Report

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Experiment No. 3

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Singly Constrained Gravity Model (Origin)

Input Values:

Base Year Origin-Destination Cost Matrix				
Zone	1	3		
1	3	10	15	
2	10	5	10	
3	15	10	5	

Future Year Origins Total						
Zone 1 2 3						
10 15 8						

Future Year Destinations Total



Zone	1	2	3
	7	16	10

Selected Impedence Functions : Power Function $[\mathbf{F}_{ij}=\mathbf{C}_{ij}^{B}]$

B value = -2

Calculations:

Impedance Matrix Calculations (Fij)				
Zone	1	2	3	
1	0.1111	0.01	0.0044	
2	0.01	0.04	0.01	
3	0.0044	0.01	0.04	



Dij*Fij				
Zone	1	2	3	Sum Dij*Fij
1	0.7778	0.16	0.0444	0.9822
2	0.07	0.64	0.1	0.81
3	0.0311	0.16	0.4	0.5911

Interaction Probabilities (Pij)				
Zone	1	3		
1	0.7919	0.1629	0.0452	
2	0.0864	0.7901	0.1235	
3	0.0526	0.2707	0.6767	

Final Result



Origin Destination Matrix Tij					
Zone 1 2 3 Sum Dj*Fij Future year Origin					Future year Origins Total
1	7.9186	1.629	0.4525	10	10
2	1.2963	11.8519	1.8519	15	15
3	0.4211	2.1654	5.4135	8	8