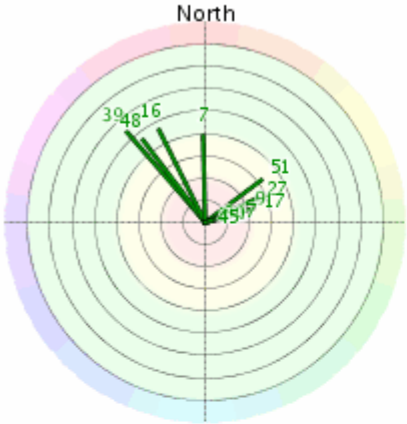
St Andrews Reception

Digital Only



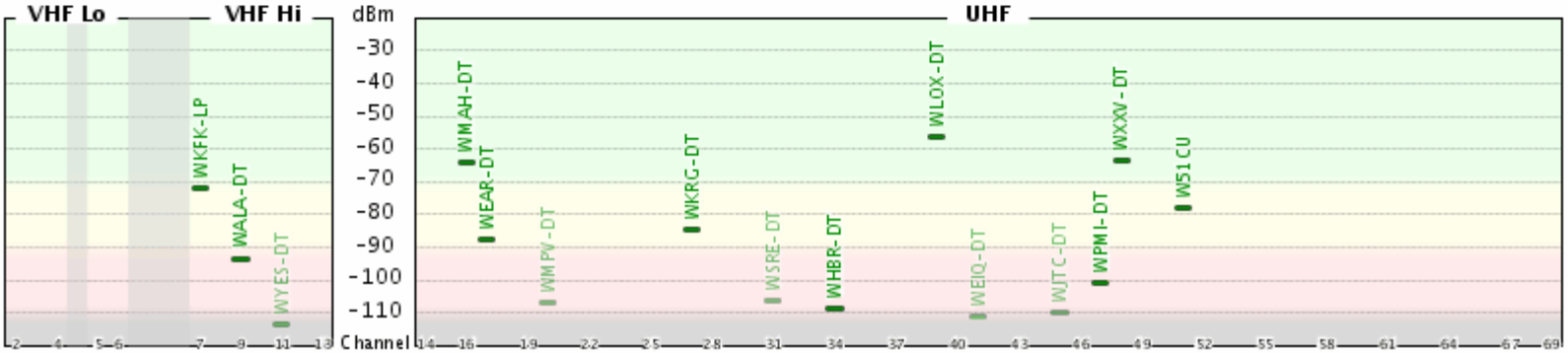
	Callsign	==Channel== Real	(Virt)	Network	=======Signal======= Xmit(kW)	Rx(dBm)	Path	Dist(mi)	Azimuth	==Height(ft)== -100dBm	LOS
	WLOX-DT	39	(13.1)	ABC	709.44	-56.2	LOS	34.6	318.9		6.0
	WXXV-DT	48	(25.1)	Fox	94.95	-63.4	LOS	34.6	323.1		8.9
	WMAH-DT	16	(19.1)	PBS	32.50	-64.1	LOS	31.5	333.6		11.3
	WKFK-LP	7	(7.1)		0.27	-71.7	LOS	9.6	358.4		4.1
	W51CU	51	(51.1)		1.87	-78.2	LOS	11.8	53.5	3.6	9.4
	WKRG-DT	27	(5.1)	CBS	864.46	-84.8	LOS	57.6	65.7	4.1	10.8
	WEAR-DT	17	(3.1)	ABC	1000.00	-87.6	1Edge	66.1	73.9	6.0	16.1
	WALA-DT	9	(10.1)	Fox	29.00	-93.3	2Edge	59.3	66.5	6.0	34.4
a	WPMI-DT	47	(15.1)	NBC	403.07	-100.7	2Edge	68.3	74.5	16.6	31.0
C	WSRE-DT	31	(23.1)	PBS	84.47	-106.2	2Edge	68.3	74.5	31.0	31.0
a C	WMPV-DT	20	(21.1)	Ind	57.68	-107.1	2Edge	68.3	74.5	43.5	43.5
	WHBR-DT	34	(33.1)	Ind	489.04	-108.7	2Edge	66.1	73.9	90.1	97.3
C	WJTC-DT	45	(44.1)	Ind	601.10	-109.7	2Edge	71.0	76.4	76.7	157.4
C	WEIQ-DT	41	(42.1)	PBS	199.00	-111.1	2Edge	53.3	66.1	79.5	258.3
a C	WYES-DT	11	(12.1)	PBS	62.26	-113.2	2Edge	78.8	249.8	138.7	547.2
C	WHMM-DT	42			362.99	-121.6	2Edge	77.7	250.8	446.7	539.9
a C	W14DE-D	14			12.66	-122.5	2Edge	66.1	73.9	232.4	103.6
a C	WWL-DT	36	(4.1)	CBS	957.80	-122.8	Tropo	85.0	248.9	463.1	769.7
	WDSU	43	(6.1)	NBC	1000.00	-122.8	Tropo	79.3	249.7	488.0	787.9
a C	WNOL-DT	40	(38.1)	CW	138.55	-124.7	2Edge	78.1	251.1	473.6	519.3
	WVUE-DT	29	(8.1)	Fox	204.76	-126.2	2Edge	78.8	249.8	450.6	631.3
a C	WUPL-DT	24	(54.1)	MyN	206.27	-129.1	Tropo	83.8	249.3	676.9	838.4

