. and Sat., R.

Old Singing Master, 10:15 p.m., Sunday, B.  
 Pickens Sisters, 7:15 p.m., Sun.; 9:00 p.m., Sat., B.  
 Georgie Price, 7:45 p.m., Tues. and Thurs., C.  
 Red and Ramona, 8:30 p.m., Monday, B.  
 Regimentalists, 8:00 p.m., Thursday, B.  
 Lanny Ross, 9:00 p.m., Thurs.; 6:45 p.m., Fri., R.  
 Sanderson-Crumit, 8:00 p.m., Tuesday, R.  
 Singin' Sam, 8:15 p.m., Mon., Wed. and Fri., C.  
 Kate Smith, 8:30 p.m., Mon., Tues. and Wed., C.  
 Street Singer, 9:00 p.m., Tues.; 10 p.m., Fri., C.  
 Temple of Song, 4:00 p.m., Sunday, B.  
 Three Keys, 11:00 p.m., Sun.; 10:30 p.m., Thurs., Fri. and Sat., B.  
 Three X Sisters, 7:30 p.m., Mon., Wed. and Fri., C.  
 Trio Romantique, 8:30 p.m., Saturday, B.  
 Gus Van, 9:00 p.m., Saturday, B.

### TALKS

Adventures in Health, 8:30 p.m., Tues. and Fri., B.  
 Cheerio, 8:30 a.m., daily, ex. Sunday, R.  
 Football Show, 9:00 p.m., Friday, C.  
 Floyd Gibbons, 10:30 p.m., Friday, R.  
 William Hard, 6:45 p.m., Tuesday, R.  
 Edwin C. Hill, 8:00 and 11:00 p.m., Mon., Wed. and Fri.; 8:15 p.m., Tues. and Sat., C.  
 H. V. Kaltenhorn, 6:00 p.m., Tues. and Thurs., C.  
 Dr. Julius Klein, 7:00 p.m., Sunday, C.  
 Frederick Landis, 2:45 p.m., Sunday, C.  
 David Lawrence, 9:00 p.m., Sunday, R.  
 National Farm and Home, 12:30 p.m., daily, ex. Sat. and Sun., B.  
 Angelo Patri, 7:45 and 11:15 p.m., Wed. and Sun., C.  
 Poet's Gold, 6:00 p.m., Sunday, C.  
 Public Affairs Institute, 10:15 p.m., Saturday, C.  
 Nellie Revell, 11:00 p.m., Wednesday, R.  
 Sigmund Spaeth, 10:15 p.m., Tues.; 8:15 p.m., Thurs., B.  
 Lowell Thomas, 6:45 p.m., daily, ex. Sat. and Sun., B.  
 You and Your Government, 8:00 p.m., Tuesday, B.  
 Frederic William Wile, 7:00 p.m., Saturday, C.

## KEY TO SYMBOLS

### As Shown in the Index by Frequencies and Dial Numbers

Frequency is given in kilocycles; wavelength in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis 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. R-C indicates Remote Control. Where space permits, names of hotels or other buildings used in announcements are shown in parenthesis. These are not mail addresses.

### Second Column Symbols

a	Verifies reception for return postage.	g	Sends Ekko stamp for postage.
b	Verifies only occasionally.	h	Sends own stations stamp for 10c.
c	Does not verify.	i	Sends own station stamp for 5c.
d	Verification 25c; reply card 10c.	J	Sends own station stamp for postage.
e	Sends Ekko stamp for 10c.	k	Has no stamps.
f	Sends Ekko stamp for 5c.	z	Failed to reply.

### Fourth Column Symbols

A	These stations are synchronized.	Q	Great Lakes network.
B	National "Blue" Network.	R	National "Red" network.
C	Columbia network.	S	Sunday only.
D	Daytime only.	T	Don Lee System.
Dn	Daytime with occasional evening hours.	U	Dixie network.
E	Trans-Canada network.	V	Maritime Broadcasting network.
F	Canadian National Railways network.	W	Curtis-Indiana network.
G	All Canadian networks.	X	Has permit to increase power.
H	Yankee network.	Y	Has permit to change location.
J	Orange and gold network.	Z	Has permit to change frequency.
K	Mexican networks.	a-b-c.	Small letters show stations using same transmitter.
L	Canadian Pacific Ry. network (Dominion).	1-2-3.	Figures denote stations sharing time.
M	Canadian Radio Corp. network.	...	No information.
N	National "Red" and "Blue" networks.		
P	Has construction permit only.		

# CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Standard*

## BANDS

48th Highlanders, 3:30 p.m., Sunday, B.  
Little German Band, 6:00 p.m., Saturday, B.

## CONCERTS

Howard Barlow Symphony, 11:00 p.m., daily, ex. Sat. and Sun., C.  
Cities Service, 8:00 p.m., Friday, R.  
Gauchos, 10:30 p.m., Sunday, C.  
Kremlin Art Quintet, 5:45 p.m., Sunday, R.  
L'Heure Exquise, 10:15 p.m., Sunday, R.  
Le Trio Charmante, 4:45 p.m., Sunday, R.  
Walter Logan, 5:00 p.m., Sunday, R.  
Melodic Serenade, 11:30 p.m., Sunday, R.  
National Opera, 11:15 p.m., Tues. and Sat., B.  
New World Symphony, 7:15 p.m., Sunday, C.  
New York Philharmonic, 3 p.m., Sunday, C.  
Orchestral Gems, 7:30 p.m., Sunday, R.  
Erno Rapee, 1:00 p.m., Sunday; 9:00 p.m., Sat., R; 9:30 p.m., Thurs., B.  
Roxy Concerteers, 8:30 p.m., Sunday, C.  
Russian Gaieties, 8:30 p.m., Sunday, B.  
Waldorf-Astoria, 6:00 p.m., daily, ex. Sunday, R.

## DANCE BANDS

Ben Bernie, 11:30 p.m., Mon.; 9:00 p.m. and 12:30 a.m., Tues.; 12:30 a.m., Sat., B.  
Don Bestor, 11 p.m., Thursday, R.  
Cab Calloway, 12 mid., Thursday, R.  
Emil Coleman, 12 mid., Saturday, B.  
Don DeForest, 6:15 p.m., Friday, B.  
Jack Denny, 8:45 p.m., Wednesday, R.  
Lew Diamond, 12:30 a.m., Monday, B.  
Clyde Doerr, 1:30 p.m., Sunday, B.  
Eddie Duchin, 11:30 p.m., Sun.; 12 mid. Mon. and Thurs., C.  
Joe Furst, 12 mid., Sunday, R.  
Isham Jones, 11:30 p.m., Tues., Wed. and Thurs., C.  
Roger Wolfe Kahn, 12 mid., Mon., Wed. and Sat., R.  
Wayne King, 3:00 p.m., Sunday; 8:30 p.m., Tuesday, R.  
Guy Lombardo, 11:30 p.m., Mon. and Friday; 9:00 p.m., Wed., C.  
Lucky Strike, 10:00 p.m., Tues., Thurs. and Sat., R.  
Abe Lyman, 8:00 p.m., Tues., Thurs. and Sat., C.  
Frankie Masters, 11:30 p.m., Sunday, B.  
Clyde McCoy, 12 mid., Monday, B.  
Jack Miller, 6:30 p.m., Tues.; 6:45 p.m., Sat. C.  
George Olsen, 12 mid., Tues.; 7 p.m., Sat., R.  
Pacific Serenaders, 12:30 a.m., Thursday, B.  
Don Redman, 12 mid., Tues. and Wed., C.  
B. A. Rolfe, 6:00 p.m., Wednesday, B.  
William Scotti, 11 p.m., Mon.; 6:30 p.m., Fri., R.  
William Stoess, 12 mid., Sunday, B.  
Rudy Vallee, 8:00 p.m., Thursday, R.  
Anson Weeks, 11 p.m., Friday, R.  
Ted Weems, 10:00 p.m., Sun.; 8:15 p.m., Thurs., C.  
Paul Whiteman, 10 p.m., Fri., 11:30 p.m., Sat., R.; 12 mid., Tues., B.

## DIALOG

Fred Allen, 9:00 p.m., Sunday, C.  
Amos 'n' Andy, 7:00 and 11:00 p.m., daily, ex. Sunday, B.  
Pat Barnes, 8:45 p.m., Mon. and Tues., B.  
Burns and Allen, 9:00 p.m., Wednesday, C.  
Clara, Lu 'n' Em, 10:15 a.m., daily, ex. Sat. and Sun., B.  
Easy Aces, 10:15 p.m., Mon., Wed. and Fri., C.  
Eddie and Ralph, 9:30 p.m., Friday, B.  
Funnyboners, 6:45 p.m., Mon. and Wed.; 6:00 p.m., Sat., C.  
Johnny Hart, 7:45 p.m., daily, ex. Sat. and Sun., B.  
Ray Knight, 7:30 p.m., Saturday, B.  
Meyer the Buyer, 7:30 p.m., Saturday, C.  
Jack Pearl, 10:00 p.m., Thursday, R.  
Ray Parkins, 7:30 p.m., Tues. and Thurs., R.  
The Fidgets, 9:30 p.m., Wednesday, R.  
Reis & Dunn, 12:30 p.m., Sun.; 6:15 p.m., Mon., C.  
S. R. O. Comedy, 9:30 p.m., Saturday, B.  
Stebbins Boys, 7:30 p.m., daily, ex. Sat. and Sun., B.  
Steppagle & Budd, 10:45 p.m., Mon., Wed., and Fri., C.

Tastyest Jesters, 7:15 p.m., Monday, B.  
Wheatentaville, 7:15 p.m., daily, ex. Fri. and Sat., R.  
Ward Wilson, 7:15 p.m., Wed., Thurs. and Fri., B.

## DRAMA

Red Adams, 9:15 p.m., Sunday, B.  
Big Ben, 5:30 p.m., Sunday, R.  
Death Valley Days, 9:00 p.m., Thursday, B.  
Dramatic Sketch, 10:30 p.m., Mon., Tues. and Wed., B.  
Eno Crime Club, 9:30 p.m., Tues. and Wed., C.  
Evening in Paris, 9:30 p.m., Monday, C.  
First Nighter, 9:00 p.m., Friday, B.  
Friendship Town, 9:30 p.m., Tuesday, B.  
Fu Manchu, 8:45 p.m., Monday, C.  
Goldbergs, 7:45 p.m., daily, ex. Sunday, R.  
Sherlock Holmes, 9:00 p.m., and 12:15 a.m., Wednesday, B.  
K-7, 8:30 p.m., Saturday, R.  
Omar Khayyam, 9:30 p.m., Thursday, C.  
Legion of Lost, 12:30 p.m., Sunday, R.  
Phillips Lord, 10:00 p.m., daily, ex. Sat. and Sun., B.  
March of Time, 8:30 p.m., Friday, C.  
Moments in History, 7:30 p.m., Sunday, B.  
Moonshine and Honeysuckle, 2:30 p.m., Sunday, R.  
Myrt and Marge, 7:00 and 10:45 p.m., daily, ex. Sat. and Sun., C.  
Rin Tin Tin, 8:30 p.m., Thursday, B.  
Roses and Drums, 5:00 p.m., Sunday, C.  
The Shadow, 8:00 p.m., Wednesday, R.  
Sheer Romance, 6:30 p.m., Wednesday, B.  
Soconyland Sketches, 8:00 p.m., Monday, R.

## PIANO AND ORGAN

Archer Gibson, 8:00 p.m., Saturday, R.  
Harding Sisters, 6:30 p.m., Mon. and Wed., R.; 10:45 p.m., Sat., B.  
Keenan and Phillips, 6:45 p.m., Tues.; 7:45 p.m., Sat., C.  
Ohan and Arden, 9:45 p.m., Sunday, R.  
Muriel Pollock-Vee Lawnhurst, 8:45 p.m., Sat., B.

## POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m., Monday, R.  
Armour Program, 9:30 p.m., Friday, B.  
Bath Club, 9:00 p.m., Sunday, C.  
Jack Benny, 10:00 p.m., Sun.; 8:15 p.m., Thurs., C.  
Blue Coal Revue, 5:30 p.m., Sunday, C.  
Major Bowes, 11:30 a.m., Sunday, R.  
Carnation Contented, 8:00 p.m., Monday, B.  
Chase and Sanborn, 8:00 p.m., Sunday, R.  
Cluquet Club, 9:00 p.m., Friday, R.  
Columbia Revue, 12:30 p.m., daily, ex. Sat. and Sun., C.  
Enna Jettick Melodies, 9:00 p.m., Sunday, B.  
Jay C. Flippen, 10:00 p.m., Tuesday, C.  
Jack Frost Melody, 8:30 p.m., Wednesday, B.  
Goodyear Program, 9:00 p.m., Wednesday, R.  
Hawaiian Serenaders, 11:15 p.m., Sunday, R.  
Andre Kostelanetz, 10:00 p.m., Thursday, C.  
Maxwell House Show Boat, 9:00 p.m., Thursday, R.  
Musical Fast Freight, 8:45 p.m., Tues. and Wed., C.  
Nestle's Program, 8:00 p.m., Friday, B.  
Parade of the States, 9:30 p.m., Monday, R.  
Pennzoil Parade, 9:30 and 11:30 p.m., Sunday, C.  
Pond's Program, 9:30 p.m., Friday, R.  
Sheaffer Revue, 9:45 p.m., Sunday, B.  
Sinclair Wiener Minstrels, 9:00 p.m., Monday, B.  
Sweetheart Days, 6:30 p.m., Sunday, R.  
Whoopee, 8:15 p.m., Saturday, B.  
Ed Wynn, 9:30 p.m., Tuesday, R.  
Yeast Foamers, 2:30 p.m., Sunday, B.

## QUARTETS

Corn Cob Pipe Club, 10:00 p.m., Wednesday, R.  
Mills Bros., 9:15 p.m., Mon. and Thurs., C.  
Revelers, 8:30 p.m., Monday, R.  
Rollickers, 7:00 p.m., Thursday, R.  
Song Fellows, 8:45 p.m., Friday, B.  
Cathedral Hour, 2:00 p.m., Sunday, C.  
Catholic Hour, 6:00 p.m., Sunday, R.

**SUNDAY—Continued**

WDAE WDBJ WDBO WDOB WDRC  
WDSU WFBM WFEA WGBR WGST  
WHAS WHEC WHP WIBW WISN  
WJAS WKHB WLWB WLWB WMAL  
WMT WNAX WOKO WORC WQAM  
WREC WSBT WSJS WTAR WTOC  
WVVA

**B — Pickens Sisters**

KWCR KWK WGAR WHAM WJR  
WJZ WREN

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

**B — Great Moments in History**

KDKA KDYL KFI KFSD KFJR KGO  
KGW KHQ KOA KOMO KPRC  
KSTP KTR KVAR KVOO KWK WBAL  
WBZ WBAZ WDAY WEBC WFAA  
WFLA WGAR WHAM WIBA WIOD  
WJAX WJDX WJR WJZ WKY WLS  
WLW WMC WOAI WREN WRVA  
WSB WSM WSMB WTMJ WWNC

**R — Orchestral Gems**

KSD WBN WCAE WDAF WFAF  
WFBZ WJAX WJAZ WLS WOW  
WSAI WTAG WTIC WWJ

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

**C — Angelo Patri, See Wednesday**

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

**B — Radio Luminaries**

KDKA KPRC KTBS KVOO KWCR  
KWK WBAL WFLA WGAR WIBA  
WIOD WIS WJZ WKY WLS WMC  
WREN WRVA WSMB WWNC

**C — William Vincent Hall**

CKOK KDYL KFAB KFH KFJF  
KFRC KHJ KMBC KMOX KOL  
KSCJ KTRH KVAR WABC WBCM  
WBIG WBRC WBT WCAH WCAU  
WCCO WDAE WDBJ WDBO WDOB  
WDRS WDSU WEAN WFBM WFEA  
WGL WGR WGST WHAS WHEC  
WHP WIBW WISN WJAS WKHB  
WKBN WLWB WMAL WNAC WNAX  
WODX WOKO WORC WQAM WREC  
WSFA WSPD WTAR WTOC WVVA

**R — Chase and Sanborn Hour**

CFCF CKGW KFI KFSD KFJR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSL KSTP KTR KTHS KVOO  
WAPI WBN WCAE WCKY WCSH  
WDAF WDAY WEAF WEBC WFAA  
WFBZ WFLA WGY WHO WIOD  
WIS WJAR WJAX WJDX WKY  
WLIT WLS WMC WOAI WOC WPTF  
WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTIC WTMJ  
WWJ WVNC

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

**C — Romy Concerters**

CKOK KFAB KFPY KGB KLRA  
KLZ KMBC KMOX KOH KRLD  
KSCJ KTRH KVI KVOR WABC  
WADC WBCM WBIG WBRC WBT  
WCAH WCAO WCAU WCCO WDBJ  
WDOB WDRS WEAN WFBM WFBM  
WFEA WGR WHAS WHEC WHK  
WISN WJAS WKBN WLWB WLWB  
WMAL WMT WNAC WNAX WNOX  
WOKO WORC WQAM WQAM WREC  
WSJS WTAR

**B — Russian Gaieties**

CKGW KDKA KOIL KSTP KWCR  
KWK KYW WBAL WBZ WBZA  
WCKY WEBC WGAR WHAM WIBA  
WJR WJZ WLW WREN

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

**R — Our Government, David Lawrence**  
KPRC KSD KTBS KVOO WAPI

WEAF WENR WFAA WFBR WFI  
WFLA WGY WHO WIOD WIS WJAR  
WJDX WKY WMC WOC WOW  
WPTF WRC WRVA WSAI WSB  
WSM WSMB WTAG WWNC

**B — Enna Jettick Melodies**

CFCF CKGW KDKA KFI KFSD  
KFJR KGHL KGIR KGO KGW KHQ  
KOA KOIL KOMO KSTP KTR  
KWCR KWK KYW WBAL WBZ  
WBZA WCKY WDAY WEBC WGAR  
WHAM WIBA WJAX WJR WJZ  
WREN WRVA WTMJ

**C — Bath Club—Fred Allen**

CFRB CKOK KLRA KLZ KMBC  
KMOX KSCJ KTRH KTSA KVOR  
WABC WADC WBCM WCAH WCAO  
WCCO WDAE WDBJ WDBO WDOB  
WDRS WDSU WFAN WFBM WFBM  
WFEA WGR WGST WHAS WHEC  
WHK WHP WIBW WIP WISN WJAS  
WKHB WKRC WLAC WLWB WLWB  
WMAL WMT WNAX WOKO WORC  
WQAM WREC WSBT WSJS WTAR  
WTOC

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

**R — Album of Familiar Music**

KFI KFSD KFJR KGO KGW KHQ  
KOA KOMO KPRC KSD KSL KSTP  
KTR KTHS WAPI WBN WCAE  
WCSH WDAY WEAF WEBC WENR  
WFAA WFBZ WFI WFLA WGY  
WHO WIBA WIOD WJAR WJDX  
WKY WMC WOAI WOC WOW  
WRC WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ

**B — Red Adams, Sketch**

CKGW KDKA KOIL KSTP KWCR  
KWK KYW WBAL WBZ WBZA  
WCKY WEBC WGAR WHAM WIBA  
WJR WJZ WLW WREN

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

**C — Pennzoil Parade**

CKOK KFJF KLRA KMBC KMOX  
KTSA WABC WADC WBRC WBT  
WCAO WCAU WCCO WDRS WEAN  
WFBM WGN WGR WGST WHEC  
WHK WJAS WKRC WLAC WLWB  
WMAL WNAC WOKO WSPD

**E-9:45 p.m., C-8:45, M-7:45, P-6:45**

**B — Sheaffer Lifetime Revue**

CFCF CKGW KDKA KDYL KFI  
KFJR KGHL KGIR KGO KGW  
KHQ KOA KOIL KOMO KPRC  
KSTP KTBS KTHS KWCR KWK  
WBAL WBZ WBZA WDAY WEBC  
WENR WGAR WHAM WIBA WJDX  
WJR WJZ WKY WMC WOAI WREN  
WSB WSM WSMB WTMJ  
**R — Ohman and Arden, Piano Duo**  
KSD WBN WCAE WCSH WDAF  
WEAF WFBR WFI WGY WHO  
WJAR WMAQ WOC WOW WRC  
WSAI WTAG WTAM WTIC WWJ

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

**C — Canada Dry-Jack Benny**

CFRB CKOK KMOX KMBC KMOX  
WABC WADC WCAO WCAU WCCO  
WDRS WEAN WFLB WFBM WGN  
WHAS WHK WJAS WKWB WKRC  
WMAL WNAC WOKO WOW WPG  
WSPD

**E-10:15 p.m., C-9:15, M-8:15, P-7:15**

**R — L'Heure Exquisse**

CKGW KFYI KPRC KSD KSTP  
KTR KTRB WBN WCAE WCKY  
WDAF WEAF WEBC WEEI WFBR  
WFI WFLA WGY WHO WIBA WIOD

WJAR WKY WMC WOC WOW WRC  
WRVA WSAI WSM WSMB WTAG  
WTAM WTIC WWJ WWNC

**B — Old Singing Master**

KDKA KFI KGO KGW KHQ KOA  
KOIL KOMO KSL KWK WBAL WBZ  
WBZA WGAR WHAM WJR WJZ  
WLW WMAQ WREN

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

**C — The Gauchos**

CFRB CKOK KDYL KFAB KFBK  
KPH KFJF KPRC KHJ KLRA KMBC  
KMOX KOL KRLD KSCJ KTRH  
KVOR WAAB WABC WBCM WBRC  
WBT WCAH WCCO WDAE WDBJ  
WDBO WDOB WDRS WDSU WEAN  
WFAN WFBM WFBM WGL WGR  
WHAS WHK WHP WIBW WIP WISN  
WJAS WKBN WLWB WMAL WMBD  
WNOX WOKO WPG WQAM WREC  
WSFA WSPD WTAR WTOC

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

**R — Sunday at Seth Parker's**

CFCF KBCA KFSD KFJR KGHL  
KGIR KGO KGW KHQ KOA KOMO  
KPRC KSD KSL KSTP KTR KTBS  
KYW WAPI WBN WCAE WCSH  
WDAF WDAY WEAF WEBC WEEI  
WFAA WFBZ WFI WFLA WGY  
WHO WIBA WIOD WIS WJAR WJAX  
WJDX WKY WMC WOAI WOC WOW  
WPTF WRC WRVA WSAI WSB  
WSM WTAM WTMJ WWJ

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

**B — Three Keys**

KOIL KWCR KWK WBAL WGAR  
WHAM WJZ WMAQ WREN

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

**R — Hawaiian Serenaders**

KFYR KGHL KGO KGW KHQ  
KTBS WCAE WEAF WENR WFBR  
WFI WFLA WGY WIBA WIOD WIS  
WJDX WMAQ WMC WRC WRVA  
WSAI WSB WSM WSMB WTAG  
WTAM WTIC WWJ WWNC

**C — Angelo Patri, See Wednesday**

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

**R — Melodic Serenade**

KFSD KFJR KGO KHQ KSTP  
KTR KTBS WCAE WCKY WEAF  
WENR WFBZ WFLA WGY WIBA  
WIOD WIS WJAR WMC WRC WSAI  
WSB WSM WTAM WWJ WWNC

**C — Eddie Duchin's Orchestra**

CFRB CKOK KLRA KTRH WABC  
WADC WBCM WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOB WDRS  
WDSU WFBM WGR WGST WHK  
WHP WISN WLAC WLWB WMAL  
WOKO WPG WQAM WREC WSJS  
WTAR WTOC

**B — Frankie Masters and Orchestra**

KOIL KWCR KWK WBAL WCKY  
WENR WHAM WJR WJZ WREN

**C — Pennzoil Parade**

KDYL KERN KFBK KFPY KFRC  
KGB KHJ KLZ KMJ KOIN KOL  
KVI KWJ

**E-12:00 m., C-11:00, M-10:00, P-9:00**

**B — Wm. Stoess and Orchestra**

KGHL KGO KGW KOA KOIL KOMO  
KSTP KTBS KWCR WDAY WENR  
WFLA WGAR WHAM WIOD WJR  
WJZ WKY WLW WMC WREN  
WSB WWNC  
**R — Joe Furst and Orchestra**  
WCAE WCKY WDAF WEAF WFBR  
WHO WLIT WOC WTAM



