

WNHO-LD TV STUDY OUTPUT
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tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: WNHO-LD 3.4 kw ND (375' AGL WBYR Site), Model: Longley-Rice

Start: 2023.09.11 17:48:53

Study created: 2023.09.11 17:48:53

Study build station data: LMS TV 2023-09-10

Proposal: WNHO-LD D35- LD LIC Defiance, OH
Facility ID: 73389
Station data: User record
Record ID: 690
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WCPX-TV	D34	DT	LIC	CHICAGO, IL	BLANK0000087607	251.2 km
No	WISE-TV	D34	DT	LIC	FORT WAYNE, IN	BLANK0000064330	30.0
No	WIPX-LD	D34	LD	LIC	INDIANAPOLIS, IN	BLANK0000004295	162.3
No	WKBD-TV	D34	DT	LIC	DETROIT, MI	BLANK0000074932	214.3
No	WKEF	D34	DT	LIC	DAYTON, OH	BLANK0000204187	146.7
No	WGBO-DT	D35	DT	LIC	JOLIET, IL	BLANK0000124507	251.2
No	WTVP	D35	DT	LIC	PEORIA, IL	BLANK0000110583	395.8
No	WPBY-LD	D35	LD	LIC	LAFAYETTE, IN	BLANK0000058858	176.6
No	WBND-LD	D35	LD	LIC	SOUTH BEND, IN	BLANK0000086891	131.1
No	WTWO	D35	DT	LIC	TERRE HAUTE, IN	BLANK0000086897	285.6
No	WKLE	D35	DT	LIC	LEXINGTON, KY	BLANK0000087400	345.1
No	WUDL-LD	D35	LD	LIC	DETROIT, MI	BLANK0000090277	218.5

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No	WOLP-CD	D35	DC	LIC	GRAND RAPIDS, MI	BLANK0000141794	199.5
No	W35DQ-D	D35	LD	LIC	MIDLAND, MI	BLANK0000074730	265.1
No	WPBN-TV	D35	DT	LIC	TRAVERSE CITY, MI	BLANK0000087956	422.0
No	WVIZ	D35	DT	LIC	Cleveland, OH	BLANK0000082429	271.7
Yes	WPTD	D35	DT	LIC	DAYTON, OH	BLANK0000204180	147.2
Yes	WLMB	D35	DT	CP	TOLEDO, OH	BLANK0000185769	113.8
No	WTAP-TV	D35	DT	LIC	PARKERSBURG, WV	BLANK0000105709	333.6
No	WCCU	D36	DT	LIC	URBANA, IL	BLANK0000203559	274.1
Yes	WODP-LD	D36	LD	LIC	FORT WAYNE, IN	BLANK0000198707	27.1
No	WBXI-CD	D36	DC	LIC	INDIANAPOLIS, IN	BLANK0000088433	162.3
No	WHME-TV	D36	DT	LIC	SOUTH BEND, IN	BLANK0000216331	128.2
No	WAQP	D36	DT	LIC	SAGINAW, MI	BLANK0000096188	261.2
No	WQHS-DT	D36	DT	LIC	CLEVELAND, OH	BLANK0000079885	270.6
No	WRGT-TV	D36	DT	LIC	DAYTON, OH	BLANK0000217938	146.7
No	WMNT-CD	D36	DC	LIC	TOLEDO, OH	BLANK0000067041	137.3
No	CIII-DT-29	D35	DT	LIC	SARNIAOIL SPRINGS, ON	BLANKCANADA217	298.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35-
Mask: Full Service
Latitude: 40 57 14.00 N (NAD83)
Longitude: 84 53 7.00 W
Height AMSL: 358.3 m
HAAT: 0.0 m
Peak ERP: 3.40 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.00

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50.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.40 kW	123.6 m	37.7 km
45.0	3.40	124.9	37.8
90.0	3.40	120.5	37.5
135.0	3.40	110.4	36.7
180.0	3.40	107.5	36.4
225.0	3.40	110.1	36.6
270.0	3.40	109.5	36.6
315.0	3.40	116.2	37.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 115 m

