

Report

User :hillary

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University/College Name :

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University/College Name :



Experiment No. 3

December 30, 2020, 4:00 am

Singly Constrained Gravity Model (Origin)

Input Values :

Base Year Origin-Destination Cost Matrix							
Zone	1	2	3	4	5	6	7
1	0	10	15	15	20	25	32
2	10	0	7	5	10	15	22
3	15	7	0	8	14	16	26
4	15	5	8	0	6	10	18
5	20	10	14	6	0	16	12
6	25	15	16	10	16	0	12
7	32	22	26	18	12	12	0

Future Year Origins Total							
Zone	1	2	3	4	5	6	7



	22000	11500	17500	14500	26500	17500	11500
--	-------	-------	-------	-------	-------	-------	-------

Future Year Destinations Total							
Zone	1	2	3	4	5	6	7
	6475	40900	8125	31150	10900	13150	10300

Selected Impedence Functions : Power Function [$F_{ij} = C_{ij}^B$]

B value = -2

Calculations :

Impedance Matrix Calculations (F_{ij})							
Zone	1	2	3	4	5	6	7
1	INF	0.01	0.0044	0.0044	0.0025	0.0016	0.001



2	0.01	INF	0.0204	0.04	0.01	0.0044	0.0021
3	0.0044	0.0204	INF	0.0156	0.0051	0.0039	0.0015
4	0.0044	0.04	0.0156	INF	0.0278	0.01	0.0031
5	0.0025	0.01	0.0051	0.0278	INF	0.0039	0.0069
6	0.0016	0.0044	0.0039	0.01	0.0039	INF	0.0069
7	0.001	0.0021	0.0015	0.0031	0.0069	0.0069	INF

Dij*Fij								
Zone	1	2	3	4	5	6	7	Sum Dij*Fij
1	INF	409	36.1111	138.4444	27.25	21.04	10.0586	INF
2	64.75	INF	165.8163	1246	109	58.4444	21.281	INF
3	28.7778	834.6939	INF	486.7188	55.6122	51.3672	15.2367	INF
4	28.7778	1636	126.9531	INF	302.7778	131.5	31.7901	INF
5	16.1875	409	41.4541	865.2778	INF	51.3672	71.5278	INF



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6	10.36	181.7778	31.7383	311.5	42.5781	INF	71.5278	INF
7	6.3232	84.5041	12.0192	96.142	75.6944	91.3194	INF	INF

Interaction Probabilities (P_{ij})							
Zone	1	2	3	4	5	6	7
1	NAN	0	0	0	0	0	0
2	0	NAN	0	0	0	0	0
3	0	0	NAN	0	0	0	0
4	0	0	0	NAN	0	0	0
5	0	0	0	0	NAN	0	0
6	0	0	0	0	0	NAN	0
7	0	0	0	0	0	0	NAN



Final Result

Origin Destination Matrix Tij									
Zone	1	2	3	4	5	6	7	Sum Dj*Fij	Future year Origins Total
1	NAN	0	0	0	0	0	0	NAN	22000
2	0	NAN	0	0	0	0	0	NAN	11500
3	0	0	NAN	0	0	0	0	NAN	17500
4	0	0	0	NAN	0	0	0	NAN	14500
5	0	0	0	0	NAN	0	0	NAN	26500
6	0	0	0	0	0	NAN	0	NAN	17500
7	0	0	0	0	0	0	NAN	NAN	11500



Experiment No. 3

December 30, 2020, 4:00 am

Singly Constrained Gravity Model (Origin)

Input Values :

Base Year Origin-Destination Cost Matrix							
Zone	1	2	3	4	5	6	7
1	0	10	15	15	20	25	32
2	10	0	7	5	10	15	22
3	15	7	0	8	14	16	26
4	15	5	8	0	6	10	18
5	20	10	14	6	0	16	12
6	25	15	16	10	16	0	12
7	32	22	26	18	12	12	0

Future Year Origins Total							
Zone	1	2	3	4	5	6	7



	22000	11500	17500	14500	26500	17500	11500
--	-------	-------	-------	-------	-------	-------	-------

Future Year Destinations Total							
Zone	1	2	3	4	5	6	7
	6475	40900	8125	31150	10900	13150	10300

