

Frequency Lists 4/26/2024

AM Broadcast Stations				
WILL Urbana	580			Public Radio
WSCR Chicago	670			Sports
WGN Chicago	720			News/Talk
WIRL Peoria	1290	Favorite		Hannity 4pm
WSOY Decatur	1340			News/Talk
WDWS Champaign	1400	Favorite		NewsGazette.com, Fighting Illini
WDAN Danville	1490			Talk
WHOW Clinton	1520			Farm
FM Broadcast Stations				
WCRT	88.3	F		Religious
WPCD Parkland	88.7	F		College Alternative
WGNJ Saint Joseph	89.3			Religious
WEFT Champaign	90.1			Variety
WILL Urbana	90.9			Classical
WBGL Champaign	91.7	F		Religious
WREE Urbana	92.5			Classic Hits
Cities Bloomington	92.9			Talk
WSJK Tuscola	93.5			Sports
WDWS Champaign	93.9			News/Talk
WLRW Champaign	94.5			Hot AC
WJEK Rantoul	95.3	F		Religious
WLHE Champaign	95.7			Religious
WQQB Rantoul	96.1			Top 40
WIXY HD2 Champaign	96.9			Rock
WHMS Champaign	97.5	F		Light Rock, Fighting Illini
WLRW HD2 Champaign	97.9	F		Oldies
WPEO Farmer City	98.3	F		Religious
WWVR Paris	98.5			Classic Rock
CCRCC Field	98.7	F		Special events
WYXY Savoy	99.1			Classic Country
WIXY HD3 Champaign	99.7			Adult Contemporary
WIXY Champaign	100.3			Country
WILL Urbana	101.1	F		Classical
WBNQ Bloomington	101.5			Top 40
WDNL Danville	102.1			Hot AC
WGNN Fisher	102.5			Religious
WSOY Decatur	102.9			Top 40
WGNN Champaign	103.9	f		Religious
WRFU Urbana	104.5			Variety
WPXN Paxton	104.9			Classic Hits
WCZQ Monticello	105.5			Hip Hop
WGKC Mahomet	105.9	F		Country
WPGU Urbana	107.1	F		Alternative
WKIO Arcola	107.9	F		Classic Hits, Bob & Tom 5-9am

<https://radio-locator.com/cgi-bin/locate?select=city&city=Champaign&state=IL>

Champaign County Scanner Reference List

Name	Frequency	Type/Tone	Mode	Notes
METCAD - county	155.04	131.8	FMN	Fire Dispatch
Co Sheriff	453.3	RM	DMR	jail satellite & downtown
Co Sherrif	453.5125	RM	DMR	jail
Co Sheriff	453.725	M, 118.8 PL	FMN	Juvenile Detention
Forest Preserve	151.145	M, 79.7 PL	FMN	Lake of the Woods
ESDA	45.56	BM, 103.5 PL	FM	
ESDA	154.07	RM, 131.8 PL	FMN	Siren Activation
EMS Dispatch	462.95	RM, 186.2 PL	FMN	Back-Up
EMS Dispatch	155.115	M, CSQ	FMN	Mobile
EMS Dispatch	151.3475	BM, 118.8 PL	FMN	Arrow Ambulance dispatch paging
EMS Dispatch	159.09	RM 88.5 PL	FMN	Arrow Ambulance
EMS Dispatch	462.975	RM, 179.9 PL	FMN	Arrow Backup/ Airlife Paging
EMS Dispatch	453.175	RM, 306 DPL	FMN	Arrow Douglas
Hospital	155.34	BM, 186.2 PL	FMN	Patient Reports Carle
Illini EMS	158.865	M, CSQ	FMN	talkabout (football games)
Fisher ESDA	155.88	BM,	FMN	
CornBelt Fire Dispatch	154.25	B, 131.8 PL	FMN	
Mahomet ESDA Local	155.865	BM, 131.8 PL	FMN	
Mahomet ESDA UHF	453.1625	RM,	FMN	No License
Mahomet Public Works	155.865	BM, CSQ	FMN	water/sewer/ESDA local
Mahomet GPS	453.3125	BM<	Telm	water/sewer: GPS/Digital
Mahomet Data	956.28125	F,	Telm	
Mahomet Schools	464.025	RM,	DMR	Buses/ Ops/Admin vairious tones
Parkland Maintenance	453.575	RM, 151.4 PL	FMN	
UI Abbott	453.5875	DMR (TRBO)	T	101 Maint, 102 Ops, 103 Ops
METCAD	851.0625			
METCAD	851.55			
METCAD	851.8			
METCAD	852.1			
Willard Tower	120.4			
Willard Tower	229.4			
Willard Tower	127.825			0600-2300
Willard Approach/Departure13	121.35			
Willard Ground	121.8			0600-2300
Willard Emergency	121.5			
Willard Emergency	243			
Willard Weather	119.025			