C = Co-channel warning a = Adjacent channel warning

Search Criteria

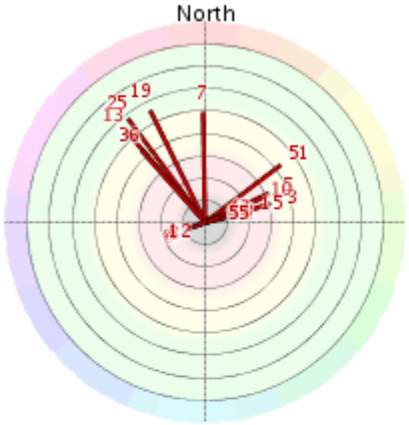
Lat: 30.35***
Lat: -88.71***

www.tvfool.com



St Andrews Reception

Analog Only



Search Criteria

Lat: 30.35***
Lat: -88.71***

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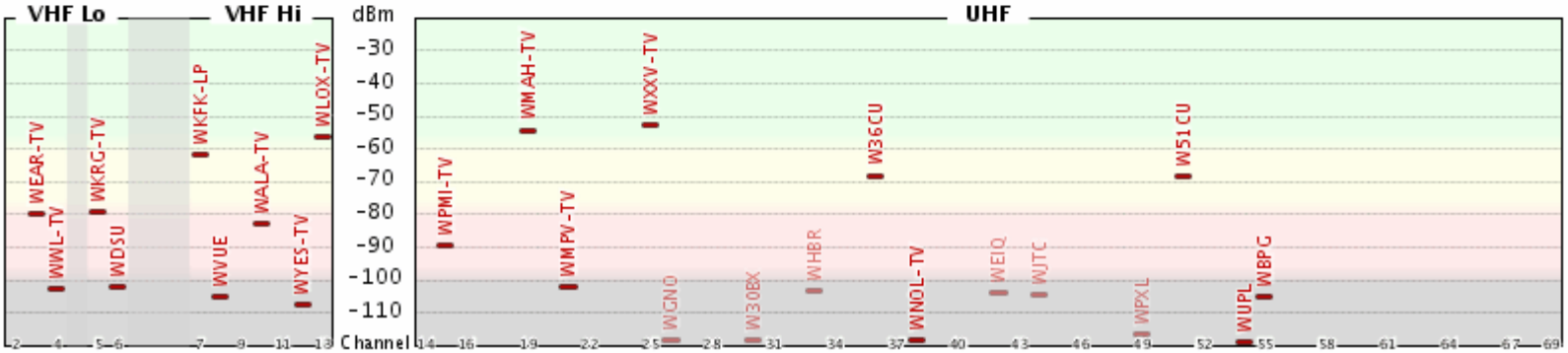
Callsign	Channel Real	Channel (Virt)	Network	Signal Xmit(kW)	Signal Rx(dBm)	Path	Dist(mi)	Azimuth	Height(ft) -100dBm	Height(ft) LOS
WXXV-TV	25		Fox	694.68	-52.8	LOS	34.6	323.1		8.4
WMAH-TV	19		PBS	344.10	-54.2	LOS	31.5	333.6		11.3
WLOX-TV	13		ABC	316.00	-56.2	LOS	34.6	318.9		5.5
WKFK-LP	7			2.73	-61.7	LOS	9.6	358.4		4.1
W36CU	36			105.37	-68.0	LOS	33.5	318.2		7.0
W51CU	51			19.22	-68.1	LOS	11.8	53.5		9.4
WKRG-TV	5		CBS	100.00	-79.4	LOS	57.6	65.7		8.4
WEAR-TV	3		ABC	100.00	-79.8	1Edge	66.1	73.9		16.6
WALA-TV	10		Fox	316.00	-83.0	2Edge	59.3	66.5		37.2
WPMI-TV	15		NBC	2840.18	-89.5	2Edge	68.3	74.5	6.0	27.6
WDSU	6		NBC	100.00	-101.8	2Edge	79.3	249.7	20.4	621.2
WMPV-TV	21		Ind	2126.37	-102.0	2Edge	70.9	76.4	24.3	193.0
WWL-TV	4		CBS	100.00	-102.6	2Edge	85.0	248.9	30.5	821.1
WHBR	33		Ind	1696.99	-103.2	2Edge	66.1	73.9	26.2	97.3
WEIQ	42		PBS	1170.00	-103.6	2Edge	53.3	66.1	43.0	265.5
WJTC	44		Ind	1989.63	-104.4	2Edge	71.0	76.4	25.2	157.4
WBPG	55		CW	3544.06	-104.7	2Edge	68.3	74.5	43.0	342.9
WVUE	8		Fox	316.00	-105.0	2Edge	78.8	249.8	44.9	558.2
WYES-TV	12		PBS	271.57	-107.2	2Edge	78.8	249.8	69.4	547.2
WPXL	49		i	5000.00	-116.7	Tropo	83.8	249.3	472.2	793.2
W30BX	30			44.45	-118.3	2Edge	46.5	59.0	251.1	334.3
WGNO	26		ABC	424.51	-118.3	2Edge	78.1	251.1	408.7	519.3
WNOL-TV	38		CW	573.32	-118.3	2Edge	78.1	251.1	408.7	519.3
