

1938

Grunow

RADIO LOG

REV 56 1937

Two globes are shown, one in front of the other, with a red ribbon wrapped around them. The ribbon has white stripes at its ends. The top globe shows the Americas, and the bottom globe shows Europe and Africa.

ALL THE WORLD..

And ALL THE TONE!

REGARDING YOUR NEW RADIO

The modern radio receivers of today are far advanced over their predecessors of a few years ago. They are far more sensitive — they are keyed up for greater distance and range. They require more careful operation if one would secure the greatest amount of pleasure from their ownership. Read carefully and understand everything printed on these pages — it will aid you in the operation of your set.

Since the modern receiver is built to bring in greater distance over the entire Radio Spectrum, it is possible that its sensitivity may be misinterpreted by the new owner, due to the fact that static interference seems more noticeable until you become used to its operation. Do not let this disturb you — but spend a few evenings tuning your set and adjusting its controls until you have become thoroughly familiar with its operation.

Man-made static, such as street cars, motors of all kinds, elevators, washing machines, vacuum cleaners, sewing machines or any appliance, often cause interference, and if you experience trouble due to "noisy reception" it is wise to make a careful check of all appliances in use nearby.

STANDARD BAND TUNING

The following data will help you to operate the radio dial more easily, and help you to GET OUT of the receiver the full radio enjoyment BUILT INTO it at the factory.

THE RADIO SPECTRUM shows the general classification of services to which broadcasting facilities are assigned. Identities of stations in the Broadcast Band "B" appear on the next four pages. Geographical divisions group the stations most likely heard in your community whether on the west coast, central area, or east coast. Enter your exact dial readings for these stations in the blank center column. Fill in the rest of the blank spaces for stations you pick up at intermediate points. Stations with power of T, U, V, W and Z can generally be heard from coast to coast at night, frequently more clearly than stations nearer to you with lower power. Those with H, K, M and O power on same kilocycle with super-power stations operate only in daylight hours.

KILOCYCLES BECOME MEGACYCLES

Note that the spectrum, your log and your dial use a decimal instead of a comma below 1600 and 1650 Kilocycles becomes 1.65 Megacycles.

SHORT WAVE

"V" indicates short wave channels offering Voice entertainment. They are listed on pages 10 to 13. Time of operation is of greatest importance. By ruling out FOUR rows of hour figures on page 10 the chart is converted to your receiving time. The two symbols between each hour line represent one half hour. Pointed up, morning is indicated; down for afternoon. Follow the column for time you are tuning, if station is shown to be operating; to the left you can see whether the program is "daily"; "W & Sat"; or on what schedule. If all three figures of the megacycle number are bold, the reception of the program should be good. If only one is bold, it is likely to be only fair.

Spots in the spectrum marked "A" are used by some 30,000 amateurs. "C" for Aircraft. "p" for Municipal Police Broadcasts, "S" Ships, "T" Television, "W" for Government Weather and Air Beacon Stations. And on those not marked will be heard phone and commercial stations, etc. mostly in code.

European and other foreign short wave stations operate *only a portion of the time*. Consult the schedule for days and hours.

SHORT WAVE TUNING TIPS

Turn the dial pointer to the approximate setting required. Increase your volume. If your set has tone control turn it to low pitch if atmospheric conditions are noisy. Now tune with extreme care, slowly and evenly. When you locate a station move your tuning knob back and forth until you are satisfied it is the exact point. Re-adjust volume and tone control to suit you. Enter your dial reading for each station. It will be useful for getting the station again and become a reference point for locating stations at adjacent frequencies. Foreign stations sometimes vary slightly from their assigned megacycle and the number you may have recorded.

With slow, careful tuning, faint signals can frequently be developed to great strength. Simply because a station is broadcasting at a given time, do not blame your radio if you are unable to get it. Remember, there are many forces over which man has no control which prevent you from getting reception at times—skip distances—storms—directional antennas of stations, etc.

