

CLASH CIRCULATION STUDY

Camp Hill, Lower Allen, Shiremanstown, Hampden Township

Date: May 18, 2007
To: Carl (Chip) Millard
From: Brian St. John
Subject: Origin-Destination (O-D) Study – Revised Approach

An Origin–Destination (O-D) study was proposed to be completed within the CLASH study area to better understand the number of potential trips that would be attracted to a complete interchange at Trindle Road and PA 581.

Originally, the O-D study was to be conducted at a limited number of signalized intersections (namely Trindle Road and St. John's Church Road (#9) and Simpson Ferry Road and St. John's Church Road (#15)) to be cost-effective and to assure the safety of the motorist and surveyors. In order to capture a representative survey sample for the O-D study, it was assumed that 16 staff would be stationed at the intersections of Trindle Road and St. John's Church Road (#9) and St. John's Church Road and Simpson Ferry Road (#15) to capture the turning movements off of and on to St. John's Church Road. It was also assumed that the survey would be conducted from 6:00AM to 10:00AM and 2:00PM to 6:00PM to capture both commuter and commercial vehicle travel.

In planning the O-D study, several problems arose.

- Concern with the quality of data obtained. Often drivers do not know street address, roadway names or travel information to directly answer the survey questions.
- Minimal room available to stop vehicles along the shoulder; in some cases no shoulder is available.
- Safety concerns over having surveyors along the roadway with the combination of narrow lanes and high truck traffic.
- Concern with driver frustration and incorporation; as the study area is already congested people may view the survey as an intolerable delay.
- Minimum survey capture rate. It was estimated even if each surveyor interviewed 4 vehicles an hour, not even 1% of the traffic volume would be captured.
- Minimum survey capture rate for truck traffic. Due to the constrained survey locations, driver cooperation, and survey rate; only a very small fraction of truck traffic data would be compiled.

In working with the West Shore Tax Bureau, zip code information was obtained that linked local residence to their employers and local employees to their residence. This data will be applied to GIS to determine how commuters, generally automobile traffic, are accessing the study area.

With this additional information now made readily available, McCormick Taylor has proposed a new approach to completing the O-D study. As sufficient information is now known for the automobile travel patterns (significantly more information than could have been obtained in the original interview O-D study proposed) the revised approach for the O-D will focus on truck travel patterns. In order to collect this data, a vehicle following method is proposed. Data collectors from McCormick Taylor and Design Support Services will follow trucks throughout the network, and include trucks entering and exiting Industrial Park Drive and Railroad Avenue. The trucks will be followed from the point that they enter the network (from Route 15 or PA 581) until they reach their destination. Vehicles will also be followed from Industrial Park Drive and Railroad Avenue to the point where they exit the network onto Route 15 or PA 581. In both cases, their direction along Route 15 and PA 581 will be noted. In addition to noting the truck travel path, general information about the truck will be noted and approximate travel time will be recorded.

A survey of this type will provide a large quantity of detailed information about the movement of freight within the study area and their destination outside the study area. This approach will allow a cost effective data collection and will not cause major disruption to traffic flow.

Directions:

Input the O-D number in the first column. In the "End Link" Column, put in the first intersection followed by each intersection recorded on the map. Input the time in minutes and seconds as the running total from the field map. For vehicles traveling onto or from one of the major routes, use the following values for data entry. Include the truck type (if given) and any other notes from the sheets in the notes column.

15 NB 30
 15 SB 40
 581 EB 50
 581 WB 60

#N/A in the Link Distance or Avg. Link Speed Column represents a vehicle exiting the network via SR 0015 or SR 0951

