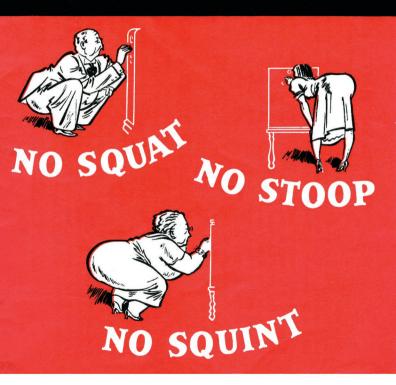
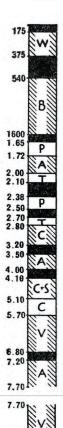
1938 PHILCO RADIO LOG

AMERICAN AND FOREIGN STATIONS





8.80

9.00

10.0

11.0

12.0

17.

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.

100 H	150	0 2	00	250 K	300 L	500 M	750 N	1000	1500 P	2000 Q	WATTS POWER CODE	2500 R	5000 S	10000 T	15000 U	25000 V	50000 W	100,000 X	250,000 Y	500,000 Z
evisio	n E	56				*Co	luml	bia;	NBC	Red;	INBC Blue;	‡NB	CR	ed &	Blue;	▲ M	utual			

Revision 56

Kevision oo		TIDO DIGE, TI		
WESTERN	MIDDLE WESTERN Minn., Ia., Neb., Mo., Tex., Etc	KILO. Dial No.	CENTRAL	EASTERN NO. FIL
CJRM Moose Jaw, Sask		E4-	Ill., Mich., Ohio, Tenn., Etc.	Mass., N. Y., Pa., N. C., Etc
		540	*WKRC Cincinnati Ohio O	CFNB Fredericton, N.B.I
KFYR Bismarck, N. D	*KTSA San Antonio, Tex O	550	*WKRC Cincinnati, OhioO WSVA Staunton, VaM	**WGR Buffalo, N. Y
KLZ Denver, Colo		560	WIND Chicago-Gary 0 WIS Columbia, S.C	WFIL Philadelphia, Pa.
KVI Tacoma, Wash	*WNAX Yankton, S. DO	F7	*WKBN Youngstown, Ohio. M WOSU Columbus, OhioO	WWNC Asheville, N. C
KMTR Los Angeles. Cal C CKUA Edmonton, Alta M			WILL Urbana, Ill K	WMCANewYork (+ WSYR)
KMJ Fresno, Cal	KSAC Manhattan, KasM XEPN Pedras Negras, W		*WCHS Charleston. W. Va M	*WDBO Orlando, Fla
KHQ Spokane, Wash	twow Omaha, Nebs	590	CMW Havana. CubaP	*WEEL Boston, Mass
CJOR Vancouver, B.C N KFSD San Diego, Cal N	WMT Cedar Rapids, Ia 0		CRCW Windsor OntM	*WICC Bridgeport . Conn . f
	Visitation of the Control of the Con	10000	CMW Havana, Cuba, M	
KFRC San Francisco, CalC		610	WJAY Cleveland, OhioM	**WLBZ Bangor, Maine
KTAR Phoenix, Ariz C		620	#WFLA-#WSUN Florida O	WHJBGreensburg. Pa
CJRC Winnipeg. Man N KGFX Pierre, S.D.	KFRU Columbia, Mo M	630	WGBF Evansville, Ind M ↓WMAL Washington, D. C. K	*WPRO Providence, R. I
KFI Los Angeles, Cal W	WOI Ames, IowaS		WHKC Columbus. Ohio M	WGAN Portland, Me
		650	**WSM Nashville, Tenn W	The state of the s
	WAAW Omaha, Nebr M		XEAL Mexico City, Mex 0	TWEAF New York City
		670	†WMAQ Chicago, Ill W	
KPO San Francisco, Cal W	KFEQ St. Joseph, MoR			WPTF Raleigh, N. C
CJCJ Calgary, Alta			NAA Arlington, Va	*CFRB Toronto, Ont
		700	*# Cincinnati, Ohio Z	
KIRO Seattle, Wash C KMPC Beverly Hills, Cal M		710		WOR Newark, N. J
KMPC Beverly Hills, Cal M			*WGN Chicago, III W	TT OIL NEWARK, IV. J
CJCA Edmonton, Alta		720	CMCL Havana,(CMK) T	*CKAC Montreal, Que
KTRB Modesto, Cal		730	‡WSB Atlanta, Gaw	WHEB Portsmouth, N. H.
KGU Honolulu, Hawaii	-	/ 10	*WJR Detroit, Mich W	WHEB Portsmouth, N. H.
KXA Seattle, Wash		750	Work Detroit, MichW	
XEOK Tia Juana, Mex F		700		WJZ New York (WBAL)