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100 H	150 I	200 J	250 K	300 L	500 M	750 N	1000 O	1500 P	2000 Q	WATTS CODE	POWER R	2500 S	5000 T	10000 U	15000 V	25000 W	50000 X	100,000 Y	250,000 Z	500,000																																							
WESTERN										MIDDLE WESTERN										KILO										Dial No.										CENTRAL										EASTERN									
WJAG Norfolk, Nebr. O										†KTHS Hot Springs, Ark. . . . T										106o																				XEA Guadalajara, Mex. M										†WBAL Baltimore, Md. . . . T									
KJBS San Francisco, Cal. . . M										WCAZ Carthage, Ill. H										107o																				†WTAM Cleveland, Ohio. W																			
XEAQ Tia Junna, Mex. O										*KMOX St. Louis, Mo. W										108o																				WMBI Chicago, Ill. (WCBD) S										*WBT Charlotte, N. C. . . . W									
CRCV Vancouver, B. C. . . . S										*KWKH Shreveport, La. . . . T										109o																																							
*KQDM Stockton, Cal. O										KSOO Sioux Falls, S. D. . . . R										110o																				XELO Piedras Negras, Mex. W										†WRVA Richmond, Va. . . . S									
KFID Spok'o, Wash. (KRSC)H										WTAW College Station, Tex M										112o																				*WISN Milwaukee, Wis. K										†WCOP Boston, Mass. M									
*KSL Salt Lake City, Utah. W																				113o																				WJBO Baton Rouge, La. . . . M										WDEL Wilmington, Del. . . . K									
										†KVOO Tulsa, Okla. V										114o																				WJJD Chicago, Ill. U										WTV New York City. O									
										XEH Monterey, Mex. K										115o																				†WAPI Birmingham, Ala. . . S										*WSPR Springfield, Mass. . . M									
										XED Guadalajara, Mex. . . . M										116o																				†WOWO Ft. Wayne, Ind. . . . T										†WHAM Rochester, N. Y. . . W									
†KEX Portland, Ore. S										WDGY Minneapolis, Minn. . . O										117o																														*†WWVA Wheeling, W. Va. S									
KOB Albuquerque, N. M. . . . T										†WAOI San Antonio, Tex. W										118o																				WMAZ Macon, Ga. O										WINS New York City. O									
KTKC Visalia, Cal. K										KBTM-RGPH-RFXD-RGEK										119o																				WSAZ Huntington, W. Va. . . O										WATR Waterbury, Conn. . . H									
KSUN-KGFJ-KVCV-KVEC										KFJB-KMLE-WEND-WJBW										120o																				WBHP-WJRD-WJBC-WJBL										†WHT-WJNO-WRBL-WAXX									
†KWG-KFXD-KONC-KOOS										KWNO-KGDE-KATE-WL										120o																				WVAE-WFAM-WMPC-WHBC										WABI-WIXX-WMFR-WKBS									
KVOS-KELO										*KADA-WBBZ-WCAT-WDSM										120o																				WCPD-WHBY-WCLO										WFTC-WEST-WKBO-WNRS									
*KDON-KPPC-KROY-KFXM										KFPW-WHFR-HGLO-KIUL										121o																				WJBY-WCRW-WEBC-WBSC										WFOY-WPAX-WJEJ-WBRB									
KPPA-KLAH-KFJI-KGY										KANS-WMFG-WMFR-WGCM										121o																				WEDQ-WTAX-WBDU-WJRI										WJNY-WGNY-WGBB-WJTN									
										KFVS-KFOR-KDLR-KVSO										121o																				WJW-WCDL-WGLY-WALR										WVAY-WFVS-WSDC-WKOK									
										*KASA-KWTN-KOCA-WIBU										121o																				WSIX-WOMT										WBAJ-WBBL-WRRG									
KTW Seattle. . . (KWSC) . . . O										†WREN-KFKU Kansas City O										122c																				*WDAE Tampa, Fla. O										†WCAE Pittsburgh (WCAD) O									
CJOC Lethbridge, Alta. . . . H										†KGBX Springfield, Mo. . . . M										123c																				*WFBM Indianapolis, Ind. . . O										†WNAC Boston, Mass. O									
KYA San Francisco, Cal. . . . O										KCGM Albuquerque, N. M. . . M										123c																				†WXY Detroit, Mich. O										†WOL Washington, D. C. . . . O									
KCGU Mandan No. Dakota K										KLPN Minot, N. D. K										124o																				†WDSU New Orleans, La. . . . O										†WJAS Pittsburgh, Pa. O									
KTFI Twin Falls, Idaho. . . M										*KAT Ft. Worth, Tex. K										124o																				WASH, WOOD (Gr. Rpdns. M)										†WNEW New York (WHBI) O									
KIT Yakima, Wash. K										WLB-TWGN Minneapolis M										125o																				†WJAX Jacksonville, Fla. . . . O										†WAIR Winston-Salem, N. C. K									
KFOX Long Beach, Cal. . . . O										WAL Northfield Minn. . . . O										125o																				*WJOD Dayton, O. O										WNBX Springfield, Vt. M									
*KQVO Missoula, Mont. . . . O										†KCOIL Omaha, Neb. O										126o																				*WJTO Savannah, Ga. O																			
KVOA Tucson, Arizona . . . O										KWPC Port Arthur (KRGV) V										126o																				†WASH, WOOD (Gr. Rpdns. M)																			
KHSI Chico, Cal. K										*KWLC-KGCA Decorah, Ia H										127o																				†WJDX Jackson, Miss. O																			
*KOL Seattle, Wash. O										*KFOR Colo. Springs, Colo. . O										127o																				*WDOB Chattanooga, Tenn. O																			
KQBB Great Falls, Mont. . . O										†WIBA Madison, Wis. O										128o																																							
KLS Oakland, Cal. K										†WEEC Duluth, Minn. O										129o																																							
†KDYL Salt Lake City. . . . O										*KTRH Houston, Tex. K										130o																				†WFCB (Greenville S.C.) O										†WJBC Baltimore, Md. M									
KALE Portland, Ore. M										†WFLB Sacramento, Wis. . . . M										130o																				†WIOD-WMBF Miami, Fla. O										†WJBC Worcester, Mass. . . . M									
