

INTERFERENCE ANALYSIS FOR PROPOSED WPXD-TV ANN ARBOR, MI (CHANNEL 24)

tvstudy v2.2.3 (Dxtpx3)

Database: localhost, Study: wpxd24m1, Model: Longley-Rice

Study build station data: LMS TV 2017-10-22 (39)

Proposal: WPXD24M1 D24 DT APP ANN ARBOR, MI
File number: wpxd24m1
Facility ID: 5800
Station data: User record
Record ID: 1159
Country: U.S.

Search options:

Non-U.S. records included

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WNWO-TV	D23	DT	CP	TOLEDO, OH	BLANK0000024772	90.8 km
WNWO-TV	D23	DT	APP	TOLEDO, OH	BLANK0000033631	90.8
WNWO-TV	D23	DT	BL	TOLEDO, OH	DTVBL73354	90.8
WPTA	D24	DT	LIC	FORT WAYNE, IN	BLCDT20031031AGU	218.3
WCML	D24	DT	LIC	ALPENA, MI	BLEDT20110707ABQ	302.8
WTLJ	D24	DT	LIC	MUSKEGON, MI	BLANK0000001674	217.9
WEAO	D24	DT	CP	AKRON, OH	BLANK0000026421	208.8
WEAO	D24	DT	BL	AKRON, OH	DTVBL49421	208.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24

Latitude: 42 29 1.00 N (NAD83)

Longitude: 83 18 44.00 W

Height AMSL: 522.5 m

HAAT: 291.0 m

Peak ERP: 370 kW

Antenna: DIE-TFU-24GTH/VP-R C160 (SP) (ID 1001568) 0.0 deg

Elev Pattn: Generic

Elec Tilt: 0.8

39.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	102 kW	249.2 m	75.8 km
45.0	70.5	294.4	77.5
90.0	44.3	318.4	76.9
135.0	318	325.2	92.0
180.0	282	329.4	91.4
225.0	282	310.0	89.1
270.0	254	258.3	81.4
315.0	366	241.8	82.1

**Proposal service area extends beyond baseline plus 1.0%

Proposal service area population is more than 95.0% of baseline

**Proposal is within coordination distance of Canadian border

Distance to Canadian border: 27.3 km

Distance to Mexican border: 2144.3 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 274.5 degrees Distance: 216.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 269.3 degrees Distance: 1842.3 km

Study cell size: 1.00 km (Use of higher resolution cell size is requested.)

Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

ANN ARBOR, MI (CHANNEL 24)

Scenario comparisons

[illegible]

INTERFERENCE ANALYSIS FOR PROPOSED WPXD-TV ANN ARBOR, MI (CHANNEL 24)