	*KFAB Lincoln, NebrT	770]	*WBBM Chicago, Ill W	CMBF Havaua, Cuba
KGHL Billings, Mont	KFDY Brookings, S. D O XEYZ Mexico City (XEN). T	780	CKSO Sudbury, OntO	**WEAN Providence, R.I
KEHE Los Angeles Cal		790	WMC Memphis, Tenn0	WTAR Norfolk, Va
KGO San Francisco, Cal T	-			†WGY Schenectady, N. Y.
	#WFAA Dallas, (#WBAP). W		HIX Santo Domingo, RD6	WTBO Cumberland, Md
<u> </u>	*WCCO Minneapolis, Min W			WNYC New York City
XEBG Tia Juana, Mex		820	*WHAS Louisville, Ky W	WHOH Roston Mass
	↓KOA Denver, Colow	830	WRUF Gainesville, FlaS	WHDH Boston, Mass WEEU Reading, Pa
CFQC Saskatoon, Sask C	XERA Villa Acuna, Mex Z	840	-	CRCT Toronto, Ont
KIEV Glendale, Cal	*WWL New Orleans, La T	850	WKAR E. Lansing, Mich 0	*WESG Elmira.N,Y
XEMO Tiajuana Mex	WHB Kansas City, Mo O	860		*WABC-WBO'Q N. York
		870	+WENR-WLS Chicago W	
KLX Oakland, Cal C	WSUI Iowa City, Ia M KFKA Denver(KPOF) M	880	CRCO Ottawa, Ont 0 WCOC Meridian, Miss, 0	WGBI-WQAN Scranton,Pa
KFPY Spokane, Wash O	KFNF Shenandoah (KUSD) M	800	WBAA Larayette, Ind W	+ WJAR Providence, R. I
KARK Little Rock, Ark M KGBU Ketchikan, AlaskaO	MITAD ()win III		*WMMN Fairmont, W. Va M	*WGST Atlanta, Ga
KSEI Pocatello, IdahoK KHJ Los Angeles, CalO	WTAD Quincy. Ill O WKY Okla. City, Okla O	900	WLBL Stevens Pt., Wis S WJAX Jacksonville, Fla O	† WBEN Buffalo, N. Y WELI New Haven. Conn
CJAT Trail, B.C			CKY Winnipeg, ManU	CRCM Montreal, Que
KOMO Seattle, Wash	*KPRC Houston, TexasO	920	† WWJ Detroit, Mich S WAAF Chicago, Ill O	WORL Boston, Mass! WRAX-WPEN Philadelphia
Access to the second se		1 1 2 2 1	CMX Havana	CHNS Halifax, N.S
KROW Oakland, Cal	TWDAY Force N D		*WBRC Birmingham, Ala0 ‡WAVE Louisville, Ky0	*WDBJ Roanoke, Va
KOIN Portland, Ore	WHA Madison, Wis	940	XEFO Mexico City, Mex S	WCSH Portland, Maine WAAT Jersey City, N. J!
KFWB Hollywood, Cal C	*KMBC Kansas City, Mo O	950	WHAL Saginaw, Mich M CMCD Havana, Cuba N	twRC Washington, D.C
	XEAW Reynosa, Tams W	960		CHNC New Carlisle, Que
KJR Seattle, Wash		970	: WCFL Chicago, Ill S	
		980	3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	KDKA Pittsburgh, Pa
	XEAF Nogales, Mexico N			WBZ-WBZA Boston
KFVD Los Angeles, Cal C			***************************************	
CKCK-CHWC Regina, Sk M	KGGF Coffeyville, Kas 0	1000		
KQW San Jose, Cal C	WNAD Norman, Okla O	1010	*WNOX Knoxville, Tenn	
	XEJ Juarez, Mex	1020		†KYW Philadelphia, Pa
CFCN Calgary, AltaT KWJJ Portland, OreM	7	1030	*CKLW Windsor-Detroit S	
KYOS Merced Cal	*KRLD Dallas, TexT	1040		†WTIC Hartford, Conn
KNX Los Angeles, Cal w	KFBI Abilene, KasS	1050	WEAU Eau Claire, Wis O WGVA Indianapolis, Ind O	CRCK Quebec Que

