

FCC Services Showing Spectrum Need Trend and Possible Data Sources

47 CFR Part	Subpart	Service Title	Spectrum Need: Growing (↑) Steady (-) Declining (↓)	Is data available on spectrum usage/need	Challenges or issues collecting data on spectrum usage/need	Possible data sources (considering potential for compatibility analyses w/Fed Operations)
15 Radio Frequency Devices (Growing/greater sharing)						
	B.	Intentional Radiators	-	?		
	D.	UPCS	-			
	E.	U-NII (including WiFi)	↑	Y	Lots of data, multiple sources	Industry data & reports
	F.	UWB	-	?	Sources?	UWB Alliance
	G.	Access BPL	↓			
	H.	TVWS	↑	Y	Data may be embedded in other data sources. Limited deployments.	TVWS DBAs, Microsoft, industry reports
22 Public Mobile Services (Stable)						
	E.	Paging and Radiotelephone	-		Lots of data, multiple sources, third-party data sources	ULS
	F.	Rural Radiotelephone	-		Lots of data, multiple sources	ULS
	G.	Air-Ground Radiotelephone Service	-		Lots of data, multiple sources	ULS
	H.	Cellular Radiotelephone Service	-		Lots of data, multiple sources	ULS
	I.	Offshore Radiotelephone Service	-		Lots of data, multiple sources	ULS
24 Personal Communications Services (Stable)						
	D.	Narrowband PCS	-	?		
	E.	Broadband PCS	↑	Y	Multiple commercial licensees, data may be considered commercially sensitive, third-party	ULS, multiple commercial licensees
25 Satellite Communications						
		Broadcast (Static)	-			
		Mobile (Growing)	↑	Y	?	ULS, EAS filings (research), ITU (spectrum needs docs)
		Fixed (Growing)	↑	Y	?	IBFS
27 Miscellaneous Wireless Communications Services (Growing/greater sharing)						
	I.	1.4 GHz Band	- (?)	Y	Ongoing regulatory activity	ULS (no active licenses)
	J.	1670-1675 MHz Band	↑ (?)	Y		ULS (one nationwide licensee)
	K.	AWS-H Block (1915-1920 MHz and 1995-2000 MHz)	↑ (?)	Y		ULS (one nationwide licensee)
	L.	AWS-3 (1695-1710 MHz, 1755-1780 MHz, 2155-2180 MHz)	↑	Y	Multiple commercial licensees, data may be considered commercially sensitive	ULS, multiple commercial licensees, industry reports
		AWS-1 (1710-1755 MHz, 2110-2155 MHz)	↑	Y	Multiple commercial licensees, data may be considered commercially sensitive	
		AWS-4 (2000-2020 MHz, 2180-2200 MHz)	↑ (?)	Y	Data may be considered commercially sensitive	ULS (one nationwide licensee)
	M.	Broadband Radio Service (BRS)	↑	Y	Multiple commercial licensees, data may be considered commercially sensitive	ULS, multiple commercial licensees, industry reports
		Educational Broadband Service (EBS)	↑	Y	Multiple commercial licensees, data may be considered commercially sensitive	ULS, multiple commercial licensees, industry reports
	N.	600 MHz Band	↑	Y	Multiple commercial licensees, data may be considered commercially sensitive	ULS, multiple commercial licensees, industry reports
30 Upper Microwave Flexible Use Service (Stable)						
			↑	Y	Multiple commercial licensees, data may be considered commercially sensitive	ULS, multiple commercial licensees, industry reports
73 Radio Broadcast Services (Stable)						
	A.	AM Broadcast Stations	-			
	B.	FM Broadcast Stations	-			
	E.	Television Broadcast Stations	↓			
	F.	International Broadcast Stations	-			
	G.	Low Power FM Broadcast Stations (LPPM)	-			
74 Experimental Radio, Auxiliary, Special Broadcast and Other Program Distributional Services (Stable)						
	D.	Remote Pickup Broadcast Stations	-			
	E.	Aural Broadcast Auxiliary Stations	-			
	F.	Television Broadcast Auxiliary Stations	-			
	G.	Low Power TV, TV Translator, and TV Booster Stations	-			
	H.	Low Power Auxiliary Stations	-			
	L.	FM Broadcast Translator Stations and FM Broadcast Booster Stations	-			
76 Multichannel Video and Cable Television Service (Stable)						
			-			
78 Cable Television Relay Service (Stable)						
			-	?		COALS
80 Maritime Services (Stable)						
			-	?		
87 Aviation Services (Growing)						
		UAS	↑	?		
90 Private Land Mobile Radio Services (Stable)						
	B.	Public Safety Radio Pool	-			
	C.	Industrial/Business Radio Pool	-			
	F.	Radiolocation Service	-			
	M.	Intelligent Transportation Systems Radio Service	-			
	Y.	4940-4990 MHz Band (Stable)	-			
	Z.	3650-3700 MHz Band (Shrinking)	↓			

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95	Personal Radio Services (Shrinking)					
	B.	Family Radio Service (FRS)	-			
	C.	Radio Control Radio Service	-			
	D.	CB Radio Service	-			
	E.	General Mobile Radio Service	-			
	F.	218-219 MHz Service	-			
	G.	Low Power Radio Service	-			
	H.	Wireless Medical Telemetry Service	↑	Y	Registration database managed by AHA. Additional data may be considered commercially sensitive	AHA, OEMs
	I.	Medical Device Radio Communications Service (Stable)	-			
	J.	Multi-Use Radio Service	-			
	K.	Personal Locator Beacons and Maritime Survivor Locating Devices	-			
	M.	The 76-81 GHz Band Radar Service	↑	Y		
96	Citizens Broadband Radio Service (Growing)		↑	Y	Multiple commercial licensees, data may be considered commercially sensitive	SASs
97	Amateur Radio Service (Shrinking)		↓			
101	Fixed Microwave Services (Shrinking)					
	G.	24 GHz Service and Digital Electronic Message Service	↓			
	H.	Private Operational Fixed Point-to-Point Microwave Service	-	Y	Multiple commercial licensees, data may be considered commercially sensitive	ULS, multiple commercial licensees, industry reports
	I.	Common Carrier Fixed Point-to-Point Microwave Service	-	Y	Multiple commercial licensees, data may be considered commercially sensitive	ULS, multiple commercial licensees, industry reports
	J.	Local Television Transmission Service	-			
	L.	Local Multipoint Distribution Service	↓			
	O.	Multiple Address Systems	↓	Y	Multiple commercial licensees, data may be considered commercially sensitive	ULS, multiple commercial licensees, industry reports