

Coverage chart for WLRE-LP 96.5FM 243L1

English

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Radio Coverage Prediction using Longley Rice

Transmitter	
Latitude:	<input type="text" value="33"/> <input type="text" value="29"/> <input type="text" value="14.0"/> North
Longitude:	<input type="text" value="80"/> <input type="text" value="32"/> <input type="text" value="54.0"/> West
Note: the transmitter position can also be set using the "Set Tx Pos" button below.	
Height Above Ground (m):	<input type="text" value="56"/> (0.5 - 3000 m)
Frequency (MHz):	<input type="text" value="96.5"/> (20 - 40000 MHz)
Power (W):	<input type="text" value="65"/>
Polarization:	Horizontal
Antenna Gain (dBi):	<input type="text" value="0.0"/>
Antenna Pointing Azimuth (°):	<input type="text" value="0.0"/> (0° - 359.9° ; North = 0°)
Antenna Pattern (Horiz. Plane) Antenna SHI-6812 2 bay ERP= 27w Pattern= 0.0	
Details	

Propagation Model: Longley Rice (Point-to-Point)	
Surface Refractivity (N-units):	<input type="text" value="301"/> Show List (250 - 400 N-units)
Dielectric Constant of Ground:	<input type="text" value="15"/> Show List (4 - 81)
Conductivity of Ground (Siemens/m):	<input type="text" value="0.005"/> Show List (0.001 - 5.0 S/m)
Climatic Zone:	Continental Temperate
Confidence Level (%):	<input type="text" value="95"/> (1 - 99 %)
Time Availability (%):	<input type="text" value="50"/> (1 - 99 %)
Location Availability (%):	<input type="text" value="50"/> (1 - 99 %)

Receiver	
Antenna Height Above Ground (m):	<input type="text" value="1.5"/> (0.5 - 3000 m)
Reception Area	
Lower Left Corner Position (decimal degrees):	Latitude: <input type="text" value="33.30537"/> Longitude: <input type="text" value="-80.91988"/>
Upper Right Corner Position (decimal degrees):	Latitude: <input type="text" value="33.68193"/> Longitude: <input type="text" value="-80.23324"/>
Note: the reception area can also be set using the "Set Rx Area" button below.	

Coverage Display		
From	To	Color
<input checked="" type="checkbox"/> 45 dBuV/m	<input type="text" value="60"/> dBuV/m	Red
<input checked="" type="checkbox"/> 60 dBuV/m	<input type="text" value="75"/> dBuV/m	Blue
<input checked="" type="checkbox"/> 75 dBuV/m	<input type="text" value="100"/> dBuV/m	Dark Grey

[Set Tx Pos](#) [Set Rx Area](#) [Generate Coverage](#) Complete

45 to 60db in red

60 to 75db in blue

75 to 100db in gray