KFAC Los Angeles, Cal. . . . O										*KFM Wichita, Kas. O										130o																				WCLS-WTRC-WLBC-WBOW										†WNL San Juan, P. R. . . . M									
										WSGN-KCRN-KVOL-KRMD										131o																				WCRN-WFDW-WDFB-WEXL										†WVZ New York, N. Y. O									
										KVOX-KROC-WAML-KWOS										131o																				WJIS-WRDL-WEMP-WGH										†WOL-WLAK-WTAL-WNBH									
										KPDN-KRRV-KFXR-KAND										131o																				*WADC Akron, Ohio. O										†WLNH-WMBO-WBR-WMFF									
										KFLP-KTSM-WDAH-KFYO										131o																				*WSMB New Orleans, La. . . O										†WSJS-WFBG-WSAJ-WJAC									
										*KRNT Des Moines, Iowa. . . M										132o																				WATQ Green Bay, Wis. . . . O										†WAT-WTEL-WRAW-WBRE									
										†KGMF Pueblo, Colo. M										132o																				*WSPD Toledo, Ohio. O										†WDRK Hartford, Conn. . . . O									
										*KSCJ Shreveport, La. . . . K										133o																				†WMBG Richmond, Va. M										*WFEA Manchester N.H. M									
										KCRD Huron, S. D. K										134o																				WGES Chicago, Ill. M										†WCOA Pensacola, Fla. . . . O									
										KGN0 Dodge City, Kas. . . . K										134o																				†WSTT South Bend, Ind. . . . M										†WBNX New York (WAWZ) K									
KIDO Boise, Idaho. O										†KWK St. Louis, Mo. O										135o																				WVFO-WAGF-WDWS-WEQA										†WFL Syracuse, N. Y. O									
KGER Long Beach, Cal. . . . O										*KCRK Enid, Okla. K										136o																				WGL-WGRG-WHDF-WBIM										†WCS Charleston, S. C. . . . M									
										WQBC Vicksburg, Miss. . . . O										136o																				WPAJ-WHBY-WBWB-WBWA										†WMBR-WATL-WRDO-WCBM									
										KLLD-ROND-KYEM-KFGG										137o																				WPMK Dayton, Ohio. J										†WLLM-WBYJ-WGPC-WAGH									
										*WOC-KVGB-WMIN-WHLS										137o																				†WALA Mobile Ala. M										†WMMAS-WBR-WED-WLEU									
										WFOR-KCMA-KTKK-KFJZ										137o																				*WHK Cleveland, Ohio. . . . O										WAZL-WMBS-WPRP-WCHV									
										KLFU-KFRO-KMAC										137o																				†WIRE Indianapolis, Ind. . . O										†WHEC Rochester (WOKD) M									
*KOH Reno, Nev. M										WKBH La Crosse, Wis. . . . O										138o																				†WVIR-TV New York, N. Y. . . O										†WHP Harrisburg, Pa. M									
KRLC Lewiston, Ida. . . . K										*KLR Little Rock, Ark. . . . O										139o																				†WVIR-TV New York, N. Y. . . O										†WCBW Buffalo, N. Y. . . . S									
*KOY Phoenix, Ariz. O										†KTUL Tulsa Okla. M										140o																				†WVIR-TV New York, N. Y. . . O																			
†KLO Ogden, Utah (KHBC) M										KFM Grand Forks, N. D. . . M										141o																				†WVIR-TV New York, N. Y. . . O																			
KMED Medford, Ore. K										WROK Rockford, Ill. M										141o																				†WVIR-TV New York, N. Y. . . O																			
†KGN Amarillo, Tex. O										*KCMC-KALB-WJBO-WMBH										142o																				†WVIR-TV New York, N. Y. . . O																			
										KGFJ-KABR-KRBC-KNET										142o																				†WVIR-TV New York, N. Y. . . O																			
										KIUN-KABC-WACO-KFJZ										142o																				†WVIR-TV New York, N. Y. . . O																			
KUMA-KGGC-KRLC-KORE										†KSO Des Moines, Ia. K										143o																				†WVIR-TV New York, N. Y. . . O																			
KBPS-KXL-KEUB-KGIW										KGNF No. Platte, Neb. . . . M										144o																				†WVIR-TV New York, N. Y. . . O																			
KIDW-KWBG-KRLH										*WMBD Peoria, Ill. M										144o																				†WVIR-TV New York, N. Y. . . O																			
†KECA Los Angeles, Cal. . . O										KXYZ Houston, Tex. O										145o																				†WVIR-TV New York, N. Y. . . O																			
KDFN Casper, Wyo. M										†KTHS Shreveport, La. T										146o																				†WVIR-TV New York, N. Y. . . O																			
KIEM Eureka, Cal. M										†KSTP St. Paul-Minn polls. T										146o																				†WVIR-TV New York, N. Y. . . O																			
KGCX Wolf Point, Mont. . . O																				147o																				†WVIR-TV New York, N. Y. . . O																			
Spokane, Wash.										*KOMA Oklahoma City. OkS										148o																				†WVIR-TV New York, N. Y. . . O																			
																				149o																				†WVIR-TV New York, N. Y. . . O																			
†KFBK Sacramento, Cal. . . . S										KOTN-WKBB-WTMV-KSJS										150o																				†WVIR-TV New York, N. Y. . . O																			
										KPLC-KDAL-KGKY-KBIX										150o																				†WVIR-TV New York, N. Y. . . O																			
										KKNW-KBET-KNEL-KXFI										150o																				†WVIR-TV New York, N. Y. . . O																			
										KROD-KPLT-KGKB-KGFI										150o																				†WVIR-TV New York, N. Y. . . O																			
										KXBY Kansas City, Mo. . . . O										153o																				†WVIR-TV New York, N. Y. . . O																			
																				155o																				†WVIR-TV New York, N. Y. . . O																			
*KPMC Bakersfield, Cal. . . . O																				155o																				†WVIR-TV New York, N. Y. . . O																			

