

Worksheet to Determine Peak Gallons Per Minute (GPM)

The table below illustrates the information needed to determine total flow in terms of rate and average daily flow and determine meter size.

Example:

Zone	Area (SF)	Number of Sprinkler Heads	GPM per Sprinkler Head	Total GPM per Zone	Minutes per Zone per Day	Total GPD per Zone	Number of Days p/Week	Gallons per Week per Zone	Average Gallons per Day
A	4500	20	3.0	60	25	1,500	2	3,000	429
B	1800	30	0.5	15	20	300	3	900	129
C	8000	36	3.0	108	20	2,160	2	4,320	617
Total	14,300			183		3,960		8,220	1,175

Determine Peak Gallons per Minute (GPM): Zones A + B operating together = 60 + 15 = 75 GPM; Zone C operating separately = 108 GPM. Therefore meter is sized for Zone C at a peak rate of 108 GPM: Meter requirement: 2-inch meter.

Complete table listing each zone, the number of sprinkler heads per zone, the flow rate (GPM) of each sprinkler head, total GPM for each zone, etc. Determine maximum rate (GPM) by identifying which zones are operating together.

Zone	Area (SF)	Number of Sprinkler Heads	GPM per Sprinkler Head	Total GPM per Zone	Minutes per Zone per Day	Total GPD per Zone	Number of Days p/Week	Gallons per Week per Zone	Average Gallons per Day
Total									

Peak GPM = Zones operating together totaling the maximum instantaneous flow rate (GPM) =
 Zone ____ + Zone ____ + Zone ____ = ____ GPM + ____ GPM + ____ GPM = ____ GPM peak