O-D Number	Hour of Day	Start Link	End Link	Time - Running Total			Total (s)	Link Time (s)	Link ID	Link Distance (ft)	Avg. Link Speed (mph)	Truck Route
				Minutes	Seconds	Seconds						
1001	11	10	10			0						
1001	11	10	4	2	16	136	136	104	2895	14.5	104	10
1001	11	10	4	4	5	245	245	109	3122	19.5	1043	104
1001	11	10	3	4	5	295	295	50	2293	31.3	10432	10432
1001	11	10	2	4	55	0	0	260	#N/A		1043260	1043260
1001	11	10	60			0	0					
1002	11	10	10			0	0					10
1002	11	10	4	2	16	136	136	104	2895	14.5	104	104
1002	11	10	4	4	5	245	245	109	3122	19.5	1043	1043
1002	11	10	3	4	55	295	295	50	2293	31.3	10432	10432
1002	11	10	2	4	55	0	0	260	#N/A		1043260	1043260
1003	11	10	10			0	0					10
1003	11	10	4	1	50	110	110	104	2895	17.9	104	104
1003	11	10	4	4	50	290	290	180	3122	11.8	1043	1043
1003	11	10	3	4	50	0	0	32	2293		10432	10432
1004	11	10	2			0	0					10432
1004	11	10	2			0	0					2
1004	11	10	3	1	35	95	95	23	2293	16.5	23	23
1004	11	10	3	4	15	185	185	100	3122	21.3	234	234
1004	11	10	4	5	25	325	325	130	2895	15.2	23410	23410
1004	11	10	21	5	45	345	345	20	1142	38.9	2341021	2341021
1006	11	10	10			0	0					10
1006	11	10	4	1	30	90	90	104	2895	21.9	104	104
1006	11	10	3	3	14	194	194	104	3122	20.5	1043	1043
1006	11	10	2	4	5	245	245	51	2293	30.7	10432	10432
1006	11	10	60			0	0	260	#N/A		1043260	1043260
1008	10	10	10			0	0					10
1008	10	10	4	2	28	148	148	104	2895	13.3	104	104
1008	10	10	4	4	25	265	265	117	3122	18.2	1043	1043
1008	10	10	3	5	21	321	321	56	2293	27.9	10432	10432
1008	10	10	2	5	45	345	345	24	#N/A		1043260	1043260
1009	9	10	10			0	0					21
1009	9	10	21	0	0	0	0	2110	1142	8.4	21	21
1009	9	10	10	1	33	93	93	93	#N/A		2110	2110
1009	9	10	50	1	58	118	118	25	#N/A		211050	211050
1010	9	10	10			0	0					21
1010	9	10	10			0	0					2110
1010	9	10	10			0	0					211050

1078	10	13	11	7	6	426	211	1311	4947	16.0	121113111
1078	10	11	10	8	22	502	76	1110	1182	10.6	1211131110
1078	10	10	21	10	8	608	106	1021	1142	7.3	121113111021
1079	10	21	21	21	0	0	0	0	0	0	21
1079	10	21	10	1	14	74	74	2110	1142	10.5	2110
1079	10	10	11	1	45	105	31	1011	1162	26.0	211011
1079	10	11	11	1	45	294	189	1113	4947	17.8	21101113
1079	10	13	40	4	54	0	0	1340	#N/A	0	2110111340
1080	11	40	0	0	0	0	0	0	0	0	21
1080	11	21	21	21	0	0	0	0	0	0	2117
1080	11	17	17	0	0	0	0	2117	2049	0	211720
1080	11	17	20	4	15	255	255	1720	1697	4.5	211720
1080	11	20	19	5	0	300	45	2019	1944	29.5	21172019
1080	11	19	18	6	40	400	100	1918	4370	29.8	2117201918
1081	11	18	0	0	0	0	0	0	0	0	18
1081	11	18	14	3	0	180	180	1814	6279	23.8	1814
1082	11	14	0	0	0	0	0	0	0	0	14
1082	11	14	14	0	0	0	0	0	0	0	14
1082	11	14	7	1	57	117	117	147	1496	8.7	147
1082	11	7	8	3	24	204	87	78	3837	30.1	1478
1082	11	8	3	6	5	365	161	83	4199	17.8	14783
1082	11	3	2	7	1	421	56	32	2293	27.9	147832
1082	11	2	60	7	22	442	21	260	#N/A	#N/A	14783260
1082	11	60	0	0	0	0	0	0	0	0	14783260
1083	7	9	9	0	0	0	0	0	0	0	9
1083	7	9	10	0	30	30	30	910	1621	36.8	910
1083	7	10	50	0	56	56	26	1050	#N/A	#N/A	91050
1084	7	50	0	0	0	0	0	0	0	0	7
1084	7	7	7	0	0	0	0	0	0	0	7
1084	7	7	14	0	28	28	28	714	1496	36.4	714
1084	7	14	18	2	51	171	143	1418	6279	29.9	71418
1084	7	18	40	0	0	0	0	1840	#N/A	#N/A	7141840
1085	8	40	0	0	0	0	0	0	0	0	7
1085	8	10	10	0	28	28	28	109	1621	39.5	109
1085	8	10	9	0	0	0	0	0	0	0	109
1086	7	9	7	0	0	0	0	0	0	0	7
1086	7	7	8	1	7	67	67	78	3837	39.0	78
1086	7	8	9	3	1	181	114	89	3190	19.1	789
1087	8	9	0	0	0	0	0	0	0	0	14
1087	8	14	14	0	42	42	42	147	1496	24.3	147
1087	8	7	8	1	45	105	63	78	3837	41.5	1478
1087	8	8	9	3	21	201	96	89	3190	22.7	14789
1087	8	9	10	4	10	250	49	910	1621	22.6	1478910
1087	8	10	50	4	30	270	20	1050	#N/A	#N/A	147891050
1087	8	50	0	0	0	0	0	0	0	0	147891050
1088	8	12	12	0	0	0	0	0	0	0	12
1088	8	12	11	0	18	18	18	1211	459	17.4	1211
1088	8	11	10	1	17	77	59	1110	1162	13.7	121110
1088	8	10	9	2	49	169	92	109	1621	12.0	1211109
1090	8	9	0	0	0	0	0	0	0	0	2
1090	8	2	3	4	12	252	252	23	2293	6.2	23
1090	8	3	4	5	32	332	80	34	3122	26.6	234