For quick reference and the convenience of your family and friends, circle or mark the call letters of LOCAL stations.

Grunow

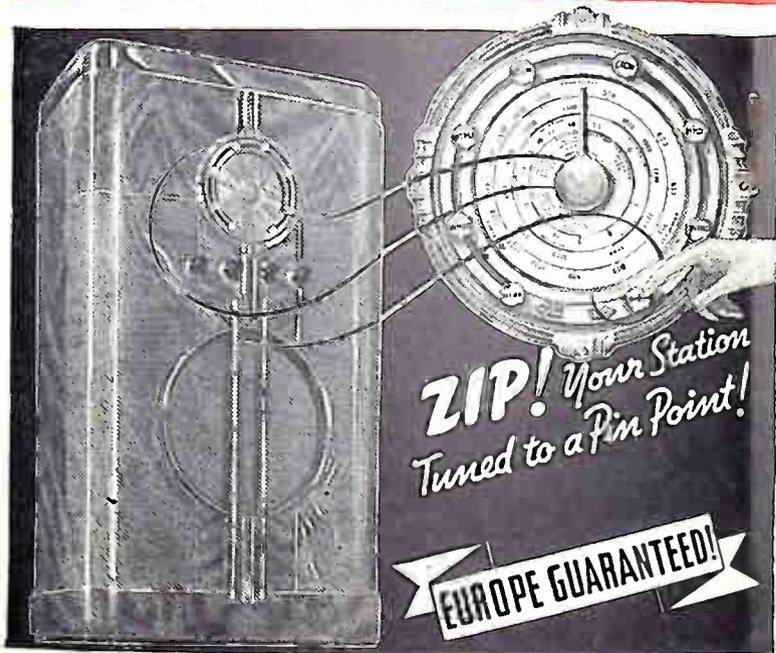
FOR 1938

HALVES

THE
PRICE
OF

TELEDIAL

AUTOMATIC TUNING



*ZIP! Your Station
Tuned to a Pin Point!*

EUROPE GUARANTEED!

GRUNOW CONSOLE... Model No. 589

Here is *true* automatic tuning of the most modern type at half the usual price!... Actually tunes 10 stations in 10 seconds! A powerful set, with hair-line precision selectivity... A.C.; 5 tubes; large 10 station "Teledial" automatic tuning; indirectly lighted calibrated dial; 2 wave bands... 550-1750 K.C.; 5500-18,000 K.C. Includes American, foreign, police, amateur and aviation reception; 8" dynamic speaker; automatic volume control. Banjo type cabinet of straight, stump, striped, mottled and rotary grain walnut.

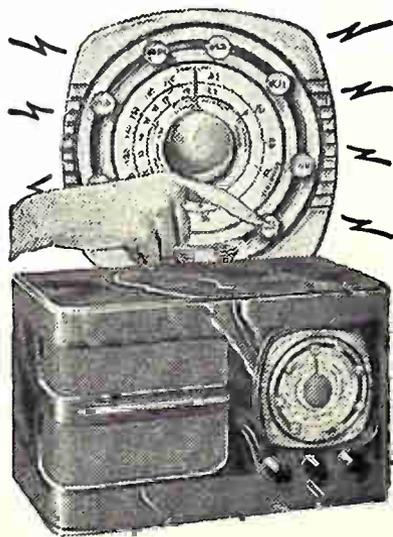
TELEDIAL TUNING SETS
ARE AVAILABLE WITH
8, 10 AND 16 STA-
TION BUTTONS.

GRUNOW TABLE MODEL... No. 588

For the first time... "Teledial" automatic tuning on a table set! Tunes 8 stations in 8 seconds... AUTOMATICALLY! A highly sensitive set with pin point tuning accuracy. A.C.; 5 tubes; 8 station "Teledial" automatic tuning; indirectly lighted calibrated dial; 8" dynamic speaker; 2 wave bands, 550-1720 K.C.; 2200-6700 K.C. Includes American, foreign, police, amateur and aviation broadcasts; automatic volume control. Cabinet of pin stripe, stump and straight grain walnut.

