Approximate Distance to 0.5MV/M (54 DBU) Contour

Courtesy of Electronic Research, Inc.

Antenna H.A.A.T. (in feet)	O.OlkW -2OdBK (in miles)	O.lkW -lOdBK (in miles)	0.5kW -3dBK (in miles)	lkW OdBK (in miles)	1.5kW 1.8dBK (in miles)	3kW 4.8dBK (in miles)	6kW 7.8dBK (in miles)	lOkW lOdBK (in miles)	25kW 14dBK (in miles)	5OkW 17dBK (in miles)	lOOkW 2OdBK (in miles)
100	2.9	5.1	7.6	9.0	9.9	11.7	13.8	15.6	19.3	22.6	26.3
150	3.5	6.3	9.4	11.2	12.3	14.5	17.0	19.0	23.2	26.8	30.7
200	4.0	7.3	10.9	12.9	14.1	16.6	19.3	21.6	26.0	29.8	33.9
250	4.5	8.1	12.1	14.3	15.7	18.3	21.2	23.6	28.3	32.2	36.3
300	4.9	8.9	13.2	15.5	17.0	19.8	22.9	25.3	30.2	34.2	38.4
350	5.3	9.6	14.2	16.6	18.2	21.1	24.3	26.9	31.9	35.9	40.3
400	5.7	10.3	15.1	17.7	19.3	22.3	25.6	28.3	33.4	37.5	41.9
450	6.1	10.9	15.9	18.6	20.3	23.4	26.8	29.5	34.7	39.0	43.4
500	6.4	11.5	16.7	19.5	21.2	24.5	28.0	30.7	36.0	40.3	44.8
550	6.7	12.0	17.5	20.3	22.1	25.4	29.0	31.8	37.2	41.5	46.1
600	7.0	12.6	18.2	21.1	23.0	26.3	30.0	32.9	38.3	42.7	47.3
650	7.3	13.1	18.9	21.9	23.8	27.2	30.9	33.8	39.4	43.8	48.4
700	7.6	13.6	19.5	22.6	24.5	28.1	31.8	34.8	40.4	44.8	49.5
750	7.8	14.0	20.2	23.3	25.3	28.9	32.7	35.7	41.3	45.8	50.5
800	8.1	14.5	20.8	24.0	26.0	29.6	33.5	36.5	42.2	46.8	51.5
850	8.4	14.9	21.4	24.6	26.7	30.4	34.3	37.3	43.1	47.7	52.4
900	8.6	15.3	21.9	25.3	27.3	31.1	35.1	38.1	43.9	48.6	53.3
950	8.8	15.8	22.5	25.9	28.0	31.7	35.8	38.9	44.8	49.4	54.2
1000	9.1	16.2	23.0	26.4	28.6	32.4	36.5	39.6	45.5	50.2	55.0
1050	9.3	16.6	23.5	27.0	29.2	33.1	37.2	40.3	46.3	51.0	55.8
1100	9.5	16.9	24.0	27.6	29.7	33.7	37.8	41.0	47.0	51.7	56.6
1150	9.7	17.3	24.5	28.1	30.3	34.3	38.5	41.7	47.7	52.4	57.3
1200	9.9	17.7	25.0	28.6	30.9	34.9	39.1	42.3	48.4	53.1	58.1
1250	10.1	18.0	25.5	29.1	31.4	35.4	39.7	43.0	49.0	53.8	58.7
1300	10.3	18.4	25.9	29.6	31.9	36.0	40.3	43.6	49.7	54.5	59.4
1350	10.5	18.7	26.4	30.1	32.4	36.5	40.8	44.1	50.3	55.1	60.1
1400	10.7	19.0	26.8	30.6	32.9	37.0	41.4	44.7	50.9	55.7	60.7
1450	10.9	19.4	27.2	31.0	33.4	37.6	41.9	45.3	51.5	56.3	61.3
1500	11.0	19.7	27.6	31.5	33.8	38.1	42.5	45.8	52.0	56.9	61.9
1550	11.2	20.0	28.0	31.9	34.3	38.5	43.0	46.3	52.6	57.5	62.5
1600	11.4	20.3	28.4	32.3	34.7	39.0	43.5	46.9	53.1	58.0	63.1
1650	11.6	20.6	28.8	32.8	35.2	39.5	44.0	47.4	53.6	58.6	63.6