**SUNDAY—Continued**

WABC WACO WADC WBCM WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRC WDSU WFBL  
WFEA WGR WGST WHAS WHCB  
WHK WHP WIBW WISN WKBH  
WLAC WLWB WMAL WMT WOKO  
WORC WQAM WREC WSST WJSJ  
WTAQ WTAR WTOC

**E-2:30 p.m., C-1:30, M-1:30, P-1:30**  
**R—Moonshine and Hintsuckle**  
KSD WFAE WCKY WCSH WDAF  
WEAF WEEL WFBR WGY WHO  
WJAR WLIT WMAQ WOC WOW  
WRC WTAG WTAM WWJ

**B—Yeast Foamers**  
KDKA KFI KFSD KFYR KGHL  
KGO KGW KHQ KOIL KOMO KSTP  
KTAR KTHS KVOO KWCR KWK  
KYW WAPI WBAL WFLA WGBA  
WDAY WEBC WFAA WFLZ WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WLM WPTF WREN  
WRVA WSB WSM WSMB WTMJ  
WWNC

**E-2:45 p.m., C-1:45, M-12:45, P-11:45**  
**C—Hoosier Editor, Frederick Landis**  
CKOK KDB KFAB KFBK KFPY  
KFRG KGB KHJ KLZ KMBC KMOX  
KOIN KOI KOMA KSL KVI WABC  
WBBM WCAE WCAO WCAU WCCO  
WGR WHAS WHK WJAS WKRC  
WMAL WNAC WOW WRR

**E-3:00 p.m., C-2:00, M-1:00, P-12:00**  
**R—Wayne King and Orchestra**  
KDYL KFI KFYR KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP KTBS  
KTHS KVOO KYW WBNB WCAE  
WCSH WDAF WDAY WEAF WEBC  
WEEL WFAA WFBR WGY WHO  
WIBA WJAR WKY WLIT WQAI  
WOC WOW WRC WSAI WTAG  
WTAM WTMJ WWJ

**C—N. Y. Philharmonic Orchestra**  
CFRB CKOK KFH-KLRA KLZ KMBC  
KRLD KSCJ KTRH KVOR WABC  
WACO WADC WBCM WCAH WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDOD WDRC WDSU WFAN WFBL  
WFBM WFEA WGST WHAS WHCB  
WHK WHP WIBW WIP WISN WKBH  
WKBW WKRC WLAC WLWB WLZ  
WMAL WMBD WMT WOKO WORC  
WQAM WREC WSST WSA WJSJ  
WTAQ WTAR WTOC WWVA

**E-3:30 p.m., C-2:30, M-1:30, P-12:30**

**R—National Sunday Forum**  
KFYR KFHL KGIR KGO KGW  
KHQ KOA KPRC KSL KSTP KTAR  
KTBS KVOO KYW WBNB WCAE  
WCSH WDAF WEAF WEBC WEEL  
WFAA WFBR WFLA WGY WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WQAI WOW WPTF WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WWJ WWNC

**B—48th Highlanders Military Band**  
CKGW KDKA KOIL KWCR WBAL  
WBZ WBAZ WGAR WHAM WJR  
WJZ WLW WMAQ WREN

**E-4:00 p.m., C-3:00, M-2:00, P-1:00**

**—Father Coughlin**  
KMOX KSTP KYW WCAO WCAU  
WDRG WEAN WFBL WFEA WGR  
WGR WHB WICC WJAS WJR WLZ  
WLW WMT WNAC WNB WOC  
WOL WOKO WOR WORC

**R—Jodent Program**  
KFI KFSD KFYR KGHL KGIR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSL KTAR KTBS KTHS KVOO  
WAPI WBNB WCAE WCSH WDAF  
WDAY WEAF WEBC WEEL WFAA  
WFBR WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WMC WQAI WOW WPTF WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ WWNC

**B—Temple of Song**  
KDKA KOIL KWCR WBAL WBZ  
WBAZ WCKY WFLA WHAM WJZ  
WMAQ WREN

**E-4:30 p.m., C-3:30, M-2:30, P-1:30**

**B—Highlights of Bible**  
KDKA KFSD KFYR KGHL KGIR  
KGO KGW KHQ KOIL KOMO  
KPRC KSL KSTP KTAR KTBS  
KTHS KVOO KWCR KWK WAPI  
WBAL WBZ WBA WCKY WDAY  
WEBC WENR WFAA WFLA WGAR  
WIBA WIOD WIS WJDX WJR  
WJZ WKY WMC WQAI WPTF  
WREN WRVA WSB WSM WSMB  
WWNC

**E-4:45 p.m., C-3:45, M-2:45 P-1:45**

**R—LeTrio Charmante**  
CKGW WBNB WCAE WCSH WDAF  
WEAF WEEL WENR WFBR WFI  
WGY WHO WJAR WOC WOW WRC  
WSAI WTAG

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

**C—Roses and Drums**  
CKOK KMBC KMOX KRLD WAAB  
WABC WADC WBBM WCAO WDSU  
WFBM WGR WGST WHK WJAS  
WKRC WMAL

**B—World of Religion**  
KFSD KFYR KGHL KGIR KGO  
KGW KHQ KOA KOIL KPRC KTAR  
KTBS KTHS KVOO KWCR KWK  
KYW WAPI WBAL WBAP WBZ  
WBAZ WCKY WDAY WEBC WFLA  
WGAR WHAM WIBA WIOD WIS  
WJAX WJDX WJZ WMC WQAI  
WPTF WREN WRVA WSB WSMB  
WWNC

**R—Pop. Concert, Walter Logan**

CKGW KFSD KGO KGW KHQ KOA  
KSTP KTAR KTBS WAPI WBNB  
WCAE WCSH WDAF WEAF WEBC  
WEEL WENR WFBR WFI WFLA  
WGY WHO WIOD WJAR WKY WMC  
WOC WOW WRC WRVA WSAI WSB  
WSM WTAG WTAM WWJ WWNC

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

**C—Blue Coal Revue**  
WAAB WABC WCAO WCAU WDRG  
WEAN WFBL WGR WHCB WHP  
WOKO

**R—Big Ben's Dream Dramas**

KDYL KFI KGO KOA KSD KSTP  
WBNB WCAE WCSH WDAF WEAF  
WEEL WENR WFBR WFI WGY  
WJAR WOW WRC WSAI WTAG  
WTAM WTMJ WWJ

**E-5:45 p.m., C-4:45, M-3:45, P-2:45**

**R—Kremlin Art Quintet**  
CKGW KSD WBNB WCSH WDAF  
WEAF WEEL WFBR WFI WGY  
WJAR WOC WOW WRC WSAI  
WTAG WTAM WWJ

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

**C—Poet's Gold-David Ross**  
CFRB CKOK KFH KLZ KRLD

KSCJ KVOR WABC WACO WADC  
WBCM WCAO WCAU WCCO WDAE  
WDBJ WDOB WDOD WDRC WDSU  
WFBL WFPM WFEA WGR WGST  
WHAS WHEC WHP WIBW WISN  
WJAS WKBH WLAC WLWB WMAL  
WMT WNAX WOKO WORC WQAM  
WREC WSST WSA WJSJ WTAQ  
WTAR WTOC WWVA

**R—Catholic Hour**

KEX KFSD KFYR KGA KGHL  
KGIR KJR KOA KPO KPRC KSTP  
KVOO WAPI WBAP WBNB WCAE  
WCSH WDAF WEAF WEBC WEEL  
WENR WFBR WFLA WGY WHO  
WIBA WIOD WJAR WJAX WJDX  
WKY WLIT WMC WQAI WOC  
WOW WRC WRVA WSAI WSM  
WSMB WTAG WTAM WWJ WWNC

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

**C—Little Jack Little**  
CFRB CKOK KFH KLZ KRLD KSCJ  
KSL KVOR WACO WADC WCAU  
WCCO WDAE WDBJ WDOB WDOD  
WDRG WDSU WFBL WFPM WFEA  
WGR WGST WHAS WHEC WHP  
WIBW WISN WJAS WKBH WKRC  
WLAC WLWB WLZ WMAL WMT  
WNAX WOKO WORC WPG WQAM  
WREC WSST WSA WJSJ WTAQ  
WTAR WTOC WWVA

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

**R—Sweetheart Days**  
KEX KFSD KGA KJR KOA KPO  
KSD KSTP KTAR KTBS KVOO  
WBNB WCAE WDAF WEAF WEEL  
WFBR WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WKY  
WMAQ WMC WOC WOW WPTF  
WRVA WSAI WSM WTAG WWJ

**C—Irene Beasley, Round Towners**

CFRB CKOK KDYL KFAB KFBK  
KFH KFJF KFRG KHJ KLRA  
KMBC KMOX KOL KRLD KSCJ  
KVOR WABC WBCM WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDOB WDOD WDRC  
WDSU WEAN WFBL WFPM WFEA  
WGR WGST WHAS WHEC WHK  
WHP WIBW WISN WJAS WKBH  
WKBW WLWB WMBD WNAC WNOX  
WODX WOKO WORC WOWO WQAM  
WREC WSA WSPD WTAQ WTAR  
WTOC WWVA

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

**R—Donald Novis, Tenor**  
KFSD KFYR KGO KGW KHQ KOA  
KSL KSTP KTAR KTBS KVOO  
WBNB WCSH WDAF WEAF WEBC  
WEEL WFBR WFLA WGY WHO  
WIBA WIOD WJAR WJDX WKY  
WLIT WMAQ WOC WOW WSAI  
WSM WTAG WTAM WWJ WWNC

**C—World's Business, Dr. Klein**

KFAB KFH KFPY KGB KLZ KMOX  
KOH KRLD KSCJ KTRH KVI  
KVOR WABC WACO WADC WBBM  
WBCM WBIG WBRC WBT WCAH  
WCAO WCCO WDBJ WDOD WDRC  
WEAN WFAN WFBL WFPM WFEA  
WGL WGR WHAS WHEC WIP  
WISN WJAS WLAC WLWB WLZ  
WMAL WMT WNAC WNAX WNOX  
WOKO WORC WPG WQAM WREC  
WSST WTAQ WTAR WWVA

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

**R—Ray Knight See Monday**  
**C—New World Symphony**  
CKOK KFH KLZ KMBC KRLD KSCJ  
KTRH KVOR WABC WACO WADC  
WBCM WCAH WCAO WCAU WCCO

## SATURDAY—Continued

WHK WHP WIBW WISN WJAS  
WKBW WLBW WMAL WNAC WNAX  
WNOX WOKO WORC WPG WQAM  
WREC WSFA WSPD WTAQ WTAR  
WTOC WVVVA

### R — K-7 Drama

KFI KFYR KGO KGW KOA KOMO  
KSD KSL KSTP KTBS KVOO KYW  
WBEN WCAE WCSH WDAF WDAY  
WEAF WEBC WEEI WFBR WFI  
WFLA WGY WHO WIBA WIOD  
WJAR WJAX WKY WOC WOW  
WRC WSAI WSM WTAG WTAR  
WWJ WWNC

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

**B — Marjell Pollock-Vee Lawhurst**  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WMAQ WREN

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

**C — Music That Satisfies, See Tuesday**

### R — Erno Rapee and Orchestra

CFCF CKGW KFI KFYR KGO KGW  
KHQ KOA KPRC KSD KSFP KTAR  
KTBS WBEN WCAE WCKY WCSH  
WDAF WEAF WEEI WFBR WFI  
WFLA WGY WHO WIBA WIOD  
WIS WJAR WKY WMAQ WMC WOAI  
WOC WRC WSAI WSB WSMB  
WTAG WTAM WWJ WWNC

### B — Gus Van, Pickens Sisters

KDKA KOIL KPRC KWCR KWK  
WAPI WBAL WBPB WBZ WBZA  
WGAR WHAM WIDX WJR WJZ  
WLS WMC WREN WSB WSM WSMB

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

### C — Do Re Mi Girls

CFRB CKOK KFH KLRA KLZ  
KMBC KSCJ KTRH KTSa KVOR  
WAAB WABC WADC WBCM WBT  
WCAH WCAU WCCO WDAE WDBJ  
WDBO WDRC WDSU WEAN WFBL  
WFBM WFEA WGST WHAS WHP  
WIBW WISN WJAS WKBH WKWB  
WLAC WLBW WLBZ WMAL WMBD  
WMT WNAX WOKO WORC WQAM  
WREC WSBT WSFA WSJS WTAR  
WTOC

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

### B — S.R.O., Comedy Sketch

CFCF CKGW KDKA KWCR WBAL  
WBZ WBZA WGAR WHAM WJR  
WJZ WLW WMAQ WREN

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

**R — Lucky Strike See Tuesday**

### E-10:15 p.m., C-9:15, M-8:15, P-7:15

### C — Public Affairs Institute

KDYL KFBK KFH KFFJ KFPY  
KFRG KGB KHJ KLRA KLZ KMBC  
KMOX KOH KOL KSCJ KTRH  
KTSa KVI KVOR WAAB WABC  
WBBM WBCM WBIG WBRB WBT  
WCAO WCCO WDAE WDBJ WDBO  
WDOD WDSU WEAN WFBM WFEA  
WGST WHAS WHEC WHP WIBW  
WJAS WKBH WKWB WLBW WMAL  
WNAX WNOX WOKO WORC WOWO  
WPG WQAM WREC WSFA WSPD  
WTOC

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

**B — Three Keys, See Thursday**

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

### C — Vaughn DeLeath

CFRB CKOK KDYL KFAB KFBK  
KFH KFFJ KFPY KFRG KGB KHJ  
KLZ KMBC KOH KOL KSCJ KTRH  
KVI KVOR WABC WACO WBCM  
WBIG WBRB WCAO WCAU WCCO  
WDBJ WDOO WDOD WDSU WEAN  
WFBL WFEA WGR WGST WHP  
WJAS WKBH WMAL WNAC WNAX  
WNOX WOKO WORC WOWO WQAM  
WSFA WSPD WTAQ WTAR WTOC  
WVVVA

### B — Twenty-Fingers of Harmony

CFCF CKGW KDKA WCKY WGAR  
WHAM WJZ WREN

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

**B — Amos' Andy, See Monday**

### C — Guy Lombardo and Orchestra

CKOK KDYL KFAB KFBK KFFJ  
KFPY KFRG KGB KHJ KLRA KLZ  
KMBC KMOX KOH KOL KRLD  
KSCJ KTRH KTSa KVI KVOR  
WABC WBCM WBRB WBT WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDSU WEAN WFBL  
WFBM WGL WGST WHAS WHEC  
WHK WHP WIBW WISN WKWB  
WLBW WMAL WMBO WNAC WNAX  
WNOX WODX WOKO WQAM WREC  
WSPD WTAR WTOC WVVVA

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

**B — National Opera, See Tuesday**

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

### C — Harold Stern and Orchestra

CFRB CKOK KDYL KFAB KFBK  
KFH KFFJ KFPY KFRG KGB KHJ  
KLRA KLZ KMBC KMOX KOH  
KRLD KSCJ KTRH KTSa KVI  
KVOR WAAB WABC WBCM WBT  
WCAO WCCO WDAE WDBJ WDBO  
WDOD WDRC WDSU WEAN WFAN  
WFBM WGL WGST WHAS WHEC  
WHP WIBW WIP WISN WKWB  
WLBW WMAL WMBD WNAX  
WNOX WODX WOKO WORC WQAM  
WREC WSPD WTAR WTOC WVVVA

### R — Paul Whiteman and Orchestra

KSD WCAE WCKY WEAF WEEI  
WFI WGY WJAR WMAQ WRC  
WTAM WWJ

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

### C — California Melodies

KFBK KFPY KLZ KMBC KOH  
KTRH KVOR WABC WADC WBCM  
WBRB WBT WCAH WCAU WFBL  
WFBM WGL WHAS WISN WKWB  
WLAC WMAL WMBD WMT WNAX  
WNOX WOKO WPG WSPD WVVVA

### R — Roger Wolfe Kahn, See Monday

### B — Emil Coleman and Orchestra

KDKA KOIL KWCR KWK WBAL  
WBZ WBZA WGAR WHAM WJZ  
WREN

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

### R — Ben Bernie and Orchestra

KOA KPRC KSD KTBS KVOO  
WBEN WCAE WCKY WDAF WEAF  
WEBC WFBR WFLA WHO WIBA  
WIOD WKY WOC WOW WRC WSB  
WSMB WTAM WWJ WWNC

## SUNDAY

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

### R — Major Bowes Family

KEX KFYR KGA KJR KOA KPO

KSL KSTP KTBS WAPI WCSH WDAF  
WEAF WFLA WGY WIOD WILT  
WMAQ WMC WPTF WRC WSM  
WTAM WWJ WWNC

### E-12:00 m., C-11:00, M-10:00, P-9:00

### C — Salt Lake Tabernacle Choir

CFRB CKOK KFAB KFBK KFPY  
KGB KLZ KMBC KOH KSCJ KVOR  
WAAB WABC WADC WBIG WCAO  
WCCO WDBJ WDOD WFBL WFEA  
WGR WHAS WHEC WHK WISN  
WJAS WKBN WLBZ WMAL WMBD  
WMT WNAX WNOX WOKO WORC  
WPG WQAM WREC WSBT WSJS  
WTAQ WTAR WVVVA

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

### R — Legion of the Lost

CKGW KEX KGA KJR KOA KPO  
KPRC KTBS WAPI WBEN WCKY  
WDAF WEAF WFBR WFI WFLA  
WGY WHO WIOD WJAR WKY  
WMC WOC WRC WSAI WSB WSM  
WSMB WSXR WTAG WTAM WWNC

### C — Reis and Dunn

CFRB KDYL KFAB KFBK KFFJ  
KFRG KHJ KLRA KMBC KMOX  
KOL KRLD KSCJ KTRH KVOR  
WAAB WABC WBBM WBRB WCAH  
WCAU WCCO WDAE WDBJ WDBO  
WDOD WDSU WFBL WFEA WGR  
WGST WHAS WHP WIBW WJAS  
WKBH WKBN WMAL WMBD  
WNAX WNOX WODX WOKO WORC  
WPG WQAM WREC WSFA WTAQ  
WTAR WVVVA

### E-12:45 p.m., C-11:45, M-10:45, P-9:45

### C — Emery Deutsch and Orchestra

CFRB CKOK KDYL KFAB KFBK  
KFFJ KFRG KHJ KLRA KMBC  
KOL KRLD KSCJ KTRH KVOR  
WAAB WABC WBBM WBCM WBRB  
WCAH WCAU WCCO WDAE WDBJ  
WDBO WDOD WDSU WFBL WGR  
WGST WHAS WHEC WIBW WISN  
WJAS WKBH WKBN WLBW WMAL  
WMBD WODX WOKO WORC WOWO  
WPG WQAM WREC WSFA WTAQ  
WTAR WVVVA

### E-1:00 p.m., C-12:00, M-11:00, P-10:00

### R — Symphony Concert, Erno Rapee

KDYL KEX KFYR KGA KJR KOA  
KOMO KPO KTAR KTBS WBEN  
WCAE WCKY WDAF WDAY WEAF  
WEEI WFI WFLA WGY WHO WIOD  
WJAR WMAQ WOC WTAM WWJ  
WWNC

### E-1:30 p.m., C-12:30, M-11:30, P-10:30

### C — Columbia Church of the Air

CFRB CKOK KFAB KFBK KFPY  
KLZ KMBC KOH KSCJ KTRH KVI  
KVOR WAAB WABC WADC WBCM  
WBIG WBRB WBT WCAH WCAO  
WCAU WCCO WDBJ WDOD WDRC  
WFBL WGR WHEC WHK WISN  
WJAS WLBW WLBZ WMAL WMT  
WOKO WOWO WPG WQAM WSBT  
WSJS WTAQ WTAR WVVVA

### B — Clyde Doerr's Saxophone Octet

KDKA KFI KFSB KGO KHQ KOA  
KOMO KWCR WBL WDAY WGAR  
WHAM WJZ WLW

### E-2:00 p.m., C-1:00, M-12:00, P-11:00

### C — Cathedral Hour

CFRB CKOK KFH KLRA KLZ  
KMBC KSCJ KTRH KTSa KVOR

**FRIDAY—Continued**

**B — First Nighter**

KDKA KDYL KFI KFSD KGO KGW  
KHQ KOA KOIL KOMO KPRC  
KSTP KTAR KTBS KWK WBAL  
WBZ WBZA WCKY WECB WGAR  
WHAM WJZ WKY WOAI WREN  
WTMJ

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

**C — To the Ladies, Morton Downey**  
COK KMCB KMOX KRLL WABC  
WADC WCAO WCAU WCCO WDRS  
WEAN WFBL WFBM WGN WGST  
WHAS WHK WJAS WKBW WKRC  
WMAL WNAC WOKO WSPD

**R — Pond's Program**

KSD WBEN WCAE WCSH WDAF  
WEAF WENR WFBZ WGY WHO  
WJAR WLIT WOC WOW WRC  
WSAI WTAG WTAM WWJ

**B — Armour Program, Eddie & Ralph**

KDKA KFI KGO KGW KHQ KOA  
KOIL KOMO KPRC KSL KSTP  
KWK WAPI WBAL WBZ WBZA  
WECB WFAA WGAR WHAM WIOD  
WJAX WJR WJZ WKY WMAQ  
WMC WOAI WREN WRVA WSB  
WSM WSMB WTMJ WWNC

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

**C — Music That Satisfies, See Monday**  
**R — Paul Whiteman and Orchestra**  
KFI KFYZ KGO KGW KHQ KOA  
KOMO KSD KSL KSTP WBEN  
WCAE WCSH WDAF WDAY WEAF  
WECB WEEI WFBZ WGY WHO  
WJAR WLIT WOC WOW WRC  
WRVA WSAI WTAG WTAM WTIC  
WTMJ WWJ

**B — Phillips Lord, See Monday**

**E-10:15 p.m., C-9:15, M-8:15, P-7:15**

**C — Easy Aces, See Monday**  
**B — Concert Orchestra**  
CKGW KPRC WBAL WCKY WFLA  
WGAR WHAM WIOD WIS WJAX  
WJZ WKY WMAQ WMC WOAI  
WREN WRVA WSB WSM WWNC

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

**R — Elgin—Floyd Gibbons**  
CFCE CKGW KDYL KFI KFSD  
KFYZ KGHL KGIR KGO KGW  
KHQ KOA KOMO KPRC KSD  
KSTP KTAR KTBS WAPI WBEN  
WCAE WCSH WDAF WDAY WEAF  
WECB WEEI WENR WFAA WFBZ  
WFLA WGY WHO WIBA WIOD WIS  
WJAR WJAX WJDX WKY WLIT  
WMC WOAI WOC WOW WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTIC WTMJ WWJ  
WWNC

**B — Three Keys, See Thursday**

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

**C — Myrt and Marge, See Monday**  
**C — Stoopnagle & Budd, See Monday**  
**B — Mildred Bailey, See Monday**

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

**C — Columbia Syp. Orch., See Monday**  
**B — Ames 'n' Andy, See Monday**  
**C — Edwin C. Hill, See Monday**  
**R — Anson Weeks and Orchestra**  
CFCE KSD WEAF WEEI WFBZ  
WFLA WGY WIOD WIS WJAR  
WLIT WOW WRC WTAG WTAM  
WTMJ WWNC

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

**R — Jones and Hare, See Monday**

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

**C — Guy Lombardo, See Monday**

**SATURDAY**

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

**R — Cheerio, See Monday**

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

**C — Little Jack Little, See Monday**

**E-9:45 p.m., C-8:45, M-7:45, P-6:45**

**B — Little Orphan Annie, See Monday**

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

**R — Waldorf-Astoria Orch., See Monday**  
**B — Little German Band**  
KDKA KEX KFSD KFYZ KGA  
KJR KOA KPO KTAR KTBS KWCR  
WBAL WFLA WGAR WIBA WIOD  
WJZ WKY WREN WSB WWNC