WESTERN	MIDDLE WESTERN	KILO	Diai No.	CENTRAL	EASTERN
WJAG Norfolk, Nebr0	‡KTHS Hot Springs, Ark T	1060		XEA Guadalajara, Mex	↓ *WBAL Baltimore, Md.
KJBS San Francisco, Cal. M	WCAZ Carthage, Ill H	107o		WTAM Cleveland, Obio. W	V
		108 ₀		WMB! Chicago, Ill. (WCBD)	*WBT Charlotte, N. C
XEAQ Tia Juana, Mex 0	*KMOX St. Louis, Mo W	1090			
KGDM Stockton, Cal	*KWKH Shreveport, La T	1100			*WPG Atlantic City, N. J
	KSOO Sioux Falls, S. DR	1110		XELO Piedras Negras, Mex. W	‡*WRVA Richmond, Va.
(FIO Spok'e, Wash. (KRSC)H	WTAW College Station, Tex M	1120		*WISN Milwaukee.Wis	WCOP Boston, Mass
KFSG-KRKD Los Angeles M KSL Salt Lake City, Utah. W	- Contage Station, 1 ca in			WJJD Chicago, Ill	
COL Sare Bane City; Ctan. II	‡KVOO Tulsa, Oklav	1130		WAPI Birmingham, Ala. S	
	XEH Monterey, MexK	1140		Birmingham, Ala	
	XED Guadalajara, MexM	1150		WOWO Ft. Wayne, Ind T	+WHAM Rochester, N.Y **WWVA Wheeling, W.Y
	AED Guadalajaia, Mex	1160		+ WOWO Ft. Wayne, Ind.: 1	
EX Portland, OreS	WDGY Minneapolis, Minn 0	1170		: WM 4 7 Massa Co	*WCAU Philadelphia, Pa
OB Albuquerque, N. MT		1180		* WMAZ Macon, Ga 0	WINS New York City,
TKC Viscalia, CalK	TWOAI San Antonio, Tex. W	1190		WSAZ Huntington, W. Va. O	WATR Waterbury, Conn.
SUN-KGFJ-KVCV-KVEC WG-KFXD-KDNC-KOOS	KBIM-KGHI-KFXJ-KGEK KFJB-KMLB-WBNO-WJBW	100		WBHP-WJRD-WJBC-WJBL	*WTHT*WJNO-WRBL-WA *WABI-WIBX-WMFR-W
VOS-KELO	KWNO-KGDE-KATE-WIL KADA WBBZ-WCAT-WDSM	1200		WWAE-WFAM-WMPC-WHBC WCPO-WHBY-WCLO	WFTC-WEST-WKBO-WI
	KFPW-WHEF-KGLO-KIUL			WJBY-WCRW-WEDC-WSBC	WAIM-WCAX-WLVA WFOY-WPAX-WJEJ-WE
DON-KPPC-KROY*KFXM PFA-KLAH-KFJI-KGY	KANS-WMFG-WMFN-WGCM KFVS*KFOR-KDLR*KVSO	1210		WEBQ-WTAX-WHBU†WJIM WJW; WCOL-WBLY-WALR	WSNJ-WGNY-WGBB-W WSAY-WFAS: WSOC-WK
	-KASA-KWTN-KOCA-WIBU	1210		WSIX-WOMT	WBAX-WBBL*WMBG
TW Seattle(KWSC)0	WREN-KFKU Kansas CityO	1220		*WDAE Tampa, Fla0	
YA San Francisco, CalO	KGBX Springneld, Mo M KGGM Albuquerque, N.M. M	1230		*WFBM Indianapolis, Ind 0	WNAC Boston, Mass
GCU Manden No. Dakota K TFI Twin Falls, Idaho M	KLPM Minot, N. DK	1240		WXYZ Detroit, Mich O XEKL Leon. Mex M	CICD Cadner M C
I Yakima, Wash K	WLB + WTCN Minneapolis M				
FOX Long Beach, CalO GVO Missoula, MontO	WCAL Northfield Minn0	1250		*WHIO Dayton, O	WAIR Winston-Salem, N.
VOA Tucson, Arizona O	KPAC Port Arthur (KRGV),0	1260		*WTOC Savannah, Ga O	WNBX Springfield, Vt
OL Seattle, Wash	*KWLC-KGCA Decorah, Ia H *KVOR Colo. Springs, Colo 0	1270		WASH WOOD Gr. Rpds M WJDX Jackson, Miss	tWFBR Baltimore, Md
FBB Great Falls, Mont. O	TWIBA Madison, Wis 0			*WDOD Chattanooga, Tenn. O	-144 C D C TT
LS Oakland, Cal	WRR Dallas, TexM t WEBC Duluth, MinnO	1280		- Charles of the Char	*WJAS Pittsburgh, Pa
DYL Salt Lake City0	*KTRH Houston, Tex0	1290			WNEL San Juan, P. R
ALE Portland, Ore M	WHEL Sheboygan, Wis M	120		tWFBC Greenville S.C 0	