Selected Impedence Functions : Power Function [$F_{ij} = C_{ij}^B$]

B value = -2

Calculations :

Impedance Matrix Calculations (F_{ij})							
Zone	1	2	3	4	5	6	7
1	INF	0.01	0.0044	0.0044	0.0025	0.0016	0.001



2	0.01	INF	0.0204	0.04	0.01	0.0044	0.0021
3	0.0044	0.0204	INF	0.0156	0.0051	0.0039	0.0015
4	0.0044	0.04	0.0156	INF	0.0278	0.01	0.0031
5	0.0025	0.01	0.0051	0.0278	INF	0.0039	0.0069
6	0.0016	0.0044	0.0039	0.01	0.0039	INF	0.0069
7	0.001	0.0021	0.0015	0.0031	0.0069	0.0069	INF

Dij*Fij								
Zone	1	2	3	4	5	6	7	Sum Dij*Fij
1	INF	409	36.1111	138.4444	27.25	21.04	10.0586	INF
2	64.75	INF	165.8163	1246	109	58.4444	21.281	INF
3	28.7778	834.6939	INF	486.7188	55.6122	51.3672	15.2367	INF
4	28.7778	1636	126.9531	INF	302.7778	131.5	31.7901	INF
5	16.1875	409	41.4541	865.2778	INF	51.3672	71.5278	INF



6	10.36	181.7778	31.7383	311.5	42.5781	INF	71.5278	INF
7	6.3232	84.5041	12.0192	96.142	75.6944	91.3194	INF	INF

Interaction Probabilities (P_{ij})							
Zone	1	2	3	4	5	6	7
1	NAN	0	0	0	0	0	0
2	0	NAN	0	0	0	0	0
3	0	0	NAN	0	0	0	0
4	0	0	0	NAN	0	0	0
5	0	0	0	0	NAN	0	0
6	0	0	0	0	0	NAN	0
7	0	0	0	0	0	0	NAN



Final Result

Origin Destination Matrix Tij									
Zone	1	2	3	4	5	6	7	Sum Dj*Fij	Future year Origins Total
1	NAN	0	0	0	0	0	0	NAN	22000
2	0	NAN	0	0	0	0	0	NAN	11500
3	0	0	NAN	0	0	0	0	NAN	17500
4	0	0	0	NAN	0	0	0	NAN	14500
5	0	0	0	0	NAN	0	0	NAN	26500
6	0	0	0	0	0	NAN	0	NAN	17500
7	0	0	0	0	0	0	NAN	NAN	11500



Experiment No. 3

December 30, 2020, 2:17 pm

Singly Constrained Gravity Model (Origin)

Input Values :

Base Year Origin-Destination Cost Matrix							
Zone	1	2	3	4	5	6	7
1	1	10	15	15	20	25	32
2	10	1	7	5	10	15	22
3	15	7	1	8	14	16	26
4	15	5	8	1	6	10	18
5	20	10	14	6	1	16	12
6	25	15	16	10	16	1	12
7	32	22	26	18	12	12	1

Future Year Origins Total							
Zone	1	2	3	4	5	6	7



	22000	11500	17500	14500	26500	17500	11500
--	-------	-------	-------	-------	-------	-------	-------

Future Year Destinations Total							
Zone	1	2	3	4	5	6	7
	6475	40900	8125	31150	10900	13150	10300

Selected Impedence Functions : Power Function [$F_{ij} = C_{ij}^B$]

B value = -2

Calculations :

Impedance Matrix Calculations (F_{ij})							
Zone	1	2	3	4	5	6	7
1	1	0.01	0.0044	0.0044	0.0025	0.0016	0.001



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2	0.01	1	0.0204	0.04	0.01	0.0044	0.0021
3	0.0044	0.0204	1	0.0156	0.0051	0.0039	0.0015
4	0.0044	0.04	0.0156	1	0.0278	0.01	0.0031
5	0.0025	0.01	0.0051	0.0278	1	0.0039	0.0069
6	0.0016	0.0044	0.0039	0.01	0.0039	1	0.0069
7	0.001	0.0021	0.0015	0.0031	0.0069	0.0069	1