**C — The Funnyboners**

CFRB CKOK KFH KLZ KSCJ KTRH  
KVOR WAAB WABC WACO WADC  
WBCM WBT WCAH WCAO WCAU  
WCCO WDAE WDBJ WDBO WDOD  
WDRS WDSU WFEA WGST WHAS  
WHEC WHK WHP WIBW WICC  
WISN WJAS WKBH WKBW WKRC  
WLAC WLWB WLWB WMAL WMT  
WNAX WOKO WORC WQAM WREC  
WSBT WSPA WSJS WTAQ WTAR  
WTOC WWVA

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

**R — Harlem Fantasy**  
KEX KFSD KGA KJR KOA KPO  
KTBS WCAE WEAF WIBA WKY  
WMC WRC WSM WWNC

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

**C — Jack Miller and Orchestra**  
CFRB CKOK KFH KLZ KMBC  
KMOX KSCJ KTRH KVOR WAAB  
WABC WACO WADC WBCM WBT  
WCAH WCAO WCCO WDAE WDBJ  
WDBO WDOD WDRS WDSU WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHP WISN WJAS WKBW  
WKRC WLAC WLWB WLWB WMT  
WNAX WOKO WORC WQAM WREC  
WSBT WSPA WSJS WTAQ WTAR  
WTOC WWVA

**R — Donald Novis, See Monday**

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

**C — Frederic William Wile**  
KFBK KFPY KGB KHJ KMBC  
KMOX KOH KTRH KVI KVOR  
WABC WACO WADC WBCM WBIG  
WBRG WBT WCAH WCAO WCAU  
WCCO WDAE WDRS WFBM WFEA WGL  
WGN WGR WJAS WLAC WLWB  
WMAL WMT WNAX WNOX WOKO  
WQAM WSPA WSPD WTOC WWVA  
**B — Ames 'n' Andy, See Monday**  
**R — George Olsen and Orchestra**  
KEX KFSD KGA KJR KOA KPO  
KTBS WEAF WFI WIBA WJAR  
WKY WMAQ WMC WOW WRC  
WSM WTAG

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

**C — William Vincent Hall**  
CFRB CKOK KFBK KFH KFPY  
KFCR KGB KHJ KLZ KMBC KMOX  
KOH KOL KSCJ KTRH KTSK KVI

KVOR WABC WACO WBBM WBCM  
WBIG WBRG WBT WCAO WCAU  
WCCO WDAE WDBJ WDBO WDOD  
WDSU WEAN WGR WGST WHAS  
WHEC WHP WIBW WISN WJAS  
WKBH WNAC WNAX WNOX WOKO  
WORC WOWO WQAM WREC WSPA  
WSPD WTAQ WTAR WTOC WWVA  
**B — Jack Fulton, Jr., Tenor**  
KDKA KOIL KWCR KWK WBAL  
WENR WFLA WHAM WIOD WIS  
WJR WJZ WREN WRVA WWNC

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

**C — Moyer The Buyer**  
CFRB CKOK KFH KLRA KMBC  
KMOX KRLL KSCJ KTRH KVOR  
WABC WACO WADC WBCM WBT  
WCAH WCAO WCCO WDAE WDBJ  
WDBO WDOD WDRS WDSU WEAN  
WFAN WFBM WFEA WGR WGST  
WHAS WHEC WHK WHP WIBW  
WICC WIP WISN WJAS WKBH  
WKRC WLAC WLWB WLWB WMT  
WNAC WNAX WOKO WORC WQAM  
WREC WSBT WSPA WSJS WTAQ  
WTAR WTOC WWVA

**R — Three Jesters**

WBEN WCSH WEAF WFRB WFI  
WGY WJAR WOW WRC WTAG  
**B — Cuckoo Program, Ray Knight**  
CKGW KEX KGA KJR KOA KTBS  
KWCR WBAL WFLA WGAR WHAM  
WIBA WJDX WJR WJZ WREN  
WRVA WSB WSM WWNC

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

**C — Keenan and Phillips**  
CFRB CKOK KFH KLRA KMBC  
KMOX KRLL KSCJ KTRH KVOR  
WABC WACO WADC WBCM WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRS WDSU WFBM  
WFEA WGR WGST WHAS WHK  
WHP WIBW WICC WISN WJAS  
WKBH WKRC WLAC WLWB WLWB  
WMT WNAC WNAX WOKO WORC  
WQAM WREC WSBT WSPA WSJS  
WTAQ WTAR WTOC WWVA  
**R — The Goldbergs, See Tuesday**

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

**C — Abe Lyman, See Tuesday**  
**R — Archer Gibson, Organist**  
CKGW KFSD KGO KGW KHQ KOA  
KPRC KSD KTBS WBEN WCSH  
WEAF WECB WEEI WFBZ WFI  
WFLA WFO WIBA WIOD WIS  
WJAR WKY WMAQ WOC WRC  
WSAI WSMB WTAG WTAM WWJ  
WWNC

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

**C — Edwin C. Hill See Monday**  
**B — "Whoopee"**  
CKGW KDKA KOIL KWCR KWK  
WBAL WCKY WGAR WHAM WJR  
WJZ WLS WREN

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

**B — Trio Romantique**  
KDKA KWK WBZ WBZA WGAR  
WHAM WJR WJZ WMAQ WREN  
**C — Isham Jones and Orchestra**  
CGRB CKOK KDYL KFBK KFH  
KFJR KFPY KPRC KGB KHJ KLRA  
KLZ KMBC KMOX KOH KOL  
KSCJ KTRH KVI KVOR WABC  
WBCM WBIG WBRG WBT WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDSU WDSU WFBL  
WFBM WFEA WGL WGST WHEC

**THURSDAY—Continued**

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**R — Fleischmann, Rudy Vallee**  
 CFCF CKGW KFI KFJR KGO KGW  
 KHQ KOA KOMO KPRC KSD KSL  
 KSTP KTAR KWOC WAPI WBAL  
 WBEN WCAE WCKY WCSH WDAF  
 WDAY WEAF WEBC WEVE WFBR  
 WFI WFLL WGY WHO WIOD WJAR  
 WJAX WJDX WKY WMAQ WMC  
 WOAI WOC WOW WPTF WRC  
 WRVA WSAI WSB WSM WSMB  
 WTAG WTAM WTMJ WWJ  
**C — Abe Lyman, See Tuesday**  
**B — Regimentalists, Male Chorus**  
 KDKA KOIL KWCR KWK WBAL  
 WENR WGAR WHAM WJZ WREN

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
**B — Sigmund Spaeth, Song Sleuth**  
 KDKA KOIL KWK WBZ WBZA  
 WGAR WHAM WJR WJZ WLS WLW  
 WREN

**C — Canada Dry, Jack Benny**  
 CFRB CKAK CKOK KMBC KMOX  
 WABC WACO WADC WCAO WCAU  
 WCCO WDRC WEAN WFBL WFBM  
 WGN WHK WJAS WKRC WMAL  
 WNAC WOKO WOWO WPG WSPD

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**B — Rin Tin Tin Thriller**  
 KDKA KOIL KWK WBZ WBZA  
 WGAR WHAM WJZ WLS WLW  
 WREN

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Music That Satisfies, See Tuesday**  
**R — Maxwell House Show Boat**  
 KDYL KFI KFSD KGO KHQ KHQ  
 KOA KOMO KPRC KSD KTAR KTBS  
 WAPI WBEN WCAE WCSH WDAF  
 WEAF WEEL WFBR WFI WFLL WGY  
 WHO WIOD WIS WJAR WJAX  
 WKY WMAQ WMC WOAI WOC WOW  
 WRC WRVA WSAI WSB WSM  
 WSMB WTAG WTAM WTMJ WWJ  
 WNNC

**B — Death Valley Days**  
 KDKA KOIL KWCR KWK WBAL  
 WBZ WBZA WENR WGAR WHAM  
 WJR WJZ WLS WLW WREN

**E-9:15 p.m., C-8:15, M-7:15, P-6:15**  
**C — Mills Bros. See Monday**

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Omar Khayyam**  
 CKOK KDB KERN KFBK KFPY  
 KPRC KGB KHJ KLZ KBMC KMJ  
 KMOX KOIN KOL KSL KVI KWG  
 WABC WADC WCAH WCAO WCAU  
 WCCO WDRC WEAN WFBL WFBM  
 WGN WHAD WHAS WHK WJAS  
 WJSV WKBW WKRC WNAC WOKO  
 WOWO WSPD

**B — Virtuosos, Erno Rapee**  
 KDKA KDYL KFI KFSD KGO KGW  
 KHQ KOA KOIL KOMO KPRC  
 KSTP KTAR KWCR KWK KYW  
 WAPI WBAL WBPB WBZ WBZA  
 WEBC WFLA WGAR WHAM WIOD  
 WJAX WJDX WJR WJZ WKY WLW  
 WMC WOAI WREN WRVA WSB  
 WSM WSMB WTMJ WNNC

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Andre Kostelanetz Presents**  
 CFRB CKOK KFLA KLZ KMBC  
 KMOX KSCJ KTRH KTSB KYOR  
 WAAB WABC WADC WBT WCAO  
 WCCO WDAE WDBJ WDBO WDOD  
 WDRC WDSU WEAN WFBL WFBM  
 WFEA WGST WHAS WHEC WHP

WIBW WICC WJAS WKBH WKBW  
 WLAC WLWZ WMAL WMBD WMT  
 WNAK WODX WOKO WORC WPG  
 WQAM WREC WSBT WTAR WTOG  
**R — Lucky Strike, See Tuesday**  
**B — Phillips Lord, See Monday**

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**B-Three Keys**  
 CKGW KDKA KWCR WBAL WGAR  
 WHAM WJZ WREN  
**C — Charles Carille, See Monday**

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C — Myrt and Marge, See Monday**  
**B — Jane Froman, See Tuesday**

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Columbia Symph. Orch., See Mon**  
**B — Amos 'n' Andy, See Monday**  
**R — Don Bestor and Orchestra**  
 CFCF KSD WBEN WCAE WEAF  
 WEEL WFBR WFI WFLL WGY  
 WHO WIOD WIS WJAR WOC WOW  
 WRC WTAG WTAM WWJ WNNC

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Isham Jones, See Tuesday**

**E-12:00 m., C-11:00, M-10:00, P-9:00**  
**R — Cab Calloway and Orchestra**  
 KSD WCAE WDAF WEAF WFBR  
 WGY WHO WJAR WMAQ WOC  
 WOW WWJ  
**C — Eddie Duchin, See Monday**

**E-12:30 a.m., C-11:30, M-10:30, P-9:30**  
**B — Pacific Serenaders**  
 KFJR KOA KOIL KPRC KTBS  
 KTBS KTHS KVOO KWCR WBAL WENR  
 WFLA WHAM WIBA WJR WJZ  
 WKY WLW WMC WREN WSM  
 WSMB WNNC

**FRIDAY**

**E-8:30 a.m., C-7:30, M-6:30, P-5:30**  
**R — Cheerio, See Monday**

**E-9:00 a.m., C-8:00, M-7:00, P-6:00**  
**C — Little Jack Little, See Monday**

**E-10:15 a.m., C-9:15, M-8:15, P-7:15**  
**B — Clara, Lu 'n' Em, See Monday**

**E-12:30 p.m., C-11:30, M-10:30, P-9:30**  
**C — Columbia Révue, See Monday**  
**B — National Farm and Home, See Mon.**

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

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

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**B — Don DeForest and Orchestra**  
 KFJR KOIL KSTP KWCR WBAL  
 WGAR WHAM WIBA WJZ WLW  
 WMAQ WREN

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**R — William Scotti and Orchestra**  
 KFSD KGO KOA KSD KTBS WCKY  
 WEAF WFI WJAR WJDX WMAQ  
 WMC WRC WSB WTAG WTAM  
 WNNC

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**R — Lanny Ross, Tenor**  
 KFSD KGO KOA KPRC KSD KTBS  
 WBEN WCKY WEAF WJAR WMAQ

WMC WOW WSB WSMB WTAG  
 WTAM WNNC  
**B — Lowell Thomas See Monday**

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**C — Myrt and Marge, See Monday**  
**B — Amos 'n' Andy See Monday**

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**B — Ward Wilson, See Wednesday**

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C — Three X Sisters, See Monday**  
**R — Jones and Hare, See Monday**  
**B — Stebbins Boys, See Monday**

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**R — The Goldbergs, See Monday**  
**B — Johnny Hart, See Monday**

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Edwin C. Hill, See Monday**  
**R — Cities Service Orchestra**

CKGW KOA KPRC KSD KSL KSTP  
 KTBS KTHS KVOO KYW WBEN  
 WCAE WCSH WDAF WEAF WEBC  
 WEEL WFBR WFI WFLL WGY  
 WJAR WKY WLIT WOAI WOC  
 WOW WRC WSAI WTAG WTAM  
 WTIC WTMJ WWJ  
**B — Nestle's Program**

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

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
**C — Singin' Sam, See Monday**

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — March of Time**

CKOK KFPY KHJ KLRA KLZ KMBC  
 KMOX KOH KSCJ KTRH KVI  
 WABC WADC WBCM WYV WBRC  
 WBT WCAH WCAO WCAU WDAE  
 WDBJ WDBO WDRB WEAN WFBM  
 WFEA WGR WHEC WHK WHP  
 WIBW WISN WJAS WLAC WLWZ  
 WMAL WMT WNAC WNAX WNOX  
 WOKO WORC WOWO WPG WQAM  
 WREC WSBT WSFA WSUS WSPD  
 WTAQ WTAR WTOG  
**B — Adventures in Health, See Tuesday**

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**B — Song'Fellows, Male Quartet**  
 KDKA KOIL KWCR KWK WBAL  
 WBZ WBZA WCKY WFLA WGAR  
 WHAM WIOD WJZ WLS WMC  
 WREN WSB WNNC

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Football Show, Christy Walsh**  
 CKOK KDB KERN KFBK KFPY  
 KPRC KGB KHJ KLZ KMBC KMJ  
 KMOX KOIN KOL KRLL KSCJ  
 KVI KWG WABC KSL WADC  
 WCAH WCAO WCAU WCCO WDRC  
 WEAN WFBL WFBM WGN WHAS  
 WHK WISN WJAS WKBW WKRC  
 WMAL WNAC WOKO WORC WOWO  
 WSPD

**R — Cliquot Club**  
 KSD WBEN WCAE WCSH WDAF  
 WEAF WEEL WFBR WGY WHO  
 WJAR WLIT WMAQ WOC WOW  
 WRC WSAI WTAG WTAM WTIC  
 WWJ

**TUESDAY—Continued**

**E-12:00 p.m., C-11:00, M-10:00, P-9:00**  
**C — Don Redman and Orchestra**  
 CKOK KLZ KMBC KMOX KSCJ  
 KTRH KVOR WABC WBCM WCAH  
 WCAU WCCO WDSU WFBL WGST  
 WHAS WHEC WHP WIBW WISN  
 WKBW WKRC WLAC WMBD WMT  
 WNAX WOKO WPG WREC WSBT  
 WTOC  
**R — George Olsen and Orchestra**  
 WCAE WFAF WFBR WGY WMAQ  
 WTAM WWJ WWNC  
**B — Paul Whiteman and Orchestra**  
 KDKA KWCR KWK WBAL WBS  
 WBZA WENR WGAR WJZ WRC  
 WREN WTMJ  
**E-12:30 a.m., C-11:30, M-10:30 P-9:30**  
**R — Ben Bernie and Orchestra**  
 KDYL KFI KFSD KGO KGW KHQ  
 KOA KOMO KTAR

**WEDNESDAY**

**E-8:30 a.m., C-7:30, M-6:30, P-5:30**  
**R — Cheerio, See Monday**  
**E-9:00 a.m., C-8:00, M-7:00, P-6:00**  
**C — Little Jack Little, See Monday**  
**E-10:15 a.m., C-9:15, M-8:15, P-7:15**  
**B — Clara Lu 'n' Em, See Monday**  
**E-12:00 p.m., C-11:30, M-10:30, P-9:30**  
**C — Columbia Revue, See Monday**  
**B — National Farm and Home, See Mon.**  
**E-5:45 p.m., C-4:45, M-3:45, P-2:45**  
**B — Little Orphan Annie, See Monday**  
**E-6:00 p.m., C-5:00, M-4:00 P-3:00**  
**B — B. A. Rolfe and Orchestra**  
 WBAL WCKY WGAR WJZ WLW  
 WMAQ WREN  
**R — Waldorf-Astoria Orch. See Monday**  
**C — Vaughn DeLeath**  
 CFRB CKOK KFH KLZ KSCJ KTRH  
 KVOR WAAB WABC WAO WADC  
 WBCM WCAH WCAO WDAE WDBJ  
 WDBO WDOD WDRS WDSU WFFN  
 WFBL WFEA WGST WHAS WHEC  
 WHK WIP WISN WJAS WKBB  
 WKBW WLAC WLBW WLWZ WMAL  
 WMT WNAX WOKO WQAM WREC  
 WSBT WSFA WSJS WTAQ WTAR  
 WTOC WWVA

**E-6:30 p.m., C-5:30 M-4:30 P-3:30**  
**C — William Vincent Hall**  
 WDAE WAAB WABC WBG WBRC  
 WDAE WDBJ WDBO WDOD WDSU  
 WFEA WGST WORC WREC WSFA  
 WTAR WTOC  
**B — Sheer Romance**  
 KDKA KOAL WBAL WHAM WJZ  
 WMAQ WREN  
**R — Harding Sisters See Monday**

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**C — Funnymen, See Monday**  
**R — Donald Novis, See Monday**  
**B — Lowell Thomas, See Monday**

**E-7:00 p.m., C-6:00, M-5:00 P-4:00**  
**C — Myrt and Marge, See Monday**  
**B — Amos 'n' Andy, See Monday**

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**B — Royal Vagabonds, Ward Wilson**  
 KDKA KFI KGO KGW KHQ KOA  
 KOIL KOMO KPRC KWK WAPI  
 WBAL WBZ WBAZ WCKY WECB  
 WGAR WIOD WJAX WJDX WJZ  
 WKY WMAQ WMC WOAI WPTF  
 WREN WRVA WSB WSM WSMB  
 WTMJ WWNC

**R — Ray Knight See Monday**

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**B — Stebbins Boys, See Monday**  
**C — Three X Sisters, See Monday**  
**R — Jones and Hare, See Monday**

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**C — Angelo Patri**  
 CKOK KMBC KMOX WABC WCAO  
 WCAU WCCO WFBL WGR WHAS  
 WHK WJAS WKRC WMAL WNAC  
**R — The Goldbergs, See Monday**  
**B — Johnny Hart, See Monday**

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Edwin C. Hill, See Monday**  
**R — The Shadow**  
 WBEN WCHS WFAF WEEI WFBR  
 WGY WJAR WLIT WRC WTAG  
 WTIC

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
**C — Singin' Sam, See Monday**

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Kate Smith, See Monday**  
**B — Jack Frost Melody Moments**  
 KDKA WBAL WGAR WHAM WJR  
 WJZ WLS WLW

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C — Musical Cast Freight, See Tuesday**  
**R — Whiteman's Sampler, Jack Denny**  
 KPRC KSD KTBS KVOO WBBN  
 WCAE WCKY WFAF WFAA WFBR  
 WFLA WGY WHO WIOD WIS WJAX  
 WJDX WKY WLIT WMAQ WMC  
 WOAI WOC WOV WRC WRVA WSAI  
 WSB WSM WSMB WTAM WWJ  
 WWNC

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Guy Lombardo-Burns and Allen**  
 CKOK KEFF KMBC KMOX KTRH  
 KTSB WABC WADC WCAO WCAU  
 WCCO WDRS WEAN WFBL WFBM  
 WGN WHK WJAS WKBW WKRC  
 WMAL WHK WJAS WKBW WKRC  
 WMAL WNAC WOKO WOWO WRR  
 WSPD

**R — Goodyear Program**  
 KFJR KPRC KSD KSTP KTHS  
 KVOO KYW WBBN WCAE WCHS  
 WDAY WFAF WFCB WEEI WFAA  
 WFBR WFLA WGY WHO WIBA  
 WIOD WIS WJAR WJAX WJDX  
 WKY WKIT WMC WOAI WOC  
 WOW WPTF WRC WRVA WSAI  
 WSB WSM WSMB WTAG WTAM  
 WTIC WTMJ WWJ WWNC  
**B — Sherlock Holmes**  
 CFBC CKGW KDKA KWCR KWK  
 WBAL WBZ WBZA WGAR WHAM  
 WJR WJZ WLW WREN

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Eno Crime Club, See Tuesday**  
**R — The Pridgets, Comedy Sketch**  
 KDYL KFI KFJR KGO KGW KHQ  
 KOA KOMO KPRC KSD KSTP  
 KTAR KVOO WBBN WCAE WCHS  
 WDAF WDAY WFAF WFCB WEEI  
 WENR WFAA WFBM WFLA WGY  
 WHO WIBA WIOD WIS WJAR WJAX  
 WJDX WKY WLIT WMC WOAI  
 WOC WOW WRC WSAI WSB WSM  
 WSMB WTAG WTAM WTIC WTMJ  
 WWJ WWNC

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Music That Satisfies, See Monday**  
**R — Corn Cob Pipe Club**  
 KFI KGHM KGIR KGO KGW KHQ  
 KOA KOMO KSD KSL WBBN WCAE  
 WCHS WDAF WFAF WEEI WENR  
 WFBR WGY WHO WJAR WLIT

**WOC WOW WRC WRVA WSAI**  
 WTAG WTAM WTIC WWJ  
**B — Phillips Lord, See Monday**

**E-10:15 p.m., C-9:15, M-8:15, P-7:15**  
**C — Easy Aces, See Monday**  
**B — Jack Fulton, Tenor**  
 KFJR WBAL WFCB WFLA WIBA  
 WIOD WIS WJAX WJZ WWNC

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**B — Dramatic Sketch, See Monday**

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C — Myrt and Marge, See Monday**  
**C — Stoopnagle and Budd, See Monday**  
**B — Mildred Bailey, See Monday**

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Columbia Symp. Orch., See Mon.**  
**R — Nellie Revell**  
 CFBC CKGW KSD WFAF WGY  
 WLIT WRC WWJ  
**B — Amos 'n' Andy, See Monday**  
**C — Edwin C. Hill, See Monday**

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Angelo Patri**  
 KDB KERN KFBC KFPY KFRC  
 KGB KHJ KMJ KOIN KOL KSL  
 KVI KWG  
**R — Jones and Hare, See Monday**

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Isham Jones, See Tuesday**

**E-12:00 p.m., C-11:00 M-10:00 P-9:00**  
**C — Don Rodman, See Tuesday**  
**R — Roger Wolfe Kahn, See Monday**

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

**THURSDAY**

**E-8:30 a.m., C-7:30, M-6:30, P-5:30**  
**R — Cheerio, See Monday**

**E-9:00 a.m., C-8:00, M-7:00, P-6:00**  
**C — Little Jack Little, See Monday**

**E-10:15 p.m., C-9:15, M-8:15, P-7:15**  
**B — Clara, Lu 'n' Em, See Monday**

**E-12:30 p.m., C-11:30, M-10:30, P-9:30**  
**C — Columbia Revue, See Monday**  
**B — National Farm and Home See Mon.**

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

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**C — H. V. Kaltenborn, See Tuesday**  
**R — Waldorf-Astoria Orch., See Monday**

**E-6:30 p.m., C-5:30 M-4:30, P-3:30**  
**B — Old Songs of Church**  
 KEX KFSD KGA KJR KOA KOIL  
 KPO KTBS KWCR WBAL WGAR  
 WJZ WKY WLW WMAQ WREN

**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 — Myrt and Marge See Monday**  
**B — Amos 'n' Andy, See Monday**  
**R — The Rollickers, Male Quartet**  
 KGO KOA WAPI WBBN WFAF  
 WFI WJAR WMAQ WTAM

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**R — Ray Knight, See Monday**  
**B — Ward Wilson, See Wednesday**

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**R — Ray Perkins, See Tuesday**  
**B — Stebbins Boys, See Monday**

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**C — George Price, See Tuesday**  
**R — The Goldbergs, See Monday**  
**B — Johnny Hart, See Monday**