	*KFH Wichita, KasO WSGN-KCKN-KVOL-KRMD	1300		WIOD-WMBF Miami, Fla. 0	WEVD-WHAZ New York
INY-KCRJ-KSRO-KHUB GEZ-KRQA-KMED-KSUB	KVOX-KROC-WAML-KWOS KPDN-KRRV-KFXR-KAND	1310		WCLS-WTRC-WLBC-WBOW WCMI†WFDF-WBEO-WEXL	WOL-WLAK-WTAL-WN
XRO-KIT-KGFW-KRMC	KFPL-KTSM-WDAH-KFYO			WTJS-WROL-WEMP-WGH	
GMB HonoluluO	*KRNT Des Moines, Iowa	1320		*WADC Akron, Ohio 0	
MO Tacoma Wash	*KSCJ Sioux City, Ia			WTAO Green Bay Wis	
GB San Diego, Cal	KRIS Cornus Christi, Tex. K	1330		WTAQ Green Bay, Wis 0	*WDRC Hartford, Conn
GIR Butte, Mont	KGDY Huron, S.D K KGNO Dodge City Kas K	1340		* WSPD Toledo, Ohio 0	*WCOA Pensacola, Fla
DO Boise, Idaho	*KWK St. Louis, Mo0	135o		WMBG Richmond, VaM	WBNX New York (WAW)
GER Long Beach, Cal 0	*KCRC Enid, Okla K WQBC Vicksburg, Miss	1360		*WSBT South Bend, Ind M	*WFBL Syracuse, N. Y.
GAR: KERN-KRE-KICA	KELD-KONO-KTEM-KFGQ	1300		Constitution of the second second second second second second	*WMBR-WATL WRDO-WO
GFL-KAST-KSLM-KOBH RKO-KEEN-KUJ-KWYO	*WOC-KVGB-WMIN-WHLB WFOR-KCMO*KTOK-KFJZ	1370		WMFO-WAGF-WDWS-WEOA WGL-WGRC-WHDF-WIBM	AMILIE LE MANAGE LAURALINE LAU
UP-KOKO-KGKL	KLUF-KFRO-KMAC			WPAY-WHBQ-WRJN-WSAU	WQDM-WBTM-WBLK
RLC Lewiston, IdaK	WKBH La Crosse, Wis	1380		*WALA Mobile Ala	WNBC New Britain, Conr KQV Pittsburgh, Pa
UY Phoenix, Ariz	*KLRA Little Rock, Ark 0	1390		*WHK Cleveland, Ohio	WQDM St Albans, Vt
LO Ogden, Utah (KHBC) M	*KTUL Tulsa OklaM	140o		WIRE Indianapolis, Ind 0	WARD-WVFW-WBBC N
MED Medford Ore K GNC Amarillo, Tex O	KFJM Grand Forks, N.D. M WROK Rockford, Ill M	1410		WBCM Bay City, MichO	*WAAB Boston, Mass WHIS Bluefield, W. Va
JMA-KGGC-KRLC-KORE	KCMC-KALB-WJBO-WMBH			*WSFA Montgomerv.Ala M WMSD-WHFC-WCBS-WLAP	WHIS Bluefield, W. Va
BPS-KXL-KEUB-KGIW IDW-KWBG-KRLH	KGFF-KABR-KRBC-KNET KIUN-KABC*WACO-KFIZ	1420		WPAD‡WELL-WMBC-WJMS	*WMAS-WJBR-WEED-W
ECA Los Angeles, CalO	KSO Des Moines, Ia K KGNF No. Platte, Neb O	1430		WAPO*WPAR *WBNS Columbus, OhioM	*WHEC Rochester(*WOK
	*WMBD Peoria III M	!		*WBNS Columbus, OhioM WNBR Memphis, TennM	*WHP Harrisburg, Pa
DFN Casper, WyoM	*WMBD Peoria, IllM KXYZ Houston, TexO	1440		*WBIG Greensboro, N. C M	WCBA-WSAN Allentown
EM Eureka. Cal M GCX Wolf Point. Mont O	‡KTBS Shreveport, La0	1450		WTFI Atlanta Ga M	
	†KSTP St. Paul-Minn polis. T	1460			*WJSV Washington, D.C.
GA Spokane, Wash S		1470		*WLAC Nashville, TennS	
	*KOMA Oklahoma City.OkS	1480		WHIP Hammond, IndS	**WKBW Buffalo, . N. Y
FBK Sacramento, CalS		1490		WCKY Covington, KyS	
YCA*KXO*KVOE*KDB	KOTN*WKBB-WTMV-KSJS KPLC-KDAL-KGKY*KBIX			WHBB-WKBV-WJBK-WKBZ	WNLC-WRDW-WKEU-W
AWM-KOVC-KRNR-KUTA	*KNOW-KBST-KNEL-KGFI	1500		WHEF-WOPI	WMEX*WNBF-WCNW-WN WWRL*WDNC-WGAL-WV
	KROD-KPLT-KGK8-KXBY	1510		CKOD W	WSYB-WRTD
	KXBY Kansas City. Mo., 0	1530		CKCR Waterloo. Ont H	CFRC Kingston, Ont
PMC Bakersfield. Cal0		1550			WQXR Long Island Cy, N
J Dunoimilla, Cai U					I WWANT LOUIS IDIALIU CY, IV





