



An RCA FM COVERAGE CALCULATOR is forwarded herewith to assist you in planning an FM station. This rule has been developed by the RCA Engineering Department and has been made with materials available under wartime restrictions. We hope you will find it helpful. Additional copies of this rule are available at one dollar each.

To use the RCA FM COVERAGE CALCULATOR, set the left hand mark of the wood slide above the height of the transmitting antenna (second scale from bottom). Next, select the power transmitter to be used. For each power transmitter there is a line on the wood slider with a scale marked 1, 2, 4 and 6. These indicate the number of layers in a turnstile antenna. Set the small metal slider with its center mark on the number of layers in the antenna. Read on the next to the top scale the radius of rural coverage and on the top scale the radius of urban coverage. These indications will be shown by the center marking of the metal slider. The bottom scale on the rule indicates the number of square miles of rural coverage. Small markings to the left of those indicating number of layers in the antenna allow for a 10% loss in the transmission line.

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