**TUESDAY**

**E-8:30 a.m., C-7:30, M-6:30, P-5:30**  
**R — Cheerio, See Monday**

**E-9:00 a.m., C-8:00, M-7:00, P-6:00**  
**C — Little Jack Little, See Monday**

**E-10:15 a.m., C-9:15, M-8:15, P-7:15**  
**B — Clara, Lu 'n' Em, See Monday**

**E-12:30 p.m., C-11:30, M-10:30, P-9:30**  
**C — Columbia Revue, See Monday**

**B — National Farm and Home, See Mon.**

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

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**C — Current Events, Kaltenborn**

CKOK KFH KGB KLZ KMBC KOH  
 KSCJ KTRH KVR WAAB WABC  
 WACO WBIG WBRC WBT WCAH  
 WCAO WDAE WDBJ WDBO WDDO  
 WDRG WFAN WFBL WFEA WEAS  
 WHEC WIBW WIP WISN WJAS  
 WKBN WKWB WLAC WLWB WLBZ  
 WMAL WMT WNAZ WNOX WOKO  
 WORC WOWO WQAM WREC WSBT  
 WSPA WSJS WTAQ WTAR WTOG  
 WYVA

**R — Waldorf-Astoria Orch., See Mon.**

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**C — Jack Miller and Orchestra**

KLRA WABC WBIG WBRC WDBJ  
 WDBO WDDO WDSU WFEA WGST  
 WNOX WORC WREC WSPA WTAR  
 WTOG

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**R — Back of the News in Washington**

KFI KFSD KGHK KGIR KGO KOA  
 KSD KTAR WAPI WFAF WFRB  
 WFI WIOD WIS WJAR WJDX  
 WMAQ WOW WPTF WRC WSM  
 WSBM WTAG WWNC

**B — Lowell Thomas, See Monday**

**C — Keenan and Phillips**

CKOK KFH KLZ KMBC KSCJ  
 KTRH KVR WAAB WACO WADC  
 WBCM WCAH WCAO WDAE WDBJ  
 WDBO WDDO WDSU WFBM WFEA  
 WGST WHAS WHP WISN WJAS  
 WKWB WKRC WLAC WLWB WLBZ  
 WMT WNAZ WORC WQAM WREC  
 WSBT WSJS WTAQ WTAR WTOG

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**R — Mid-Week Hymn Sing**

KFI KGIR KGO KOA KSD KTAR  
 WAPI WBN WFAF WJAR WJDX  
 WMAQ WSAI WSBM WTAG  
**C — Myrt and Marge, See Monday**

**B — Amos 'n' Andy, See Monday**

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**R — Ray Knight, See Monday**

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**R — Ray Perkins**

KSD KYW WBN WCAE WCHS  
 WFAF WEEL WFRB WFI WGY  
 WHO WJAR WOC WOW WRC WSAI  
 WTAG WTAM WWJ  
**B — Stebbins Boys, See Monday**

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**C — Chase & Sanborn, Georgia Price**

CKOK KMBC KMOX WABC WBBM  
 WCAO WCAU WGR WHK WJAS  
 WKRC WNOX WOKO  
**R — The Goldbergs, See Monday**

**B — Johnny Hart See Monday**

**E-8:00 p.m., C-7:00 M-6:00, P-5:00**  
**R — Blackstone, Sanderson-Crumit**

KSD KSTP KYW WBN WCAE  
 WCHS WDAF WFAF WEBC WEEL  
 WFI WGY WHO WJAR WOC WOW  
 WRC WSAI WTAG WTAM WWJ

**B — You and Your Government**

CFCE CKGW KDKA KDYL KEX  
 KFSD KGIR KJR KOA KOIL KPO  
 KTAR KTBS KWCR KWK WBAL  
 WBZ WBZA WCKY WENR WFLA  
 WGAR WHAM WIOD WIS WJZ  
 WKY WMC WPTF WREN WSB  
 WSM WWNC

**C — Abe Lyman and Orchestra**

CKOK KMBC KMOX WABC WADC  
 WCAO WCAU WDRG WEAN WFBL  
 WFBN WGN WGR WHAS WHK  
 WJAS WKRC WMAL WNAC WOKO  
 WSPD

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
**C — Edwin C. Hill**

CKOK KMBC KMOX KRLL KTSA  
 WABC WADC WBBM WBT WCAO  
 WCAU WCCO WDRG WDSU WEAN  
 WFBL WFBN WGR WHAS WHK  
 WJAS WKRC WLAC WMAL WNAC  
 WOKO WSPD

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

**B — Adventurers in Health**

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

**R — Wayne King and Orchestra**

KSD WBN WCAE WCHS WFAF  
 WEBC WEEL WFRB WFI WGY WHO  
 WJAR WOC WOW WRC WRVA  
 WSAI WTAG WTAM WTMJ WWJ

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C — Musical Fast Freight**

CKOK KFH KFJF KLRA KMBC  
 KMOX WAAB WABC WADC WBBM  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDRG WEAN WFBL WFBN  
 WHK WJAS WKWB WKRC WMAL  
 WOKO WOWO WQAM WSPD WTOG

**B — Pat Barnes, See Monday**

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Music That Satisfies**

CKOK KDB KERN KFBK KFH  
 KFJF KPFP KFRC KGB KHJ KLRA  
 KLZ KMBC KMJ KMOX KOH KOIN  
 KOL KRLL KSL KTRH KVI KWG  
 WABC WADC WBRC WBT WCAO  
 WCAU WCCO WDBJ WDRG WDSU  
 WEAN WFBL WFBN WGN WGST  
 WHAS WHEC WHK WISN WJAS  
 WKWB WKRC WLAC WLWB WMAL  
 WMBG WMT WNAZ WOKO WOWO  
 WPG WREC WSPD WTAR

**R — Ben Bernie and Orchestra**

KFYR KOA KPRC KSTP WBAP  
 WBN WCAE WCKY WCHS WDAF  
 WDAY WFAF WEEL WFRB WFI  
 WGY WHO WJAR WKY WLS WMC  
 WOAI WOC WOW WRC WRVA WSAI  
 WSB WSM WSBM WTAG WTAM  
 WWJ

**B — Musical Memories**

KDKA KWK WJAL WBZ WBZA  
 WHAM WJR WJZ WMAQ WREN

**E-9:15 p.m., C-8:15, M-7:15, P-6:15**  
**C — Threads of Happiness**

CKOK KDB KERN KFBK KFH  
 KFJF KPFP KFRC KGB KHJ KLRA  
 KLZ KMBC KMJ KMOX KOIN  
 KOL KRLL KSL KTRH KVI KWG  
 WABC WADC WBRC WBT WCAO  
 WCAU WCCO WDDO WDRG WDSU  
 WEAN WFBL WFBN WGN WGST  
 WHAS WHK WJAS WKWB WKRC  
 WLAC WMAL WNAC WOKO WOWO  
 WSPD WTAR

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Eno Crime Club**

CKOK KMBC KMOX WABC WADC

WCAO WCAU WDRG WEAN WFBL  
 WGN WHK WJAS WKWB WKRC  
 WMAL WNAC WSPD

**R — Ed Wynne-Don Voorhees**

CFCE KFI KFSD KFYR KGHK  
 KGIR KGO KGW KHQ KOA KOMO  
 KPRC KSD KSL KSTP KTAR KTBS  
 KVOO WBAP WBN WCAE WCHS  
 WDAF WDAY WFAF WEBC WEEL  
 WFBE WFI WGY WHO WJBA  
 WIOD WIS WJAR WJAX WJDX  
 WKY WMAQ WMC WOAI WOC  
 WOW WPTF WRC WRVA WSAI  
 WSB WSBM WTAG WTAM WTMJ  
 WWJ WWNC

**B — Friendship Town**

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

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

**C — Jay Flippen-cities**

CFRB CKOK KFYR KFAB KFBK  
 KFH KFJF KPFP KHJ KLRA KLZ  
 KMBC KMOX KOL KRLL KTRH  
 KVR WAAB WACO WBCM WBIG  
 WBRC WBT WCAH WCAO WCAU  
 WCCO WDAE WDBJ WDBO WDDO  
 WDRG WDSU WFBL WFBN WFEA  
 WGL WGST WHAS WHEC WHP  
 WIBW WISN WJAS WKWB WKBN  
 WKBW WMAL WNAC WNAZ WNOX  
 WODX WORC WQAM WREC WRUF  
 WSPD WTAQ WTAR WTOG WWVA

**R — Lucky Strike Dance Hour**

KFI KFSD KFYR KGO KGW KHQ  
 KOA KOMO KPRC KSD KSL KSTP  
 KTAR KTBS KTHS KVOO WBAP  
 WBN WCAE WCHS WDAF WDAY  
 WFAF WEBC WEEL WENR WFRB  
 WFI WFLA WGY WHO WJBA WIOD  
 WIS WJAR WJAX WJDX WKY  
 WMC WOAI WOC WOW WRC WRVA  
 WSAI WSB WSM WSBM WTAG  
 WTAM WTMJ WWJ WWNC  
**B — Phillips Lord, See Monday**

**E-10:15 p.m., C-9:15, M-8:15, P-7:15**  
**B — Sigmund Spaeth, Tune Detective**

CFCE KWCR WBZ WBZA WGAR  
 WJZ

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**B — Dramatic Sketch, See Monday**

**C — Charles Carlile, See Monday**

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C — Myrt and Marge, See Monday**

**B — Jane Froman and Orchestra**

CFCE KWK WBAL WCKY WGAR  
 WJR WJZ WLW WREN

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Columbia Symp. Orch., See Mon.**

**B — Amos 'n' Andy, See Monday**

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**B — National Grand Opera**

CFCE CKGW KFYR KGIR KOA KPO  
 KPRC KSTP KTBS KWK WBAL  
 WBZ WBZA WCKY WEBC WENR  
 WFLA WGAR WHAM WHA WIS  
 WJR WJZ WKY WMC WRC WREN  
 WSM WWNC

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Isham Jones and orchestra**

CFRB CKOK KFH KLRA KMBC  
 KSCJ KTRH KVR WAAB WABC  
 WACO WADC WBCM WCAH WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDDO WDRG WDSU WGST WHEC  
 WHP WISN WKWB WKRC WLAC  
 WLWB WMAL WMBD WMT WNAZ  
 WOKO WORC WPG WQAM WREC  
 WSBT WSPA WSJS WTAR WTOG

**MONDAY—Continued**

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

**C — Edwin C. Hill**  
 CKOK KMBC KMOX KRLL K TSA  
 WABC WADC WBBM WBT WCAO  
 WCAU WCCO WDRS WDSU WEAN  
 WFBL WFBM WGR WHAS WHK  
 WJAS WKRC WLAC WMAL WNAC  
 WOKO WSPD

**R — Soconyland Sketches**  
 WBEN WCHS WFAF WEEI WGY  
 WJAR WTAG WTIC

**B — Carnation Contented Program**  
 CFCF CKGW KDKA KFJR KOIL  
 KPRC KSTP KVOO KWK WBAL  
 WCKY WEBC WFAA WFLA WHAM  
 WIOD WJAX WJZ WKY WLS WMC  
 WOAI WPTF WREN WRVA WSB  
 WSM WTMJ

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
**C — Singin' Sam**

CKOK KMBC KMOX WABC WADC  
 WCAO WCAU WCCO WDRS WEAN  
 WFBL WFBM WGN WGR WHK  
 WJAS WKRC WMAL WNAC WOKO  
 WSPD

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Kate Smith, La Palina**

CKOK KFAB KFJF KMBC  
 KMOX WABC WADC ABCM WCAH  
 WCAO WCAU WCCO WFBL WFBM  
 WGN WGR WHAS WHEC WHK  
 WISN WJAS WKBN WKRC WMAL  
 WOKO WSPD

**R — The Revelers, Quartet**  
 CFCF CKGW KPRC KSD KTBS  
 KTBS KVOO WAPI WBEN WCAE  
 WCHS WDAF WFAF WEEI WFAA  
 WFBR WFLA WGY WHO WIOD  
 WIS WJAR WJAX WJDX WKY  
 WLIT WMAQ WMC WOAI WOC  
 WOW WPTF WRC WRVA WSAI  
 WSB WSM WSMB WTAG WTAM  
 WTIC WWJ WWNC

**B — Red and Ramona**  
 KDKA KFJR KOIL KWCR WBAL  
 WBG WGR WHAM WIBA WJZ  
 WLS WREN WTMJ

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C — Fu Manchu Mystery Drama**

CFRB CKOK KFJB KFJF KFYR  
 KGB KLRA KLZ KMBC KMOX  
 KOH KSCJ KTRH KVI KFOR WABC  
 WADC WBCM WBIG WBRB WBT  
 WCAH WCAU WCCO WDBJ WDDO  
 WEAN WFBM WFEA WGR WISN  
 WJAS WKBW WLAC WLWB WLZ  
 WMBD WMT WNAC WNAK WNOX  
 WORC WOWO WPG WQAM WREC  
 WSBT WSJS WTAQ WTAR

**B — Pat Barnes in Person**  
 KDKA WBAL WBZ WBZA WGR  
 WHAM WJR WJZ WLS WLW

**E-9:00 p.m., C-8:00 M-7:00, P-6:00**  
**R — A. & P. Gypsies**

KSD WBEN WCAE WCHS WFAF  
 WFEI WGY WHO WJAR WLIT  
 WMAQ WOC WOW WRC WSAI  
 WTAG WTAM WTIC WWJ

**B — Sinclair Wiener Minstrels**  
 KDKA KFJR KOIL KPRC KSTP  
 KTBS KVOO KWCR KWK WBAL  
 WBZ WBZA WDAY WEBC WFAA  
 WFLA WGR WHAM WIBA WIOD  
 WIS WJAX WJDX WJZ WKY WLS  
 WMC WOAI WPTF WREN WRVA  
 WSB WSM WSMB WTMJ WWNC

**E-9:15 p.m., C-8:15, M-7:15, P-6:15**  
**C — Mills Brothers**

CKOK KMBC KMOX WABC WADC  
 WCAO WCAU WDRS WEAN WFBL

WGN WHAS WHEC WHK WJAS  
 WKBW WKRC WMAL WNAC WOKO  
 WSPD

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Evening in Paris Mystery**

CKOK KMBC KMOX WABC WADC  
 WBT WCAO WCAU WCCO WEAN  
 WFBL WGN WHAS WHEC WHK  
 WKBW WKRC WMAL WNAC WOKO  
 WOWO WSPD

**R — Parade of the States**  
 CFCF CKGW KDYL KFI KFJR  
 KGR KGO KGW KHQ KOA KOMO  
 KPRC KSD KSTP WBEN WCAE  
 WCHS WDAF WFAF WEEI WENR  
 WFAA WFBR WGY WHO WJAR  
 WKY WLIT WMC WOAI WOC  
 WOW WRC WSAI WSB WSM WTAG  
 WTAM WTIC WTMJ WWJ

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Music That Satisfies**

CKOK KDB KDYL KERN KFBC  
 KFJF KFJR KFYR KFCR KGB KHJ  
 KLRA KLZ KMBC KMJ KMOX  
 KOH KOIN KOL KRLL KTRH K TSA  
 KVI KWG WABC WADC WBRB  
 WBT WCAO WCAU WCCO WDBJ  
 WDRS WDSU WEAN WFBL WFBM  
 WGN WGST WHAS WHEC WHK  
 WISN WJAS WKBW WKRC WLAC  
 WLWB WMAL WMBG WMT WNAC  
 WOKO WOWO WPG WREC WRUF  
 WSPD WTAR

**R — National Radio Forum**

KFSD KFJR KGHJ KGR KGO  
 KGW KOA KOMO KPRC KSD KSL  
 KSTP KTBS KVOO WBEN WCHS  
 WDAY WFAF WEBC WEEI WENR  
 WFLA WGY WHO WIBA WIOD  
 WJAR WJDX WKY WLIT WMC  
 WOAI WOC WOW WPTF WRC  
 WRVA WSAI WSB WSM WTAG  
 WTAM WWJ WWNC

**B — Phillips Lord, Country Doctor**

CFCF CKGW KDKA KOIL KWCR  
 KWK WBAL WBZ WBZA WCKY  
 WGR WHAM WJR WJZ WMAQ  
 WREN

**E-10:15 p.m., C-9:15, M-8:15, P-7:15**  
**C — Easy Aces**

CFRB CKOK KDB KERN KFBC  
 KFJR KFCR KGB KHJ KLZ KMBC  
 KMJ KMOX KOIN KOL KSL KVI  
 KWG WAAB WABC WADC WCAO  
 WCAU WCCO WDRS WEAN WFBL  
 WFBM WGN WHAS WHK WJAS  
 WKBW WKRC WMAL WOKO  
 WOWO WSPD

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**B — Dramatic Sketch**

CFCF KDKA KFJR KOIL KTBS  
 KWCR KYW WBAL WBZ WBZA  
 WCKY WGR WHAM WIBA WIOD  
 WIS WJAX WJDX WJR WJZ WKY  
 WMC WREN WSB WSM WWNC

**C — Charles Carlile, Tenor**

KLRA WAAB WABC WDAE WDBJ  
 WDBO WDDO WDRS WDSU WFEA  
 WGST WLAC WLWB WORC WQAM  
 WREC WSFA WSJS WTAR WTOC

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C — Myrt and Marge**

KDB KERN KFBC KFJR KFCR  
 KGB KHJ KLZ KMBC KMJ KMOX  
 KOIN KOL KSL KVI KWG WBBM  
 WCCO WDSU WFBM WHAS WLAC

**C — Col. Stoppagle and Bud**

CFRB CKOK WAAB WABC WADC  
 WBCM WDRS WFBL WFEA WHEC  
 WHK WJAS WKBW WLWB WOKO  
 WROC

**B — Mildred Bailey**  
 CFCF KDKA KSTP KTBS KWCR  
 WBAL WCKY WGR WHAM WIBA  
 WIOD WIS WJZ WKY WMAQ WMC  
 WREN WWNC

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Edwin C. Hill**

KERN KFBC KFYR KFRC KGB  
 KHJ KLZ KMJ KOIN KOL KSL  
 KVI KWG

**C — Howard Barlow's Symphony**

CFRB CKOK KLRA KLZ KMBC  
 KSCJ KTRH KFOR WAAB WABC  
 WCAO WADC WBCM WCAH WCAO  
 WDAE WDBJ WDBO WDDO WDRS  
 WDSU WFAN WFBL WFBM WFEA  
 WGST WHAS WHEC WHK WHP  
 WIBW WIP WISN WKBW WKRC  
 WLAC WLWB WMAL WMT WNAX  
 WOKO WORC WPG WQAM WREC  
 WSBT WSFA WSJS WTAR WTOC

**B — Amos 'n' Andy**

KDYL KFI KFSB KGO KGW KHQ  
 KOA KOIL KOMO KPRC KSTP  
 KTBS KWK WBAF WDAF WBEA  
 WENR WIBA WJDX WKY WMAQ  
 WMC WOAI WREN WSB WSM  
 WSMB WTMJ

**R — William Scotti and Orchestra**

CFCF WFAF WEEI WFBM WFLA  
 WHO WIOD WIS WJAR WLIT WOC  
 WRC WTAG WTAM WTIC WWJ  
 WWNC

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**R — Billy Jones and Ernie Hare**

KDYL KFI KFSB KGO KGW KHQ  
 KOA KOMO KTAR

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Guy Lombardo and Orchestra**

CFRB CKOK KFJF KLRA KLZ  
 KMBC KSCJ KTRH KFOR WAAB  
 WABC WACO WADC WBCM WCAH  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDDO WDRS WDSU WGST  
 WHAS WHEC WHK WHP WIBW  
 WISN WKBW WKRC WLAC WLWB  
 WMAL WMBD WMT WNAC WNOX  
 WORC WPG WQAM WREC WSBT  
 WSFA WSJS WTAR WTOC

**R — Ben Bernie and Orchestra**

WFAF WEEI WFBM WJAR WLIT  
 WRC WTAG WTIC

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

CKOK KDYL KFAB KFBK KFJF  
 KFJR KLRA KMBC KMOX KOL  
 KRLL KSCJ KTRH KFOR WABC  
 WBCM WBRB WBT WCAH WCAU  
 WCCO WDAE WDBJ WDBO WDDO  
 WDSU WEAN WFBL WFBM WGL  
 WGST WHAS WHEC WHK WHP  
 WIBW WISN WKBN WKBW WLWB  
 WMAL WMBD WNAC WNAK WNOX  
 WOKO WPG WQAM WREC WSFA  
 WSPD WTAR WTOC WWVA

**B — Clyde McCoy's Orchestra**

KDKA KWCR KYW WBAL WJZ  
 WRC

**R — Roger Wolfe Kahn Orchestra**

CKGW KFJR KPRC KSTP KTBS  
 WAPI WCAE WCKY WDAF WDAY  
 WFAF WENR WFBR WFLA WHO  
 WIBA WIOD WIS WLIT WMAQ  
 WMC WOC WRVA WSB WSMB  
 WTAM WWJ WWNC

**E-12:30 a.m., C-11:30, M-10:30, P-9:30**  
**B — Lew Diamond's Orchestra**

KOIL KTBS KWCR KYW WBAL  
 WHAM WJR WJZ WKY WLW  
 WRC WREN

# WHAT'S ON THE AIR TONIGHT?

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

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

Call	Dial	Call	Dial

Call	Dial	Call	Dial

Call	Dial	Call	Dial

TIME—E Eastern Standard; C Central Standard; M Mountain Standard; P Pacific Standard.  
**RADEX** is the only publication listing stations in alphabetical order for your convenience.