NO SQUINT





PHILCO

NOW... for only a few dollars down ... you can own an entirely new kind of radio... the 1938 Philoo Double-X! Built for your convenience, with an INCLINED CONTROL PANEL... INCLINED for tuning with ease and grace, whether you're sitting or standing!

One glance, and you spot your favorite stations . . . one motion, and Philco Automatic Tuning gets them perfectly! Tone perfection made possible by the famous Inclined Sounding Board . . . overseas reception such as only the Philco Foreign Tuning System can give . . . cabinets of superb beauty! Seven big-value Double-X Philcos from which to choose!



Come in and tune one of the new 1938 Double-X PHILCOS

EASY TERMS - BIG TRADE-IN ALLOWANCE

																		by those for your zone for same
																		to learn days station operates. heard well. Two, one, or none
black re	quire	comparati	ve care. "A" a	t left me	arks A	ma	te	ırs,	"S	" S	hip	os,	"C	"	air(Cra	ft.	neard well. 1wo, one, or none
				E D S	T	1	2	3	4	5 6			_		10		12	i .
	A	M-▲ PM	I-▼ Both-♦	Centra	l (CD)	11 :	2 1 12 11 10	1	2	4 5 3 4 2 3 1 2		5	6	9 8 7 6	9 :	9	io	NOTES
	-	G-11	Disease	Mount Pacific	ain	9	10 1	1 1	2	1 2	1	4	5	5	7 6	7	10 1 9 1 8	110125
		Call HJ2ABC	Place Cucuta, Col.	When ex Su	Mtrs. 62.60	300	 	_					• •		 	. -	11-	
			atemalaCy. W.						_			**		**		_	-	
	5.76	YNOP	Managua, Nic.	ex.Su.	52.08			-	-	-		-	-	-	**	-	-	
		OAX4D		W&Sat					-		-	_		1	**	**	V -	
-		YV5RC TIGPH	Caracas, Venez San Jose, C.R.		51.72						~	**	**					
		YVIRB	Maracaibo, Ver					_			**		**	77	~	**	_	
			Tegucigalpa, Ho					-		-	- 1	**	**		·-	-		
		TILS	San Jose, R.D.					-	-	-		**	**	**	**	**	-	
			Barquisimeto, Ve										~	**	▼-		1	
			Valencia,Ven. ort-au-Pr., Haiti					_				100			**	77	~	
		TG2X	Guatamala Cit					_	_	-	_		**	-	V		-	
	5. 95	HJN	Bogota, Col.	ex. Su.	50.42	-	-	-		-					**	v-	-	
			Medellin, Col.		50.25 49.97	-	-							**	**	**	-	
		XEBT HP5K	Mexico City Colon, Panama	Dally	49.97							**	YX	XX	**	77	VV	
		COCO	Havana, Cuba	Daily	49.92				_			**		_			_	4/2
				ex.Su.	49.92							**	**	**	**	*	-	
		DJC	Berlin, Ger.	Daity	49.83	**	**	**	**	₩-				-	-	-	-^	
1		HP5B	Panama City		49.75		VV							**	**	V-		
			Medellin.Col. Boston,Mass.	ex.Su,	49.73 49.67				_				**	**	**	1		
	6.04	HJIABG	Barranquilla,C	ol. ex.Su									**	**		_	-	
	6.05	HJ3ABD	Bogota, Col.	ex.Su.			**	**		\dashv	-		VV	VV	-	1	V-	
	6.06	W8XAL	Cincinnati	Daily	49.50		**	**	**	**	**	▼ ♦	^^	**	^^	*	*	
		W3XAU CFRX	Philadelphia		49.50 49.41			-				~	**	**	**	-	-	
-	0.07	OFRA	Toronto, Ont.	Dany	49.41		1	1		74	**	**				144	11	
	6.08	W9XAA	Chicago I	AW&Sa	49.34				vv	-41	14	vv	-	-		l	-	
-		W9XF	Chicago I	TF&Sn	49.18	44				-	-				**	**	**	
			Boundbr'k, N.J								77	**	₹ ₹	77	**			-
			Manizales,Col Barranquilla,C											**	**			
		VE9HX	Halifax, N. S.	Daily	48.92					_ ,	-	**			**	~ ,		
		COCD	Havana, Cuba	Daily	48.92						-	-	-	**	**	**	-	
		W8XK		Daily	48.86	-				-	1		-	-	**	**	VV	-
		H15N CJRO	Moca City R.I. Winnipeg, Man	Doily	48.78	44	44				**	**		-				***************************************
			Caracas, Ven.	Daily	48.78	44				7		**	**	**	**	YY	**	
			aCeiba, Hondu							-	_	-	-	**	**	Ÿ-		
		HIN	Trujillo, R.D.	ex.Su.						-	-	-	**	**		-	-	
		OAX4G		Daily	47.86					1		-	**	**	**	**	**	
		YV5RP YV4RD	Caracas, Ven. Maracay, Vene		47.80 47.62									1	**	V		
		HIZ	Trujillo, R.D.									**	**	**	**			
	6.34	HI1X	Trujillo, R.D.										0.00	**	**	-		
		YV1RH	Maracaibo, Ver							-			-	-	**	**		
		TiPG	Caracas, Venez San Jose, C.R.								**	**	**	**	▼-			
			Wall Jose, C.It.	Daily	46.01						- 1	200	**			YX	X	
	6.52	YV4RB	v alencia, v enez								_				**	**	-	
_		YV4RB PRADO	Valencia, Venez Riobamba, Ecu				-	-		- 11								
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ALASKA Ketchikan KGBU 90o O ALABAMA

