Stormwater Runoff Calculation

in

ft

Rainfall

Volume of runoff =

surface area x runoff coefficient x rainfall depth

Naiman	in	ft			
Surface type	Runoff coefficient	Surface area ft ²	Volume of runoff ft ³	Gallons of Runoff	Percentage of Runoff %
Pavement/ rooftop	.98				
Turfgrass: flat	.2				
Turfgrass: sloped	.3				
Gravel/ baseball field	.4				
Playground optional	.35				
Tree cover	.15				
Open space	.20				
	Total gallor	ns of runof	f		

Reflection questions

1. Which surfaces shed more water, and which shed less? Why is this so?

2. What happens on pavement and turf grass that might effect water quality? How should this be managed?

3. If you were to design a schoolyard, which surface types would you use more of? Which would you use less of?

4. What would you tell visitors to your school if they wanted help keep water clean?