Supply Worksheet

Period: _____ Date: ____

Column G Harvested Rain

	Harvested	l Rain (gal)	= Area (ft	²)xRain(in).	$x\left(\frac{1ft}{12in}\right)x\left(\frac{7.48}{ft}\right)$	$\left(\frac{gal}{t^3}\right) x R_c$
	Column A	Column B	Column C	Column D	Column E	Column F
	Collection	Average	Rainfall on	Convert	Convert using	Runoff
	Area	Rainfall	Collection	using	$(\frac{7.48 gal}{2})$	Coefficient
Month	(ft ²)	(in)	Area	$\int 1 f t$	$\int ft^3$	Rc
			(ft²∙in)	$\left(\frac{12 \text{ in}}{12 \text{ in}}\right)$	(gal)	
				(ft³)		
	Area	Values	Multiply		Multiply	Insert
	fuence #1	f	A D	Divida	D x 7 48	f

Month	(ft²)	(in)	Area (ft²∙in)	$\left(\frac{1 ft}{12 in}\right)$	(gal)	R _c	(gal)
	Area from #1	Values from #2	Multiply A x B	(ft³) Divide C÷12	Multiply D x 7.48	Insert from #3	Multiply E x F
January							
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							
Annual							
Total							

- Calculate the surface area of your collection surface and insert in Column A for each month. Rectangle Shaped Collection Surface: Length (ft) x Width (ft) = Area (ft²) Rectangle Shaped Collection Surface: _____ (ft) x _____ (ft) = _____ (ft²)
- 2. Insert Average Rainfall (in) in Column B for each month. Up to date data can be found at *usclimatedata.com*.
- 3. Insert Runoff Coefficient R_c in Column F for each month for your collection area (this number should be the same for each month). Runoff coefficients can be found on the *Runoff Coefficients for Different Surfaces* handout.
- 4. Perform the calculations across each row as specified in column headings.
- 5. Add up the values for each month at the bottom to give Annual Totals:
 - a. Column B: Average Annual Rainfall Total
 - b. Column G: Annual Harvested Rain Total

Name: ____