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

ARIZONA
Phoenix *KOY 1390 O
‡KTAR 620 O
Tucson KVOA 1260 O

ARKANSAS Hot Springs ‡KTHS 1060 T Little Rock *KLRA 1390 O

Little Rock *KLRA 1390 O

CALIFORNIA
Bakersield *KPMC 1550 O
Fresno ‡KMJ 580 O
Fresno ‡KMJ 580 O
Long Beach KFOX 1250 O
KGER 1360 O
LOS Angeles ‡KECA 1430 O
KEHE 780 O
KFAC 1300 O
KFHO 140 W
KFWD 1000 O
KFWB 950 O
KHYD 1000 O
KMTR 570 O
KMTR 570 O
KMTR 570 O
KROW 930 O
KROW 930 O
Sacramento ‡*KFBK 1490 S
S. Diego KGB 1330 KFSD 600 O
San Francisco *KFRC 610 O
‡KGO 790 T
†KPO 680 W
*KSFO 560 O
San Jose KQW 1010 O
COLORADO

COLORADO Colo Springs *KVOR 1270 O Denver *KLZ 560 O ↓KOA 830 W *KFEL 920 M Pueblo KGHF ↓1320 M

CONNECTICUT
Bridgeport 1 WICC 600 M
Hartford † WTIC 1040 W
*WDRC 1330 O
Waterbury WBRY 1530 O

Washington *WJSV 1460 The WOL 1230 O TWRC 950 M FLORIDA

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

MAINE Bangor **WLBZ 620 O Portland †WCSH 940 O MARYLAND Baltimore + WBAL 1060 T + WBAL 760 R * WCAO 600 M

#WBAL760 R *WCAC 000 M MASSACHUSETTS Boston #WBZ 990 W #WIXAL 6.04-11.79 *WEEI 590 O WHDH 830 O WORL 920 M *WNAC1230O Fall River *WSAR 1450 O Worcester †WTAG 580 O

MICHIGAN MICHIGAN
Bay City WBCM 1410 O
Detroit *WJR 750 W
†WWJ 920 O ‡WXYZ 1240 O
Grand Rapids ‡WOOD 1270 M
Lansing WKAR 850 O