RECEPTION OF ANY
RADIO IS IMPROVED
WITH THE GRUNOW
DOUBLET ANTENNA.

YES! Famous "Teledial" automatic tuning is now within reach of everyone!... Imagine! A big beautiful Console, that tunes 10 stations perfectly in 10 seconds... AUTOMATICALLY... plus guaranteed European reception for only \$54.95!... Just think of being able to tune in 8 stations in 8 seconds for the FIRST TIME on a Table Set... yet this amazingly powerful radio costs only \$36.95!... No wonder everyone calls GRUNOW for 1938 the greatest radio value of the year!... So... why be satisfied with less performance than GRUNOW gives, now that prices are so low? See... hear... the amazing GRUNOW for 1938... TODAY! Find out first hand how GRUNOW has brought radio enjoyment to an all-time high!... 17 outstanding models with Foreign Station reception and "Teledial" at prices from \$36.95 up... You can buy a new GRUNOW for 1938 on convenient time payments from your GRUNOW dealer. Ask him about it!...



EUROPE GUARANTEED

If you live in Central Time Zone, rule out the other FOUR rows of hour figures. Copy those for your zone for same lines on next pages. Follow column for hour you tune. If symbol appears glance left to learn days station operates. See if three digits in megacycle number are heavy black, denoting it is generally being heard well. Two, one, or none black require comparative care. "A" at left marks Amateurs, "S" Ships, "C" airCraFt.

AM- A	PM- v	Both- d	F	D	S	T	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
			Eastern(CD)	11	12	1	2	3	4	5	6	7	8	9	10	11	12														
			Central	11	12	1	2	3	4	5	6	7	8	9	10	11	12														
			Mountain	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12													
			Pacific	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												

NOTES

Mag.	Call	Place	When	Mtrs.	1	2	3	4	5	6	7	8	9	10	11	12
4.79	HJ2ABC	Cucuta, Col.	ex.Su.	62.60												
5.74	TGS	GuatemalaCy.	W.Th.&Su.	52.26												
5.76	YNOP	Managua,Nic.	ex.Su.	52.08												
5.78	OAX4D	Lima, Peru	W&Sat	51.90												
5.80	YV5RC	Caracas,Venez.	Daily	51.72												
5.83	TIGPH	SanJose,C.R.	ex.Su.	51.46												
5.85	YV1RB	Maracaibo,Ven.	ex.Su.	51.28												
5.87	HRN	Tegucigalpa,Hon.	Daily	51.11												
5.90	TILS	San Jose, R.D.	ex.Su.	50.80												
5.90	YV3RA	Barquisimeto,Ven.	ex.Su.	50.80												
5.92	YV4RH	Valencia,Ven.	ex.Su.	50.70												
5.93	HH2S	Port-au-Pr., Haiti	ex. Su.	50.63												
5.94	TG2X	Guatemala City	MWSa	50.51												
5.95	IJN	Bogota, Col.	ex. Su.	50.42												
5.97	HJ4ABD	Medellin,Col.	ex.Su.	50.25												
6.00	XEBT	Mexico City	Daily	49.97	▲▲	▲▲										
6.00	HP5K	Colon, Panama	ex.Su.	49.96												
6.01	COCO	Havana,Cuba	Daily	49.92												
6.01	HJ3ABH	Bogota, Col.	ex.Su.	49.92												
6.02	DJC	Berlin, Ger.	Daily	49.83												
6.03	HP5B	Panama City	Daily	49.75												
6.03	HJ4ABP	Medellin.Col.	ex.Su.	49.73												
6.04	W1XAL	Boston,Mass.	M&F	49.67												
6.04	HJ1ABG	Barranquilla,Col.	ex.Su.	49.62												
6.05	HJ3ABD	Bogota,Col.	ex.Su.	44.59												
6.06	W8XAL	Cincinnati	Daily	49.50	◆◆	◆◆										
6.06	W3XAU	Philadelphia	Daily	49.50												
6.07	CFRX	Toronto, Ont.	Daily	49.41												