Proposal 25.77 dBu contour does not cross Canadian border

Distance to Canadian border: 182.1 km

Distance to Mexican border: 1939.8 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 334.6 degrees Distance: 203.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 273.7 degrees Distance: 1716.2 km

Study cell size: 1.00 km

Profile point spacing: 1.00 km

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

Maximum new IX to LPTV: 2.00%

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Interference to BLANK0000204180 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WPTD	D35	DT	LIC	DAYTON, OH	BLANK0000204180			
Undesireds:	WNHO-LD	D35-	LD	LIC	Defiance, OH		147.2 km		
	WKEF	D34	DT	LIC	DAYTON, OH	BLANK0000204187	0.6		
	WTWO	D35	DT	LIC	TERRE HAUTE, IN	BLANK0000086897	274.7		
	WKLE	D35	DT	LIC	LEXINGTON, KY	BLANK0000087400	204.8		
	WVIZ	D35	DT	LIC	Cleveland, OH	BLANK0000082429	284.6		
	WLMB	D35	DT	CP	TOLEDO, OH	BLANK0000185769	225.8		
	WTAP-TV	D35	DT	LIC	PARKERSBURG, WV	BLANK0000105709	233.8		
	WRGT-TV	D36	DT	LIC	DAYTON, OH	BLANK0000217938	0.6		
	CIII-DT-29	D35	DT	LIC	SARNIAOIL SPRINGS, ON	BLANKCANADA217	376.3		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25502.8	3,424,665	25286.9	3,412,307	24754.7	3,360,698	24406.1	3,352,253	1.41	0.25

Undesired		Total IX	Unique IX, before		Unique IX, after	
WNHO-LD D35- LD LIC	442.5	9,803			348.6	8,445
WKEF D34 DT LIC	97.6	30,838	60.7	19,998	60.7	19,998
WTWO D35 DT LIC	48.0	5,135	21.9	3,559	19.9	3,537
WKLE D35 DT LIC	27.8	4,691	10.9	1,215	10.9	1,215
WVIZ D35 DT LIC	54.1	1,240	5.0	118	5.0	118
WLMB D35 DT CP	185.9	3,204	115.8	1,973	37.0	694
WTAP-TV D35 DT LIC	250.8	12,622	190.8	9,338	190.8	9,338
WRGT-TV D36 DT LIC	36.9	10,780	6.0	111	6.0	111
CIII-DT-29 D35 DT LIC	2.0	135	0.0	0	0.0	0

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Interference to BLANK0000204180 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPTD	D35	DT	LIC	DAYTON, OH	BLANK0000204180	
Undesireds:	WNHO-LD	D35-	LD	LIC	Defiance, OH		147.2 km
	WKEF	D34	DT	LIC	DAYTON, OH	BLANK0000204187	0.6
	WTWO	D35	DT	LIC	TERRE HAUTE, IN	BLANK0000086897	274.7
	WKLE	D35	DT	LIC	LEXINGTON, KY	BLANK0000087400	204.8
	WVIZ	D35	DT	LIC	Cleveland, OH	BLANK0000082429	284.6
	WLMB	D35	DT	BL	TOLEDO, OH	DTVBL17076	225.8
	WTAP-TV	D35	DT	LIC	PARKERSBURG, WV	BLANK0000105709	233.8
	WRGT-TV	D36	DT	LIC	DAYTON, OH	BLANK0000217938	0.6
	CIII-DT-29	D35	DT	LIC	SARNIAOIL SPRINGS, ON	BLANKCANADA217	376.3
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	25502.8	3,424,665	25286.9	3,412,307	24766.7	3,360,885	24411.1 3,352,389 1.44 0.25

Undesired	Total IX	Unique IX, before	Unique IX, after
WNHO-LD D35- LD LIC	442.5	9,803	355.6 8,496
WKEF D34 DT LIC	97.6	30,838	60.7 19,998
WTWO D35 DT LIC	48.0	5,135	21.9 3,559
WKLE D35 DT LIC	27.8	4,691	10.9 1,215
WVIZ D35 DT LIC	54.1	1,240	5.0 118
WLMB D35 DT BL	170.9	3,017	103.8 1,786
WTAP-TV D35 DT LIC	250.8	12,622	193.8 9,338
WRGT-TV D36 DT LIC	36.9	10,780	6.0 111
CIII-DT-29 D35 DT LIC	2.0	135	0.0 0 0.0 0