Dij*Fij								
Zone	1	2	3	4	5	6	7	Sum Dij*Fij
1	6475	409	36.1111	138.4444	27.25	21.04	10.0586	7116.9041
2	64.75	40900	165.8163	1246	109	58.4444	21.281	42565.2918
3	28.7778	834.6939	8125	486.7188	55.6122	51.3672	15.2367	9597.4065
4	28.7778	1636	126.9531	31150	302.7778	131.5	31.7901	33407.7988
5	16.1875	409	41.4541	865.2778	10900	51.3672	71.5278	12354.8143



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6	10.36	181.7778	31.7383	311.5	42.5781	13150	71.5278	13799.482
7	6.3232	84.5041	12.0192	96.142	75.6944	91.3194	10300	10666.0025

Interaction Probabilities (P_{ij})							
Zone	1	2	3	4	5	6	7
1	0.9098	0.0575	0.0051	0.0195	0.0038	0.003	0.0014
2	0.0015	0.9609	0.0039	0.0293	0.0026	0.0014	0.0005
3	0.003	0.087	0.8466	0.0507	0.0058	0.0054	0.0016
4	0.0009	0.049	0.0038	0.9324	0.0091	0.0039	0.001
5	0.0013	0.0331	0.0034	0.07	0.8822	0.0042	0.0058
6	0.0008	0.0132	0.0023	0.0226	0.0031	0.9529	0.0052
7	0.0006	0.0079	0.0011	0.009	0.0071	0.0086	0.9657



Final Result

Origin Destination Matrix Tij									
Zone	1	2	3	4	5	6	7	Sum Dj*Fij	Future year Origins Total
1	20015.7255	1264.3138	111.6278	427.9639	84.2361	65.0395	31.0934	22000	22000
2	17.4937	11050.0828	44.7991	336.6358	29.4489	15.7901	5.7496	11500	11500
3	52.4737	1521.9886	14815.2003	887.4875	101.4039	93.6634	27.7827	17500	17500
4	12.4904	710.0737	55.1015	13520.0467	131.4148	57.075	13.7979	14500	14500
5	34.7208	877.2694	88.9154	1855.9454	23379.5501	110.1781	153.4208	26500	26500
6	13.1382	230.524	40.2493	395.0329	53.996	16676.3507	90.7089	17500	17500
7	6.8177	91.1117	12.959	103.6595	81.6132	98.4599	11105.379	11500	11500



Experiment No. 3

December 30, 2020, 4:00 am

Singly Constrained Gravity Model (Origin)

Input Values :

Base Year Origin-Destination Cost Matrix							
Zone	1	2	3	4	5	6	7
1	0	10	15	15	20	25	32
2	10	0	7	5	10	15	22
3	15	7	0	8	14	16	26
4	15	5	8	0	6	10	18
5	20	10	14	6	0	16	12
6	25	15	16	10	16	0	12
7	32	22	26	18	12	12	0

Future Year Origins Total							
Zone	1	2	3	4	5	6	7



	22000	11500	17500	14500	26500	17500	11500
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Future Year Destinations Total							
Zone	1	2	3	4	5	6	7
	6475	40900	8125	31150	10900	13150	10300

Selected Impedence Functions : Power Function [$F_{ij} = C_{ij}^B$]

B value = -2

Calculations :

Impedance Matrix Calculations (F_{ij})							
Zone	1	2	3	4	5	6	7
1	INF	0.01	0.0044	0.0044	0.0025	0.0016	0.001



2	0.01	INF	0.0204	0.04	0.01	0.0044	0.0021
3	0.0044	0.0204	INF	0.0156	0.0051	0.0039	0.0015
4	0.0044	0.04	0.0156	INF	0.0278	0.01	0.0031
5	0.0025	0.01	0.0051	0.0278	INF	0.0039	0.0069
6	0.0016	0.0044	0.0039	0.01	0.0039	INF	0.0069
7	0.001	0.0021	0.0015	0.0031	0.0069	0.0069	INF

Dij*Fij								
Zone	1	2	3	4	5	6	7	Sum Dij*Fij
1	INF	409	36.1111	138.4444	27.25	21.04	10.0586	INF
2	64.75	INF	165.8163	1246	109	58.4444	21.281	INF
3	28.7778	834.6939	INF	486.7188	55.6122	51.3672	15.2367	INF
4	28.7778	1636	126.9531	INF	302.7778	131.5	31.7901	INF
5	16.1875	409	41.4541	865.2778	INF	51.3672	71.5278	INF



