

University Of Wyoming  
Rawlins 210

REFERENCE  
41 40 46.0 N.  
107 14 08.0 W.

CH# 210C3 - 89.9 MHz, Pwr= 2 kw, HAAT= 300.6 M, COR= 2495 M  
Average Protected F(50-50)= 36.41 km

DISPLAY DATES  
DATA 10-09-07  
SEARCH 10-09-07

CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* in km)
211C2 Hayden	KHCO	LIC _VX CO	163.3 343.6	142.35 BLED20050819AEB	40 27 04.0 106 45 06.0	1.900 518	69.8 3136	45.8 Educational Media Foundati	34.28	39.09
211C2 Hayden	KHCO	CP _VX CO	163.3 343.6	142.35 BPED20060926ALE	40 27 04.0 106 45 06.0	1.800 522	69.4 3140	45.5 Educational Media Foundati	34.68	39.38
212C Casper	KCSP-FM	LIC _CN WY	32.7 213.3	140.59 BLED19921013KA	42 44 24.0 106 18 23.0	100.000 587	12.8 2554	88.3 Western Inspirational Broa	85.78	49.39
209C0 Loveland	KXWA	CP _EX CO	125.8 307.1	198.89 BPED20050816ABA	40 37 03.0 105 19 40.0	80.000 372	110.6 2561	75.1 Way-fm Media Group, Inc.	53.69	71.94
209C1 Loveland	KXWA	LIC _EX CO	125.8 307.1	198.89 BLED20050510ADD	40 37 03.0 105 19 40.0	36.000 372	97.7 2561	66.9 Way-fm Media Group, Inc.	66.55	80.11
06+2E Casper	KPTW	CP DHN WY	31.2 211.7	138.30 BPET19960624KT	42 44 26.0 106 21 34.0	0.331 536	2501	34.0 Central wyoming college	64.8R	73.5M
213C0 Rock Springs	KUWZ	LIC _CX WY	260.5 79.3	159.80 BLED20060213ADF	41 25 39.0 109 07 17.0	35.000 512	9.2 2680	76.9 University Of Wyoming	120.32	80.38
211A Laramie	KUWL	CP _CX WY	104.9 286.1	154.27 BPED19980826MK	41 18 36.0 105 27 17.0	0.090 314	33.6 2718	21.9 University Of Wyoming	86.04	80.40
207C2 Steamboat Springs	KLBV	CP _VX CO	163.3 343.6	142.35 BPED20060926ALF	40 27 04.0 106 45 06.0	2.600 528	3.3 3146	49.3 Educational Media Foundati	100.80	90.27
207C2 Steamboat Springs	KLBV	LIC _VX CO	163.3 343.6	142.35 BLED20050819AEA	40 27 04.0 106 45 06.0	2.600 518	3.3 3136	48.8 Educational Media Foundati	100.80	90.83
208C Ethete	KWRR	LIC _CX WY	338.7 158.0	212.70 BLED20021007AAE	43 27 30.0 108 11 39.0	85.000 555	15.9 2330	100.0 Business Council Of The No	159.16	109.98

Terrain database is USGS 03 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM  
ERP and HAAT are on direct line to and from reference station.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

## HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "**\* IN \***" is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of contour overlap. Listed antenna heights and power are the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "**\* OUT \***" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap.

Under the "AZIMUTH" column, the first row of numbers indicate the True North bearings from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station.

The columns labeled "INT" and "PRO" contain the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships and relationships with commercial channel stations the minimum spacings the "IN" and "OUT" columns change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The call letters of stations meeting the minimum separation distances will be flagged by the characters "<<" appended to the end of the call letters. The "^" character appended to the call letters means the station has been "max-classed" according to the provisions of section 73.525 of the Rules.

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N" or left blank.