

## Hydrology Effects of Trees by Stratum

Location: Springfield, Hampden, Massachusetts, United States of America

Project: Springfield Squares, Series: Parks, Year: 2018

Generated: 4/8/2019



Stratum	Number of Trees	Leaf Area (ac)	Potential Evapotranspiration (ft <sup>3</sup> /yr)	Evaporation (ft <sup>3</sup> /yr)	Transpiration (ft <sup>3</sup> /yr)	Water Intercepted (ft <sup>3</sup> /yr)	Avoided Runoff (ft <sup>3</sup> /yr)	Avoided Runoff Value (\$/yr)
Stearns Square	10	2.06	24,908.80	2,944.13	9,049.85	2,945.21	584.82	39.09
Center Square	34	1.68	20,371.92	2,407.88	7,401.51	2,408.77	478.30	31.97
<b>Total</b>	<b>44</b>	<b>3.74</b>	<b>45,280.72</b>	<b>5,352.01</b>	<b>16,451.36</b>	<b>5,353.99</b>	<b>1,063.12</b>	<b>71.07</b>

Avoided runoff value is calculated by the price \$0.067/ft<sup>3</sup>. The user-designated weather station reported 37.2 inches of total annual precipitation.