

Interference to WHA-DT from WMTV-DT CP
and Proposed WMTV-DT CP

WHA-DT.C (20) Madison, WI
TV Incoming Interference Study
Signal Resolution: 1.5 km
Consider NTSC Taboo: Yes
KWX error points are considered to
be interference free coverage.
of radials computed for contours: 360
Contours calculated using 8 radial HAAT.
LR Profile Spacing Increment: 0.1 km
Interference considered within the
reference station's noise limited contour.
Threshold for reception: 39.357

Study Date: 2/23/2004
TV Database Date: 02-07-04

Population Database: 2000 US Census (SF1)

Percentages calculated using a baseline population of 1,094,376.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
KWKB (20-)	684	1492	0.136	125.41
WYCC.C (20Z)	2680	5983	0.547	180.63
WICS (20+)	115	296	0.027	14.25
WOTV-D (20)	0	0	0.000	2.00
KSMQ-D.C (20)	969	2094	0.191	163.80
WMTV-D.C (19)	487	1252	0.114	84.47
WHRMTV (20+)	3454	6338	0.579	436.41
WHATV (21-)	83	189	0.017	24.14
WOTV-D (20)	0	0	0.000	2.00
WMTV-D (19)	487	1252	0.114	84.47
WMTV-DTP (19)	662	1688	0.154	106.59

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
KWKB (20-)	1492	0.136	407	0.037
WYCC.C (20Z)	5983	0.547	3010	0.275
WICS (20+)	296	0.027	0	0.000
WOTV-D (20)	0	0.000	0	0.000
KSMQ-D.C (20)	2094	0.191	207	0.019
WMTV-D.C (19)	1252	0.114	0	0.000
WHRMTV (20+)	6338	0.579	2888	0.264
WHATV (21-)	189	0.017	4	0.000
WOTV-D (20)	0	0.000	0	0.000
WMTV-D (19)	1252	0.114	0	0.000

WMTV-DTP (19) 1688 0.154 44 0.004

Stations considered which do not cause interference:

WOTV-D (20)
WXOWTV (19+)
WIWB-D.C (21)
WOTV-D (20)
KSMQTV-D (20)

Stations which were not considered:

WHATV-D (20)

Call Letters	City	State	Dist	Bear
KWKB (20-)	Iowa City	IA	210.4	226.0
WYCC.C (20Z)	Chicago	IL	203.0	128.6
WICS (20+)	Springfield	IL	361.1	179.0
WOTV-D (20)	Battle Creek	MI	336.8	97.8
KSMQ-D.C (20)	Austin	MN	251.1	286.1
WMTV-D.C (19)	Madison	WI	4.0	98.1
WXOWTV (19+)	Lacrosse	WI	170.2	300.0
WHRMTV (20+)	Wausau	WI	207.6	356.6
WHATV (21-)	Madison	WI	0.0	0.0
WIWB-D.C (21)	Suring	WI	189.3	40.9
WOTV-D (20)	BATTLE CREEK	MI	336.8	97.8
KSMQTV-D (20)	AUSTIN	MN	289.3	285.0
WMTV-D (19)	MADISON	WI	4.0	98.1
WHATV-D (20)	MADISON	WI	0.0	0.0
WMTV-DTP (19)	Madison	WI	4.0	98.1

Totals for WHA-DT.C (20)

Calculation Area Population:	1,096,664	(22062.6 sq. km)
Not Affected by Terrain Loss:	1,094,376	(21908.6 sq. km)
Total NTSC Interference:	10,145	(610.0 sq. km)
DTV Only Interference:	1,710	(120.6 sq. km)
Total DTV Interference:	3,407	(268.4 sq. km)
Interfered Population:	11,855	(730.6 sq. km)
Interference Free:	1,082,521	(21177.9 sq. km)

Percent Interference: 1.08

Terrain Blocked Population:	2,288	(154.0 sq. km)
Contour Area Population:	1,097,385		