MINNESOTA
Duluth ‡WEBC 1290 O
Minneapolis *WCCO 810 W
WDGY 1180 O WLB 1250 O
St Paul †KSTP 1460 V

MISSISSIPPI Jackson ‡WJDX 1270 O Vicksburg WQBC 1360 O MISSOURI

Kansas City *KMBC 950 O †WDAF6100 KXBY 15300 Springfield *KWTO 560 O St Louis *KMOX 1090 W †KSD 550 O ‡*KWK 1350 O

MONTANA
Billings ‡KGHL 780 O
Butte ‡KGIR 1340 O
Great Falls *KFBB 1280 O Missoula *KGVO 1260 O Wolf Point KGGK 1450 O

NEBRASKA Lincoln *KFAB 770 T North Platte KGNF 1430 O Omaha WAAW 660 M †WOW 590 S ‡*KOIL 1260 O NEVADA

Reno *KOH 1380 M NEW HAMPSHIRE Manchester ‡ WFEA 1340 M NEW JERSEY Atlantic City *WPG 1100 S Newark *WOR 710 W

PENSYLVANIA (Cont.)
Pitisburgh 4KDKA 980 W
4W8XK 6.14-11.87-15.21-21.54
†*WCAE12200 *WJAS12900
Reading WEEU 830 O
York WORK 1320 O

PUERTO RICO WKAQ San Juan 1240 O

RHODE ISLAND
Providence LAWEAN 780 O
†WJAR 890 M *WPRO 630 O SOUTH CAROLINA Columbia ‡WIS 560 O Greenville ‡WFBC 1300 O

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

TENNESSEE
Chattanooga *WDOD 1280 O
Knoxville *WNOX 1010 O
Memphis tWMC 780 O
WNBR 1430 M *WREC 600 O
Nashville *WLAC 1470 S
; *WSM 650 W

TEXAS TEXAS
Amarillo KGNC 1410 O
Beaumont KFDM 560 O
Dallas *KRLD 1040 T

†WFAA 800 W WRR 1280 M
Ft. Worth †WBAP 800 W

KTAT 1240 O

*KTRH 1290 O KXYZ 1440 O
San Antonio *KTSA 550 O

‡WOAI 1190 W

Ogden 4KLO 1400 M Salt Lake City †KDYL 1290 O *KSL 1130 W

VERMONT St. Albans WQDM 1390 O Waterbury WDEV 550 M

VIRGINIA Norfolk ‡*WTAR 780 M Richmond †WRVA 1110 S Roanoke *WDBJ 930 O Staunton WSVA 550 M

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 9.66 AUSTRALIA Melbourne VK3ME 9.50 3LR 9.58 Sydney VK2ME 9.59 BRAZIL Rio de Janeiro PRF5 9.50

BULGARIA Sofia LZA 14.87 CHILL Santiago CEC 10.67

COLOMBIA

Barranquille HJ1AB- 6.04-6.11
Bogota HJN 5.95
HJ3AB- 6.01-6.05-6.12-6.07
Call HJ5ABD 6.08
Cartagena HJ1AB- 9.50-9.61
Ibaque HJ4ABC 6.09
Manzales HJ4ABB 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 1030 O CMK 730 M CMW 600 M CMX 920 P COCD 6.13 COCH 9.43

ECUADOR Guayaquil HC2CW 8.25 HC2RL 6.66 Riobamba PRADO 6.62

ENGLAND London GS- 9.51-9.58-11.75-15.14-15.31-17.79-21.47

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

Port au Prince HHK 920 O HH2S 5.91 HH3W 9.64

Pensacola *WCOA 1340 M Tampa *WDAE 1220 O GEORGIA Atlanta *WGST 890 O 1WSB 740 W WTFI 1450 M Macon WMAZ 1180 O Savannah *WTOC 1260 O

Honolulu ‡KGU 750 R *KGMB 1320 O

Boise KIDO 1350 O

INDIANA
Evansville WGBF 630 M
Ft Wayne tWOWO 1160 T
Gary WIND 560 O
Hammond WHIP 1480 S
Indianapolis *WFBM 1230 O
† *WIRE 1400 O WGVA 1050 O
Latayette WBAA 890 O

IOWA
Ames WOI 640 8
Cedar Rapids 1 WMT 600 O
Des Moines *KRNT 1320 O
1 KSO 1430 M WHO 1000 W
Sloux City *KSCJ 1330 O

KANSAS
Abilene KFBI 1050 S
Coffeyville KGGF 1010 O
Lawrence KFKU 1220 O
Pitisburgh KOAM 790 O
Topeka *WIBW 580 O
Wichita *KFH 1300 O