## MONDAY

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

**R — Cheerio**

CFCF CKGW KFYZ KPRC KSTP  
 KTBS WAPI WBEN WCAE WCFL  
 WCKY WCSH WDAF WEAF WEEL  
 WFBR WFI WFLA WGY WIBA  
 WIOD WIS WJAR WJAX WJDX  
 WKY WOAI WOW WPTF WRC  
 WRVA WSB WSM WSMB WTAG  
 WTAM WWJ WWNC

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

**C — Little Jack Little**

CFRB CKOK KFJF KFJF KMBC  
 KTRH WAAB WABC WBCM WBIG  
 WBRC WBT WCAH WDAE WDBJ  
 WDOD WDOD WDRC WDSU WEAN  
 WFBL WFEA WGR WGST WHAS  
 WHEC WHP WJAS WKBN WLWB  
 WMAL WMBD WOKO WORC WPG  
 WQAM WSFA WSPD WTAQ WTAR  
 WTOC WWVA

**E-10:15 a.m., C-9:15, M-8:15, P-7:15**

**B — Clara, Lu 'n' Em**

KDKA KFYZ KOA KOIL KPRC  
 KSL KSTP KVOO KWK WAPI  
 WBAL WBZ WBZA WCKY WDAY  
 WEBC WFAA WFLA WGAR WHAM  
 WIBA WIOD WIS WJAX WJDX  
 WJR WJZ WKY WMC WOAI WPTF  
 WRN WRVA WSB WSM WSMB  
 WTMJ WWNC

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

**C — Columbia Revue**

CFRB CKOK KDYL KFAB KFBC  
 KFJF KFJF KPRC KHJ KLRA KLZ  
 KOL KRLD KSCJ KTRH KWOR  
 KABC WBBM WBIG WBT WCAH  
 WCAO WDBJ WDBO WDOD WDRC  
 WDSU WEAN WFAN WFBL WFEA  
 WGR WGST WHAS WHEC WIBW  
 WIP WISN WJAS WKBN WKBN  
 WLWB WMAL WNAC WNAX WNOX  
 WODX WOKO WORC WOWO WPG  
 WQAM WREC WSFA WTAQ WTAR  
 WTOC WWVA

**B — National Farm and Home Hour**

KDKA KFYZ KOA KOIL KPRC  
 KSTP KTBS KTHS KVOO KWCR  
 KWK KYW WAPI WBAL WBZ  
 WBZA WCKY WDAF WDAY WEBC  
 WFAA WFLA WGAR WHAM WHO  
 WIBA WIOD WIS WJAX WJDX  
 WJR WJZ WKY WLW WMC WOAI  
 WOC WOV WPTF WRC WRN  
 WRVA WSB WSM WSMB WTMJ  
 WWNC

**E-5:45 p.m., C-4:45, M-3:45, P-2:45**

**B — Little Orphan Annie**

KDKA WBAL WBZ WBZA WJR  
 WJZ

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

**C — Irene Beasley**

CFRB CKOK KDYL KFAB KFJF

KRFJ KLRA KMBC KSCJ KTRH  
 KWOR WAAB WABC WBBM WBIG  
 WBRC WBT WDAE WDBJ WDBO  
 WDOD WDRC WDSU WFAN WFBL  
 WFEA WGST WHAS WIBW WIP  
 WISN WJAS WKBN WKBN WLWB  
 WMAL WNAX WNOX WOKO WORC  
 WOWO WQAM WREC WSFA WTAQ  
 WTAR WTOC

**R — Waldorf-Astoria Orchestra**

KSD KYW WBEN WCAE WDAF  
 WEAF WEEL WFBR WGY WIOD  
 WJAR WMAQ WRC WSM WTAG  
 WWJ WWNC

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

**C — Reis and Dunn**

CFRB CKOK KDB KDYL KFAB  
 KFJF KLRA KLZ KMBC KRLD  
 KSCJ KTRH WAAB WABC WBIG  
 WBRC WBT WCAH WCAO WDAE  
 WDBJ WDBO WDOD WDRC WDSU  
 WEAN WFAN WFBL WFEA WGR  
 WGST WHAS WHEC WHP WIBW  
 WIP WISN WJAS WKBN WKBN  
 WLWB WNAX WNOX WOKO WORC  
 WOWO WQAM WREC WSFA WTAQ  
 WTAR WTOC

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

**C — Vaughn DeLeath**

KLRA WAAB WABC WBIG WBRC  
 WDAE WDBJ WDBO WDOD WDSU  
 WFEA WGST WORC WREC WSFA  
 WTAR WTOC

**R — Harding Sisters, Piano Duo**

KSD KSTP WCKY WEAF WFBR  
 WFI WHO WIBA WIOD WJAR  
 WMAQ WMC WOC WRC WSB  
 WTAG WTAM WWJ WWNC

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

**C — The Funnyboners**

CFRB CKOK KDYL KFAB KFJF  
 KFJF KLRA KLZ KSCJ KTRH  
 WAAB WABC WBBM WBIG WBRC  
 WBT WCAH WCAO WCAU WDAE  
 WDBJ WDBO WDOD WGST WHAS  
 WHP WISN WJAS WKBN WKBN  
 WKBN WLWB WNAX WNOX WOKO  
 WORC WOWO WQAM WREC WSFA  
 WSPD WTAQ WTAR WTOC WWVA

**R — Donald Novis, Tenor**

KECA KEX KFSD KGA KJR KOA  
 KPO KSD WAPI WEAF WFBR WFI  
 WHO WIS WMAQ WOC WSAI WSB  
 WSM WWJ WWNC

**B — Lowell Thomas**

CKGW KDKA WBAL WBZ WBZA  
 WGAR WHAM WJR WJZ WLW

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

**R — Harriet Lee and Her Leaders**

KFI KFSD KGO KHQ KOA WBEN  
 WEAF WJAR WMAQ WTAG

**C — Myrt and Marge**

CKOK KRLD WABC WADC WBT  
 WCAO WCAU WDRC WEAN WFBL

WGR WHK WJAS WKRC WMAL  
 WNAC WOKO WSPD WWVA

**B — Amos 'n' Andy**

CKGW KDKA WBAL WBZ WBZA  
 WCKY WFLA WGAR WHAM WIOD  
 WJAX WJR WJZ WLW WPTF WRC  
 WRVA

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

**C — Sid Gary**

CKOK KFAB KFBC KFJF KFPY  
 KGB KLZ KMBC KMOX KOH  
 KRLD KSCJ KTRH KVI KWOR  
 WABC WACO WADC WBCM WBIG  
 WBRC WBT WCAH WCAO WCAU  
 WCCO WDBJ WDOD WDRC WEAN  
 WFBN WGR WISN WJAS WKBN  
 WLAC WLWB WLWB WMAL WMT  
 WNAC WNAX WNOX WOKO WORC  
 WQAM WJSJ WTAQ WTAR WWVA

**R — Wheatonville, Ray Knight**

KHQ WDAF WEAF WEEL WGY  
 WHO WJAR WLIT WMAQ WOC  
 WOW WRC WTAM

**B — Tastyest Jesters**

KDKA WBAL WBZ WBZA WCKY  
 WJZ

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

**C — Three X Sisters**

WABC WCAO WCAU WDRC WEAN  
 WFBL WFEA WGR WHEC WHP  
 WJAS WLWB WMAL WNAC WOKO  
 WORC

**R — Billy Jones and Ernie Hare**

WBEN WCAE WCSH WDAF WEAF  
 WEEL WFBR WFLA WGY WIOD  
 WIS WJAR WLIT WMAQ WOW  
 WRC WRVA WSAI WTAG WTAM  
 WTIW WWNC

**B — Stebbins Boys**

KDKA KFI KGO KGW KHQ KOA  
 KOMO KSL KWK WBAL WBZ  
 WBZA WCKY WENR WGAR WHAM  
 WJR WJZ WREN

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

**C — Tito Guizar, Tenor**

CFRB CKOK KFAB KFJF KLZ  
 KMBC KRLD KSCJ KTRH WABC  
 WBBM WBCM WBIG WBRC WBT  
 WCAH WCAO WCAU WDAE WDBJ  
 WDBO WDOD WDRC WEAN WFBL  
 WFBN WFEA WGR WGST WHAS  
 WHEC WHK WHP WISN WJAS  
 WKBN WMAL WNAC WNAX WNOX  
 WODX WOKO WORC WQAM WREC  
 WSFA WSPD WTAQ WTAR WTOC  
 WWVA

**R — The Goldbergs**

KSD WBEN WCAE WCSH WDAF  
 WEAF WEEL WENR WFBR WGY  
 WJAR WLIT WOW WRC WSAI  
 WTAG WTAM WWJ

**B — Johnny Hart in Hollywood**

WBZ WGAE WGAR WHAM WJZ  
 WMAQ



nels. In one channel a single 227 is used as an intermediate audio amplifier and in the other channel two 227s in parallel are used in the intermediate stage. Likewise, two of the three 245s are used in one audio channel and the third in the other channel. It will be noted that two 280 rectifier tubes are used.

Two Rola speakers are incorporated in the V16—one 10-inch for the bass and one 8-inch for the treble. These speakers are perfectly matched. As will be seen in the illustration, there are three controls; the center one for turning the illuminated, fre-

quency-calibrated dial; the one on the left controls a switch which provides for connecting a phonograph or television pick-up into the circuit; the volume control is on the right. The left control also governs the sensitivity of the set. Red and green lights are ingeniously provided as a "colortone control." To adjust the Ozarka V-16 to the exact pitch of the broadcast station, turn the knob until one-half of a slot of light is green and the other half red. Thus one does not need to depend upon the ear alone to tune the set at a point that will give the finest harmony.

## The Month's Changes

### POWER

570	KMTR	Hollywood, Calif., 1000 to 500
730	CMK	Havana, Cuba, 5000 to 3150
750	VOWR	St. John's, Nfld., 500 to 750
810	VOAS	St. John's, Nfld., 75 to 200
890	CKPR	Ft. William, Ont., 50 to 100
890	CMX	Havana, Cuba, 3000 to 500
893	VOGT	Wabana, Nfld., 100 to 400
930	CMJF	Camaguey, Cuba, 225 to 200
950	VONA	St. John's, Nfld., 30 to 100
965	CMBC	Havana, Cuba, 500 to 150
987	CMGF	Matanzas, Cuba, 50 to 100
1030	CMHI	Santa Clara, Cuba, 200 to 30
1040	CMGH	Matanzas, Cuba, 150 to 15
1125	CMHJ	Cienfuegos, Cuba, 75 to 40
1170	CMJE	Camaguey, Cuba, 20 to 50
1170	WCAU	Philadelphia, Pa., 10000 to 50000
1185	CMW	Havana, Cuba, 1500 to 1400
1210	CFNB	Fredericton, N. B., 50 to 100
1260	CMJI	Ciego de Avila, Cuba, 112 to 5
1365	CMCY	Havana, Cuba, 500 to 1000
1382	CMJC	Camaguey, Cuba, 75 to 150
1405	CMCH	Havana, Cuba, 100 to 50
1445	CMBN	Havana, Cuba, 65 to 30
1485	CMBR	Havana, Cuba, 15 to 40

### FREQUENCIES

588	CMCJ	Havana, Cuba, from 630
630	CMCU	Havana, Cuba, from 1270
780	CMBS	Havana, Cuba, from 790
780	CMCQ	Havana, Cuba, from 1140
1020	XEFD	Tijuana, Mex., from 840
1125	CMHJ	Cienfuegos, Cuba, from 1150
1175	CMJE	Camaguey, Cuba, from 856
1260	CMJI	Ciego de Avila, Cuba, from 1335
1270	CMBD	Havana, Cuba, from 965
1270	CMCN	Havana, Cuba, from 925
1325	CMCR	Havana, Cuba, from 1345
1325	CMCW	Havana, Cuba, from 1270
1365	CMCY	Havana, Cuba, from 1355
1405	CMCH	Havana, Cuba, from 1395
1405	CMCM	Havana, Cuba, from 1395
1405	CMDB	Havana, Cuba, from 1395
1485	CMBR	Havana, Cuba, from 1500

### NEW

588	CMDD	Havana, Cuba
834	CMGA	Colon, Cuba
840	CHNC	Toronto, Ont.

850	KIEV	Glendale, Calif.
910	VOGY	St. John's, Nfld
925	CMDE	Havana, Cuba
965	CMAY	Havana, Cuba
1010	CMCX	Havana, Cuba
1110	CMJO	Ciego de Avila, Cuba
1115	VONF	St. John's, Nfld.
1115	XENT	Neuvo Laredo, Mexico
1140	CMBJ	Havana, Cuba
1200	CHCH	Montreal, Que.
1210	KIEM	Eureka, Calif.
1210	.....	Chester Twp., N. Y.
1225	CMHK	Cruces, Cuba
1240	CMJN	Camaguey, Cuba
1290	CMHL	Cienfuegos, Cuba
1310	CMJP	Moron, Cuba
1365	CMBF	Havana, Cuba
1420	WKEA	Hazleton, Pa.
1485	CMBK	Havana, Cuba

### DELETED

580	CFCL	Toronto, Ont.
660	CMCO	Havana, Cuba
790	CMBT	Havana, Cuba
870	WBCN	Chicago, Ill.
990	WJEM	Tupelo, Miss.
1150	CMGI	Colon, Cuba
1395	CMCG	Havana, Cuba
1444	CMBJ	Havana, Cuba
1500	CMBQ	Havana, Cuba

### CALLS

940	XEFO	Mexico City, Mex., formerly XEO
1270	WESG	Ithaca, N. Y., formerly WEAI
1300	KALE	Portland, Ore., formerly KTBR
1310	WTRC	Elkhart, Ind., formerly WJAK
1370	WGLC	Glens Falls, N. Y., formerly WESG

### LOCATION

1210	WJW	Akron, Ohio, from Mansfield, Ohio
1400	KLO	Salt Lake City, from Ogden, Utah

### CHAINS

600	WICC	Bridgeport, Conn., new CBS
1200	WFAM	South Bend, Ind., new CBS
1300	KALE	Portland, Ore., new CBS

### PERMIT TO INCREASE POWER

1150	WHAM	Rochester, N. Y., to 50000
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### PERMIT TO CHANGE LOCATION

1380	KSO	Clarinda, Iowa, to Des Moines, Iowa
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General Electric, at the present time, has no 110-volt d. c. receiver, for they feel that any of their a. c. sets can be converted over to d. c. by the local distributors when required. The older d. c. models, therefore, have been discontinued.

Kolster Radio has several a. c. models available for direct current. The model K 60 is a midget superheterodyne using seven tubes, and it lists for \$44.75. Model K 70 is a console 8-tube type that sells for \$64.75; model K 120 lists at \$81.75, and model K 130 9-tube console sells for \$112.25. The latter model is equipped with phonograph and short-wave converter attachments. All d. c. and a. c. models made by Kolster are fitted with the remarkable new Rejcostatic device for the control of outside electrical interferences and static.

The new Crosley d. c. model is called the Senator. It is a 110-volt d. c. superheterodyne receiver using seven tubes—three -36s, two -37s, and two -71As—and lists for \$69.95. Pilot Radio Corporation has two midget d. c. receivers—models S 156 and S 158. The makers of Majestic do not offer a d. c. receiver, and General Motors has retired from the radio set field and is showing no new models. Sparton has no new d. c. receiver, but will bring out a new battery set, while Stewart Warner is not in the 1933 d. c. field.

#### Photo is on Page 5

The Fada 110-volt d. c. receivers are models 171 and 173, both superheterodynes using eight tubes—four -36s, two -37s, and two 57s. A d. c. receiver is made by U. S. Radio and Television Corp'n., and is known as model 33, using six tubes in a tuned radio-frequency circuit.

In the all-wave and short-wave fields most sets are a. c. operated but having duplicates for battery power only. Hammarlund Roberts, makers of the Comet-Pro short-wave receiver, an a. c. superheterodyne, advise that experiments are now be-

ing conducted with 110-volt d. c. power and a receiver may be offered before long. National a. c. and battery short-wave sets are not made for d. c. operation. The same applies to Silver Marshall, Lincoln, Midwest and others. All radio makers now present one or more battery models which are widely used in d. c. and rural districts. These are designed principally for the Air-Cell battery and the 30 series of 2-volt tubes.

The Scott a. c. and battery receivers are not adapted to d. c. operation, but the manufacturers recommend the use of the Janette rotary converter when their a. c. all-wave set is to be used on d. c. lines. For the information of readers of RADEX the Janette Converter lists at about \$58.00 and develops an a. c. output of 150 watts at 110 volts and 60 cycles. It is available for operation on 32, 110 or 220 volts direct current, and the output is sufficient to operate the largest a. c. superheterodyne receivers.

## With Radio's Engineers

*(Continued from page 20)*

tenna the receiver had to be located close to the antenna lead to avoid a long lead-in which tended to sap the signal strength due to its high capacity effect. With the Kolster Rejcostatic system, the set may be placed anywhere choosing the best possible location for the antenna with no bad effects from the long transmission line lead.

### The Ozarka

A 16-tube broadcast receiver is presented by Ozarka, Inc., 1257 Fullerton Ave., Chicago, Ill. This company which has been manufacturing radio receivers since May 1st, 1921, counts its V16 as its greatest achievement. There are four 235, seven 227, three 245 and two 280 tubes. One of the 227's is used as local oscillator. Two of the 227s operate in parallel in the second detector circuit. After the second detector the system divides into two separate audio chan-

"Well, how does your Uncle Oscar look? Is he tall or short, or bald-headed?" I continued.

"I don't know," said Gracie. "He never took his toupee off."

"What's your recreation?" I asked. "I'd like to play a good game of bridge." This was Gracie.

"As things are now," confided George, "if she opens with two spades and everybody passes, Gracie doubles."

"I read a lot—everything from history to fiction," said Gracie, ignoring calumny.

This was too much for George.

"Do you like new writers or old ones?" he parried.

Gracie fell in through force of habit.

"Oh," she said, "I like old ones. My brother had new writers once and it was terrible."

My pencil was all worn out. I started to go.

"I'm having my portrait painted," Gracie called after me. "By Saint Armand."

"And she's all worked up about it," chimed in George.

## Good Sets Go Wrong

*(Continued from page 14)*

*mediate frequencies so as to replace the present -22s with some other tube to give better selectivity. These -22s do not give proper service and have to be replaced every three months. I use a 6-volt storage battery and power amplifier with two -81s and a power -50 tube. Can you suggest some efficient changes in this set?*

You cannot well substitute any other type of tube for the -22s now used in your i. f. stages. The -24 tube comes nearest to being the proper substitute. It has a different base which can be taken care of by an adapter. But the -24 has an indirect heater and takes seven times the current that the -22 does, and with three of these tubes, such as used in your set, the drain on the battery would be excessive. The plates

take a higher voltage, and the screen-grids likewise. Additional connections would be necessary, and considering everything, we do not recommend the change.

In view of the frequent failure of these tubes we suggest that the resistors in series with the negative leads to the -22 tubes to reduce the A current down to 3.3 volts used on the filaments of -22s be tested. The proper resistance for each resistor is 15 ohms—exactly. Less than that will cause the filaments to be overloaded and shorten their life. You might try a -12A tube in place of the -40 detector. Other than this we see no way to improve on this particular circuit if it has been assembled properly.

## The D. C. Models

*(Continued from page 5)*

standard cabinets at prices ranging from \$59.95 for the Baby Grand to \$100.00 for the new inclined sounding board model.

Atwater Kent presents their 110-volt d. c. models in styles 558 D. C. and 469 D. C. The former is a compact superheterodyne set using eight tubes—three -39s, one -37, one -36, one 85 and two 48s. There is a full-toned dynamic speaker, quick vision dial, automatic volume control and tone control. The cabinet is similar to model 627, alternating current, and is priced at \$68.90. The same set in a console cabinet, model 469 D. C., may be had for \$89.75.

RCA Victor expects to have a new d. c. model available within a few weeks which will be similar to model 71, a. c. mantel type, and using eight tubes. Many persons confuse all d. c. sets with battery sets, whereas a d. c. set is one that operates on the 110-volt d. c. lighting circuits in the home. Also, it should be remembered that in all d. c. sets the total number of tubes is always one less than those used in an equivalent a. c. receiver; for instance, an eight tube set is comparable to a 9-tube a. c. set since no rectifier tube is needed.

in your new feature of giving their time on the air, and also the rather complete information on each station with regard to Ekko stamps."

Howard R. Garrett, 171 Hillsdale Ave., E., Toronto, Ont., is collecting not only verifications but merchandise as well. He has received a large box of biscuits from WCAP, a 20-peso bill from XEA, an airways pass from KFBI and twenty cents worth of stamps from KGHF. He would like to hear from other owners of Victor R-35.

"I think it would be a good addition for the DX fans," suggests A. Curror, 900 Lincoln Ave., Schenectady, N. Y., "to state what make of receiver they operate when giving their records. This, I think, would be inspiring for any reader who might have the same make and model of receiver."

A letter to Meyer Tuchinsky, 3436 Filbert St., Philadelphia, Pa., from VPN at Nassau, Bahamas, indicates that that station is no more. It reads in part, "The operations of this station were only experimental and have now been prohibited." "Tuch" reports a grand total of 669 verifications to date.

R. M. Ballard, Route 3, Visalia, Calif., asks "Who is WIBS on 548 and who is F9?" He reports all but JOPK received in Japan and has received both stations in Alaska recently. He uses a Philco 96.

## On the Short Waves

*(Continued from page 23)*

calling W3RUX were two amateurs, the former being W. B. Clark, 48 Marmaduke St., Toronto,

Earl Roberts of Cambridge, Ohio, enters the lists for s. w. stations on a b. c. set with 13 police calls between 1558 and 1712 and 15 from 2414 to 2470. Then he has seven experimental and six airports. Earl reports that the call letters of the Iceland station are TFU and not TFA and that they are on 1200 meters and not 1200 kcs. They are on until

midnight their time which is three hours ahead of EST.

Harvey Kees, Beulah, N. Dak., has a log of eleven s. w. stations heard on a b. c. set without a converter—police stations in Los Angeles, Cincinnati, St. Louis, Michigan and Chicago and amateurs as far away as Indiana and Kansas. Mr. Kees reports hearing CKCK Regina on 730 kcs. Saturday, Oct. 1st.

"What station is WAT?" asks D. McNeil, 60 Chestnut Ave., Hamilton, Ont. "It is a police station close to WRDS," he adds. The official records show no WAT as yet.

## Radio Personalities

*(Continued from page 18)*

which also features Freddie Rich's 35-piece orchestra, vocal soloists and ensembles.

Jay C. Flippen has played in every state in the country, and every town of 10,000 or more. . . . Has made records for three leading phonograph companies. . . . Is crazy about baseball and never misses a game at the Yankee Stadium. . . . Plays occasional golf and sometimes gets roped into a bridge game without too much enthusiasm. . . . Likes to watch prize-fights. . . . Gets his hair trimmed but once a month and never allows a pair of scissors to touch the locks on top. . . . His biggest thrill came when he played at the Garrick Theatre in Chicago, featured in "June Days," after the three years on Chicago lake boats when he had insisted that he would play there some day.

## Lovable Dumbbell

*(Continued from page 8)*

chiffon gown with cherry sash over the sheet.

"Ask her what her brother looks like," whispered George helpfully. I did.

"My brother," drawled Gracie, "Why he looks just like Uncle Oscar ought to look."

I persisted. There must be some details.

which were received between 540 and 1500 kcys.," reports Thos. G. Hoff, 3205 Elgin Ave., Baltimore, Md.

"In nine months of DXing, 433 b. c. stations and 23 police are my reward," exults Leo J. Halpin, 17 Minder St., Rochester, N. Y. Among his catches are YV1BC, WKAQ and VAS. This is a remarkable record.

#### Some Good Logs

"I am a new reader of your magazine and would like to hear from other DXers," says Manuel Velasques, 375 Bradford St., Brooklyn, N. Y. "I am using an Atwater Kent No. 55 and have logged 235 stations all on the loudspeaker."

Pulling in three Oceania stations within a single hour, was the unusual experience of Jim Blake, Box 868, Kenora, Ontario. Between four and five a. m. on Feb. 24th last, he received 3YA, 3LO and 2YA.

"My log is now 263 stations. Reception is fair. Chicago comes in at 7:30 to 8:30 p. m. but fades away about midnight," writes Stanley Brown, 467 Congregation St., Montreal, Que.

"I use a two-tube set (battery) and have 300 stations logged with 70 verifications from 41 states and five foreign countries," is the excellent record of G. Dana Boylan, 2205 Monroe St., Wilmington, Del. "Some of my best verifications are KGFK, a 50-watter in Moorhead, Minn., KABC, a 100-watter in San Antonio, XEN, XEW, KTM, KOY, HIX, CMC, CMCD, CHNS, VAS, CFBO and KFOR, a 100-watter in Lincoln, Nebr." For those who haven't yet logged Delaware, Mr. Boylan states that WDEL is on every night until 10 p. m. EST., and that WILM signs off every night at 9 p. m.

"On my home-made 3-tube set, in a year, I have had 307 stations in 47 states and on all frequencies from 540 to 1500," advises Walter W. Bronson, 1485 Chapel St., New Haven, Conn. "I am hoping to get Wyoming soon so as to have all the states."

Charles Meyer, Jr., 411 Blake St., St. Joseph, Mo., thinks blanks for reporting reception should be printed on government postal cards. Someone else thinks the report might be on a reply postcard with the one for verification attached. Either of these would be good for U. S. stations but would not be remailable from other countries. Charles counts WNBW and CKPR as the best of his 250 stations.

Wm. E. Gibbs, 649 Washington St., Camden, N. J., reports much trouble in securing verifications from Cuba and Mexico. Readers who are able to write Spanish say that verifications come in very much better when reports are made in that language. Looks like all DXers would have to learn enough Spanish to report reception. William has a 16-tube Midwest and would like to hear from other owners of the same receiver.

#### Should Changes Count?

"I think that if a station changes its call, it should be logged as a new station." David F. Thomas, Proctorville, Ohio, objects to one of the rules adopted by RADEX. On the other hand, Mr. Thomas says he doesn't log a station that moves to a new location. We still think credit should be given for logging a new location and not for logging an old location a second time under a new call.

"HHK is still broadcasting from 8 to 9 p. m. EST," writes John H. Craig, 239 Oak St., Ridgewood, N. J. "Only yesterday I received a verification from them. They say that they broadcast a musical program and mixed with it is the gossip of Haiti. I wrote my letter to them in French and received my verification in less than two weeks." John's log now stands at 612 with 443 verifications.

"My official DX season began when I received the September RADEX," advises Herbert Van Duyne, PO Box 88, Towaco, N. J., "as I find it quite indispensable to a seasoned DXer like myself. Was particularly interested

Alaska, Sunday mornings up until 5:30 a. m. EST. They come in swell now and sound like a thousand watters instead of a 500."