6.08	W9XAA	Chicago	MW&Sa	49.34												
6.10	W9XF	Chicago	TTF&Sn	49.18	▲▲	▲▲										
6.10	W3XAL	Boundbr'k,N.J.	Daily	49.18												
6.11	HJ4ABB	Manizales,Col.	ex.Su	49.08												
6.11	HJ1ABB	Barranquilla,Col.	ex.Su	49.03												
6.13	VE9HX	Halifax, N. S.	Daily	48.92												
6.13	COCD	Havana,Cuba	Daily	48.92												
6.14	W8XK	Pittsburgh	Daily	48.86												
6.15	H15N	Moca City R.D.	ex.Su.	48.78												
6.15	CJRO	Winnipeg,Man.	Daily	48.78	▲▲	▲▲										
6.15	YV5RD	Caracas,Ven.	Daily	48.78	▲▲	▲▲										
6.24	HRD	LaCeiba, Honduras	ex.Su.	48.11												
6.24	HIN	Trujillo, R.D.	ex.Su.	47.99												
6.26	OAX4G	Lima, Peru	Daily	47.86												
6.27	YV5RP	Caracas,Ven.	ex.Su.	47.80												
6.30	YV4RD	Maracay, Venez	ex.Su.	47.62												
6.31	HIZ	Trujillo, R.D.	ex.Su	47.50												
6.34	H1IX	Trujillo, R.D.	Tu.&Fr.	47.32												
6.37	YV1RH	Maracaibo,Ven.	Daily	47.10												
6.40	YV5RH	Caracas, Venez	ex.Su.	46.88												
6.41	TIPG	San Jose, C.R.	Daily	46.80												
6.52	YV4RB	Valencia,Venez.	Daily	46.01												
6.62	PRADO	Riobamba,Ecu.	Th.	45.31												
6.63	HIT	Trujillo, R.D.	ex.Su.	45.25												
6.66	HC2RL	Guayaquil,Ec.	Tu	45.00												
6.68	TIEP	SanJose,C.R.	ex.Su.	44.88												
6.78	HIH	San Pedro, R.D.	ex.Su.	44.07												
A 7.80	HBP	Geneva,Switz.	Sat.	38.47												
8.25	HC2CW	Guayaquil,Ecu.	ex.Su.	36.46												
9.12	HAT-4	Budapest,Hung.	Su&W	32.81												
9.36	OAX4J	Lima, Peru	Daily	32.05												
9.43	COCH	Havana, Cuba	Irr.	31.88												
9.45	TGWA	Guatemala City	Daily	31.80												
9.49	EAQ-2	Madrid, Spain	Daily	31.60												
9.50	PRF5	Rio de Janeiro	ex.Su	31.58												
9.50	VK3ME	Melbourne,Aus.	M toSa	31.58	▲▲	▲▲	▲▲									

ALASKA
Ketchikan KGBU 900 O

ALABAMA
Birmingham WAPI 1140 S
*WBRC 930 O
Mobile WALA 1380 M
Montgomery WBFA 1410 M

ARIZONA
Phoenix KOY 1390 O
KTAR 820 O
Tucson KVOA 1260 O

ARKANSAS
Hot Springs KTBS 1060 T
Little Rock KLLA 1390 O

CALIFORNIA
Bakersfield KPAC 1650 O
Fresno KCMJ 580 O
Long Beach KFOX 1250 O
KGBR 1360 O
Los Angeles KECA 1430 O
KELIE 780 O KFAC 1300 O
KFI 640 W KFVD 1000 O
KFWB 950 O KIIJ 900 O
KMTR 870 O KNX 1050 W
KRLD 1250 O
Oakland KILX 880 O
KROW 930 O
Sacramento KFBI 1400 S
S. Diego KGB 1330 KFSI 600 O
San Francisco KPBC 610 O
KGO 790 T KPFO 680 W
*KFSO 560 O KFYA 1230 O
San Jose KQW 1010 O

COLORADO
Colorado Springs KVOR 1270 O
Denver KKLZ 560 O
KHOA 830 W KFEL 920 M
Pueblo KGHF 11320 M

CONNECTICUT
Bridgeport WICC 600 M
Hartford WTCI 1040 W
*WDRB 1330 O
Waterbury WBRY 1530 O

DISTRICT OF COLUMBIA
Washington WJWS 1160 T
*WOL 1230 O WRRC 930 M

FLORIDA
Clearwater WFLA 620 O
Gainesville WRUF 830 S
Jacksonville WJAX 900 O
Miami WQED 1300 O
*WQAM 560 O
Orlando WDBO 580 O

Pensacola WCOA 1340 M
Tallahassee WDAE 1220 O

GEORGIA
Atlanta WGST 890 O
*WSB 740 W WTFI 1450 M
Macon WMAZ 1180 O
Savannah WTOG 1260 O

HAWAII
Honolulu HGU 750 R
*KGMB 1320 O

IDAHO
Boise KIDO 1360 O

ILLINOIS
Chicago WBBM 770 W
WCFE 970 S WDBXAA 6.05
WGNR 870 W WXPB 6.10
*WGN 720 W WLS 870 W
*WMAQ 670 W WMBI 1080 S
Peoria WMBD 1440 M
Rockford WROK 1410 M

INDIANA
Evansville WGBF 630 M
Ft. Wayne WWOV 1160 T
Gary WINI 560 O
Hammond WHIP 1480 S
Indianapolis WFBM 1230 O
*WIRE 1400 O WGVA 1050 O
Lafayette WBAA 890 O

IOWA
Ames WOI 640 S
Cedar Rapids WMT 600 O
Des Moines KRNT 1320 O
*KSO 1430 M WBO 1000 W
Sioux City WSCJ 1330 O

KANSAS
Abilene KFB 1050 S
Coffeyville KGGF 1010 O
Lawrence KFKU 1220 O
Pittsburgh KOAM 790 O
Topeka WIBW 580 O
Wichita KFH 1300 O

KENTUCKY
Covington WCKY 1400 T
Louisville WAVE 940 O
*WHAS 820 W

LOUISIANA
New Orleans WDSU 1250 O
*WSAB 1320 M *WWL 850 T
Shreveport KTBS 1450 O
KWKH 1100 O