6	10.36	181.7778	31.7383	311.5	42.5781	INF	71.5278	INF
7	6.3232	84.5041	12.0192	96.142	75.6944	91.3194	INF	INF

Interaction Probabilities (P _{ij})							
Zone	1	2	3	4	5	6	7
1	NAN	0	0	0	0	0	0
2	0	NAN	0	0	0	0	0
3	0	0	NAN	0	0	0	0
4	0	0	0	NAN	0	0	0
5	0	0	0	0	NAN	0	0
6	0	0	0	0	0	NAN	0
7	0	0	0	0	0	0	NAN



Final Result

Origin Destination Matrix Tij									
Zone	1	2	3	4	5	6	7	Sum Dj*Fij	Future year Origins Total
1	NAN	0	0	0	0	0	0	NAN	22000
2	0	NAN	0	0	0	0	0	NAN	11500
3	0	0	NAN	0	0	0	0	NAN	17500
4	0	0	0	NAN	0	0	0	NAN	14500
5	0	0	0	0	NAN	0	0	NAN	26500
6	0	0	0	0	0	NAN	0	NAN	17500
7	0	0	0	0	0	0	NAN	NAN	11500



Experiment No. 3

December 30, 2020, 2:17 pm

Singly Constrained Gravity Model (Origin)

Input Values :

Base Year Origin-Destination Cost Matrix							
Zone	1	2	3	4	5	6	7
1	1	10	15	15	20	25	32
2	10	1	7	5	10	15	22
3	15	7	1	8	14	16	26
4	15	5	8	1	6	10	18
5	20	10	14	6	1	16	12
6	25	15	16	10	16	1	12
7	32	22	26	18	12	12	1

Future Year Origins Total							
Zone	1	2	3	4	5	6	7



	22000	11500	17500	14500	26500	17500	11500
--	-------	-------	-------	-------	-------	-------	-------

Future Year Destinations Total							
Zone	1	2	3	4	5	6	7
	6475	40900	8125	31150	10900	13150	10300

Selected Impedence Functions : Power Function [$F_{ij} = C_{ij}^B$]

B value = -2

Calculations :

Impedance Matrix Calculations (F_{ij})							
Zone	1	2	3	4	5	6	7
1	1	0.01	0.0044	0.0044	0.0025	0.0016	0.001



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2	0.01	1	0.0204	0.04	0.01	0.0044	0.0021
3	0.0044	0.0204	1	0.0156	0.0051	0.0039	0.0015
4	0.0044	0.04	0.0156	1	0.0278	0.01	0.0031
5	0.0025	0.01	0.0051	0.0278	1	0.0039	0.0069
6	0.0016	0.0044	0.0039	0.01	0.0039	1	0.0069
7	0.001	0.0021	0.0015	0.0031	0.0069	0.0069	1

Dij*Fij								
Zone	1	2	3	4	5	6	7	Sum Dij*Fij
1	6475	409	36.1111	138.4444	27.25	21.04	10.0586	7116.9041
2	64.75	40900	165.8163	1246	109	58.4444	21.281	42565.2918
3	28.7778	834.6939	8125	486.7188	55.6122	51.3672	15.2367	9597.4065
4	28.7778	1636	126.9531	31150	302.7778	131.5	31.7901	33407.7988
5	16.1875	409	41.4541	865.2778	10900	51.3672	71.5278	12354.8143



6	10.36	181.7778	31.7383	311.5	42.5781	13150	71.5278	13799.482
7	6.3232	84.5041	12.0192	96.142	75.6944	91.3194	10300	10666.0025

Interaction Probabilities (P_{ij})							
Zone	1	2	3	4	5	6	7
1	0.9098	0.0575	0.0051	0.0195	0.0038	0.003	0.0014
2	0.0015	0.9609	0.0039	0.0293	0.0026	0.0014	0.0005
3	0.003	0.087	0.8466	0.0507	0.0058	0.0054	0.0016
4	0.0009	0.049	0.0038	0.9324	0.0091	0.0039	0.001
5	0.0013	0.0331	0.0034	0.07	0.8822	0.0042	0.0058
6	0.0008	0.0132	0.0023	0.0226	0.0031	0.9529	0.0052
7	0.0006	0.0079	0.0011	0.009	0.0071	0.0086	0.9657