1090	8	4	10	6	49	409	77	410	2895	25.6	23410
1090	8	10	21	7	6	426	17	1021	1142	45.8	2341021
1090	8	21	17	8	25	505	79	2117	2049	17.7	234102117
1090	8	17	20	9	18	568	53	1720	1697	21.8	23410211720
1091	9	20				0					
1091	9		13			0					13
1091	9	13	10	3	47	227	227	1310	#N/A	#N/A	1310
1091	9	10	21	4	19	259	32	1021	1142	24.3	131021
1092	9	21				0					
1092	9	21	21			0					21
1092	9	21	10	1	5	65	65	2110	1142	12.0	2110
1092	9	10	50	1	20	80	15	1050	#N/A	#N/A	211050
1093	9	50				0					
1093	9	21	10	1	5	65	65	2110	1142	12.0	21
1093	9	10	50	1	20	80	15	1050	#N/A	#N/A	211050
1093	9	50				0					
1094	9	12	12			0					12
1094	9	12	11	0	36	36	36	1211	459	8.7	1211
1094	9	11	10	1	16	78	42	1110	1182	19.2	121110
1094	9	10	21	1	33	93	15	1021	1142	51.9	12111021
1095	10	21				0					
1095	10	21	21			0					21
1095	10	21	17	1	56	116	116	2117	2049	12.0	2117
1095	10	17	20	2	56	176	60	1720	1697	19.3	211720
1095	10	20	19	3	49	229	53	2019	1944	25.0	21172019
1095	10	19	18	6	23	363	154	1918	4370	19.3	2117201918
1095	10	18				0					
1095	10	18	18	0	7	187	187	1814	6279	22.9	18
1095	10	14				0					1814
1097	11	14	14			0					14
1097	11	14	18	2	12	132	132	1418	6279	32.4	1418
1098	11	18				0					
1098	11	21	21			0					21
1098	11	21	17	0	46	46	46	2117	2049	30.4	2117
1098	11	17	16	2	15	135	89	1716	1935	14.8	211716
1098	11	16	15			0			390		21171615
1098	11	15	14	4	29	269	269	1514	6649	16.9	2117161514
1098	11	14				0					
1098	11	14	14			0					14
1098	11	14	18	3	33	213	213	1418	6279	20.1	1418
1098	11	18	40	3	46	226	13	1840	#N/A	#N/A	141840
1098	11	40				0					
1100	11	21	21	0	10	70	70	2110	1142	11.1	21
1100	11	21	10	1	10	70	26	1050	#N/A	#N/A	2110
1100	11	10	50	1	36	96	0				211050
1101	11	50				0					
1101	11	12	12			0					12
1101	11	12	11	0	23	23	23	1211	459	13.6	1211
1101	11	11	10	1	21	81	58	1110	1182	13.9	121110
1101	11	10	21	2	28	148	67	1021	1142	11.6	12111021
1101	11	21				0					
1103	8	7	7	1	33	93	93			#VALUE!	7
1103	8	7	8	1	33	93	78			#VALUE!	78
1103	8	8	9	3	10	190	97			22.4	789
1103	8	9	10	3	50	230	40			27.6	78910
1103	8	10	50	4	15	265	25			#N/A	7891050
1104	6	50				0					
1104	6		10			0					10