KENTUCKY
Covington ‡WCKY 1490 T
Louisville ‡WAVE 940 O
*WHAS 820 W

LOUISIANA New Orleans WDSU 1250 O ‡WSMB 1320 M *WWL 850 T Shreveport ‡KTBS 1450 O KWKH 1100 O NEW MEXICO Albuquerque KOB 1180 S NEW YORK

NEW YORK
Buffalo †WBEN 900 O
WGR550 OWKBW 1480 S
Elmira *WESG 850 O
Long Island City WQXR1550 O
New York *WABC 860 W
*W2XE 6.12-11.83-15.27-21.52

*WEAF660W ‡W3XL 6.10-17.8
WHN 1010 O WINS 1180 O
‡WJZ 760 W WLWL 1100 S
WMCA570M WNEW1250 O
WNYC 810 O WOV 1130 O
Rochester ‡WHAM 1150 W
Schenectady †WGY 790 W
†W2XAF 9.53-15.33
Syracuse *WFBL 1360 O
NORTH CAROLINA

Asheville †WWNC 570 O Charlotte *WBT 1080 W Greensboro WBIG 1440 O Raleigh †WPTF 680 S

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

Grand Forks KFJM 1410 M
OH10

Akron *WADC 1320 O
Clincinnat: *WKRC 550 O
1 *WLW 700 Z †*WSAI 1330 O
1 *WSXAL 6.06

Cleveland ; WGAR 1450 M
*WHK 13900 †WTAM 1070 W
*WBNS 1430 M
*WOSU 570 O
Columbus WHKC 640 M
Dayton *WHIO 1260 O
Toledo †WSPD 1340 O

OKLAHOMA
Norman WNAD 1010 O
Okla. City *KOMA 1480 S
†WKY 900 O
Tulsa ‡KVOO 1140 V
*KTUL 1400 M

OREGON
Corvallis KOAC 550 O
Portland 4KEX 1180 S
†KGW 620 O *KOIN 940 O PENNSYLVANIA
Philadelphia †KYW 1020 T
*WCAU 1170 W \ \^\WFIL 560 O
*W3XAU 6.06-9.59 WIP 610 O WASHINGTON
Seattle KIRO 710 O
1KJR 970 S *KOL 1270 O
1KOMO 920 O KTW 1220 O
Spokane *KFPY 890 O
1KGA 1470 S †KHQ 590 O
Tacoma *KVI 570 O

WEST VIRGINIA Charleston *WCHS 580 M Fairmont *WMMN 890 M Huntington WSAZ 1190 O Wheeling *WWVA 1160 S WISCONSIN
Green Bay WTAQ 1330 O
La Crosse WKBH 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 CFCN 1030 T
Edmonton CJCA 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

sydney CJCB 1240 U 6.13
ONTARIO
Hamilton CKOC 1120 M
Ottawa CRCO 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 HOLLAND Eindhoven PCJ 9.59-15.22 Huisen PHI 17.77 HONDURAS Tegucigalpa HRN 5.87 San Pedro HRP1 6.36

HUNGARY Budapest HAS-3 15.37 HAT-4 9.12

ITALY Rome I2RO- 9,63 11.81 Vatican City HVJ 15.12 JAPAN Tokio JVM 10.74 JZJ 11.90

MEXICO MEXICO
Mexico City XEB 1030 T
XEBT 6.00 XEF0 940 S
XEN 7800 XEW 890 W
New Laredo XENT 910 X
Piedras Negras XELO 1110 W
XEPN 580 X
Reynosa XEAW 960 W
Tia Juana XEMO 860 S
Villa Acuna XERA 840 Z

PANAMA HP5-6.03-6.08-9.60 PERU

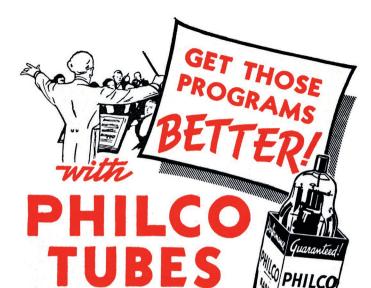
Lima OAX4-5.78-6.26 POLAND Warsaw SPW 13.63

PORTUGAL Lisbon CT1AA 965. CSW 9.94 RUSSIA Moscow RNE 12.00 RAN 9,60

SANTO DOMINGO
Puerto Plata HI18 6.42
Santiago HI1A 6.19
Trujillo HIN 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
Maracay YV4RD 6.30
Valencia YV4R- 5.91-6.52



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