Final Result

Origin Destination Matrix Tij									
Zone	1	2	3	4	5	6	7	Sum Dj*Fij	Future year Origins Total
1	20015.7255	1264.3138	111.6278	427.9639	84.2361	65.0395	31.0934	22000	22000
2	17.4937	11050.0828	44.7991	336.6358	29.4489	15.7901	5.7496	11500	11500
3	52.4737	1521.9886	14815.2003	887.4875	101.4039	93.6634	27.7827	17500	17500
4	12.4904	710.0737	55.1015	13520.0467	131.4148	57.075	13.7979	14500	14500
5	34.7208	877.2694	88.9154	1855.9454	23379.5501	110.1781	153.4208	26500	26500
6	13.1382	230.524	40.2493	395.0329	53.996	16676.3507	90.7089	17500	17500
7	6.8177	91.1117	12.959	103.6595	81.6132	98.4599	11105.379	11500	11500



Experiment No. 3

December 30, 2020, 3:41 pm

Singly Constrained Gravity Model (Origin)

Input Values :

Base Year Origin-Destination Cost Matrix							
Zone	1	2	3	4	5	6	7
1	10000000000	10	15	15	20	25	32
2	10	10000000000	7	5	10	15	22
3	15	7	10000000000	8	14	16	26
4	15	5	8	10000000000	6	10	18
5	20	10	14	6	10000000000	16	12
6	25	15	16	10	16	10000000000	12
7	32	22	26	18	12	12	10000000000

Future Year Origins Total							
Zone	1	2	3	4	5	6	7



	22000	11500	17500	14500	26500	17500	11500
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Future Year Destinations Total							
Zone	1	2	3	4	5	6	7
	6475	40900	8125	31150	10900	13150	10300

Selected Impedence Functions : Power Function [$F_{ij} = C_{ij}^B$]

B value = -2

Calculations :

Impedance Matrix Calculations (F_{ij})							
Zone	1	2	3	4	5	6	7
1	0	0.01	0.0044	0.0044	0.0025	0.0016	0.001



2	0.01	0	0.0204	0.04	0.01	0.0044	0.0021
3	0.0044	0.0204	0	0.0156	0.0051	0.0039	0.0015
4	0.0044	0.04	0.0156	0	0.0278	0.01	0.0031
5	0.0025	0.01	0.0051	0.0278	0	0.0039	0.0069
6	0.0016	0.0044	0.0039	0.01	0.0039	0	0.0069
7	0.001	0.0021	0.0015	0.0031	0.0069	0.0069	0

Dij*Fij								
Zone	1	2	3	4	5	6	7	Sum Dij*Fij
1	0	409	36.1111	138.4444	27.25	21.04	10.0586	641.9041
2	64.75	0	165.8163	1246	109	58.4444	21.281	1665.2918
3	28.7778	834.6939	0	486.7188	55.6122	51.3672	15.2367	1472.4065
4	28.7778	1636	126.9531	0	302.7778	131.5	31.7901	2257.7988
5	16.1875	409	41.4541	865.2778	0	51.3672	71.5278	1454.8143



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6	10.36	181.7778	31.7383	311.5	42.5781	0	71.5278	649.482
7	6.3232	84.5041	12.0192	96.142	75.6944	91.3194	0	366.0025

Interaction Probabilities (P_{ij})							
Zone	1	2	3	4	5	6	7
1	0	0.6372	0.0563	0.2157	0.0425	0.0328	0.0157
2	0.0389	0	0.0996	0.7482	0.0655	0.0351	0.0128
3	0.0195	0.5669	0	0.3306	0.0378	0.0349	0.0103
4	0.0127	0.7246	0.0562	0	0.1341	0.0582	0.0141
5	0.0111	0.2811	0.0285	0.5948	0	0.0353	0.0492
6	0.016	0.2799	0.0489	0.4796	0.0656	0	0.1101
7	0.0173	0.2309	0.0328	0.2627	0.2068	0.2495	0