1104	10	4	1	32	92	104	2895	21.5	104
1104	4	3	2	36	64	43	3122	33.3	1043
1104	3	2	3	15	195	32	2293	40.1	10432
1104	2	60			0	260	#N/A		1043260
1105	60				0				17
1105	17	17			45	1716	1935	29.3	1716
	16	15			0	1615	390		171615
	15				0				17
1106	17	21	1	12	72	1721	2049	19.4	1721
1106	9				0				21
1107	9	21			0				2110
1107	21	10	0	31	31	2110	1142	25.1	21104
1107	10	4	4	33	242	104	2895	8.2	211043
1107	4	3	6	45	132	43	3122	16.1	2110432
1107	3	2	7	13	28	32	2293	55.8	211043260
1107	2	60			0	260	#N/A		211043260
1108	60				0				2
1108	2	3	0	44	44	23	2293	35.5	23
1108	3	4	1	58	74	34	3122	28.8	234
1108	4	10	3	15	195	77	2895	25.6	23410
1108	10	21	4	23	263	1021	1142	11.5	2341021
1109	21	17			0				17
1109	17	21	0	42	42	1721	2049	33.3	1721
1110	21				0				2
1110	2	2	0	60	60	23	2293	26.1	23
1110	3	4	1	55	55	34	3122	38.7	234
1110	4	10	4	10	240	410	2895	15.8	23410
1110	10	21	4	33	273	1021	1142	23.6	2341021
1111	21				0				9
1111	9	9			0				910
1111	10	10	2	0	120	910	1621	9.2	91050
1111	10	50			0	1050	#N/A		17
1112	50				0				1721
1112	17	17	1	8	68	1721	2049	20.5	1721
1113	21				0				21
1113	21	10	0	15	15	2110	1142	51.9	2110
1113	11	4	1	35	80	104	2895	24.7	21104
1113	11	3	3	20	200	43	3122	20.3	211043
1113	11	2	4	10	250	32	2293	31.3	2110432
1113	2	60			0	260	#N/A		211043260
1114	60				0				2
1114	11	2	0		0				23
1114	11	3	1	0	60	23	2293	26.1	238
1114	11	8	3	5	185	38	4199	22.9	2389
1114	11	9	4	12	252	89	3190	32.5	2389
1115	9				0				17
1115	17	17			0				1716
1115	11	16	15	0	54	1615	390	4.9	171615
1115	11				0				21
1116	10	21	10	1	98	2110	1142	7.9	2110
1116	10	4	3	50	230	104	2895	15.0	21104

direction followed
 based on the field map
 onto or from one of the
 and any other notes

#N/A in the Link Distance or Avg. Link Speed Column represents
 a vehicle exiting the network via SR 0015 or SR 0581

Link Distance (ft)	Avg. Link Speed (mph)
390	
1935	
2049	
1142	
#N/A	#VALUE!
1142	
#N/A	#VALUE!
4370	
1944	
1697	
2049	
1142	
#N/A	#VALUE!
2293	
3122	
2895	
1142	
2049	
1697	
#N/A	#VALUE!
459	
1182	
1142	
#N/A	#VALUE!
459	
1182	
1142	
#N/A	#VALUE!
1142	
#N/A	#VALUE!
2049	

#N/A	1142 1621 3190 4199 2293	#VALUE!
#N/A	1142	#VALUE!
	459 1182 1142	#VALUE!
	3190 3837	#VALUE!
#N/A	4199 2293	#VALUE!
	2293 4199 3837 1496	#VALUE!
	2293 3122 2895 1142	#VALUE!
	4370 1944 1697 2049	#VALUE!
	4947 1182 1621	#VALUE!
	1041 2293 3122 2101 5305	

433
4947
1182
1621
3190
3837

#VALUE!