Scenario comparisons

Case	Before		After		Percent New IX		
IX_DTVBL73354_BL_#4	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#5	18337.4	2,210,021	18325.4	2,199,595	0.07	0.47	
IX_DTVBL73354_BL_#5	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#6	18337.4	2,210,021	18325.4	2,199,595	0.07	0.47	
IX_DTVBL73354_BL_#6	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#7	18333.5	2,209,868	18321.5	2,199,442	0.07	0.47	
IX_DTVBL73354_BL_#7	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#8	18333.5	2,209,868	18321.5	2,199,442	0.07	0.47	
IX_DTVBL73354_BL_#8	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#9	18337.4	2,210,021	18325.4	2,199,595	0.07	0.47	
IX_DTVBL73354_BL_#9	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#10	18337.4	2,210,021	18325.4	2,199,595	0.07	0.47	
IX_DTVBL73354_BL_#10	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#11	18333.5	2,209,868	18321.5	2,199,442	0.07	0.47	
IX_DTVBL73354_BL_#11	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#12	18333.5	2,209,868	18321.5	2,199,442	0.07	0.47	
IX_DTVBL73354_BL_#12	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#13	18337.4	2,210,021	18325.4	2,199,595	0.07	0.47	
IX_DTVBL73354_BL_#13	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#14	18337.4	2,210,021	18325.4	2,199,595	0.07	0.47	
IX_DTVBL73354_BL_#14	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#15	18333.5	2,209,868	18321.5	2,199,442	0.07	0.47	
IX_DTVBL73354_BL_#15	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_DTVBL73354_BL_#16	18333.5	2,209,868	18321.5	2,199,442	0.07	0.47	
IX_DTVBL73354_BL_#16	1810.0	57,876	1810.0	57,876	0.00	0.00	(in Canada)
IX_BLCDT20031031AGU_	20098.3	1,075,964	20096.3	1,075,919	0.01	0.00	
IX_BLCDT20031031AGU_	20098.3	1,075,964	20096.3	1,075,919	0.01	0.00	
IX_BLEDT20110707ABQ_	25228.9	218,851	25197.8	218,622	0.12	0.10	
IX_BLANK0000001674_L	20939.6	1,574,217	20925.5	1,571,714	0.07	0.16	
IX_BLANK0000001674_L	20939.6	1,574,217	20925.5	1,571,714	0.07	0.16	
IX_BLANK0000026421_C	20564.1	3,827,714	20426.9	3,812,900	0.67	0.39	
IX_BLANK0000026421_C	20541.1	3,824,478	20404.8	3,809,682	0.66	0.39	
IX_BLANK0000026421_C	20564.1	3,827,714	20426.9	3,812,900	0.67	0.39	
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IX_BLANK0000026421_C	20541.1	3,824,478	20404.8	3,809,682	0.66	0.39	
IX_BLANK0000026421_C	20563.1	3,827,713	20425.9	3,812,899	0.67	0.39	
IX_BLANK0000026421_C	20540.1	3,824,477	20403.8	3,809,681	0.66	0.39	
IX_BLANK0000026421_C	20563.1	3,827,713	20425.9	3,812,899	0.67	0.39	
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Case		Before		After	Percent New IX	
IX_BLANK0000026421_C	20540.1	3,824,477	20403.8	3,809,681	0.66	0.39
IX_BLANK0000026421_C	20563.1	3,827,713	20425.9	3,812,899	0.67	0.39
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IX_BLANK0000026421_C	20540.1	3,824,477	20403.8	3,809,681	0.66	0.39
IX_BLANK0000026421_C	20565.1	3,827,732	20427.9	3,812,918	0.67	0.39
IX_BLANK0000026421_C	20542.1	3,824,496	20405.8	3,809,700	0.66	0.39
IX_BLANK0000026421_C	20565.1	3,827,732	20427.9	3,812,918	0.67	0.39
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IX_BLANK0000026421_C	20565.1	3,827,732	20427.9	3,812,918	0.67	0.39
IX_BLANK0000026421_C	20542.1	3,824,496	20405.8	3,809,700	0.66	0.39
IX_BLANK0000026421_C	20564.1	3,827,731	20426.9	3,812,917	0.67	0.39
IX_BLANK0000026421_C	20541.1	3,824,495	20404.8	3,809,699	0.66	0.39
IX_BLANK0000026421_C	20564.1	3,827,731	20426.9	3,812,917	0.67	0.39
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IX_BLANK0000026421_C	20564.1	3,827,731	20426.9	3,812,917	0.67	0.39
IX_BLANK0000026421_C	20541.1	3,824,495	20404.8	3,809,699	0.66	0.39
IX_BLANK0000026421_C	20564.1	3,827,731	20426.9	3,812,917	0.67	0.39
IX_BLANK0000026421_C	20541.1	3,824,495	20404.8	3,809,699	0.66	0.39
IX_BLANK0000026421_C	20564.1	3,827,731	20426.9	3,812,917	0.67	0.39
IX_DTIVBL49421_BL_#1	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTIVBL49421_BL_#2	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTIVBL49421_BL_#3	20593.1	3,827,803	2045			

Case		Before		After	Percent	New IX
IX_DTVBL49421_BL_#17	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#18	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#19	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41
IX_DTVBL49421_BL_#20	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#21	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41
IX_DTVBL49421_BL_#22	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41
IX_DTVBL49421_BL_#23	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#24	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#25	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#26	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#27	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#28	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#29	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#30	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#31	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#32	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#33	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#34	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#35	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#36	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#37	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41
IX_DTVBL49421_BL_#38	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#39	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41
IX_DTVBL49421_BL_#40	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41
IX_DTVBL49421_BL_#41	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#42	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#43	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41
IX_DTVBL49421_BL_#44	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#45	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41
IX_DTVBL49421_BL_#46	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41
IX_DTVBL49421_BL_#47	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#48	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41
IX_DTVBL49421_BL_#49	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#50	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#51	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#52	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#53	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#54	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#55	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#56	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#57	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#58	20593.1	3,827,803	20453.8	3,811,935	0.68	0.41
IX_DTVBL49421_BL_#59	20570.0	3,824,736	20430.8	3,808,868	0.68	0.41
IX_DTVBL49421_BL_#60	20570.0	3,824,736	2043			

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Scenario comparisons

Case		Before		After		Percent	New IX
IX_DTVBL49421_BL_#88	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41	
IX_DTVBL49421_BL_#89	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41	
IX_DTVBL49421_BL_#90	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41	
IX_DTVBL49421_BL_#91	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41	
IX_DTVBL49421_BL_#92	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41	
IX_DTVBL49421_BL_#93	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41	
IX_DTVBL49421_BL_#94	20594.1	3,827,807	20454.8	3,811,939	0.68	0.41	
IX_DTVBL49421_BL_#95	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41	
IX_DTVBL49421_BL_#96	20571.0	3,824,740	20431.8	3,808,872	0.68	0.41	