WUPL	54		MyN	935.61	-119.0	2Edge	71.4	266.6	337.1	610.6
WHNO	20		Ind	1194.30	-121.1	Tropo	83.8	249.3	472.2	833.6
WLAE-TV	32		PBS	212.34	-122.0	2Edge	78.3	251.2	478.4	523.6
WRBM-LP	60			21.30	-123.0	2Edge	45.9	53.1	168.4	168.4
WBRZ-TV	2		ABC	100.00	-123.9	Tropo	148.2	268.7	---	---
WDAM-TV	7		NBC	316.00	-124.7	Tropo	83.9	335.9	815.3	---
WHLT	22		CBS	1200.00	-125.5	2Edge	79.7	336.8	715.4	---
WPAN	53		Ind	3024.00	-126.4	Tropo	102.5	87.9	---	---
WAFB	9		CBS	316.00	-129.6	Tropo	149.3	270.5	---	---

C = Co-channel warning a = Adjacent channel warning



The values under the "Rx(dBm)" column indicate how strong the signals are "in the air" at your location. These values indicate weaker signals as the numbers get lower (more negative). This is an estimated signal strength value in dBm units, which are typically negative for signals in this range (similar to how you can have negative values on a Celsius scale).

If you select the analog-only or digital-only display, the background color of each transmitter in the table will be color coded as follows:

Background color	**Expected performance**
green	These are quite strong and you will probably get a usable signal with an indoor (set-top) antenna, although you may need to be on the side of the house facing the transmitters.
yellow	These signals are not that strong and hence you may need a medium gain antenna on the second floor or attic to receive channels at this level and above.
red	These signals are weak and hence you may need a high gain antenna on the roof to receive channels at this level and above.
grey	These signals are quite weak, so you'll need to really work at it for any chance of reception.