1142
2895
3122
2293

#VALUE!

459
1182

#VALUE!

1935
390

#VALUE!

Ctrl Point	Intersection	Link ID	Distance	
1	2	12	1041	1-2
2	1	21	1041	2-1
2	3	23	2293	2-3
3	2	32	2293	3-2
3	4	34	3122	3-4
3	8	38	4199	3-8
4	3	43	3122	4-3
4	5	45	2101	4-5
5	4	54	2101	5-4
5	6	56	5305	5-6
6	5	65	5305	6-5
7	8	78	3837	7-8
8	3	83	4199	8-3
8	7	87	3837	8-7
8	9	89	3190	8-9
9	8	98	3190	9-8
10	4	104	2895	10-4
10	9	109	1621	10-9
12	5	125	1482	12-5
13	6	136	433	13-6
14	7	147	1496	14-7
15	9	159	2705	15-9
4	10	410	2895	4-10
5	12	512	1482	5-12
6	13	613	433	6-13
7	14	714	1496	7-14
9	10	910	1621	9-10
9	15	915	2705	9-15
10	11	1011	1182	10-11
10	21	1021	1142	10-21
11	10	1110	1182	11-10
11	12	1112	459	11-12
11	13	1113	4947	11-13
12	11	1211	459	12-11
13	11	1311	4947	13-11
14	15	1415	6649	14-15
14	18	1418	6279	14-18
15	14	1514	6649	15-14
15	16	1516	390	15-16
16	15	1615	390	16-15
16	17	1617	1935	16-17
16	19	1619	2411	16-19
17	16	1716	1935	17-16
17	20	1720	1697	17-20
17	21	1721	2049	17-21
18	14	1814	6279	18-14
18	19	1819	4370	18-19
19	16	1916	2411	19-16
19	18	1918	4370	19-18
19	20	1920	1944	19-20
20	17	2017	1697	20-17
20	19	2019	1944	20-19
21	10	2110	1142	21-10
21	17	2117	2049	21-17

Truck O-D Data

Truck O-D Links TOTAL		
	Link	Number
1	1-2	2
2	2-1	3
3	2-3	18
4	3-2	23
5	3-4	13
6	3-8	5
7	4-3	16
8	4-5	1
9	5-4	0
10	5-6	1
11	6-5	0
12	7-8	7
13	8-3	7
14	8-7	7
15	8-9	10
16	9-8	13
17	10-4	16
18	10-9	15
19	12-5	0
20	13-6	0
21	14-7	2
22	15-9	0
23	4-10	12
24	5-12	0
25	6-13	1
26	7-14	2
27	9-10	13
28	9-15	1
29	10-11	1
30	10-21	27
31	11-10	25
32	11-12	0
33	11-13	2
34	12-11	20
35	13-11	6
36	14-15	0
37	14-18	3
38	15-14	1
39	15-16	2
40	16-15	4
41	16-17	2
42	16-19	0
43	17-16	4
44	17-20	4
45	17-21	7
46	18-14	6
47	18-19	2
48	19-16	0
49	19-18	3
50	19-20	2
51	20-17	2
52	20-19	2
53	21-10	31
54	21-17	7
55	10-50	28
56	2-60	16
57	17-40	0
58	17-30	0
59	50-40	0
60	50-30	0

Truck O-D Links		
	Truck Path	Number
1	1-2-3-4-10-21	1
2	1-2-3-4-10-9	0
3	50-2-3-4-10-9	0
4	50-2-3-4-10-21	0
5	10-4-3-2-1	1
6	10-4-3-2-60	5
7	12-11-10-9	5
8	12-11-10-21	10
9	9-8-3-2-1	1
10	9-8-3-2-60	0
11	1-2-3-8-9	0
12	50-2-3-8-9	0
13	9-10-4-3-2-1	0
14	9-10-4-3-2-60	0
15	30-17-21	0
16	40-17-21	0

17	10-4-3-2	8
18	2-3-4-10	9
19	12-11-10	15
20	2-3-8	4

Starting Points		
21	2	14
22	10	10
23	17	5
24	21	29

Additional Links		
25	21-17	5
26	21-10	24

*See the map for the definition of which intersection corresponds to which number.