MAINE
Bangor WLBZ 620 O
Portland WCSH 940 O

MARYLAND
Baltimore WBAL 1060 T
*WBAL 760 R *WGAO 600 M

MASSACHUSETTS
Boston WVBZ 900 W
WIXAL 6.04-11.79
*WVEI 590 O WHDH 830 O
*WVEI 920 M *WNAC 1230 O
Fall River WBSR 1450 O
Worcester WTAG 880 O

MICHIGAN
Bay City WBCM 1410 O
Detroit WJR 750 W
*WWJ 920 O WXYZ 1240 O
Grand Rapids WOOD 1270 M
Lansing WKAR 860 O

MINNESOTA
Duluth WDBZ 1290 O
Minneapolis WCCO 810 W
WDGJ 1180 O WLB 1250 O
St. Paul KTST 1460 V

MISSISSIPPI
Jackson WJDX 1270 O
Vicksburg WQBC 1360 O

MISSOURI
Kansas City KMBC 950 O
*WDAF 610 O KXBY 1530 O
Springfield KWTO 560 O
St. Louis KMOX 1090 W
*KSLD 560 O *KWK 1350 O

MONTANA
Billings KHGL 780 O
Butte KHGR 1340 O
Great Falls KFBB 1280 O
Missoula KGOV 1200 O
Wolf Point KGGK 1450 O

NEBRASKA
Lincoln KFAB 770 T
North Platte KGNF 1430 O
Omaha WLAW 960 M
*KSLD 560 O *KOIL 1260 O

NEVADA
Heno KOH 1380 M

NEW HAMPSHIRE
Manchester WFEA 1310 M

NEW JERSEY
Atlantic City WPG 1100 S
Newark WOR 710 W

NEW MEXICO
Albuquerque KOB 1160 S

NEW YORK
Buffalo WBBN 900 O
*WGR 550 O *WKBW 1480 S
Elmira WESG 850 O
Long Island City WQXR 1550 O
New York WABC 880 W
*WXXI 6.12-11.83-15.27-21.52
*WJFA 660 W *WXXL 8.10-17.8
WIN 1010 O WINS 1150 O
*WJZ 760 W WLW 1100 S
WVCA 570 M WNEW 1250 O
WNTC 810 O WOV 1130 O
Rochester WIIAN 1150 W
Schenectady WGY 790 W
*W2XAE 9.53-15.33
Syracuse WFB 1360 O

NORTH CAROLINA
Asheville WUNC 570 O
Charlotte WBT 1080 W
Greensboro WBIG 1440 O
Raleigh WPTF 680 S

NORTH DAKOTA
Bismarck KFTR 550 O
Fargo WDAY 940 O
Grand Forks KFJM 1410 M

OHIO
Akron WADC 1320 O
Cincinnati WRC 550 O
*WLV 700 Z *WSAI 1330 O
*W2XAL 6.06
Cleveland WGAR 1450 M
*WHK 1390 O WTM 1070 W
*WBNS 1430 M WOSU 570 O
Columbus WHKC 640 M
Dayton WHIO 1260 O
Toledo WSPD 1340 O

OKLAHOMA
Norman WYAD 1010 O
Okla. City KOMA 1480 S
*WKY 900 O
Tulsa KTVQ 1140 V
*KTUL 1400 M

OREGON
Corvallis KOAC 550 O
Portland KEX 1180 S
*KGW 620 O *KOLN 940 O

PENNSYLVANIA
Philadelphia KYW 1020 T
*WCAU 1170 W *WFL 560 O
*W3XAU 6.06-9.59 WIP 610 O

PENNSYLVANIA (Cont.)
Pittsburgh KDKA 980 W
*WPK 6.14-11.87-15.21-21.54
*WCAE 1220 O *WJAS 1290 O
Reading WEEU 830 O
York WORK 1320 O

PUERTO RICO
WKAQ San Juan 1240 O

RHODE ISLAND
Providence WVEAN 780 O
*WJAR 890 M *WPRO 930 O

SOUTH CAROLINA
Columbia WIS 560 O
Greenville WIBC 1300 O

SOUTH DAKOTA
Brookings KFDY 780 O
Sioux Falls KSOO 1110 R
Yankton WYAX 570 O

TENNESSEE
Chattanooga WDDO 1280 O
Knoxville WNOX 1010 O
Memphis WMCN 780 O
*WNR 1430 M *WREC 600 O
Nashville WFLC 1470 S
*WSM 650 W

TEXAS
Amarillo KGNC 1110 O
Beaumont KEDM 500 O
Dallas KRLD 1040 T
*WFAA 800 W WRR 1280 M
Ft. Worth WJAP 800 W
KTAT 1240 O
Houston KPRC 920 O
*KPRH 1160 O KXVZ 1140 O
San Antonio KXTSA 550 O
*WQAI 1190 W