Please understand that this is a simulation and can only be treated as a rough approximation. Reception at your location is affected by many factors such as multipath, antenna gain, receiver sensitivity, buildings, and trees - which are *not* taken into account. Your mileage may vary.

The table lists several technical details about the local transmitters, ranked from strongest to the weakest for the given location. The columns of the table are:

Callsign	These are the call letters that the FCC uses to uniquely identify broadcasters. Many broadcasters will have two entries for their call sign (one digital, one analog).
Channel	This is the broadcast channel for the station. For most digital channels, two channel numbers are listed. In the world of digital TV, the broadcast channel is usually aliased to a different channel to match a corresponding analog channel (e.g., a broadcast on channel 30 might appear as channel 4.1 to the user). However, since antenna selection really depends on the broadcast channel, it is more important to pay attention to the first number.
	This indicates the network affiliation of each broadcaster. The network names have been abbreviated as follows: PBS: Public Broadcasting Service

Network	ABC: American Broadcasting Company NBC: NBC Universal CBS: CBS Broadcasting, Inc. Fox: Fox Broadcasting Company CW: The CW Television Network MyN: MyNetworkTV Uni: Univision Tel: TeleFutura TEL: Telemundo Azt: Azteca America i: ION Television Ind: Independent
Xmit(kW)	This is the amount of power (in kilowatts) that the broadcaster is transmitting in your direction. Since many broadcasters use directional antennas to focus most of their broadcast energy into populated areas, this power level may be different than the raw power level shown by the FCC. This value has already been adjusted for your location according to the radiation pattern registered with the FCC.
Rx(dBm)	This is the predicted receiver signal strength of each channel at your location, specified in dBm.
Path	This indicates the path travelled by the signal to get from the transmitter to your location. LOS: Line-of-sight 1Edge: Single edge diffraction 2Edge: Double edge diffraction Tropo: Tropospheric scatter
Dist(mi)	Distance from your location to the transmitter, specified in miles.
Azimuth	Azimuth direction for the transmitter (0=North), relative to true north. The numbers have been color coded according to the transmitter direction for easier identification of channel clusters. Transmitters coming from approximately the same direction will have similar colors, matching the colors in the outer ring of the radar plot.
-100dBm	This is the estimated height necessary (at the given coordinates) in order to achieve a minimum signal level of -100dBm. This can be used to judge the severity of a terrain obstruction or as a hint for the construction of an antenna mast. This height is specified in feet above ground level.
LOS	This is the estimated height necessary (at the given coordinates) in order to reach the line-of-sight path of the transmitter. This can be used to judge the severity of a terrain obstruction. This height is specified in feet above ground level. Note that it is possible to have excellent TV reception even without line-of-sight access to the transmitter. This column is provided for informational

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Estimated Value of Magnetic Declination

To compute the magnetic declination, you must enter the location and date of interest.

If you are unsure about your city's latitude and longitude, look it up online! In the USA try entering your zip code in the box below or visit the U.S. Gazetteer. Outside the USA try the Getty Thesaurus.

Search for a place in the USA by Zip Code: Get Location

Enter Location: (latitude 90S to 90N, longitude 180W to 180E). See Instructions for details.

Latitude: 30.34723 N S **Longitude:** 88.71021 E W

Enter Date (1900-2010): Year: 2007 Month (1-12): 7 Day (1-31): 29

Compute Declination

Declination = 0° 36' W changing by 0° 6' W/year

For more information, visit:
Answers to some **frequently asked questions** | **Instructions** for use | **Today's Space Weather**

NOAA>NESDIS>NGDC>Geomagnetism questions: Susan.McLean@noaa.gov

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http://www.ngdc.noaa.gov/seg/geomag/jsp/struts/calcDeclination;jsessionid=A98C30E8B659BF0FFF743C070A36FB4E
maintained by: Susan.McLean@noaa.gov

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