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Interference to BLANK0000185769 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLMB	D35	DT	CP	TOLEDO, OH	BLANK0000185769	
Undesireds:	WNHO-LD	D35-	LD	LIC	Defiance, OH		113.8 km
	WKBD-TV	D34	DT	LIC	DETROIT, MI	BLANK0000074932	100.7
	WGBO-DT	D35	DT	LIC	JOLIET, IL	BLANK0000124507	299.1
	WOLP-CD	D35	DC	LIC	GRAND RAPIDS, MI	BLANK0000141794	161.4
	WPBN-TV	D35	DT	LIC	TRAVERSE CITY, MI	BLANK0000087956	344.5
	WVIZ	D35	DT	LIC	Cleveland, OH	BLANK0000082429	197.8
	WPTD	D35	DT	LIC	DAYTON, OH	BLANK0000204180	225.8
	WMNT-CD	D36	DC	LIC	TOLEDO, OH	BLANK0000067041	41.7
	CIII-DT-29	D35	DT	LIC	SARNIAOIL SPRINGS, ON	BLANKCANADA217	187.2

	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	16973.6	1,577,693	16924.3	1,575,370	15906.7	1,515,966	15504.1	1,508,454
								2.53
								0.50

Undesired		Total IX	Unique IX, before	Unique IX, after
WNHO-LD D35- LD LIC	411.7	7,689	402.6	7,512
WKBD-TV D34 DT LIC	53.1	14,167	46.1	14,044
WGBO-DT D35 DT LIC	1.0	14	0.0	0
WOLP-CD D35 DC LIC	214.5	8,319	107.6	4,294
WPBN-TV D35 DT LIC	22.2	1,149	0.0	0
WVIZ D35 DT LIC	178.0	6,005	29.0	718
WPTD D35 DT LIC	74.7	3,052	35.5	1,306
WMNT-CD D36 DC LIC	671.5	34,265	624.2	32,997
CIII-DT-29 D35 DT LIC	28.1	1,339	1.0	154

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Interference to BLANK0000198707 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WODP-LD	D36	LD	LIC	FORT WAYNE, IN	BLANK0000198707	
Undesireds:	WNHO-LD	D35-	LD	LIC	Defiance, OH		27.1 km
	WHME-TV	D36	DT	LIC	SOUTH BEND, IN	BLANK0000216331	101.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3552.8	422,291	3551.8		421,745	3543.8	421,638	3536.9 421,580 0.20 0.01
Undesired				Total IX	Unique IX, before	Unique IX, after	
WNHO-LD D35- LD LIC		6.9		58		6.9 58	
WHME-TV D36 DT LIC		8.0		107	8.0 107	8.0 107	

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Interference to proposal scenario 1

2.46% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNHO-LD	D35-	LD	LIC	Defiance, OH		
Undesireds:	WISE-TV	D34	DT	LIC	FORT WAYNE, IN	BLANK0000064330	30.0 km
	WPTD	D35	DT	LIC	DAYTON, OH	BLANK0000204180	147.2
	WLMB	D35	DT	CP	TOLEDO, OH	BLANK0000185769	113.8
	WODP-LD	D36	LD	LIC	FORT WAYNE, IN	BLANK0000198707	27.1

Service area		Terrain-limited		IX-free		Percent IX	
4314.5	429,634	4314.5	429,634	4154.0	419,067	3.72	2.46

Undesired	Total IX	Unique IX	Prcnt Unique IX
WISE-TV D34 DT LIC	61.6 6,987	57.6 6,859	1.33 1.60
WPTD D35 DT LIC	1.0 76	0.0 0	0.00 0.00
WLMB D35 DT CP	101.9 1,320	97.9 1,192	2.27 0.28
WODP-LD D36 LD LIC	1.0 2,388	1.0 2,388	0.02 0.56