

Ship	from	to	cost_per_unit_shipped
0	1	2	6
0	1	4	21
0	1	5	22
0	1	6	19
0	1	7	18
1916.367013	2	5	22
34.63298678	2	6	5
5436.367013	3	1	7
0	3	2	21
0	3	4	18
0	3	6	9
3296.632987	4	1	15
0	4	3	15
0	4	5	22
0	4	6	18
3871.367013	5	3	14
0	5	4	22
1445.632987	6	4	14
0	6	5	7
1256	7	1	12
0	7	2	11
0	7	3	14
0	7	4	16
0	7	6	14

Eulidean Distance	Total distance	transportation_method	Eco Binary	Congestion Level
3.847830558	0	Cargo Ships (Heavy Fuel Oil)	1	97
5.393662948	0	Cargo Ships (Heavy Fuel Oil)	1	73
8.981369606	0	Air Freight	1	92
13.57324206	0	Electric/Hybrid Trucks	0	93
2.978942765	0	Wind-powered Ships	0	35
12.44882324	42160.07429	Electric/Hybrid Trucks	0	29
9.781048001	173.1649339	Cargo Ships (Heavy Fuel Oil)	1	86
8.12645064	38054.56909	Cargo Ships (Heavy Fuel Oil)	1	27
11.77523673	0	Diesel Trucks	1	99
2.844292531	0	Electrified Rail	0	82
21.54483001	0	Air Freight	1	80
5.393662948	49449.4948	Diesel Rail	1	109
2.844292531	0	Cargo Ships (Heavy Fuel Oil)	1	29
6.532090018	0	Diesel Rail	1	28
18.93537694	0	Air Freight	1	89
7.672248693	54199.13819	Cargo Ships (Heavy Fuel Oil)	1	82
6.532090018	0	Electric/Hybrid Trucks	0	92
18.93537694	20238.86181	Air Freight	1	71
21.32548944	0	Diesel Rail	1	29
2.978942765	15072	Diesel Rail	1	33
2.853296339	0	Diesel Trucks	1	29
10.90075685	0	Electric/Hybrid Trucks	0	102
8.080575475	0	Wind-powered Ships	0	21
11.41557708	0	Cargo Ships (Heavy Fuel Oil)	1	77

Congestion Binary
1
1
1
1
0
0
1
0
1
1
1
1
1
0
0
1
1
1
1
0
0
0
1
0
1

	Nodes
1	Cherry Cordial Cove
2	Chocolate Chip Cliffs
3	Coconut Cream Cove
4	Marshmallow Meadows
5	Peanut Butter Parlor
6	Sprinkle Street
7	Vanilla Valley

Inflow	Outflow	Netflow	Supply Demand
0	9989	-9989	-9989
1951	0	1951	1951
5436.367013	3871.367013	1565	1565
3296.632987	1445.632987	1851	1851
3871.367013	1916.367013	1955	1955
1445.632987	34.63298678	1411	1411
1256	0	1256	1256

Minimize transportation	\$ 219,347.30
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Mimize distance	\$ 146,971.80
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Maximize eco-friendliness	17274
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Minimize Congestion	8648.265974
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	totals	target value
Trasnportation	219347.3031	198738
Distance	146971.8046	131641.038
Eco-Friendliness	15340.63299	11400
Congestion	8648.265974	5317

MinMax 1.037008681

Deviation	% devation	weight	weighted devations
\$ 20,609.30	10%	10	104%
\$ 15,330.77	12%	5	58%
\$ 3,940.63	35%	3	104%
\$ 3,331.27	63%	1	63%