

RAINWATER COLLECTION / USAGE TABLES

(Estimates based on Barriere average annual rainfall of 17.67 inches)

RAINWATER COLLECTION ESTIMATE - 4,500 SF ROOF TOTAL							
	Length	Width	LxW	Inches of Rain	House imp Gallons	Detached Garage Gallons	Accessory Building Combined Gallons
HOUSE ROOF	40	80	3200				
DETACHED GARAGE	25	40	1000				
ACC BUILDING	15	20	300				
TOTAL ROOF AREA			4500				
JANUARY				1.01	1729.12	540.35	162.105 2431.575
FEBRUARY				1.2	2054.4	642	192.6 2889
MARCH				1.3	2225.6	695.5	208.65 3129.75
APRIL				1.4	2396.8	749	224.7 3370.5
MAY				1.7	2910.4	909.5	272.85 4092.75
JUNE				2.16	3697.92	1155.6	346.68 5200.2
JULY				1.9	3252.8	1016.5	304.95 4574.25
AUGUST				1.1	1883.2	588.5	176.55 2648.25
SEPTEMBER				1.4	2396.8	749	224.7 3370.5
OCTOBER				1.45	2482.4	775.75	232.725 3490.875
NOVEMBER				1.75	2996	936.25	280.875 4213.125
DECEMBER				1.3	2225.6	695.5	208.65 3129.75
ANNUAL				17.67	30251.04	9453.45	2836.035 42540.53

RAINWATER USAGE ESTIMATES - FULL TIME DOMESTIC USE (factoring for 4,500 sf roof collection, using water-less incineration toilets)				
For 4500 sf roof total area	30 Imp Gal / Day / Person	Gallons collected	Difference	NOTES
No. of People	4	120		
January	3720	2432	-1288	Does not include snow melt
February	3360	2889	-471	Does not include snow melt
March	3720	3130	-590	Does not include snow melt
April	3600	3370	-230	
May	3720	4100	380	Maximum precipitation month
June	3600	5200	1600	Maximum precipitation month
July	3720	4575	855	Maximum precipitation month
August	3720	2648	-1072	
September	3600	3370	-230	
October	3720	3490	-230	
November	3600	4213	613	Maximum precipitation month
December	3720	3130	-590	Does not include snow melt
ANNUAL	43800	42547	-1253	Net annual deficit rainwater = (-1253) gallons

RAINWATER COLLECTION ESTIMATE - 6,000 SF ROOF TOTAL							
	Length	Width	LxW	Inches of Rain	House imp Gallons	Detached Garage Gallons	Accessory Building Combined Gallons
HOUSE ROOF	55	80	4400				
DETACHED GARAGE	30	40	1200				
ACC BUILDING	20	20	400				
TOTAL ROOF AREA			6000				
JANUARY				1.01	2306.84	645.9152	215.0898 3167.845
FEBRUARY				1.2	2740.8	767.424	255.5522 3763.776
MARCH				1.3	2969.2	831.376	276.8482 4077.424
APRIL				1.4	3197.6	895.328	298.1442 4391.072
MAY				1.7	3882.8	1087.184	362.0323 5332.016
JUNE				2.16	4933.44	1381.363	459.9939 6774.797
JULY				1.9	4339.6	1215.088	404.6243 5959.312
AUGUST				1.1	2512.4	703.472	234.2562 3450.128
SEPTEMBER				1.4	3197.6	895.328	298.1442 4391.072
OCTOBER				1.45	3311.8	927.304	308.7922 4547.896
NOVEMBER				1.75	3997	1119.16	372.6803 5488.84
DECEMBER				1.3	2969.2	831.376	276.8482 4077.424
ANNUAL				17.67	40358.28	11300.32	3763.006 55421.6

RAINWATER USAGE ESTIMATES - FULL TIME DOMESTIC USE (factoring for 6,000 sf roof and using water-less incineration toilets)				
	30 Imp Gal / Day / Person	Gallons collected	Difference	NOTES
No. of People	4	120		
January	3720	3168	-552	Does not include snow melt
February	3360	3764	404	Does not include snow melt
March	3720	4077	357	Does not include snow melt
April	3600	4391	791	
May	3720	5332	1612	
June	3600	6775	3175	Maximum precipitation month
July	3720	5959	2239	Maximum precipitation month
August	3720	3450	-270	Maximum precipitation month
September	3600	4391	791	
October	3720	4547	827	
November	3600	5489	1889	
December	3720	4077	357	Does not include snow melt
ANNUAL	43800	55420	11620	Net annual surplus rainwater = 11,620 gallons