TOTAL RUNS : AM

27	9-10-50	8
28	9-10-4	0
29	9-8-3	2
30	10-4-3	8

31	21-10-50	10
32	21-10-4	7
33	21-10-9	3
34	21-10-11	1

Truck O-D Links Modified		
	Truck Path	Number
1	1-2-3-4-10-21	0
2	1-2-3-4-10-9	0
3	50-2-3-4-10-9	0
4	50-2-3-4-10-21	0
5	10-4-3-2-1	0
6	10-4-3-2-60	0
7	12-11-10-9	0
8	12-11-10-21	3
9	9-8-3-2-1	0
10	9-8-3-2-60	0
11	1-2-3-8-9	0
12	50-2-3-8-9	0
13	9-10-4-3-2-1	0
14	9-10-4-3-2-60	0
15	30-17-21	0
16	40-17-21	0

17	10-4-3-2	0
18	2-3-4-10	2
19	12-11-10	4
20	2-3-8	1

Starting Points		
20	2	3
21	10	0
22	17	2
23	21	4

Additional Links		
25	21-17	0
26	21-10	4

15 NB 30
 15 SB 40
 581 EB 50
 581 WB 60

27	9-10-50	0
28	9-10-4	0
29	9-8-3	0
30	10-4-3	0

31	21-10-50	3
32	21-10-4	1
33	21-10-9	0
34	21-10-11	0

Truck O-D Links TOTAL		
	Truck Path	Number
1	1-2-3-4-10-21	1
2	1-2-3-4-10-9	0
3	50-2-3-4-10-9	0
4	50-2-3-4-10-21	0
5	10-4-3-2-1	1
6	10-4-3-2-60	5
7	12-11-10-9	5
8	12-11-10-21	13
9	9-8-3-2-1	1
10	9-8-3-2-60	0
11	1-2-3-8-9	0
12	50-2-3-8-9	0
13	9-10-4-3-2-1	0
14	9-10-4-3-2-60	0
15	30-17-21	0
16	40-17-21	0

17	10-4-3-2	8
18	2-3-4-10	11
19	12-11-10	19
20	2-3-8	5

Starting Points		
20	2	17
21	10	10
22	17	7
23	21	33

Additional Links		
25	21-17	5
26	21-10	28

27	9-10-50	8
28	9-10-4	0
29	9-8-3	2
30	10-4-3	8

31	21-10-50	13
32	21-10-4	8
33	21-10-9	3
34	21-10-11	1

Directions:

Input the O-D number in the first column. In the "End Link" Column, put in the first intersection followed by each intersection recorded on the map. Input the time in minutes and seconds as the running total from the field map. For vehicles traveling onto or from one of the major routes, use the following values for data entry. Include the truck type (if given) and any other notes from the sheets in the notes column.

15 NB 30
 15 SB 40
 581 EB 50
 581 WB 60

#N/A in the Link Distance or Avg. Link Speed Column represents a vehicle exiting the network via SR 0015 or SR 0951