Final Result

Origin Destination Matrix Tij									
Zone	1	2	3	4	5	6	7	Sum Dj*Fij	Future year Origins Total
1	0	14017.6692	1237.6372	4744.9106	933.9401	721.1045	344.7385	22000	22000
2	447.1439	0	1145.0773	8604.4982	752.721	403.5996	146.9601	11500	11500
3	342.0327	9920.591	0	5784.8006	660.9685	610.5147	181.0927	17500	17500
4	184.8162	10506.6935	815.3164	0	1944.4947	844.5172	204.162	14500	14500
5	294.8615	7450.0916	755.102	15761.3661	0	935.673	1302.9059	26500	26500
6	279.1456	4897.9206	855.1737	8393.2277	1147.2485	0	1927.2839	17500	17500
7	198.6798	2655.1666	377.6509	3020.834	2378.3613	2869.3074	0	11500	11500



Experiment No. 3

December 30, 2020, 4:00 am

Singly Constrained Gravity Model (Origin)

Input Values :

Base Year Origin-Destination Cost Matrix							
Zone	1	2	3	4	5	6	7
1	0	10	15	15	20	25	32
2	10	0	7	5	10	15	22
3	15	7	0	8	14	16	26
4	15	5	8	0	6	10	18
5	20	10	14	6	0	16	12
6	25	15	16	10	16	0	12
7	32	22	26	18	12	12	0

Future Year Origins Total							
Zone	1	2	3	4	5	6	7



	22000	11500	17500	14500	26500	17500	11500
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Future Year Destinations Total							
Zone	1	2	3	4	5	6	7
	6475	40900	8125	31150	10900	13150	10300

Selected Impedence Functions : Power Function [$F_{ij} = C_{ij}^B$]

B value = -2

Calculations :

Impedance Matrix Calculations (F_{ij})							
Zone	1	2	3	4	5	6	7
1	INF	0.01	0.0044	0.0044	0.0025	0.0016	0.001



2	0.01	INF	0.0204	0.04	0.01	0.0044	0.0021
3	0.0044	0.0204	INF	0.0156	0.0051	0.0039	0.0015
4	0.0044	0.04	0.0156	INF	0.0278	0.01	0.0031
5	0.0025	0.01	0.0051	0.0278	INF	0.0039	0.0069
6	0.0016	0.0044	0.0039	0.01	0.0039	INF	0.0069
7	0.001	0.0021	0.0015	0.0031	0.0069	0.0069	INF

Dij*Fij								
Zone	1	2	3	4	5	6	7	Sum Dij*Fij
1	INF	409	36.1111	138.4444	27.25	21.04	10.0586	INF
2	64.75	INF	165.8163	1246	109	58.4444	21.281	INF
3	28.7778	834.6939	INF	486.7188	55.6122	51.3672	15.2367	INF
4	28.7778	1636	126.9531	INF	302.7778	131.5	31.7901	INF
5	16.1875	409	41.4541	865.2778	INF	51.3672	71.5278	INF



6	10.36	181.7778	31.7383	311.5	42.5781	INF	71.5278	INF
7	6.3232	84.5041	12.0192	96.142	75.6944	91.3194	INF	INF

Interaction Probabilities (P_{ij})							
Zone	1	2	3	4	5	6	7
1	NAN	0	0	0	0	0	0
2	0	NAN	0	0	0	0	0
3	0	0	NAN	0	0	0	0
4	0	0	0	NAN	0	0	0
5	0	0	0	0	NAN	0	0
6	0	0	0	0	0	NAN	0
7	0	0	0	0	0	0	NAN



Final Result

Origin Destination Matrix Tij									
Zone	1	2	3	4	5	6	7	Sum Dj*Fij	Future year Origins Total
1	NAN	0	0	0	0	0	0	NAN	22000
2	0	NAN	0	0	0	0	0	NAN	11500
3	0	0	NAN	0	0	0	0	NAN	17500
4	0	0	0	NAN	0	0	0	NAN	14500
5	0	0	0	0	NAN	0	0	NAN	26500
6	0	0	0	0	0	NAN	0	NAN	17500
7	0	0	0	0	0	0	NAN	NAN	11500