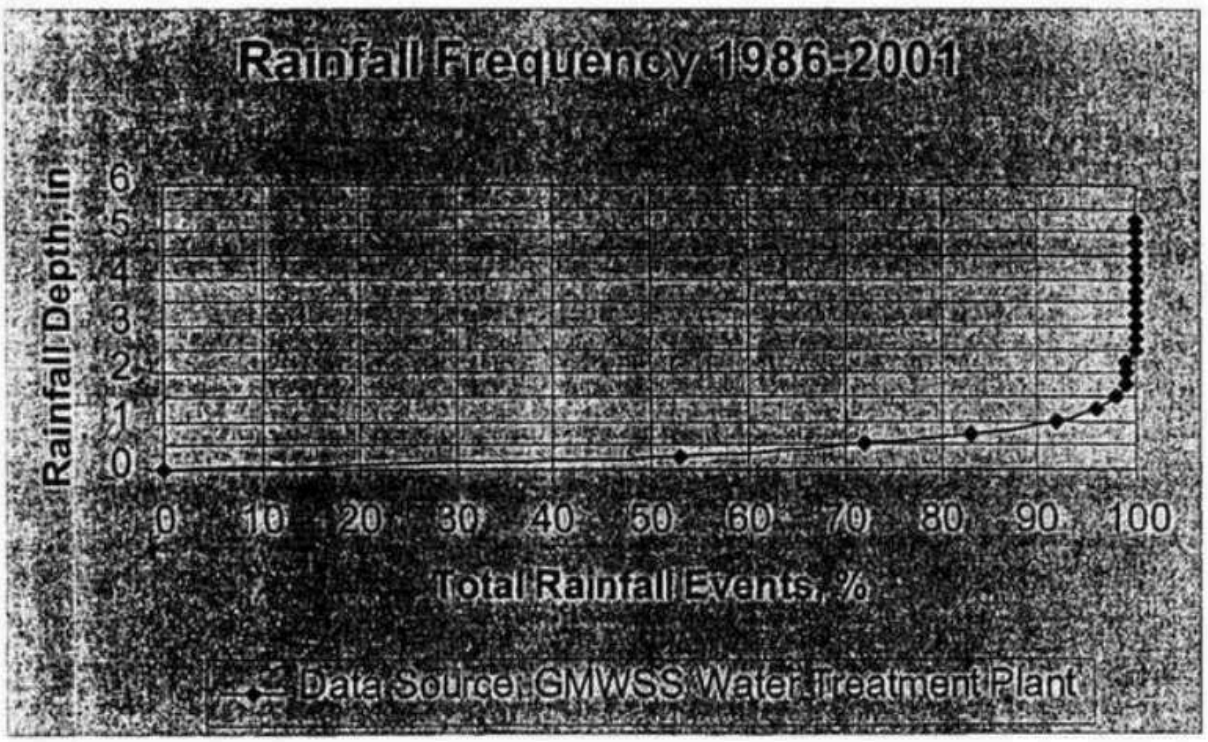

The following equation is used to determine the water quality volume needed to be treated for a development:

$$WQ_v = {}^{1}\!/_{12}(P)(0.05 + 0.009 \cdot I)(A)$$

WQ_v = Water quality volume, acre-ft.
P = 90 percent of total storm events, 1 inch.
I = Percent impervious, %.
A = Total area of site, acre.

The following table lists the amounts of impervious areas that can expected from different types of development, and the water quality depth in inches per given area:

Land Use/Cover Type	**Average Impervious Cover**	**Water Quality Depth** Inches
Paved parking lots[2]	100	0.95