With sixteen local stations within 25 miles, Bradley Brewer, 824 N. Crescent Heights Boulevard, Los Angeles, Calif., nevertheless has tuned in 203 stations in eighteen months. Among them are five Japs, nine Mexicans and six Canadians. He uses a Westerner 7-tube set, the circuit of which Bradley believes is identical with that of the Atwater Kent 55. He says it regenerates only from about 830 to 1500 kcs. and wants to know how he can make it cover the dial. Has any other reader improved his Westerner?

#### His First Season

"I have just completed my first season of DXing and ended up with the following results," informs Herbert Weidman, 508 So. Eastern Ave., Joliet, Ill. "460 stations logged; 430 stations verified; 135 100-watters or less; three 15-watters; one 10-watt. I have the following states complete: Colorado, Indiana, Kentucky, Louisiana, Nebraska, North Carolina, Utah, West Virginia, Manitoba. I have only five more to get in Texas and several states with only one more to get."

Bringing in 2YA on his very first early morning DX of the new season, set Murray D. Bryce, RMD 1, Royal Oak, Vancouver Island, B. C., off to a good start. It was his first Zealander. Mr. Bryce has a Browning-Drake regenerative set and would like some help from other owners of this set. His trouble is that 540 kcs. come in at 88-94 on his dials while 1370 comes in at 9-0. He is unable to get anything above 1370 and wants to know what change he must make in his wiring.

#### Just Found the Thrill

"I never knew there was such a thrill in pulling in low-powered and distant stations," writes a new DXer, Clyde F. Hall, Lewisburg, W. Va. He has an 8-tube Crosley and uses the entire surface of his metal lunch-car

in which his receiver is located, for an aerial. In the last two weeks, Mr. Hall has logged 19 Westcoasters and already has 39 states to his credit. He would like to hear from other Crosley users.

#### Six in One Morning

"On Saturday morning, October 1st, I received six Australian stations, four of which I had never heard before," reports Raymond Corbett, 619 Twelfth St., Sacramento, Calif. "They were 5CK, 2CO, 3AR, 6WF, 3LO and 4QG. This makes my log 265, and the thirty-fifth station I have received 2000 miles and over. The stations are sure coming in fast, and expect to have about 350 before the winter is over."

"I have a Radiola 60 that is three years old," informs Evelyn Smith, 92 Spring St., Portland, Maine. "I started in January, 1932, to get as many stations as I could and by March I had every state in the U. S., except eight. I have started tuning in again this week and hope to locate the remaining states. I also have to my credit, which I think remarkable, CMHI, Santa Clara, Cuba."

#### Picks the Hardest Ones

"I hope this DX season will be a great one for all," says Milford Voss, 1108 Wealthy St., Grand Rapids, Mich. "I now have 647 stations, with 290 verified, since last December. I have no shortwave set or converter, just a Majestic 91 eight-tube. I enjoy DXing more than anything else and pick the hardest places on the dial to get them."

"I am an ardent reader of RADEX and I don't know how anybody could get along without it," says George Burnett, 604 Sycamore St., Buffalo, N. Y. "I have been using an RCA Radiola 20 (5 tubes) and in less than a year have received 282 stations. The only foreign station I have received and verified is HIX."

"During the past two years I have logged 342 stations, including all of the west coast states, also Canada, Mexico, Cuba, Porto Rico, Haiti, Central and South America, all of

p. m. EST. XEW is a fairly reliable station if I could only understand their announcements. To date I have logged 122 stations, on the loud-speaker, and all necessarily before 11 p. m. I have no trouble separating XER from CKAC on one side and WSB on the other, with no cross talk except on nights of exceptionally poor reception when it is necessary to turn the volume control clear on."

#### Passes Good Thing Along

"I do not save my copies of RADEX," writes Dowling J. Couser, 376 Third St., Birmingham, Ala. "Instead I pass them on to new friends each month, with hopes that they, too, will become members of the RADEX family. I have an Atwater Kent console Model 55, equipped with seven Cunningham tubes. This set has been in operation for forty months and nothing has been replaced. I am enjoying perfect reception and have a log of some 200 stations. I still have my first 'across the deep blue sea' station to receive. I don't know why but I have never been able to reach beyond Canada. I guess it's because I am situated in the heart of the Birmingham steel industry. I would like to hear from other Atwater Kent owners."

In answer to B. L. Ahman of Baltimore, Clyde W. Ham, Shelby, N. C., reports that he is one below the Dixie line that has received WEXL. He counts them among his 200 verifications of 100-watters and less. He also has 19 Westcoasters of 100 watts or less. He claims seven Australians, seven Japanese, four Zealanders, two Hawaiians, one Alaskan, two European, two South American and three Central American. Mr. Ham reports the T-Ps coming through although the static is pretty heavy yet. He considers 2YA by far the best of the consistent stations in the Antipodes and would like to know what others in the East think. By the way, Clyde has worked out an effective way of attaching headphones to his Silver-Marshall G-6

which anyone may have for the writing.

Keeping track of the mileage of his log since 1925, R. A. Butts, 203 South Main St., Ellensburg, Wash., finds that he has traveled by air 18,847,990 miles. He has tuned in but four trans-Pacific stations, all of them in 1926. He has used eight different types of sets. His ground is a copper plate and old B batteries. Mr. Butts suggests that we get out a large wall map for radio use. This we could hardly undertake. If, however, any of our readers want the big original map from which the RADEX map of the world was taken, they may secure one by sending 50 cents (not stamps) to the Hydrographic Office, U. S. Navy, Washington, D. C. This map shows all the time zones in colors.

"At present I am an enthusiastic BCL," advises E. Gordon Jones, Box 26, Winter Park, Fla., "who won't go out of his way, as far as unearthly hours are concerned, to receive DX programs, although I got an awful thrill last spring out of pulling KFI on ten consecutive nights with an Echophone midget 7-tube superhet, with a cold-water pipe connection on the antenna post. And about the same satisfaction came when I received KFI for two nights, listening to a full half-hour program on each occasion, unmarred by fading or distortion, on a Majestic auto radio, only last week."

#### Good Work in B. C.

WGH, Newport News, Va., writes to Gordon Wightman, 1171 West 32nd Ave., Vancouver, B. C., that his is their most distant report. This is certainly good distance for a hundred-watter. In June Gordon verified WICC, WHOM, WHP and WFEA. In July he had WSFA and WBNX and "this morning," he writes on Sept. 4th, "I pulled in WTBO, Cumberland, Md.; WMBH, Joplin, Mo., and WSPA, Spartanburg, S. C." That's pretty good summer DX. "Tell the fellows to try KGBU, Ketchikan,

# OPENING A NEW SEASON *with the DXERS*

**T**HAT new DX calendar is going over big and it is growing constantly. A lot of stations have not as yet arranged their winter schedule of special DX programs but promise to write us as soon as they do so so they can be scheduled in our calendar. We owe an apology to the users of the leatherette cover for printing this calendar where we have and we will have to find some other place for it next month.

"Just a line to let you know that this morning, October 2nd, thanks to your DX tips, I was able to pick up the broadcast of YV1BC at Caracas, Venezuela," acknowledges Bruce Vaughan, 1312 Tenth Ave., Huntington, W. Va. Among others reporting reception of this prize are Rudolph Kure, 3633 Vine St., Cincinnati, Ohio; Stanley A. Schmuch, 94 Otis St., E. Cambridge, Mass.; Walter W. Bronson, 1485 Chapel St., New Haven, Conn.; Frank Wheeler, 406 Eagle Point, Erie, Pa. On behalf of these DXers we want to thank the good friend who advised us of the Venezuela program in time for us to include it in the October calendar.

"I have had the thrill of my lifetime!" exclaims Russell Heller, 42 N. 5th St., Emaus, Pa. "On Sunday morning, October 2nd, I was doing a little dial twisting, when, to my surprise, I heard the announcement 'YV1BC broadcasting, Caracas, Venezuela.' I immediately sat down and took the program to verify. A short time before this I had received Mexico, stations XER and XEW. After YV1BC signed off, I tuned in another station. I waited a short time for the announcement and found I had WKAQ, San Juan, P. R. I also took this program to verify. After this station signed off, some electrical nuisance spoiled the rest of my DX-ing. On December 3rd, KOH will

run a special DX program. Do not as yet know the time."

"I sat up all night Saturday, October 1st," reports L. H. Donaghy, 222 Irving Ave., Bridgeton, N. J. "I added some nice catches: KTFI, Twin Falls, Idaho; YV1BC, Caracas, Venezuela; WKAQ, San Juan, Porto Rico; 10-AB, Moose Jaw, Sask.; KVOR, Colorado Springs, Colo. and KSEI, Pocatello, Idaho." That's what we call a good night's work. Mr. Donaghy uses a five-tube Crosley "Littl-boy" Super. He now has 400 on his log with all the main ones verified. He has fifty 2000-milers verified.

## Off to a Good Start

"I started the new DX season early Sunday morning, October 2nd, with lots of pep, although there was some interference caused by a transformer," reports Milford Voss, 1108 Wealthy St., Grand Rapids, Mich. "Besides numerous west coast stations I picked up CHML, a 50-watter in Hamilton, Ont.; CHGS, 100 watts at Summerside, P. E. I.; CHWC, 500 watts at Regina, Sask.; 10-AB, 25 watts at Moose Jaw, Sask.; WKAQ, 1000 watts at San Juan, P. R., and last but not least, YV1BC, Caracas, Venezuela, S. A."

"Living in an apartment, close downtown, with all the necessary and unnecessary man-made static, I haven't much chance to DX, but with my Spartan ten superhet, I have no kick whatever as to its performance in such an impossible place for reception," writes Eugene L. Beebee, 210 Franklin St. W., Jackson, Mich. "I have only a short picture molding antenna, and only by making a long run to a water pipe could I have that sort of ground, so merely use the steam pipe for same. Not so good, but any number of times I have been able to pick up KFI as early as 8:00



last until 4:30 a. m. PST. To avoid any possible confusion concerning the time of this broadcast let us explain that we sign off the air in favor of KFWI, San Francisco, at 11:00 p. m., November 12th, which is our regular schedule. We will then be back on the air at 1:00 a. m. Sunday morning with the DX special program which will be broadcast from our Oakland and San Francisco studios.

"It has been customary during our DX programs to answer requests of listeners made in foreign countries, thru short-wave operators. The requests are first phoned to the short-wave operator in the vicinity of the listener, who relays them to our local short-wave operators, who, in turn, phone the requests to our studio. On our November 13th broadcast, we will again answer these distant requests.

"The nature of this program will be a variety of jamboree including musicians and entertainers." So-o-o-o, as Ed Wynn says, watch for this big special Sunday morning, November 13th beginning at 4:00 a. m. EST, 3:00 CST, 2:00 MST and 1:00 PST.

#### From Hawaii

KGMB Honolulu write that they do not schedule any DX programs for the reason that, due to the difference in time, their regular programs are practically DX programs for dialers in the United States proper. They add: "We are always glad to answer fan mail when three cents in stamps are enclosed. We use 250 watts on 1932 kcs. We are on the air till midnight every night (PST) and 1:30 a. m. Sundays. We are picked up regularly by fans in the antipodes."

CMDC at Havana on 675 is reported by Frank Switalski, Jr., 2819 Victoria Ave., Cincinnati, Ohio, but the new Cuban official list gives no station on 675 and no CMDC.

Stuard B. Leland, 82 St. John Place, New Canaan, Conn., heard station WESG broadcasting on 1270 kcs. from their studios in one of the

hotels in Elmira, N. Y. He feels he could not have been in error as he held them from 3:30 p. m. until 5:00. He says their signals were entirely too strong for the 50 watts the FRC allows them. We have had no notice of the removal of this station from Glens Falls, to Elmira. Will some of our New York readers advise us about this? It hardly seems possible that WESG has changed location, frequency and power without notice from the Commission.

#### Trolley Troubles

"I live on a street where there is a trolley car," laments Eugene Delmore, 2247 N. 15th St., Philadelphia, Pa. "I get locals OK during the day but no distance whatever; in the evening I get some distance but always with a lot of static. When a trolley comes down the street, it makes a terrible noise until the trolley is away past." Mr. Delmore has an excellent receiver with a 20-foot aerial and 20 feet of shielded lead-in. The aerial is well insulated and carefully constructed; the ground is a cold water pipe. This listener wants to take up DXing in earnest but under his present conditions finds it next to impossible. If any of our readers have ever had a similar condition and have been able to overcome it, we would like to publish their experience for the benefit of Mr. Delmore and others. In the last issue we described at some length the Filterizer and in this issue, the Rejectostat, both of which aerial systems are devised to eliminate the evils of which Mr. Delmore complains. Have any of our readers made use of either of these devices?

#### The Battery Sets Next

In his article this month, Mr. Dashiell presents information regarding the latest information of sets available for those who are limited to the use of direct current. Next month we hope to give similar information for that great multitude who must still depend upon batteries for their radio.

stations from Prince Edward Island to Costa Rica and from Hawaii to Australia and New Zealand. How? By patience—trying for stations at hours when honest people were in bed, four and five o'clock nearly every other a. m. By trying every kind of antenna and ground. After three or four months of this effort you are finally rewarded by a few real catches and immediately you are criticised by some fellow who just turns the dials now and then."

#### An Alaskan Station

A sales prospectus issued by KFQD, Anchorage, Alaska, gives some idea of what radio must mean to the isolated communities of that territory. Following are some excerpts from letters received by KFQD: "—pounded down twenty miles of snow drifts today to hear KFQD," a trapper writes; "—your news items are a Godsend to this remote part of Alaska; my office is full of young and old," this from a postmaster; "—had the Eskimos in tonight to listen to your programs, but never again—I had a hell of a time getting them to go back to their village," a trader comments; a woman volunteers a five-dollar contribution and writes: "I do thank you with a grateful heart for the fine service and programs you are giving us far away Alaskans."

Two stations have been marked for deletion by the FRC. The first is WMRJ at Jamaica, N. Y., and the other WPSC, State College, Pa. The latter is an old station and it hardly seems likely it will be permitted to go by default although the license was cancelled because the applicants failed to appear at the hearing. Pending definite action, we are permitting both stations to remain in our lists.

What is said to be the first school of "Aerial Journalism" ever established, is announced by Oglethorpe University, Georgia. The University owns station WJTL which will be used in laboratory and class-room work. A two-year course prepares the student for the position of Pro-

gram Director. The three-year course qualifies the student for a position as Studio Manager. The student is led step by step from the first principle of addressing the microphone to the responsibility of directing a complete radio program.

"Having noticed a query in a recent number of RADEX relating to the location of Tuinucu, Cuba," writes Hedley Simmonds, 23 Clyde St., Hamilton, Ont., "I am sending on the following information contained in my verification of reception from the old station 6KW, now CMHC. It reads as follows: 'Tuinucu is a plantation town right in the heart of Cuba on 80 degrees west longitude and almost exactly midway between the north and south coasts of Cuba. If you can find Sancti-Spiritus on your map, Tuinucu is eight miles northeast of that city.' In other words, it is located in W-25 on the RADEX map."

"Tuning for CFRB last week, brought CKRO (?) indistinctly," says R. Rosenberger, 17 Janssen Place, Kansas City, Mo. "The announcer mentioned the Canadian National Railways and I think he said he was broadcasting from Montreal." The official Canadian list this month shows two new stations, CHCH at Montreal on 1200 and CHNC at Toronto on 840, but no CKRO on 690.

"I would like to make a correction in RADEX, where you list stations on 1430 keys. (WHEC, WCAH, WHP, WOKO) as synchronized," suggests D. G. P. of Rochester, N. Y. "This is not so because these stations can broadcast their own local programs any time whenever they wish." Who can tell us if the arrangement for synchronization in this channel has been given up?

#### Here's a Good One

"Your letter has prompted us to schedule another all-night broadcast for Sunday, November 13th," writes KROW, 1520 Eighth Ave., Oakland, Calif. "This broadcast will begin at 1:00 a. m. of November 13th and

# LOOKING OVER RADIO WITH THE EDITOR

**W**ELL, the storm is over. For a time the editorial air was filled with hurtling brickbats and bouquets. Criticisms and commendations were in the mail. We seem to be just about where we were before the whole thing started. The critics and skeptics seem to have established these two points:

(a) Reception of certain stations may be very, very improbable.

(b) Verifications may be secured from stations which the recipients do not deserve.

On the other hand, the following principles seem to be equally well established:

(a) Radio reception cannot be calculated.

(b) Freaks in transmission permit occasional astonishing reception.

"I know from my own experience that it is possible to play with excellent reception some small far-away station, under perfect conditions, one night, and never duplicate it again." Thus writes A. E. Armstrong, 2021 Bonita Drive, Glendale, California. "So I cannot understand why DX fans—some of them—seek to pick flaws in the verifications of others."

## Through the Barriers

This thought is illustrated by C. J. Dolph, Howell, Mich., who writes: "Several years ago, from Manistee County in western Michigan, I picked up the program of KFPM, Greenville, Texas, a fifteen-watter. The reception was clear and I verified by letter. I thought at the time that the station must have jumped up its power." Mr. Dolph never received the station again. What possible explanation can there be for occurrences like this? It is as though the barriers were suddenly broken down permitting some far-off station to come through for a time only to be shut off a few

minutes later never to come through again. When such a phenomenon occurs, when all the usual laws of radio transmission seem to be upset, can anyone say just which station can and which cannot come through?

## Location Affects Distance

"A friend of mine lives about a hundred yards from me and I have doubled the distance of a radio set simply by taking it from my home to his," points out W. N. Bird, Floral Park, N. Y., who adds, "Please keep up the good reports from the DXers and never mind the disgruntled ones who think that any station they can't get can never be brought in by anyone else."

"Here's one for your 'Believe It or Not,'" writes B. L. Ahman, Jr., 3313 Westerwald Ave., Baltimore, Md., "I am in receipt of a verification from KLO, Ogden, Utah, which I received at 8:00 p. m. EST (5 p. m. MST) on September 19th while WCBM our local on 1370 and WTBO on 1420 and WHP on 1430 were broadcasting. Yet KLO on 1400 came through clearly for a fifteen-minute period then receded and I was unable to catch them again. Since it was still daylight in Utah and they use only 500 watts, I prize this as one of my best."

How a "Doubting Thomas" may change his point of view, is described by Charles Rowland, 257 Edison St., Pontiac, Mich. "I have been prompted to write by the current controversy in your pages. The poor old DXers are sure hearing plenty from the skeptics. One year ago when I read of Ollie Ross' record in your magazine, I wondered why the Lord gave Ananias the championship. But now I am glad I didn't voice my opinion for my first season's DXing has brought me a flock of verifications which the doubters might well question. Using a Philco 11-tube, I have listened to

pean station seems to be FYA. I played England for the first time in July. In all G5SW was played about twenty times in July and August, once or twice with excellent volume, but mostly rather weak.

#### Five Europeans

"When I last wrote you in May regarding my DX activities," advises K. P. Williamson, 1610 Sherbrooke St., West, Montreal, Que. "I was operating with a 5-tube Echophone. Since then I have purchased a new set, a 7-tube Echophone with short-wave converter. My log for four months of active radio work is as follows: 340 stations, 45 states, nine countries. In the last ten days I have pulled in, on the shortwave band, stations G5SW, Chelmsford; DJA, Berlin; FYA, Paris; I2RO, Rome, and EAQ, Madrid, all clearly and with loudspeaker volume. Considering that first class DX weather is still another month or six weeks away, I think that the new set is capable of doing big things."

#### A Battery Converter

"For s. w. work, I use a Kent, battery-operated converter, using one 230 and one 232 tube," states G. H. Coyle, P. O. Box 4056, Jacksonville, Fla. "This converter is attached to my No. 95 Philco. The range is from 18 to 32 meters. So far I have tuned in VK2ME, VK3ME, EAQ, 2RO, G5SW, XDA, XAM, HJV, DBJ, TI4NRH, PRBA, VE9JR, a number of the U. S. stations and Pontoise, France—the latter on three frequencies." On the b. c. band Mr. Coyle has logged over 400. He has two aerials, one 150 long including lead-in, the other 350 feet with lead-in. For a ground he uses six pieces of water pipe spaced six feet apart, all connected with insulated copper wire.

#### A Report from England

From H. Appleby, Jr., Stanley House, Tynemouth Road, Wellington Quay, Northumberland, England, comes the information that he receives regularly the following Amer-

ican stations: W2XAF, W8XK, W1XAZ, W3XL, W3XAL, W2XAD and VE9GW, also Rio de Janeiro and Buenos Aires. All of these are received on a four tube receiver of his own construction. The aerial is 15 feet of bare wire slung across an attic.

"The second day I had my Pilot Super Wasp, I heard I2RO, Rome, Italy, and the next day I heard G5SW in England," says William T. Wright, 3rd, 89 Faneuil Place, New Rochelle, N. Y. He receives VE9GW with plenty of volume but hasn't been able to bring in VE9CL for months. Mr. Wright encloses a clipping from the New York Sun containing the time of VK2ME Sydney and VK3ME Melbourne. The former broadcasts on 31.28 meters on Sunday only from 2 to 4 a. m., 6 to 10 a. m. and 10:30 a. m. to 12:30 p. m. The latter transmits on 31.54 meters on Wednesdays between 6 and 7:30 a. m. and on Saturdays between 6 and 8 a. m.

#### Who Can Identify?

Information about two s. w. stations which he has heard about five p. m. CST, is asked by C. R. Anderson, 1026 First St., N. E. Mason City, Iowa. One of these after playing a number shouts out "Hullo Hullo America" between 15 and 30 meters. The other, also an English-speaking station, which he picked up Sunday morning, Oct. 2, after playing some selections quoted something about 25 cents in coins. This was between 30 and 50 meters. Mr. Anderson has a de luxe Lincoln with which he says he can pick up 100 watts in Long Island or California and 250 watts in Cuba.

Replying to the inquiry by Harold Wagner, Roger Causse, radio operator of the SS Thermo, says that it is KEE at Bolinas, Calif., which relays the chain program to Coco Head for the Honolulu chain station. This is a commercial station and will not verify but they will verify when they are using the call W6XI. For Archie Ferrie, Mr. Causse states that VE3EW

*(Continued on page 31)*

ZFBI (Bermuda), EAQ (Spain) and the following with no call letters given: Rio de Janeiro, Geneva, Switzerland, Bangkok, Siam. Mr. Gates says he has received numerous ships at sea, the most thrilling being reception of a ship one Sunday afternoon that announced its location as "six hours out of Athens, Greece—I didn't get the call letters or name of the ship, but Boy, what a thrill." Mr. Gates states that for about two hours before totality during the recent eclipse, the Europeans just wouldn't come in but about one hour afterwards, they came in fine.

### On the B. C. Band

From A. E. Armstrong, 2021 Bonita Drive, Glendale, California, comes this interesting report:

Possibly you will be interested to hear of my results on the Coast. I have been DXing on the broadcast band for the last six years and on the short waves for nearly a year. My present set is a 1931 Westinghouse WR6 and a Stewart-Warner short-wave converter. My aerial is 130 ft. and I use an ordinary water-pipe ground. To date I have a log, on the broadcast band, of 394, representing 44 states in the U. S., 22 stations in Canada, 21 in Mexico, Cuba 7, N. Z. 3, P. I. 1, Hawaii, 2,

Japan 11, Formosa 1, and Manchuria 1. I have 84 stations 100 watts or less. My best catches are: WLBF, WMBH, WDZ, WGL, WSOC, WSPA, KZRM, CMCU (50 watts) and KEPL (when it was 15 watts).

### With the Converter

On the short waves, during the last eleven months, I have logged, besides the American stations, many police, and amateurs in all districts of U. S., as well as Canada, Mexico, and Hawaii, the following foreign: Canada VE9CS, VE9CL, VE9JR, VE9GW, VE9BY, VE9DR; Mexico XEW, XDA, XAM; Costa Rica TI4NRH; Colombia HKC, HKF, HKM, HKX, HKD; Venezuela YV11BMO; Ecuador PRADO; Argentina LSX; Brazil PRDA, PSH; Hawaii KHK, KRO, KEQ, KDK; Australia VK2ME, VK3ME; New Zealand ZL2ZX; Russia RV15; Japan J1AA; Indo-China F3ICD; Java PLV, PLW; England GBW, G5SW; France FYA; Italy I2RO; Spain EAQ; Germany DJA.

