Ship		from	lat	long		to	lat
3581	1	Buttercream Beach	37.5	-102.5	6	Tartberry Thicket	35.64
7139	1	Buttercream Beach	37.5	-102.5	7	Toblerone Tower	31.26
0	2	Cherry Jubilee Junction	40.67	-102.89	1	Buttercream Beach	37.5
0	2	Cherry Jubilee Junction	40.67	-102.89	3	Creme Brulee Cliffs	35.23
0	2	Cherry Jubilee Junction	40.67	-102.89	4	Dulce de Leche Dunes	39.4
1463	2	Cherry Jubilee Junction	40.67	-102.89	5	Frosted Fluff Fields	41.39
0	2	Cherry Jubilee Junction	40.67	-102.89	7	Toblerone Tower	31.26
0	3	Creme Brulee Cliffs	35.23	-119.71	1	Buttercream Beach	37.5
0	3	Creme Brulee Cliffs	35.23	-119.71	2	Cherry Jubilee Junction	40.67
0	3	Creme Brulee Cliffs	35.23	-119.71	4	Dulce de Leche Dunes	39.4
0	3	Creme Brulee Cliffs	35.23	-119.71	6	Tartberry Thicket	35.64
0	3	Creme Brulee Cliffs	35.23	-119.71	7	Toblerone Tower	31.26
0	4	Dulce de Leche Dunes	39.4	-95.38	1	Buttercream Beach	37.5
0	4	Dulce de Leche Dunes	39.4	-95.38	2	Cherry Jubilee Junction	40.67
0	4	Dulce de Leche Dunes	39.4	-95.38	5	Frosted Fluff Fields	41.39
0	5	Frosted Fluff Fields	41.39	-116.43	4	Dulce de Leche Dunes	39.4
0	5	Frosted Fluff Fields	41.39	-116.43	6	Tartberry Thicket	35.64
0	5	Frosted Fluff Fields	41.39	-116.43	7	Toblerone Tower	31.26
1743	6	Tartberry Thicket	35.64	-111.47	3	Creme Brulee Cliffs	35.23
0	6	Tartberry Thicket	35.64	-111.47	7	Toblerone Tower	31.26
3312	7	Toblerone Tower	31.26	-117.57	2	Cherry Jubilee Junction	40.67
0	7	Toblerone Tower	31.26	-117.57	3	Creme Brulee Cliffs	35.23
1962	7	Toblerone Tower	31.26	-117.57	4	Dulce de Leche Dunes	39.4
0	7	Toblerone Tower	31.26	-117.57	6	Tartberry Thicket	35.64

	Nodes	Inflow	Outflow	Netflow	Supply/Demand
1	Buttercream Beach	0	10720	-10720	-10720
2	Cherry Jubilee Junction	3312	1463	1849	1849
3	Creme Brulee Cliffs	1743	0	1743	1743
4	Dulce de Leche Dunes	1962	0	1962	1962
5	Frosted Fluff Fields	1463	0	1463	1463
6	Tartberry Thicket	3581	1743	1838	1838
7	Toblerone Tower	7139	5274	1865	1865

	Objectives	Totals		Target Value	Deviation
MIN	Cost	354611		186191	168420
MIN	Distance	287590		100397	187193
MIN	Eco-Friendly	0		7972	-7972
MIN	Congestion	19200		8304	10896

Objective
MiniMax   1.86

long	distance	transportation method	binary	congestion level	binary
-111.47	9.160813	Air Freight	0	91	1
-117.57	16.31081	Air Freight	0	90	1
-102.5	3.1939	Electric/Hybrid Trucks	1	32	0
-119.71	17.67784	Cargo Ships (Heavy Fuel Oil)	0	71	1
-95.38	7.616627	Diesel Rail	0	82	1
-116.43	13.55913	Diesel Rail	0	81	1
-117.57	17.43704	Diesel Rail	0	81	1
-102.5	17.35906	Diesel Trucks	0	112	1
-102.89	17.67784	Diesel Trucks	0	43	0
-95.38	24.68477	Diesel Rail	0	88	1
-111.47	8.250194	Cargo Ships (Heavy Fuel Oil)	0	20	0
-117.57	4.510044	Slow Steaming Cargo Ships	1	73	1
-102.5	7.369152	Diesel Rail	0	91	1
-102.89	7.616627	Diesel Trucks	0	82	1
-116.43	21.14385	Wind-powered Ships	1	97	1
-95.38	21.14385	Electrified Rail	1	94	1
-111.47	7.593688	Diesel Rail	0	91	1
-117.57	10.19394	Cargo Ships (Heavy Fuel Oil)	0	26	0
-119.71	8.250194	Diesel Rail	0	82	1
-117.57	7.50962	Diesel Trucks	0	30	0
-102.89	17.43704	Diesel Rail	0	93	1
-119.71	4.510044	Air Freight	0	98	1
-95.38	23.6359	Diesel Rail	0	87	1
-111.47	7.50962	Diesel Trucks	0	82	1

% Deviation	Weight	Weighted % Deviation
0.904555	1	90%
1.8645274	1	186%
-1	1	-100%
1.3121387	1	131%

Unit cost
11
22
6
8
21
16
24
20
20
17
9
7
19
21
19
23
14
23
22
8
22
14
12
23