<https://www.radioreference.com/db/browse/ctid/600>

PL Tone/DCS /CTCSS Codes block concurrent transmissions

Generic FCC Bands 4/26/2024

E=Amateur Extra, A=Advanced, G=General, T=Tech, N=Novice.				HackRF One=1MHz-6GHz*
Band	Low	Hi	License	Notes
2,200M HAM Band (135 kHz)	135.7 kHz	137.8 kHz	E A G	1W max, 3-30=VLF, 30-300k=LF
630M HAM Band (472 kHz)	472 kHz	479 kHz	E A G	5W max, 1W by USSR, 300k-3M=MF
Medium Wave (AM)	500 kHz	1.6 MHz		AM Radio (SDR++ or #) *
80M HAM Band (3.5MHz)	3.5 MHz	3.95 MHz	E A G N T	N T 3.525-3.6 MHz @ 200W
60M HAM Band (5.3 MHz)	5.332 MHz	5.405 MHz	E A G	CW @ 100W
20M HAM Band (14 MHz)	14 MHz	14.35 MHz	E A G	3MHz-30MHz=HF
15M HAM Band (21 MHz)	21 MHz	21.5 MHz	E A G	N T 21.025-21.2 @ 200W
12M HAM Band (24 MHz)	24.89 MHz	24.99 MHz	E A G	
Short Wave Broadcast Band	9.4 MHz	9.9 MHz		
"	11.6 MHz	12.1 MHz		
"	15.1 MHz	15.8 MHz		
"	17.5 MHz	17.9 MHz		
"	21.5 MHz	21.9 MHz		
"	25.7 MHz	26.1 MHz		
CB	26.9 MHz	27.4 MHz		26.985 CB ch3, AM-4W, SSB-12W
10M HAM Band (28 MHz)	28 MHz	29.7 MHz	E A G N T	N T 28.0-28.5 @ 200W
6M HAM Band (50 MHz)	50 MHz	54 MHz	E A G T	30MHz-300MHz=VHF
FM Broadcast	87.5 MHz	107.9 MHz		FM Radio (SDR++ or #)
2M HAM Band	144 MHz	148 MHz	E A G T	
Air Band VOR/ILS	108 MHz	118 MHz		
Air Band Voice	118.2 MHz	137 MHz		Willard Tower 120.4 (SDRangel)
Polar Orbiting Satellites	137 MHz	138 MHz		
Marine	156 MHz	162 MHz		
NOAA Weather 11 Channels	161.65 MHz	162.55 MHz		
TV Channels 7 - 13	174 MHz	216 MHz		
1.25M HAM Band (upper)	222 MHz	225 MHz		
Military Air	225 MHz	380 MHz		
Military Sat	240 MHz	270 MHz		
70 CM HAM Band (420 MHz)	420 MHz	450 MHz	E A G T	300MHz-3GHz=UHF
FRS/GMRS	462 MHz	468 MHz		1-7 2W 5W, 8-14 .5W, 15-22 2W 50W
TV Channels 14 - 20	470 MHz	512 MHz		462.6125 FM FRS/GMRS3 Rx & Tx
TV Channels 21 - 36	512 MHz	608 MHz		462.600 FM GMRS17 RPT Rx, 467.6 Tx
TV Broadcasting	614 MHz	698 MHz		462.675+5 FM GMRS-R20 Rx, 467._ Tx
33 CM HAM Band	902.0 MHz	928.0 MHz	E A G T	
23 CM HAM Band	1240 MHz	1300 MHz	E A G T	
"	1270 MHz	1295 MHz	N	novice 5W
All licenses & modes allowed except novices in these frequency ranges				
2.30 - 2.31 GHz	47.0 - 47.2 GHz			3GHz-30GHz=SHF
2.39 - 2.45 GHz	76.0 - 81.0 GHz			30GHz-300GHz=EHF
3.30 - 3.50 GHz	122.25 - 123.0 GHz			
5.65 - 5.925 GHz *	134 - 141 GHz			
10.0 - 10.5 GHz	241 - 250 GHz			
24.0 - 24.25 GHz	275 GHz -			no upper limit above 275 GHz

