APPENDIX B: EIRP, ANTENNA GAINS AND SITE COORDINATES

The transmitter effective isotropic radiated power (EIRP) is summarized in Table B1. Tables B2 and B3 summarize the antenna gains. Tables B3 and B4 give the GPS coordinates of the transmitter sites and the pointing angle for the 1360 MHz directional transmit antenna.

Table B1. EIRP Transmitted at Ft Hood, Texas

Cell 1 Transmitter EIRP 5/4/99			
F(MHz)	P_{TX}(dBm)	$G_{TxAntenna}$ (dBi)	EIRP(dBm)
440	35.0	1.7	36.7
1360	34.0	11.3	45.3
1920	35.3	6.9	42.2
Cell 2 Transmitter EIRP 5/5/99			
F(MHz)	P_{TX}(dBm)	$G_{TxAntenna}$ (dBi)	EIRP(dBm)
440	35.7	1.7	37.4
1360	34.6	11.3	45.9
1920	36.3	6.9	43.2

Table B2. Receiving Antenna Gain Summary

Receive Antenna Gains			
Frequency(MHz)	Manufacturer	Gain (dBi)	Azimuth Pattern
440	Larson	1.2	Omni
1360	Larson	-1.3	Omni
1920	Andrew	-0.7	Omni

Table B3. Transmitter Antenna Gain Summary

Transmit Antenna Gains			
Frequency(MHz)	Manufacturer	Gain (dBi)	Azimuth Pattern
440	Cushcraft	1.7	Omni
1360	Dorne&Margolin	11.3	Table Lookup
1920	Andrew	6.9	Omni

Table B4. Transmitter Site Coordinates (NAD83/WGS84)

Site	Latitude °N	Longitude °W
Anderson Mountain	31.13698	-97.89067
Pidcoke	31.26192	-97.87958

Table B5. 1360 MHz Transmit Antenna Pointing Angle

Site	Main Beam Boresight Angle
Anderson Mountain	N6°E
Pidcoke	E