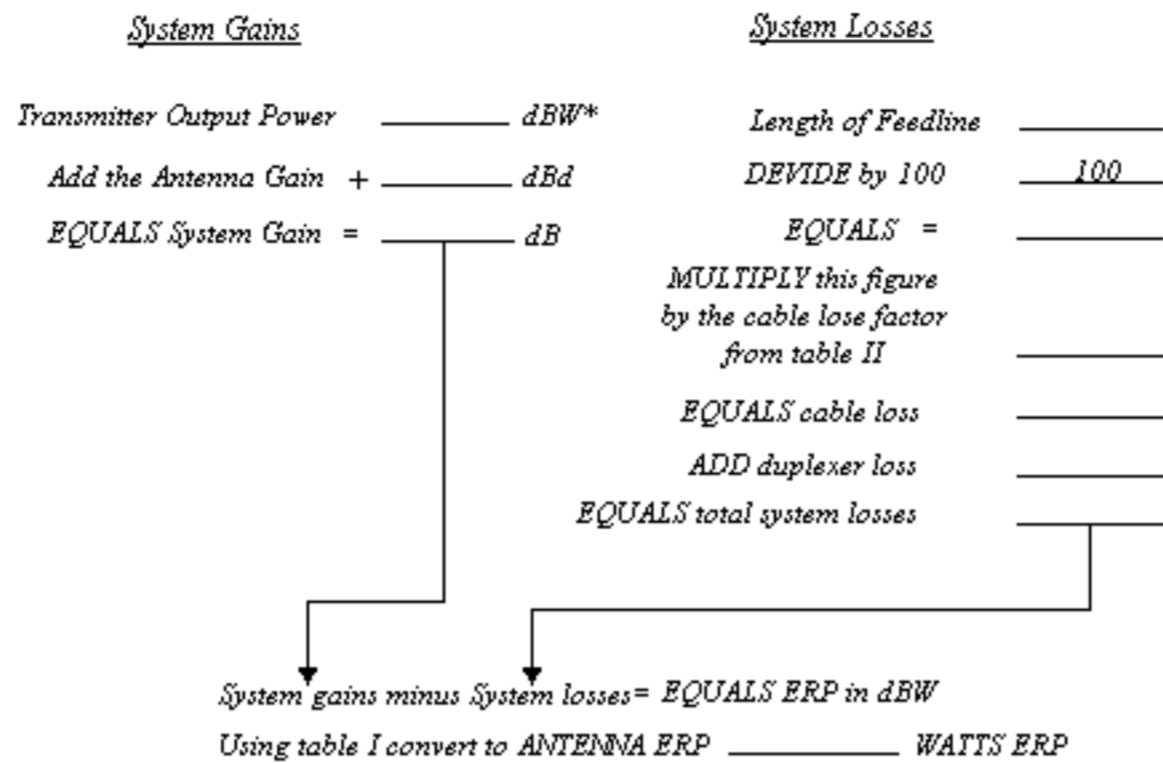


## ERP CALCULATION WORKSHEET

Transmitter Output Power \_\_\_\_\_ Watts  
 Antenna Gain \_\_\_\_\_ dB over half wave dipole  
 Type of feed line \_\_\_\_\_  
 Length of feed line \_\_\_\_\_ Feet



**TABLE I** Watts/dBW Table

Watts=dBW	Watts=dBW	Watts=dBW	Watts=dBW
1=0.0	15=11.8	100=20.0	800=29.0
2=3.0	20=13.0	150=21.0	900=29.5
3=4.8	25=14.0	200=23.0	1000=30.0
4=6.0	30=14.0	250=24.0	1500=31.0
5=7.0	40=16.0	300=24.0	2000=33.0
6=7.8	50=17.0	350=25.4	2500=34.0
7=8.5	60=17.0	400=26.0	3000=34.0
8=9.0	70=18.5	500=27.0	4000=36.0
9=9.5	80=19.0	600=27.0	5000=37.0
10=10.0	90=19.5	700=28.5	6000=37.8

**TABLE II** 50 Ohm Coaxial Cable Loss Factor

Freq Band	RG-58 233	RG-8 213	RG-9 214	1/2" foam	7/8" foam
29 (MHz)	2.8	1.0	1.0	0.4	0.26
52 (MHz)	3.8	1.3	1.4	0.55	0.36
144 (MHz)	7.0	2.6	2.6	1.0	0.66
220 (MHz)	9.0	3.4	3.4	1.3	0.85
440 (MHz)	13.0	5.3	5.1	1.9	1.3
1240(MHz)	19.0	10.3	10.3	4.2	3.2