

# ***ECONOCRAFT***

## ***WORLDWIDE CAR WASH MFG., INC.***

**EAST COAST CORPORATE HEADQUARTERS**  
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Estimated Water Usage For Tunnel Car wash  
 Prepared By Scott Kartiganer, P.E.

Water carried away on vehicle	5 Gallons	
Water lost to evaporation or towed off	4 Gallons	
Total lost per car	9 Gallons	
Estimate 25-33 Gallons per car water use	33 Gallons	
Estimated number of Cars Per Day	500 Gallons	
Total used per day	16,500 Gallons	
Total lost per day	4,500 Gallons	
Total to reclaim tanks	12,000 Gallons	
Total reclaimed	80%	10,800 Gallons 21.6 per car
Total to sewer		1,200 Gallons 2.4 per car
Total fresh water required per day		6,700 Gallons 11.4 per car

Retention tank design

Estimated peak water usage for wash 100 Gallons per minute

Peak rate cars thru wash - 15 - 20 seconds per car  
 Estimate 3 - 4 cars per minute  
 Estimate maximum of 180 cars per hour

Average detention time over 24 hour  
 period

use	2	1,500 Gallon Tanks	3,000	6 Hours
				OK 2 Hours

Peak usage- estimate % total car wash capacity in	6,000	
A 2 hour period to the reclaim tanks use:	50%	250 Cars

Peak hour detention time	1	OK 1 Hour
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