

Central States VHF Society Antenna Range Results  
 Milwaukee, Wisconsin 2002  
 144-432 MHz by WB0TEM 902 MHz - 47 GHz by WA5VJB

Frequency	Gain	Call	Description
144 MHz	0.3	WB9OGM	Full Wavelength Sq.
	1.8	KD4NOQ	2M Endfeed
	7.1	NA0IA	6 Ft Cheap Yagi
	7.2	N9MYK	Modified 5 ele Arrow Antenna
	12.6	WA9KRT	10 Ele K5GW 17 ft.
222 MHz	2.9	WB9OGM	Full Wavelength Sq.
	8.1	W0ZQ	3 ele HB
	8.3	WA1MKE	3 ele Yagi
	9.4	NA0IA	6 ele Cheap Yagi
	14.1	KB0PE	20 ele HB from CC 13B2 boom and CC parts
432 MHz	1.2	N8KWX	M2 Eggbeater No Ground Plane
	3.2	N8KWX	M2 HO-Loop
	6.6	NA0IA	6 ele Cheap Yagi
	10.3	KO0Z	9 ele K2RIW at 439 MHz
	10.9	N9MYK	Modified 10 ele Arrow Antenna
	11.4	KD4NOQ	7 ele Rolcon RCS7-420
	12.0	W0LMD	Dual Band Patch feed and 6 foot dish
	13.1	KB0OZN	15 ele HB K1FO
	14.9	K0NY	Cushcraft 19 ele.
902 MHz	5.0	K9VNM	Quad Array of 7 turn Helix Antennas
	5.1	N0CIH	Double Diamond
	6.3	K0DAS	Double diamond
	8.0	K9VNM	Commerical Log Periodic
	11.1	KB0OZN	10 ele Cheap Yagi with 22 ft of RG213 that could not be removed
	12.7	NA0IA	11 ele LoopYagi
	12.9	KB0OZN	18 ele KLM
	17.1	K0DAS	21 ele F9FT
	18.0	WA1MKE	23 ele F9FT
1296 MHz	1.5	W0LMD	4 1/2 turn helix 8 dB Axial Ratio
	2.5	W0LMD	1/4 wave vertical
	8.3	NA0IA	Double Diamond
	8.5	K0DAS	Double Diamond
	10.0	W0LMD	30 turn Helix 6 dB Axial Ratio
	10.2	NA0IA	10 element Cheap Yagi with 22 ft of RG 213 that could not be removed
	11.1	K0DAS	Two 3# Coffee Can horn
	16.0	N6CL	15 element Yagi
	17.3	NA0IAS	19 element Loop Yagi
23.6	K0DAS	55 element F9FT	
2304 MHz	<-10	NE8I	Pringles can per the CNN Hacker article
	<-10	NE8I	Pringles can Optimized
	5.4	K0DAS	4" horn
	7.2	WD9OWN	1# coffee can
	13.2	WD9OWN	12" x 12" pyramidal horn
	15.4	WA5VJB	Huber-Suhner 9 patch array

	15.7	K0GCJ	24" dish w/loop feed
	16.6	NA0IA	21 el LPY Directive Systems
	18.5	K0GCJ	31" dish
	23.4	K0DAS	52 el LPY DEMI
	23.6	W9IIX	45 el LPY #1
	24.1	W9IIX	45 el LYP #2
2400 MHz	< -16	NE8I	Pringles Can per the CNN Hacking article
	-8.2	NE8I	Pringles Can optimized
	1.2	NE8I	The probe from the Pringles Can!!!
	4.8	NA0IA	Double Diamond
	8.2	WB9OWN	1# coffee can
	13.2**	N8KWX	16T helix - dBiC with 2.8 dB Axial Ratio
	13.0	WA5VJB	Huber-Suhner 9 patch array
	13.6	WB9OWN	12" x 12" pyramidal horn
	33.1 **	W0LMD	dBiC 7.5' dish w/patch feed 2.1 dB Axial Ratio    Circular Polarization
	37.8**	W0LMD	dBiC 7.5' dish w/G3RUH feed - .6 dB Axial Ratio    Circular Polarization
3456 MHz	Gain dBi	Call	Description
	5.8	NE8I	Pringles Can per the CNN Hacking article
	7.8	NE8I	Pringles Can optimized
	17.3	NE8I	45 element Loop yagi HB
	20.3	NA0IA	44 element Loop Yagi by Directive Systems
5760 MHz	Gain dBi	Call	Description
	1.5	NE8I	Pringles Can per the CNN Hacking article
	4.5	NE8I	Pringles Can optimized
	24.7	W0AUS	18" Sony DSS dish with W1GHZ Feed
10 GHz	Gain dBi	Call	Description
	12.2	N0UK	W2IMU Feedhorn
	16.6	WK9E	2 5/8" by 2 1/4" horn
	17.1	KM0T	MAComm Gunnplexer Horn
	23.6	K0GCJ	31" dish with Penny Feed
	27.6	WB0LJC	18" DSS dish with 10/24 GHz feed
	33.0	K0KFC	18" DSS dish with W1GHZ feed
	33.8	KM0T	2' dish with buttonhook feed
	34.0	K0GCJ	2' dish with penny feed
24 GHz	Gain dBi	Call	Description
	33.2	AA9L DMC	12" Dish
	31.7	W0AUS	10G/24G Dual feed 18" DSS dish
	31.2	W0AUS	18" DSS dish with W1GHz feed
47 GHz	Gain dBi	Call	Description
	27.6	WA5VJB	Scientific Atlanta Reference Horn
	26.2	WA5VJB	Microwave Associates 24 GHz Horn
Note: The 47 GHz range needs a little more work for next year and more antennas to test!			