Road Network Simulation

Single way routing Weights

simulated 1 way loads : 15780

Cost of Cost vs Time = 0.071 % savings

optimized		Cost	Length	Time
Cost Optimized	=	$1868546.6 ,	728627.7km,	15417.8hrs
Length Optimized	=	$1872222.5 ,	727063.9km,	15468.1hrs
Time Optimized	=	$1869881.4 ,	732818.6km,	15404.3hrs

Road network details

Total length of network = 6499.2km

Total number of nodes = 842

Best Average Trip Length = 46.1km

Best Average Trip Time = 1.0hrs

Best Average Trip Cost = $118.4

One way routing

Calculated as (total cost going in and out the same way)/(total cost going in and out different ways)

Tested truck size = 49.5	Total # of trips for 1 way routing =3690	**One way route Total Cost Savings = 12.429 %**
Tested truck size = 55.5	Total # of trips for 1 way routing =3660	**One way route Total Cost Savings = 12.517 %**
Tested truck size = 62.5	Total # of trips for 1 way routing =3610	**One way route Total Cost Savings = 12.571 %**

Savings Cost vs Time
Blue = current fuel prices
Orange = European fuel prices

One Way Savings
Blue = 49.5, Orange = 55.5, Grey = 62.5