

FIGURE 8 calculates the Inverse Distance Field for AM broadcast stations with frequencies between **530** and **1700 kHz**. This calculator is a computer version of Figure 8 of Section 73.190 of the FCC Rules.

The Inverse Distance Fields calculated here are in **mV/m at 1 kilometer**.

[Ground system correction factors](#) may be incorporated into the following results.

Input Parameters

Frequency:	1490 kHz
Number of Ground Radials:	120
Correction for number of radials:	0.0000 mV/m @ 1 kilometer
Average Length of Ground Radials:	45.320 meters 148.688 feet 81.088 degrees 0.2252 wavelengths
Correction factor for length:	-6.4374 mV/m @ 1 kilometer
One Wavelength at 1490 kHz is:	201.203 meters 660.115 feet
Tower Height:	61.870 meters 202.986 feet 110.70 degrees 0.3075 wavelengths

Predicted Field Strength from Figure 8, Section 73.190

(Metric units)

	Theoretical Field	Corrected Field	
At 1.00 kW :	319.294	312.857	mV/m @ 1 KM
At 1.000 kW :	319.294	312.857	mV/m @ 1 KM

(English units)

	Theoretical Field	Corrected Field	
At 1.00 kW :	198.400	194.400	mV/m @ 1 MILE
At 1.000 kW :	198.400	194.400	mV/m @ 1 MILE