

Comparisons of AM Reception - December 21, 2024

Frequency	Station	HD	Location	D-109WB	DX-286	PL-320	PL-310ET	PL-380
560	KLZ	HD	Denver	5	5	5	5	5
590	KCSJ		Pueblo	2	2	2	1	0.5
600	KCOL		Wellington	3	3	3	3	3
630	KHOW		Denver	5	5	5	5	5
650	KGAB		Cheyenne, WY	3	4	4	4	4
670	KLTT	HD	Commerce City	5	5	5	5	5
710	KNUS		Denver	5	5	5	5	5
730	KLOE		Goodland, KS	1	1	1	0.5	0.5
740	KVOR		Colorado Springs	3	3	3	3	3
760	KDFD		Thornton (Denver)	5	5	5	5	5
780	KJME		Fountain (C.S.)	0.5	0.5	0.5	0.5	0
790	KXXX		Colby, KS	0.5	0.5	0.5	0.5	0.5
810	KLVZ	HD	Brighton (Denver)	5	5	5	5	5
830	spurious							
850	KOA		Denver (old I-A)	5	5	5	5	5
870	KJMP		Pierce (Greeley)	1	2	2	1	1
910	KPOF	HD	Denver	5	5	5	5	5
930	KRKY		Granby (Grand Co.)					
950	KKSE		Parker-Denver	5	5	5	5	5
990	KRKS		Denver	5	5	5	5	5
1010	KSIR		Brush (Ft. Morgan)	3	4	4	3	3
1040	KPPF		Monument (C.S.)	0.5	0.5	0.5	0.5	0.5
1060	KRCN		Longmont	5	5	4	5	4
1090	KMXA		Aurora	5	5	5	5	5
1120	KCRN		Limon	4	4	4	4	4
1150	KNRV		Englewood (Denver)	5	5	5	5	5
1170	KJJD		Windsor (Longmont)	2	2	3	3	3
1190	KVCU		Boulder	3	3	3	3	3
1220	KLDC	HD	Denver	5	5	5	5	5
1240	KRDO/KFBC		Colorado Springs+Cheyenne,WY	0.5	0.5	0.5	0.5	0
1280	KBNO		Denver	5	5	5	5	5
1300	KCSF		Colorado Springs	0.5	0	0.5	0.5	0.5
1310	KFKA		Greeley	3	3	3	3	3
1340	KDCO		Denver	5	5	5	5	5
1360	KHNC		Johnstown (Loveland)	3	3	3	3	3
1390	KGNU		Denver	5	5	5	5	5
1430	KAMP		Aurora	5	5	5	5	5
1450	KGRE		Greeley	0.5	0.5	0.5	0.5	0.5
1460	KZNT		Colorado Springs	0	0.5	0.5	0	0.5
1490	KCFC		Boulder	1	2	2	1	2
1510	KPLS		Littleton (Denver)					
1530	KQSC		Colorado Springs	0	0.5	0.5	0	0.5
1550	KKCL		Golden (on STA)					
1570	KXJJ		Loveland	0.5	0.5	0.5	0.5	0.5
1580	KFCS		Colorado Springs	0.5	0.5	0.5	0.5	0.5
1600	KEPN		Lakewood (Denver)	4	5	5	5	5
1630	KVAM		Fox Farm (Cheyenne), WY					
1650	KBJD		Denver	5	5	5	5	5
1690	KDMT		Arvada (Denver)	5	5	4	4	4
			Total (est. error ± 3)	140	145.5	145	140.5	140
			Average	3.2	3.3	3.3	3.2	3.2

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	Quality is ranked on a scale of 1..5. "0.5" means there was a trace of a signal but nothing that would be considered truly audible.							
Quality Scale								
1	Very noisy but readable							
2	A little less noisy							
3	Readable with some noise							
4	A small amount of noise							
5	Quiet, strong local signal							
Radio Models:								
D-109WB	XHDATA D-109WB							
DX-286	Qodosen DX-286							
PL-320	Tecsun PL-320							
PL-310ET	Tecsun PL-310ET							
PL-380	Tecsun PL-380							
Additional Notes:								
1) Audio bandwidth of 3 kHz used, except for the Tecsun PL-320, where a 3.5 kHz bandwidth was used.								
2) Internal antennas ("barefoot" operation) used for all radios.								
3) The weather was quiet and unusually warm for this date.								
4) Reception was outdoors between 2:30 and 3:30 pm. Toward 3:30 pm there appeared to be some enhancement at 1490 kHz and above as skywave started kicking in.								
5) KPLS (1510 kHz) was off the air.								
6) KKCL (1550 kHz) is on a low-power STA but I feel its actual status is questionable. It couldn't be received at all.								
7) Blank row indicate station on 930 that I felt would be unlikely to be received.								
Observed variability in signal evaluation may have several causes:								
1. Changes in atmospheric conditions from minute to minute, especially for fringe signals.								
2. Changes in antenna orientation. I could be more consistent about this.								
3. Perception: ultimately I'm attaching a number to an opinion, which tries to convert a qualitative approach into a quantitative one. Such an approach is not perfect. Lacking more sophisticated equipment for measurement, it's the best I can do and still may have some value.								
4. This evaluation was outdoors and used a 3 kHz bandwidth filter (except 3.5 kHz for the PL-320) which may have helped reception of weak signals compared to indoor reception.								