wavelength=300/frequency (MHz)

3-3-3 Plan For Grid Down Situations

Listen/Call Every 3 Hours (12,3,6,9), For 3 Minutes, Channel 3

Service	Name	MHz, Mode	Descript	Notes
FRS UHF	FRS 3	462.6125 FM	prepper	
GMRS UHF	GMRS 17	462.600 FM	survival	
GMRS UHF	GMRS 20	462.675+ FM	repeater	PL141.3RPTR+5MHz
PMR UHF	PMR 3	446.03125 FM	prepper	
MURS VHF	MURS 3	151.940 FM	prepper	
CB AM	CB 3AM	26.985 AM	prepper	
CB AM	CB 9AM	27.065 AM	safety	Highway Safety
CB SSB	CB 36U	27.365 USB	survival	
CB SSB	CB 37U	27.375 USB	prepper	
CB FREEBAND	FB368U	27.368 USB	survival	
CB FREEBAND	FB378U	27.378 USB	prepper	
CB FREEBAND	FB425U	27.425 USB	survival	
LOWBAND VHF	LOW 334	33.400 FM	survival	
HAM UHF	HAM U3	446.030 FM	prepper	
HAM VHF	HAM 42	146.420 FM	prepper	
HAM VHF	HAM 52	146.520 FM	HAM	calling, no PL
HAM VHF	HAM 55	146.550 FM	survival	Bug Out Channel (BOC)
HAM HF	HAM 10M	28.305 USB	prepper	
HAM HF	HAM20M	14.242 USB	prepper	
HAM HF	HAM40M	7.242 LSB	prepper	prepper nets
HAM HF	HAM60M	5.357 USB	survival	survival nvis
HAM HF	HAM80M	3.818 LSB	prepper	prepper nets
LAND SAR VHF	SAREMT	155.160 FM		search & rescue
MARINE VHF	MAR 16..	156.800 FM	safety	calling
MARINE VHF	MAR 72..	156.625 FM	prepper	

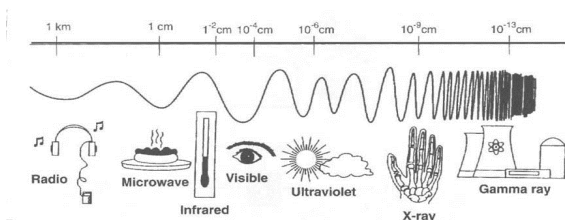
<https://radiofreeq.wordpress.com/2013/07/15/3-3-3-radio-plan-for-shtf-communications/>

3 hours of rest in a survival situation is good.

Average person walks 8 miles in 3 hours.

Fort Collins TIME broadcast station WWV on 2.5, 5, 10, 15, 20 & 25 MHz AM (various antenna's)

Illinois is UTC -5 (UTC -6 during Standard Time, 1st Sunday in November to 2nd Sunday in March)



1km = 300kHz radio

1cm = 30GHz microwave

1(-2)cm = 3THz infrared

10(-4)cm = 300THz visible

10(-6) = 30PHz Petahertz ultraviolet

10(-9)=30EHZ Exahertz x-ray

10(-13)cm = 300ZHz Zettahertz gamma ray

wavelength=300/frequency (MHz)