1700	11.7	20.9	29.2	33.2	35.6	39.9	44.4	47.8	54.2	59.1	64.2
1750	11.9	21.2	29.6	33.6	36.0	40.4	44.9	48.3	54.7	59.6	64.7
1800	12.0	21.5	29.9	34.0	36.4	40.8	45.3	48.8	55.1	60.1	65.2
1850	12.2	21.7	30.3	34.4	36.8	41.2	45.8	49.2	55.6	60.6	65.7
1900	12.3	22.0	30.6	34.7	37.2	41.6	46.2	49.7	56.1	61.0	66.2
1950	12.5	22.3	31.0	35.1	37.6	42.0	46.6	50.1	56.5	61.5	66.6
2000	12.6	22.6	31.3	35.5	38.0	42.4	47.0	50.5	56.9	61.9	67.1
2050	12.8	22.8	31.6	35.8	38.3	42.8	47.4	50.9	57.4	62.4	67.5
2100	12.9	23.1	32.0	36.2	38.7	43.2	47.8	51.3	57.8	62.8	68.0
2150	13.1	23.3	32.3	36.5	39.1	43.6	48.2	51.7	58.2	63.2	68.4
2200	13.2	23.6	32.6	36.8	39.4	43.9	48.6	52.1	58.6	63.6	68.8
2250	13.3	23.8	32.9	37.2	39.7	44.3	48.9	52.5	59.0	64.0	69.2
2300	13.5	24.0	33.2	37.5	40.1	44.6	49.3	52.8	59.3	64.4	69.6
2350	13.6	24.3	33.5	37.8	40.4	45.0	49.7	53.2	59.7	64.8	70.0
2400	13.7	24.5	33.8	38.1	40.7	45.3	50.0	53.5	60.1	65.1	70.4
2450	13.8	24.7	34.1	38.4	41.0	45.6	50.3	53.9	60.4	65.5	70.7
2500	14.0	25.0	34.4	38.7	41.3	45.9	50.7	54.2	60.7	65.8	71.1
2550	14.1	25.2	34.6	39.0	41.6	46.2	51.0	54.5	61.1	66.2	71.4
2600	14.2	25.4	34.9	39.3	41.9	46.6	51.3	54.9	61.4	66.5	71.8
2650	14.3	25.6	35.2	39.6	42.2	46.9	51.6	55.2	61.7	66.8	72.1
2700	14.4	25.8	35.4	39.9	42.5	47.1	51.9	55.5	62.0	67.2	72.4
2750	14.5	26.0	35.7	40.1	42.8	47.4	52.2	55.8	62.3	67.5	72.8
2800	14.6	26.2	35.9	40.4	43.1	47.7	52.5	56.1	62.6	67.8	73.1
2850	14.8	26.4	36.2	40.7	43.3	48.0	52.8	56.3	62.9	68.1	73.4
2900	14.9	26.6	36.4	40.9	43.6	48.3	53.0	56.6	63.2	68.4	73.7
2950	15.0	26.8	36.7	41.2	43.9	48.5	53.3	56.9	63.5	68.6	74.0
3000	15.1	27.0	36.9	41.4	44.1	48.8	53.6	57.2	63.8	68.9	74.3

H.A.A.T. is height above average terrain at the center of radiation of the antenna array.

These values represent an estimate based upon theoretical wave propagation theory. The estimates do not recognize site specific considerations including topography, refraction, reflection, interference, diffraction, absorption, scattering, fresnel zone clearance, grazing or Brewster angle problems.

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