



Experiment No. 4

February 14, 2019, 4:14 pm

Trip Distribution : Growth Factor Distribution Model Fratar Growth Factor Method

Input Values :

Origin-Destination Matrix For Base Year				
Zone	1	2	3	Origin Totals
1	30	5	85	120
2	45	20	105	170
3	10	30	20	60
Destination Totals	85	55	210	

Origin Totals For Future Year			
Zone	1	2	3
	140	225	60



Destination Totals For Future Year			
Zone	1	2	3
	95	50	280

Selected Accuracy : Individual Cell

Entered Accuracy Level (i.e., percentage of error): 2 %

Iteration # 1

Fratar Growth Factor Matrix For Future Year					
Zone	1	2	3	Origins Total Base year	Origins Total Future year
1	35	5.833	99.167	140	140
2	59.559	26.471	138.971	225	225
3	10	30	20	60	60
Destinations Total Base year	104.559	62.304	258.137		
Destination Total Future year	95	50	280		

Fratar Growth Factor Matrix For Future Year



Zone	1	2	3	Origin Totals Base Year	Origins Total Future year
1	31.8	4.681	107.566	144.047	140
2	54.114	21.243	150.741	226.098	225
3	9.086	24.076	21.694	54.855	60
Destination Total Base year	95	50	280		
Destination Total Future year	95	50	280		

Iteration # 2

Fratar Growth Factor Matrix For Future Year					
Zone	1	2	3	Origins Total Base year	Origins Total Future year
1	30.897	4.828	104.276	140	140



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2	53.761	20.907	150.332	225	225
3	9.818	26.182	24	60	60
Destinations Total Base year	94.476	51.916	278.608		
Destination Total Future year	95	50	280		

Fratar Growth Factor Matrix For Future Year					
Zone	1	2	3	Origin Totals Base Year	Origins Total Future year
1	31.068	4.649	104.797	140.514	140
2	54.059	20.135	151.083	225.278	225
3	9.873	25.215	24.12	59.208	60
Destination Total Base year	95	50	280		
Destination Total Future year	95	50	280		



Iteration # 3

Fratar Growth Factor Matrix For Future Year					
Zone	1	2	3	Origins Total Base year	Origins Total Future year
1	30.78	4.965	104.255	140	140
2	54	20	151	225	225
3	10.169	25.424	24.407	60	60
Destinations Total Base year	94.95	50.388	279.662		
Destination Total Future year	95	50	280		

Fratar Growth Factor Matrix For Future Year					
Zone	1	2	3	Origin Totals Base Year	Origins Total Future year
1	30.796	4.926	104.381	140.104	140
2	54.029	19.846	151.182	225.057	225
3	10.175	25.228	24.436	59.839	60
Destination Total Base year	95	50	280		



Destination Total Future year	95	50	280
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Final Result

Fratar Growth Factor Matrix For Future Year					
Zone	1	2	3	Origin Totals Base Year	Origins Total Future year
1	30.78	4.965	104.255	140	140
2	54	20	151	225	225
3	10.169	25.424	24.407	60	60
Destination Total Base year	94.95	50.388	279.662		
Destination Total Future year	95	50	280		



Fratar Growth Factor Matrix For Future Year					
Zone	1	2	3	Origin Totals Base Year	Origins Total Future year
1	30.796	4.926	104.381	140.104	140
2	54.029	19.846	151.182	225.057	225
3	10.175	25.228	24.436	59.839	60
Destination Total Base year	95	50	280		
Destination Total Future year	95	50	280		

No. of Iteration taken to reach final result : 3