After almost a year's experience with the short waves I find that Australia and Eastern Asia come in consistently the year round, probably a little better in the winter months. South America comes in best in the winter. Europe comes in best in the summer. The only consistent Euro-

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# INTEREST GROWS IN SHORT WAVES

*All-Wave Sets are Helping*

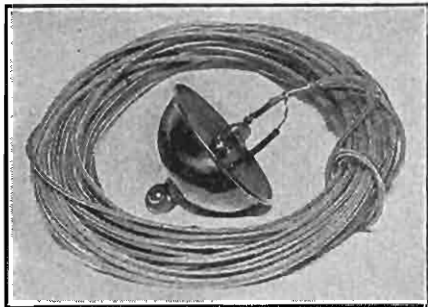
"IN ORDER to keep up with RINDEX, I am getting a new All-Wave set," is the comment that comes to us from a number of readers. These late receivers with their convenient method of switching from one band to another, are enticing many people into the short wave field. A considerable number have written that they are awaiting the report of the Editor on his new SM-728-SW before changing to all-wave sets. This report will appear in the earliest possible edition. The Editor feels that in fairness to both his readers and the manufacturers of the particular set he is using, he should become thoroughly familiar with short wave operation, before attempting to set forth the results. One can test a broadcast receiver in an hour or two but no worth-while analysis of a short wave set can be made except after a very considerable experience.

Our readers with their greater experience in this fascinating part of radio, are much more competent to comment on short wave reception. Let us let them tell their stories.

From C. Edward Gates, 514 Ivy Street, Pittsburgh, Pa., who was one of the first pianists to broadcast over KDKA when ten and twenty miles were good DX, comes the following: "Your magazine is *great*. I consider it absolutely indispensable for DXing. And the list of short wave stations is the most accurate I have seen in any publication." Mr. Gates has both a Pilot Super-Wasp and a Crosley 41-S. His log on the Crosley is slightly over the 600 mark. On the short wave receiver his log is as follows: VE9GW, VE1CO (Prince Edward Island), VE1BT, VE1BR, VE1DQ (Nova Scotia), VE1BF (Newfoundland), VE9DR, VE9CL, VE9AP, VE9BY, VE3BT, VE4AR, VE1GW, GBK, GBX, GBS, GBU, GBW, G5SW, GBF, GBP, G4BY, G4AO, GCA, LSX, LSN, LSY, LOM, LSH (Argentina), VK2ME, VK3ME (Australia), PCJ (Holland), DBJ, DGK, DJA (Germany), FYA (France), I2RO, I3RO, I1AX (Italy) HRB (Honduras), HKT, HKM, HKC (Columbia), TI4NRH (Costa Rica, VRT,

*Radio listeners will learn their fine points of football from a master as Christy Walsh, sport writer and member of the All-America Board of Football, gives his weekly broadcast over the Columbia network each Friday at 9 p. m. EST.*





*The Akaformer with Shielded Lead-in*

### The "Akaformer"

"Noiseless Reception at Last" is the enticing promise held forth by Amy, Aceves & King, Inc., of 11 West 42nd St., New York City, regarding their "AKAformer." Briefly, they say, the Akaformer is an impedance matching device which allows the use of shield lead-in wire of any length without loss of signal strength. The device is attached between the aerial wire proper and a shielded lead-in. The metal shield of the lead-in goes to the ground and the inner wire to antenna post.

### The "Rejectostatic" System

In the October issue, Jesse Lausman of Louisville, Ky., asked about the Kolster Rejectostatic system. A booklet just issued by the Kolster Radio, Inc., 67 Broad St., New York City, describes this system in detail, which it is claimed, eliminates 98% of man-made static. "Each time an electric light is switched on or off, each time a small motor starts or stops, each time a spark of any kind takes place," says this booklet, "electric waves are set up and if they reach a radio receiver direct or by way of the antenna or back through the power supply lines, they make themselves apparent by producing clicks, crashes, bangs and buzzes in the loud speaker. These noises are either intermittent or constant. A motor with a sparking commutator will produce a constant, grinding noise, a violet-ray machine a terrific mushy crackling of extreme intensity.

Street-car lines, electric trains, power lines, elevator motor circuit-breakers, dial telephones, vacuum cleaners and many other devices all help the vast background of disturbing noise known as man-made static.

"These interfering waves may reach the receiver through the power circuits by feeding back through the 110-volt connection in the base receptacle, through unshielded or improperly shielded coils or condensers, through exposed wiring, through exposed grid leads of the tubes in the set and through unshielded lead-in wires, and may also be carried into the set because of improperly located antenna."

### How it Works

Kolster engineers after long study of this problem of electrical interference, have designed the "Rejectostatic" system of transmission line antenna. Briefly the system incorporates an aerial antenna, a device called the antenna rejectostat, a receiver rejectostat and a copper braided shielded lead-in. The antenna itself may be erected 100, 200 or even 1000 feet away from the set in the best possible location as high as possible and free and clear of all obstructions and possible sources of noise. At the base of mast or building nearest the set a lead-in from the antenna runs to the device called the Antenna Rejectostat. From this device one wire goes to the nearest good ground and the other through the shielded lead-in or transmission line cable goes to the second device, the Receiver Rejectostat. This transmission line can be buried in the ground or run to the set under the eaves of the house or in any convenient way for, as stated above, the length of this cable is immaterial. In other words, the antenna system may be located in an ideal place without being governed by the location of the set. Two other wires lead from the Receiver Rejectostat to the ground and aerial posts of the set.

With the conventional type of an-  
*(Continued on page 33)*

# KEEPING UP WITH THE ENGINEERS

## • *New Developments in Radio*

IF OUR article in the September issue of this magazine gave the impression that the Midwest receiver was operated with two dials and consequently of older design, it was in error. A booklet just received from the Midwest Radio Corp., Cincinnati, Ohio, illustrates this popular set and shows it to be of the very latest in all-wave design. Among some of the distinctive Midwest features are the "Color-Lite" band selector. When the switch is turned to bring a certain band in operation, a colored light reflects on the dial to show just which band is coming in—blue for 15 to 30 meters, green for 30 to 75, red for 75 to 100 and white for 200 to 550. A "Stat-Omit" Tuning Silencer that is said to eliminate automatically all between-station noises, swishing, cracking and frying. A thermal fuse which blows instantly on short-circuit but blows on overloads only if the overload is continued long enough to endanger the apparatus. A dual-ratio tuning dial which can be shifted from fast to slow speed in an instant providing a choice of either 6 to 1 or 30 to 1. The Midwest is available in 9-, 12- and 16-tube models.

### The Sparton "Multi-Wave"

Still another of the all-wave receivers is the Sparton, manufactured by the Sparks-Withington Co., Jackson, Mich. "The Sparton Model 26-AW Multi-wave Superheterodyne receiver," says the maker, "was designed to afford the owner entree to the unlimited entertainment provided by the short-wave channels below 200 meters in addition to that obtained on the regular broadcast band, and to do this quickly and easily without the necessity of changing coils. Two separate groups of tuning controls

are employed to accomplish this simplicity of operation—the upper set is used on the broadcast band and the lower set on short waves." The Sparton emphasizes its Lafoy automatic volume control which, it is said, can be set at any point and forgotten. A station may fade or increase and yet make but slight change in the sound output of the speaker. This set has a slight hiss on either side of the center of the station and by tuning in directly on the station and keeping between the hiss, the operator knows just when he is exactly tuned in on the station. The band separation of the Sparton in meters is as follows: 11 to 19, 19 to 41, 40 to 73, 81 to 200 and 200 to 545—550 to 26,000 kilocycles.

### Uses Any Current

A single radio receiver which may be used with either a. c., d. c. or battery current is being produced by the Insuline Corp. of America, 23 Park Place, New York, N. Y. The "Universal Companion" is of the portable type weighing but sixteen pounds and may be set up instantly in the woods, on board ship, at the summer cottage or in the automobile. The change from one type of current to another is accomplished merely by inserting the plug into the proper socket. No change of tubes is necessary. Only a short antenna or ground connection is needed. A jack is provided for headphone use although the set has a built-in speaker. The tubes are two -36, three -37 and two -33. Single dial control. A set that will use any current that may be available and that is ready for use in an instant, ought to prove a boon to the real radio addict.



the rigors of the Canadian winters. Further he offered Novis, Sr., a position singing in his church. That clinched the decision and the Novis family moved to Pasadena.

Carefully coached by his father in singing, Donald progressed through Pasadena schools, entering heartily into juvenile sports. A healthy, robust youngster, his natural inclination was for athletics. While at school he became the star of the baseball nine. When he went to high school he excelled in football and basketball. By the time he reached Whittier College he had set his heart on becoming an athletic instructor. Pressed by his father, however, he studied voice culture, and learned French, German and Italian. His magnetic voice attracted wide attention and soon he was in demand for entertainments and amateur musicals.

#### Wins Atwater Kent Audition

In 1927 Donald Novis won the state Atwater Kent Radio Audition, and the next year the national \$5,000 prize as America's most promising young singer. His fame reached Hollywood, and Mack Sennett engaged him for singing roles in "The Singing Plumber," and "The Singing Boxer." He became soloist with Gus Arnheim's Cocoanut Grove Orchestra at the Ambassador Hotel, Los Angeles. From Station KFI his voice was carried over the NBC Pacific networks and he became the sensation of the coast. His importation to New York and the nation-wide NBC networks was a logical sequel.

Donald Novis is heard over the NBC-WEAF net work each Monday, Wednesday and Saturday, at 6:45 p. m. EST, and each Sunday at 7:00 p. m. EST.

Jay C. Flippen has been appearing on various stages since boyhood with a long, unlit cigar, an ungovernable mop of hair, a face smeared with burnt cork, and a repertoire of weird but interesting gestures. Now, as radio's newest comic, he has discarded all but the ungovernable mop of hair.



*Jack C. Flippen from "Arkansas"*

"Jay C. Flippen—of the Arkansas Flippens" was born at Little Rock in that state, in March, 1899, and he points with pride to the fact that he is part Chickasaw Indian. Baseball and blackface were the chief concerns of his youth, and his stage experience dates back beyond his memory of it. His mother, a frequent performer in home-town minstrel shows and amateur theatricals, took him on the stage with her for the first time when he was three. He first made up in blackface at nine and made his professional bow at a local vaudeville theatre at 14, when he was hired to substitute for a performer who was a. w. o. l.

His first time on the air came when he served as master of ceremonies at a banquet which was broadcast. He was regularly engaged as an air entertainer early in the summer as the central personality of the Goodall Palm Beach program over the Columbia network, and shortly after the close of that series was signed as an exclusive Columbia artist. He now sings, gags, and acts as master of ceremonies in "Jay C. Flippencies,"

*(Continued on page 31)*

For several seasons he was associated with the motion picture industry. At one time, he was director of newsreels for one of the large film companies and later went to Hollywood to supervise scenario writing for the same organization. Eventually, he returned to New York and resumed the labors of his first love—newspaper reporting.

Mr. Hill is married to the former Jane Gail, one-time well known film actress. He is fond of horseback riding and golf, and is exceptionally happy when he can get into the low nineties. One of the joys of his life is his bull terrier.

A prominent New York columnist once referred to him as the best dressed newspaper man in the Metropolis. His studio appearances confirm that opinion. During the winter his favorite costume is the short black coat with striped trousers. His iron grey hair gives him an especially distinguished appearance from which a black silk ribbon for his pince-nez does not detract. Though he uses a manuscript for his radio talks, he manages to retain the freshness of an ad-lib performance.

Edwin C. Hill is heard over the Columbia network at 8:00 and 11:00 p. m. EST Monday, Wednesday and Friday; 8:15 p. m. EST Tuesday, Thursday and Saturday.

#### The Shoemaker's Son

The story of Donald Novis, sensational young NBC tenor, is the story of a cobbler's son whose voice could not be denied. From the moment that he first sang in public to a group of grizzled miners and lumberjacks in Northern Ontario his career as a vocalist was ordained.

To young Donald singing was sissified. He yearned for a career as an athlete. But nature blessed him with a voice that demanded expression. In a conflict between singing and sports waged within himself, singing won.

Donald's debut was made in Chapleau, a hamlet in the wilds of upper Ontario. His father had located there as the village shoemaker after migrat-



*Donald Novis, NBC Tenor*

ing from Hastings, England, where Donald was born March 3, 1907. It was the practice of the elder Novis to conduct community sings in his humble shop on the long winter nights. The rough and ready people of that rugged country hungered for entertainment and Novis supplied it. The shoemaker had been carefully cultivating the voice of his son. One night he suddenly announced that his son Donald would favor with a song. He lifted the lad to his cobbler's bench and urged him to sing a certain song of old England which he had taught him and which he loved to hear. Unabashed, little Donald sang with fine fervor. At the conclusion of the number the audience of bearded men stamped their boots upon the rough hewn floor and shouted, demanding another song from the boy. Donald obliged and was rewarded with another noise demonstration.

Donald continued to sing with his father for the edification of their neighbors until an Episcopal clergyman chanced to visit Chapleau. He came from Southern California with stories of warm, sunny climes that appealed to the elder Novis, wearied of

# PERSONALITIES *of the* RADIO

## •“Betty” Tells their Stories

“THE Human Side of the News” is the angle from which Edwin C. Hill reviews the march of world events in his nightly talks over the Columbia network. He was born in Aurora, Indiana, and had family tradition been stronger, he would have become a schoolmaster, for his father was a county superintendent of education and his mother was a teacher.

After having graduated from the Aurora high school, Mr. Hill enrolled as a student of the University of Indiana. It was at college that he decided he wanted to join the staff of the New York Sun. He majored in English at the University and the professor used the New York paper for purposes of illustration. The small town student became interested in the metropolitan daily and determined that some day his writings would appear in it.

Upon receiving his degree, Edwin

C. Hill became a reporter for an Indianapolis paper. His inborn news sense and writing ability soon evidenced themselves. In quick succession he served editors in Fort Wayne and Cincinnati, in each case being given more and more important assignments. Eventually, he considered himself ready for metropolitan journalism. Without letters of introduction he presented himself at the desk of the New York Sun. The city editor liked the appearance of the persistent young Hoosier and gave him an assignment.

### Success as a Cub

Within four months Mr. Hill had established a record. Never before in the history of New York journalism had a cub reporter succeeded in being paid by space in less than eight months, and Hill reached this point in half that time.

For more than twenty years he has been the Sun's star reporter. His brilliant writing style has made him one of the most widely read correspondents. In two decades he has covered every leading New York murder case, most of the important criminal and civil trials and leading disasters. His especial flair for human interest material has won him a large following and his discussions of the news from this point of view have made his talks among the most popular on the air.

His news commentaries are especially interesting because of his knowledge of the personalities whose activities result in headlines. He has built up a wealth of contacts through the many important interviews he has conducted and written. There are few outstanding figures, whether in the fields of statesmanship, industry or the arts, who have gone to New York and have not received Edwin C. Hill.



*He dramatizes the news*

Rome, Paris and Chelmsford with volume sufficient to be heard a block away.

I had always heard that SW reception was very freakish and have proved this for myself. There have been times when I could not hear W1XAZ at Boston, or W2XAF at Schenectady, and at the same time England and France would be booming in. In fact, reception has been much more consistent from the DX stations, like Australia, France, England, Germany, etc., than from the short-wave relays in the United States, with the exception of W3XAL at Bound Brook, N. J. This station always comes in perfectly here on 49.18 meters. They are on 16.87 meters during the week now and I receive them only occasionally on this wave. I listened to DJB (Germany) on July 24th all afternoon and they came in here just as good as our local station in regard to volume and tone. I have never received any station coming in the way they did on that day. I could turn the volume control completely off on the Philco and the German station could be heard faintly.

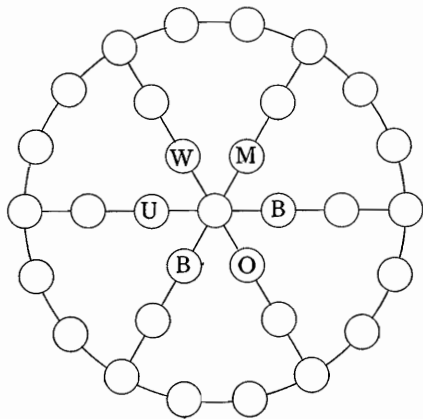
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## The PUZZLE ... CORNER

**D**ID you try that sticker in the October issue? If you didn't, try it now before you read the solution which follows. You will find that it will give your brain a good daily dozen. All through? Here's the answer:  $475 \times 398$  equals 189,050.

If you failed to solve this problem, you will be interested in the method. Seeking for some key with which to start, we note that KOA multiplied by P is KUOA. The product is therefore nearly ten times the multiplicand. Only 7, 8 or 9 may be used as a multiplier to give a prod-

uct in which the first of four figures will be the same as the first of three in the multiplicand. No combination of figures in the place of OA can be multiplied by either 7 or 8 and give OA in the product. P must therefore be 9. The only figure that may be multiplied by 9 and bring itself is 5. A is 5.  $9 \times 5$  gives 5 with 4 to carry. The letter "O"  $\times 9$  plus 4 must give "O." Only 2 and 7 may be multiplied by 9 with 4 added to bring itself. "O" must be 7, as 2 will not work out. Now restate the problem using 9 for P, 5 for A and 7 for O. Studying the problem again we find that B plus 5 equals B which obviously must be naught. We see that G plus 7 plus 5 brings a naught so G must be 8. The rest is easy.



### THIS MONTH'S PUZZLE

Guy B. Welsh and Floyd Moyer of Reynoldsville, Pa., collaborate to provide the teaser for this issue. They call it the "Wheel Puzzle." We are filling in six of the circles to make it a bit easier. The problem is to fill in six station calls along the spokes, all reading from tire to hub, and six more around the circumference reading clockwise. All calls, of course, are to have four letters and no two are from the same state or province. An excellent two a. m. exercise for DXers.

the last tube and speaker, will cause noise only in the last tube.

Transformers may be tested with a volt-meter and 45-volt B battery. Connect the meter and battery across the primary (Plate and B) of the transformer. If the circuit is good the meter will register some voltage but not the full 45. Change the test to the secondary of the transformer (A and G) and the meter should register less voltage than when on the primary. If there is a break in the wiring no voltage will register on the meter. Test also between the primary and secondary and to the metallic case. If there is a movement of the meter, there is a short-circuit and the transformer is defective. Most transformer failures are due to a break in the primary windings caused by burning out from too heavy current surges.

#### REPLACEMENT PARTS

*I have difficulty in obtaining the proper volume controls and transformers for replacements in radio sets. There are so many kinds and values that no local dealers handle such a wide variety. Where can the average experimenter and repairman obtain these parts without going to the factories?*

Many of the large radio supply houses carry rather complete lines of replacement parts—condensers, volume controls, and transformers. These concerns are advertised in various publications. For volume controls you might write to the makers of the famous Yaxley line, P. R. Mallory & Co., Indianapolis, Ind., and for transformers, to the Standard Transformer Corporation, 862 Blackhawk Street, Chicago, Ill. Both of these concerns issue catalogs of exact duplicate replacement parts for every set on the market.

#### HIS -22 TUBES BURN OUT

*I have a Scott S.G. 9 radio and would like to know whether I can use adapters of some kind in my inter-*  
(Continued on page 32)

# SHORT WAVE EXPERIENCES

By EDWARD C. HOULGATE

**I**N ACCORDANCE with ye Editor's wishes for the DXers to give some of their experiences in the short waves during the summer, I am writing this letter. I built a SW converter (two tubes) last May and have been using it with my Philco 11-tube superhet. Results have been very much better than I expected. The first DX station that I tuned in was VK3ME at Melbourne, Australia, and when I got them I almost fell over. Since first receiving them I have tried for them about fifteen times and have tuned them in every time which gives me a batting average of 1000 per cent.

My complete list of foreigners now includes G5SW at Chelmsford, England; FYA, Paris, France; GBU and GBC, Rugby, England; DJA, DJB, DIQ, Germany; I2RO Rome, Italy; LSX, Buenos Aires, Argentina; EAQ, Madrid, Spain; CT1AA, Lisbon, Portugal; VK2ME, Sydney, Australia; VK3ME, Melbourne, Australia; PRDA, PPO, Rio de Janeiro, Brazil; HKA, HKT, HKF, Columbia, and CMCI, CM5RY, Cuba. My other stations include W2XAD, W2XAF, W1XAZ, W8XK, VE9JR, VE9CL, VE9GW, VE9DR, W9XF, W1XAL, VE9BY, VE9CI, W3XL, W3XAL, W9XAA, W8XAL, W3XAU and W2XV. Also have PRADO at Rionbamba, Ecuador. All of the foreigners have been received repeatedly at loud speaker volume and most of them have been received at different times with terrific volume. England and France have been received every day for two months. The Philco is supplied with a distance switch, but I do not ordinarily use it when listening to short waves. I have used it on occasion when I have had some friends listening and have brought in

of the same depth is nearly filled with a saturated solution of borax and distilled water. Two metal plates, one of sheet lead and the other of aluminum, each containing about ten square inches, are placed vertically in the solution but separated and insulated about one-half inch apart.

The aluminum plate is connected to the positive terminal of the storage battery; the lead plate to one lead of the 110-volt a. c. supply; and a 100-watt lamp inserted in series between the other a. c. lead and the negative terminal of the battery. The charger will pass approximately one ampere per hour through the battery.

### TELEVISION ANTENNAS

*Much has been printed about antennas and ground, but nothing is said about television requirements. Are standard antennas suitable for television and short-wave work?*

Since television is a newcomer and few persons have had antenna experience, RADEX thinks it best to let the people who have had more television experience than any other organization in the world give their opinions.

The Jenkins Television Corporation has this to say: "We have found that a vertical aerial, approximately 60 feet high, to give the best results on television short-wave reception. The reason for this type of antenna is there is the least amount of fading due to the interference between sky and ground waves. A ground copper plate buried in damp earth with a heavy direct connection is the most effective ground we have yet found. It is well to put salt around this plate in the ground to be assured of the drawing and retaining of sufficient moisture for a good earth connection."

### NOISY LAST TUBE

*What could cause a crackling and scratching noise in the last tube of my 8 tube superheterodyne set? Changing tubes does not help. How can I test my transformers to tell if*



*"Sweethearts of the Air," Ben Alley and Helen Nugent, in the Charis Musical Revue, Tuesdays at 2:15 p. m. EST over Columbia*

*they are defective? I use a 6-volt "A" battery and 90 volts "B" battery.*

When a crackling noise appears in the last tube of a radio set, which is the power audio amplifier, we can look for trouble in several places. Of course, the first place to look is in the tube itself, but since you say replacing the tube makes no difference, that item can be eliminated.

The connection to the tube plate should be examined. The socket springs and contacts must be tested and made to fit good and tight. Any loose wire between the B battery and the speaker and the plate of the last tube will cause these noises. The speaker itself must be examined for loose or broken wire contacts or chattering of the parts of the cone and magnet armature drive mechanism.

Very often, in battery sets, the B battery is at fault. If a cell in the battery becomes corroded it will cut on and off and cause crackling and scratching sounds at all times regardless of volume. And this trouble, if in the part of the battery used on

# WHY GOOD SETS GO WRONG

## • • • *Answers to Troubled Users*

### BAFFLE FOR DYNAMIC SPEAKER

*I have a Temple dynamic speaker which I use as it is. But someone advised me to use it with a baffle and to get a piece of Celotex 18 inches square. How shall I prepare the Celotex and use the baffle?*

Cut a circular hole in the center of the piece of Celotex with a diameter equal to that of the opening of the cone of the speaker. Drill holes around this opening in the Celotex so the speaker can be bolted firmly in place with the bolt holes provided in the metal rim around the cone and small stove bolts. Fasten the Celotex in a vertical position to a wood base with two ordinary shelf brackets. Baffling the speaker gives it better tone and brings out the vibrations of the lower notes. It is quite necessary for good tone reproduction.

### OBSOLETE ELIMINATOR TUBES

*I have the Zenith ZE3 and ZE4 battery eliminators, one of which uses the B type and the other the BH type of tubes. I understand they are no longer manufactured and can you tell me what tube to use as substitutes?*

The type B is obsolete, but the BH is still being made. They are Raytheon tubes, and we suggest that you write the National Carbon Company, Eveready Raytheon Division, New York, N. Y., in an attempt to procure a new B tube, for which we do not believe there is a suitable substitute unless that concern has devised a method of using the BH type in place of the B.