UTAH
Cedar KKL 1400 M
Salt Lake City KIDY 1290 O
*KSL 1130 W

VERMONT
St. Albans WQDM 1390 O
Waterbury WDEV 550 M

VIRGINIA
Norfolk WTAZ 780 M
Richmond WJVA 1110 S
Roanoke WDBJ 930 O
Staunton WSA 550 M

WASHINGTON
Seattle KIRO 710 O
*KJR 970 S *KOL 1270 O
*KOMO 920 O KTW 1220 O
Spokane KFPY 890 O
*KGA 1470 S *KIHQ 590 O
Tacoma KVI 570 O

WEST VIRGINIA
Charleston WCHS 580 M
Fairmont WVMXN 890 M
Huntington WBAZ 1190 O
Wheeling WVVVA 1160 S

WISCONSIN
Green Bay WTAQ 1330 O
La Crosse WKBB 1380 O
Madison WHA 940 S
*WIBA 1280 O
Milwaukee WTMJ 620 O
Stevens Point WLBL 900 S

WYOMING
Casper KDFN 1440 M

CANADA

ALBERTA
Calgary CFCA 1030 T
Edmonton CJA 730 O

BRITISH COLUMBIA
Trail CJAT 910 O
Vancouver CJOR 600 M

MANITOBA
Winnipeg CKY 910 U
CJRO 6.14 CJRX 11.72

NOVA SCOTIA
Halifax CHNS 930 O
Sydney CJCB 1240 O 6.13

ONTARIO
Hamilton CKOC 1120 M
Oshawa CRO 880 O
Sudbury CKSO 780 O
Toronto CFRB 690 T
*CRCT 840 S CJRX 6.09
Windsor CKLW 1030 S

PRINCE EDWARD ISLAND
Charlottetown CFCY 630 O

QUEBEC
Montreal CFCF 600 M
*CKAC 730 S CRCM 910 S
New Carlisle CHNC 960 O
Quebec CRCK 1050 O

SASKATCHEWAN
Moose Jaw CJRM 540 O
Regina CHWC-CKCK 1010 M
Saskatoon CFQC 840 O

ARGENTINA
Buenos Aires LSX 10.35
LRU 15.29 LRX 9.06

AUSTRALIA
Melbourne VK3ME 9.50
3LR 9.58
Sydney VK2ME 9.59

BRAZIL
Rio de Janeiro PRF 9.50

BULGARIA
Sofia LZA 14.87

CHILI
Santiago CEC 10.67

COLOMBIA
Barranquilla HJ1AB-6.04-6.11
Bogota HJN 5.95
HJ3AB-6.01-6.05-6.12-6.07
Cali HJ5ABD 6.08
Cartagena HJ1AB-9.50-9.61
Ibaque HJ4AB 6.09
Manizales HJ4AB 6.11
Medellin HJ4AB-6.03-6.10-6.14

COSTA RICA
San Jose TIGPH 5.83
TIPG 6.41 TIEP 6.68

CUBA
Havana CMBC 630 O
CMCY 780 O CMK 730 M
CMW 600 M CMX 920 P
COCD 6.13 COCH 9.43

ECUADOR
Guayaquil HC2CW 8.25
HC2HL 6.66
Riobamba PLADO 6.62

ENGLAND
London GS-9.51-9.58-11.75-
15.14-15.31-17.79-21.87

FRANCE
Paris TPA-11.72-11.88-15.24

GERMANY
Berlin DJ-6.02-9.54-9.56-
11.77-15.11-15.20-15.28-17.76

HAITI
Port au Prince HJKK 920 O
HJ2S 5.91 HJ3W 9.61

HOLLAND
Eindhoven PCJ 9.50-15.22
Huisen PHJ 17.77

HONDURAS
Tegucigalpa HJRN 5.87
San Pedro HJRP 6.36

HUNGARY
Budapest HJAS-3 15.37
HAT-4 9.12

ITALY
Rome I2RO-9.63 11.61
Varese City HVJ 15.12

JAPAN
Tokio JVM 10.74 JZJ 11.90

MEXICO
Mexico City XEB 1030 T
XEPT 6.00 XEPE 940 S
XEN 780 O XEW 890 W
New Laredo XENT 910 X
Piedras Negras XELO 1110 W
XEPN 580 X
Reynosa XEAW 960 W
Tijuana XEMO 860 S
Villa Acuna XERA 840 Z

PANAMA
Panama HJPS-6.03-6.08-9.60

PERU
Lima OAX4-5.78-9.26

POLAND
Warsaw SPW 13.63

PORTUGAL
Lisbon CTIAA 965. CSW 9.94

RUSSIA
Moscow RNE 12.00 RAN 9.60

SANTO DOMINGO
Puerto Plata HJIS 6.42
Santiago HJA 6.19
Trujillo HJN 6.24
HIT 6.63 HIZ 6.31-6.34

SPAIN
Madrid EAQ 9.48-9.86

SWITZERLAND
Geneva HB-7.80-9.65

VENEZUELA
Caracas YV5R-5.80-6.15-6.27
YV5RH 6.40
Maracaibo YV1R-5.85-6.39
Maracaibo YV4R 6.30
Valencia YV4R-5.91-6.52

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