### STORAGE BATTERY CHARGER

*Please explain how battery chargers work. How can I make an inexpensive charger for use at home?*

There are a number of battery chargers—the tube or Tungar type,

the dry-unit rectifying type, and the wet rectifying or electrolytic type. In addition are others, such as the magnetic vibrating types. It is not practicable to attempt the construction of any of these types except the electrolytic rectifier, as they can be purchased at much lower costs than they can be built.

The purpose of the charger is primarily to take an alternating current and rectify it into a steady direct current at a reduced voltage suitable for charging a storage battery. When charging from 110-volt direct current the method is simplified for it is then only necessary to reduce the voltage to a safe potential for the 6-volt storage battery.

The simplest form of battery charger for use with alternating current is the wet electrolytic rectifier. A glass container about six inches across and



Here are the "Easy Aces" fixing up the next bridge game. Monday, Wednesday and Friday, 10:15 p. m. EST on the CBS Maurice Seymour Studios

got a fish every time you threw your hook in the water. That would be business, not a sport.

#### Matching Aerial to Set

Some DXers are of the opinion after years of experimenting that every radio set must have an aerial matched to it. One ardent fan tried every length of aerial from 50 to 600 feet and found that 250 feet was the correct length for best results with his particular set and location. Receiver manufacturers usually recommend about 50 feet for present-day sets and yet the best length cannot be prescribed for any set. Only experimenting can tell the story. The aerial plays so important a part in distant reception that it is well worth the DXer's time to experiment with aeriels as to length and shape and direction.

Removing the ground entirely has often been found to double the volume, particularly on certain frequencies although sometimes the volume of other frequencies is diminished. Some sets are so built that they cannot be operated without a ground without danger of damage to the set. Usually the manufacturer of such a set gives a warning in his book of instructions against using without a ground. In a city the cold-water pipe is usually the best and certainly the most convenient ground, but sometimes other electrical apparatus are grounded to the same pipe and this tends to make it noisy. In such a case it is necessary to install a separate ground. DX clubs and magazines are constantly discussing the ground and aerial question as their members and readers try new experiments.

#### Rules of the Game

Here are some of the rules of the DX game:

Do not log a station nor ask for verifications unless you are positive in your own mind of the identification of that station.

If a station moves to a new location or a new frequency, you may count it a second time.



#### JACK BENNY AND ETHEL SHUTTA

*It will be a real disappointment to radio listeners to learn that these two popular entertainers will not be heard together after October 30th. On that date Jack Benny goes Columbia with his Canada Dry program and will be heard every Thursday at 8:15 p. m. and every Sunday at 10:00 p. m. EST.*

*Ethel Shutta will remain with her husband, George Olsen, on the NBC but neither sponsor nor time has been announced as yet.*

*Ted Weems' band will co-star with Jack on the new program.*

*Jack and Ethel have been one of the most amusing pairs radio has brought together. It is too bad to separate them.*

If a station merely changes its call letters or increases its power, the second reception does not count.

If a station uses two different sets of call letters, you may log each of them. Your RADEX shows which stations used these double and triple calls.

Stations outside the broadcast band such as police broadcasters may be logged if you hear them on your regular set.

Short-wave stations heard on harmonics of their regular frequency, such as airport stations, may be entered.



night and at an hour the station is not ordinarily on the air.

Stations as a rule will not verify reception of chain or network programs for information regarding such features is readily available to anyone and consequently they do not constitute definite proof of actual reception. Your RADEX gives a list of these chain programs with the stations broadcasting each one. It will be necessary to consult this list and avoid asking for verification of your reception of these chain programs. A few stations devote their time almost wholly to chain programs. These make special announcements or have certain local features so it will be necessary for you to watch your chance and catch these particular times for your verification.

#### Those "Anonymous" Stations

The Radio Commission rules call for the announcement of call letters every fifteen minutes as a general thing. The bane of the DXer is the station that ignores this ruling and announces its call letters only at long intervals. How the DXer hates the announcer who says "we." He is like the fellow that calls you on the phone and says, "Do you know who this is?" You'd like to swat him. Why is it that most announcers assume that everyone knows them? All over the country people are tuning them in and invariably wondering what station they have and all they hear is "We now present—" or "We will now give—" It would be just as easy, and much more courteous, to say "WXYZ now presents—" or "WXYZ now gives—" DXers everywhere would rise up and call that announcer blessed. After all, a broadcasting station must want to be known for there would be no money in conducting an anonymous station. Why, then, will they permit their programs to remain anonymous? If any announcers are reading this, I beseech them to forget this "we" stuff and use their call letters.

Assuming that you have a fairly good set, there are probably twenty

large near-by stations you can tune in practically at will, but there are a hundred others within a reasonable radius that can be brought in only with patience and very careful tuning. Radio is as temperamental as a prima donna but its very uncertainty makes it all the more fun. Some distant stations will be received when others with the same power very much closer, cannot be brought in at all. Thus, WSPD with 1000 watts in Toledo is rarely received in Cleveland, while many stations of 500 watts at a much greater distance can be brought in quite regularly. There



*Elsie Hitz, heroine of "Evening in Paris Mysteries" CBS Mondays 9:30 p. m. EST. Photo by Oggiano-Mitchell, N. Y.*

are many factors that affect radio reception—the weather, the amount of darkness, the aerial, the ground, the location of the set, the number and condition of the tubes and the skill and patience of the operator. I received a letter from one DXer a while ago who added several new stations to his list merely by moving his set from the dining-room to the kitchen. It is this idiosyncrasy of radio that makes it so intriguing. It wouldn't be much fun fishing if you

# RULES *and* REGULATIONS of DX

## • *Another Article for Beginners*

(NOTE—This is the second talk by the Editor of RADEX on the WGAR DX Club program.)

**M**OST hobbies are somewhat expensive. Rare postage stamps and old coins, for instance, cost money. The game of DXing, on the other hand, may be enjoyed fully without the expenditure of a single cent. Take your RADEX and tune in any of the 800 stations listed. When you have clearly heard the call letters of any station announced, make a check mark, or indicate the date heard, opposite that station. See how many different calls you can bring in in an hour or a night. As your log increases, see if you can fill all the 97 channels or if you can complete the roster of the states. All the time, of course, you are building up your grand total of stations received.

While a great many DXers are content with merely logging the stations received, counting only those whose calls are caught beyond all doubt, yet a great many others want their reception of each station actually verified. Most broadcasting stations are glad to verify the reception of their programs providing you will write them a letter giving them data which will enable them to know definitely that it was their program you received. Be sure to give them the hour and minute you heard them, preferably in the time of the station's standard. Give the titles of as many of the musical selections and talks as possible. Quote something from their announcement. And be sure to send return postage. Do not send U. S. postage to other countries; they cannot use it. Send pennies. At any post office you can purchase International Reply Coupons which are good for the return of one first-class

letter from any country in the Postal Union.

A great majority of the broadcasting stations will send you a souvenir stamp which is imprinted with the call letters of the station. The price is usually ten cents. DXers mount these in a scrap book and save them exactly as other collectors do postage stamps. Some DXers have a collection of several hundred of these stamps. Your RADEX shows which stations will send you these stamps and which ones will verify your reception.

From time to time, stations put on special DX programs particularly for distant listeners. A list of these appears in a monthly calendar in each issue of RADEX. Stations welcome reports of the reception of these programs as they enable them to know how far their station is reaching out. Most such programs are after mid-



Sunda Love as "Karameneh," the slave girl in "Fu Manchu" Mondays, 8:45 p. m. EST on the CBS

fant feet carried him over to Hamilton Fish Park near Pitt street, where all the local boys used to gather for skating parties. After becoming proficient skaters they determined to become dancing skaters. So at the age of fourteen George Burns and another lad teamed up and went into vaudeville.

#### Throws his Skates Away

His Irish wit went along and so fond was he of a joke that big-hearted George used to let his quips and jests fall where they might among the other actors in various houses where he played. Thereby raising their salaries but not his own. One day as he stood in the wings listening to a fellow player bring down the house with one of his own questions and answers George woke up. A quick comparison of the applause which followed the dancing skates and that which greeted the nimble wit. With rare business acumen George then and there decided to tell his own jokes.

Over in Union Hill, N. J., that night he threw his skates away. The next day he started looking for a girl to "feed" him his lines. His search began with a young dancer, Rene Arnold, who was on the same bill with George Burns and his partner, Billy Loraine, that week.

"Say, Rene," said George as he stopped at the door of her dressing room the night he decided to become a comedian instead of a dancer. "I'm looking for a girl to do an act with me. Know anybody?"

Rene was the kind of a girl who never lacks an answer.

"Of course, George, there's Gracie," she said, wiping off another inch of make-up.

"Who's Gracie?" inquired George.

"My girl friend," said Rene. "Dandy little Irish dancer, just arrived from the Coast. She's been dancing out there with Larry Reilly."

Gracie had been in town for weeks and could not find any kind of a job. Did not know where to look for one. So in due time she had forgotten the

clog and the shuffle and settled down to the sedate pace suitable for a downtown business school. There she studied the hooks and dashes of Pittman and Gregg, determined to become a stenographer instead of a second Pavlova.

That was nine years ago. Gracie has been Mrs. George Burns for six of those years.

Their first act was called "Sixty-forty." George disguised himself with a big black cigar. Gracie appeared as Gracie. At first, in his new role, George answered the questions asked by his partner. Unfortunately the audiences laughed at Gracie's questions, but not at George's answers. So the positions were reversed. And Gracie, whose innocent self-starting prattle is guiltless of brakes or clutches, became a sensation.

Since then they have told George's jokes in Gracie's inimitable fashion all over the world, on the air and off. Not long ago they were heard over station BBC in London. Last season they had completed twenty-seven weeks over WABC for the Robert Burns Panatella, which will continue to sponsor them during the new season with Guy Lombardo and his Royal Canadians. Last year they appeared also on programs for Fleischmann's Yeast and as pinch-hitters for Harry Richman.

#### Making the Movies

Their motion picture contracts have included fourteen or fifteen short subjects in each of which Gracie goes into a different line of business. Then, too, they were in "The Big Broadcast" recently made with Bing Crosby.

Gracie had been very quiet all during the interview. She was getting ready to go to the hairdresser. Of course, I could not be as informal or inquisitive as George Jessel, but I thought I would just inquire about her family.

"How's your brother, Gracie?" I ventured, as she threw a lovely white

*(Continued on page 31)*

above the sheet and the tips of two black pumps beneath it—that was all could be seen of Gracie.

George played host. An alert, clever mind is George's—one that can juggle words or rip the heart out of a joke like chain lightning. A clean-cut, good-looking light-haired young man. Studious and a tremendous worker, he is a type familiar to every campus—the student or professor—but not to many stages.

### An Irish Colleen

Gracie does not look as little as she sounds. She is taller than George's shoulder. If anyone asked me to describe the colleen of that old and popular tune, "I'll Take You Back, Kathleen," I would point out Gracie Allen. A perfect type of Irish beauty—black hair, white skin and long-lashed blue eyes. She weighs ninety-five pounds. Occasionally the scale slips around to one hundred and one. This is the only circumstance ever known to have hurried Gracie's speech. When it occurs she wrings her hands and moans she is getting "fat."

"Do you write all of these clever things," I asked George Burns. I did not expect him to admit it for he is a surprisingly modest young man.

"No," he said, "there are three of us working at it. Eugene Conrad, Al Boazberg and myself. You know it takes an enormous amount of humor to keep two people busy every day in the year and sometimes for four or five shows a day. So the boys send in anything that they think would be suited to the act and I work their ideas and my own into shape with Gracie."

If you think that telling a joke is the simplest form of art you are wrong. The telling and wording of these rippling laughs that come to you from your receiving set are the result of long and careful rehearsal. Sometimes the changing of a single word will spell the difference between a riot and a flat failure. So these two laugh-makers go over their price-



"Meyer, the Buyer" (Ted Bergman), whose domestic and financial troubles are "aired" each Saturday at 7:30 p. m. EST over the CBS

less lines a hundred times in the dressing room, at home, on the street or in the studio before such witticisms fall on your ears.

"My life," George admitted as he removed some Highland finery, "is made up of just two things. First, trying to make people laugh when I am on the radio. Second, trying to find the jokes to make people laugh when I get on the radio."

"And how about Gracie's part," I asked.

"Gracie is just Gracie," he answered. "She was the first to play that sort of a part, because when she went on with me for the first time I told her to act natural. Pretty soon everybody was copying her. And I suppose that type was a relief after the wise-cracking collegiates of a short time back."

"Tell me the story of Burns and Allen," I said.

It seems that George, who was born on the East Side in New York, went into a soft-shoe breakdown the first time he fell out of his cradle. A born dancer. Later his nimble in-

# MOST LOVABLE DUMBBELL IN RADIO • • *Susie Sexton Meets Gracie*

HOW does it feel to be the biggest dope in the world?" George Jessel inquired of Gracie Allen.

"You flatterer," giggled Gracie most original of comediennees in that disarming tone which is the despair of conversationalists but the delight of thousands of her radio listeners.

Brainlessness as a fine art has made fame and fortune for Gracie Allen. And in this year of Gracie and the Olympics it might be well to mention that Miss Allen holds all the women's international championships for dizzy characters—altitude distance and endurance. She has hurled more quips from London to Hollywood with less time and effort than any other "dumbcracker" of her sex. Gracie is head "ache" to her husband and partner, George Burns, on the Robert Burns Panatella program every Wednesday night at nine o'clock over the Columbia Broadcasting System.

The perfect foil for her artful artlessness is the scintillating, sparkling wit of George himself. A combination of their gifts results in one of the cleverest and more original acts heard in years.

Tuning in on Burns and Allen on Wednesday night between selections by Guy Lombardo and his Royal Canadians you picture garrulous Gracie as a tiny, harmless mite and George as a big gruff with a hoarse voice and testy manner.

George will say—

"Gracie, why don't you join a circus and walk a tight-rope five hundred feet above the audience without a rope?"

"What if I fall?" asks Gracie.

"Don't let that bother you," retorts George.

Later on, George, completely ex-

asperated, remarks:

"If you had a date with me tomorrow night at 8:30 and you didn't show up—it certainly would be all right with me."

"I'll bet you tell that to all the girls you meet," is Gracie's comeback.

This is the patter before the microphone or back of the footlights. George, harsh and terribly annoyed with Gracie, just a poor little girl who doesn't know any better. But if you meet these two charming and gifted young people away from stage or studio you get a different picture. They had just finished their act with Norma Talmadge and George Jessel at the second show when I met them in their dressing room at the Paramount Theatre. Both wore Scottish kilts—having just finished a Jewish dance—not a cool costume for a sweltering August afternoon. It did not take them long to get rid of the make-up.

The dressing-room door was open for a breath of air so Gracie disappeared behind a long white sheet drawn from wall to wall. Black curls



*Gracie Allen and George Burns*

immense copper conductors, the more flexible alternating current is used to reach far out from the central d. c. districts. A small wire is capable of carrying a heavy alternating current which may then be stepped down to 110 volts as required, although hundreds of miles distant from the original source of power. This is the sole reason why the restricted central districts in our older cities are always surrounded by extensive a. c. areas.

#### Needs No Rectifier

The d. c. radio receiver is a duplicate of some a. c. set, except that different types of tubes are used with plate potentials not in excess of 110 volts. While a d. c. receiver has no power transformer; it requires the usual arrangement of choke coils and filter condensers to smooth out the noise of the commutator ripple of the d. c. generators. No rectifying tube is needed, and the newer types of tubes, such as the -36, -37, -38, -39, 41 and 55, are used in most d. c. receivers. And in many cases an a. c. receiver can be easily altered so that it will operate satisfactorily on direct current.

A survey of modern radio receivers reveals an astonishing paucity of 110-volt d. c. sets. Only a few manufacturers are making d. c. models that are comparable to the better a. c. superheterodyne receivers. More battery sets are being offered than are furnished for d. c. operation on 110 volts, for most builders feel that the demand for d. c. sets is rather limited and will not justify the cost of construction and marketing. Yet, in 1932, we find a few of the leading makers coming out with efficient d. c. receivers, and it may be the trend is on the turn for the relief of downtown dwellers.

#### Using a Converter

Some manufacturers would rather rebuild their standard a. c. sets for d. c. operation when needed. In many cases rotary converters (a small d. c. motor driving an a. c. generator) are used to provide the necessary alter-



*The Crosley "Senator" 110-volt D. C. Console Receiver*

nating current. The Janette Converter is a small, compact device made for a. c. sets that are to be used in d. c. areas. This is common practice in radio stores and shops where a large number of a. c. sets are demonstrated. And, when the concentrated consumption of alternating current justifies the effort, most power companies will run separate a. c. circuits into the downtown d. c. districts.

Philco's model 47 is the newest 110-volt d. c. superheterodyne receiver. It uses two Philco 44 tubes, one -36, three -37s, and two 43s. The latter is designed especially for d. c. operation and will afford adequate power to run the twin speakers of the larger types. The set is available also in several of the Philco

*(Continued on page 32)*

# RADIO'S "FORGOTTEN MAN"

## *Relief Coming In D. C. Receivers*

**T**HE current political campaign has made frequent mention of the "forgotten man," a victim of present economic conditions. But he is not radio's forgotten man, the unfortunate victim of environment, who may be found in any "downtown" district where direct current only is provided by the electric light and power companies.

It seems that most radio manufacturers have failed generally to remember the user of 110-volt direct current. Perhaps, before long, with a sudden desire for new business in this neglected field rather than a belated feeling of remorse, set builders will rush to the rescue of radio's forgotten man. There is no good reason why more d. c. receivers are not available to the thousands of persons who live in direct current areas in every large city.

Radio enthusiasts, who are compelled to use the direct current provided commercially in metropolitan areas, by individual power plants, or on board many ships of the world, are demanding radio receivers which are equal to those made exclusively for alternating current. The resident in a downtown area has very few 110-volt d. c. radio receivers available, but his neighbor just across the restricting boundary in an a. c. district has the cream of a. c. instruments to choose from.

### **Special Tubes Needed**

Receivers made for alternating current cannot be operated on the direct current that is furnished to mid-town areas in practically every large American city. A d. c. receiver is little more than a battery set except that it uses a potential of 110 volts from the lighting current. It is designed for direct current and uses tubes that do not require an excess of 110 volts on the plates. Until re-

cently, the lack of good d. c. tubes—screen-grid, variable-mu, and pentode—has held down the full development of d. c. receivers, but it is hoped that the near future should show a decided trend toward this forgotten field.

Many persons will ask, then, why should a city be divided into two electrical districts—the downtown d. c. area, and the outlying and extensive a. c. regions.

### **Why a D. C. Area?**

In the pioneer days of electricity the first generators were Edison d. c. dynamos, and power lines were short in length and restricted to the downtown areas. Mechanical and electrical equipment installed in buildings and factories was, therefore, only for direct current operation. But with the coming of alternating current, a more useful and economical system, the large and concentrated development in the heart of most cities made it impracticable and an unnecessary burden on electric consumers to make sweeping changes over to alternating current.

Since direct current cannot be transmitted more than a few miles at best without serious loss of voltage, and because of the prohibitive cost of



*The Coming RCA-Victor*

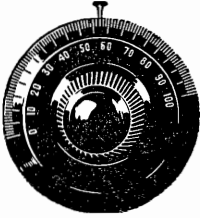
NOVEMBER 1, 1932

# RADIO IN DEX

Reg. U. S. Patent Office

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Editor and Publisher



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NINTH YEAR

NUMBER 63

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On the NBC-WEAF Network, Fridays 8 to 9 p. m. EST.

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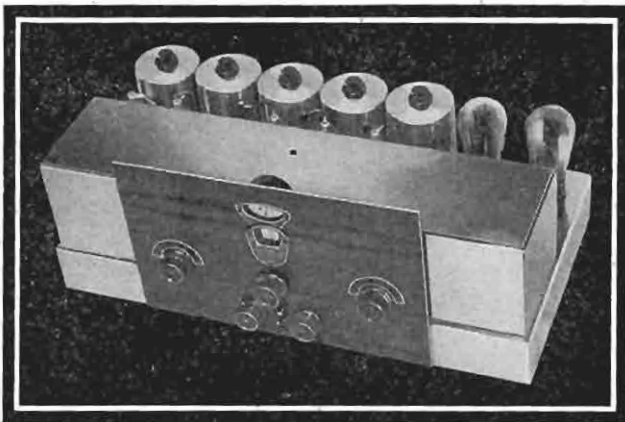
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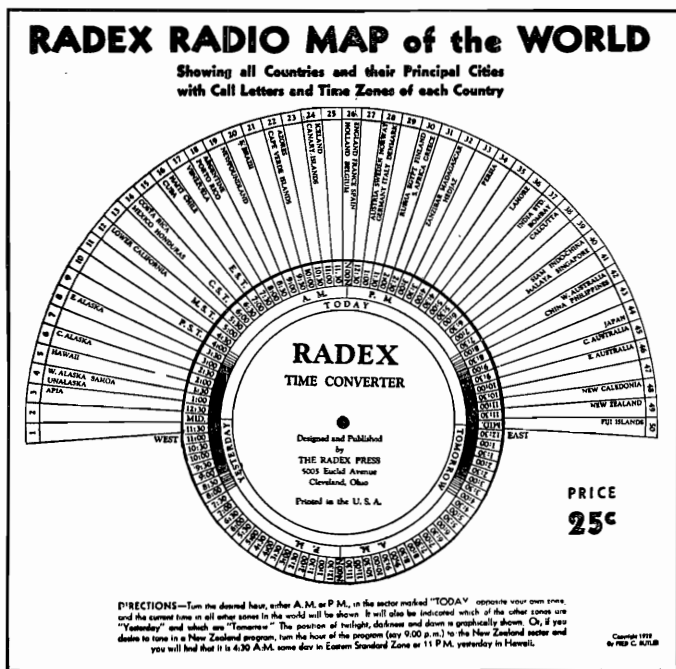
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On the back is a list of all countries in the world with the call letters assigned to each and zone key for use on the Converter.

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## THE RADEX PRESS, INC.

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CLEVELAND, OHIO, U. S. A.



*Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am certainly rolling in the money now. Maybe my story will show you the way to larger earnings also.*

# I Thought Radio Was a Plaything

## But Now My Eyes Are Opened, and I'm Making Over \$75.00 a Week!

\$50 a week! Man alive, a year ago I thought anyone making that much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that twelve months later I would be making \$75 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees a half a mile long to make good money.

One day I picked up a magazine and the headline of an ad attracted me because it seemed to fit my case. It said, "I will show you how to start a spare time or full time Radio business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it is all about anyway."

I wrote in and within a few days received a 64-page book telling about the opportunities in Radio, how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets. It would probably have sounded too good to be true if the promises had not been backed up by 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream to me now. I took their course and in about a month I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$75 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines—in case I wasn't interested in having my own business. Broadcasting stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aircraft Radio, Television and Talking Movies

are other fields their training covers. And to think, until the day I wrote for that book, I'd been waiting, "I have never had a chance—will never have one because I have no pull and have never had the advantage of a good education!"

Friend—you may not be as bad off as I was—but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book. It won't cost you anything—only a three-cent stamp. It shows you a lot of things which I don't believe you know now—a lot of facts and figures on the opportunities in this new, fast-growing field. Where the jobs are, what they pay, how to get ready for one. Beginners as well as experienced men are making as much as \$1,000 to \$2,000 a year more as a result of N. R. I. training. You place yourself under no obligation because the book is free and is gladly sent to anyone who is ambitious and wants to get ahead. Just address J. E. Smith, President National Radio Institute, Dept. 2MO, Washington, D. C.

J. E. Smith, President,  
National Radio Institute,  
Dept. 2MO, Washington, D. C.

Dear Mr. Smith; Send me your free book, "Rich Rewards in Radio," which points out the opportunities for spare time and full time jobs in Radio and your famous 50-50 method of training men to become Radio Experts through home study. I understand this request places me under no obligation.

Name .....

Address .....

City..... State.....