O-D Number	Hour of Day	Start Link	Time - Running Total			Total (s)	Link Time (s)	Link ID	Link Distance (ft)	Avg. Link Speed (mph)	Truck Route
			End Link	Minutes	Seconds						
1001	11	10	10		0	136	104	2895	14.5	10	
1001	11	10	4	2	16	245	109	3122	19.5	104	
1001	11	10	3	4	5	295	50	2293	31.3	1043	
1001	11	3	2	4	55	0	260	#N/A		1043260	
1001	11	60			0	0					
					0	0					
1002	11	10	10		0	136	104	2895	14.5	10	
1002	11	10	4	2	16	245	109	3122	19.5	104	
1002	11	10	3	4	5	295	50	2293	31.3	1043	
1002	11	3	2	4	55	0	260	#N/A		1043260	
1002	11	2	60		0	0					
					0	0					
1003	11	10	10		0	110	104	2895	17.9	10	
1003	11	10	4	1	50	180	43	3122	11.8	104	
1003	11	4	3	4	50	290	180	2293		1043	
1003	11	3	2		0	0	32			10432	
					0	0					
1004	11	2			0	0					
1004	11	2	2		0	95	23	2293	16.5	2	
1004	11	3	3	1	35	185	100	3122	21.3	23	
1004	11	4	10	3	15	325	130	2895	15.2	234	
1004	11	4	10	5	25	345	20	1142	38.9	23410	
1004	11	10	21	5	45	0	1021			2341021	
1004	11	21			0	0					
1006	11	10	10		0	90	104	2895	21.9	10	
1006	11	10	4	1	30	194	43	3122	20.5	104	
1006	11	4	3	3	14	245	51	2293	30.7	1043	
1006	11	3	2	4	5	0	260	#N/A		10432	
1006	11	2	60		0	0				1043260	
1006	11	60			0	0					
1008	10	10	10		0	148	104	2895	13.3	10	
1008	10	10	4	2	28	265	117	3122	18.2	104	
1008	10	4	3	4	25	321	56	2293	27.9	1043	
1008	10	3	2	5	21	345	24	#N/A		10432	
1008	10	2	60	5	45	0	260			1043260	
1008	10	60			0	0					
1009	9				0	0					
1009	9		21	0	0	93	2110	1142	8.4	21	
1009	9	21	10	1	33	118	25	#N/A		2110	
1009	9	10	50	1	58	0	1050			211050	
1010	9	50			0	0					
1010	9				0	0					

1090	8	4	10	6	49	409	77	410	2895	25.6	23410
1090	8	10	21	7	6	426	17	1021	1142	45.8	2341021
1090	8	21	17	8	25	505	79	2117	2049	17.7	234102117
1090	8	17	20	9	18	568	53	1720	1697	21.8	23410211720
1091	9	20				0	0				13
1091	9	13	13			0	227	1310	#N/A	#N/A	1310
1091	9	10	10	3	47	259	32	1021	1142	24.3	131021
1091	9	21	21	4	19	0	0		#N/A		21
1092	9	21	21			0	0				21
1092	9	21	10	1	5	65	65	2110	1142	12.0	2110
1092	9	10	50	1	20	80	15	1050	#N/A	#N/A	211050
1093	9	50				0	0				21
1093	9	21	10	1	5	65	65	2110	1142	12.0	2110
1093	9	10	50	1	20	80	15	1050	#N/A	#N/A	211050
1093	9	50				0	0				12
1094	9	12	12			0	36	1211	459	8.7	1211
1094	9	12	11	0	36	36	42	1110	1182	19.2	121110
1094	9	11	10	1	18	78	42	1110	1142	51.9	12111021
1094	9	10	21	1	33	93	15	1021			12111021
1094	9	21				0	0				21
1095	10	21	21			0	116	2117	2049	12.0	21
1095	10	17	17	1	56	116	60	1720	1697	19.3	211720
1095	10	17	20	2	56	176	60	1720	1944	25.0	21172019
1095	10	20	19	3	49	229	53	2019	4370	19.3	2117201918
1095	10	19	18	6	23	363	154	1918			18
1095	10	18	18			0	187	1814	6279	22.9	18
1095	10	18	14	3	7	187	0				1814
1097	11	14				0	0				14
1097	11	14	14			0	132	1418	6279	32.4	14
1097	11	14	18	2	12	132	0				1418
1098	11	18				0	0				21
1098	11	21	21			0	46	2117	2049	30.4	21
1098	11	17	17	0	46	46	89	1716	1935	14.8	211716
1098	11	17	16	2	15	135	89	1615	390		21171615
1098	11	16	15			0	269	1514	6649	16.9	2117161514
1098	11	15	14	4	29	269	0				14
1098	11	14	14			0	213	1418	6279	20.1	14
1098	11	14	18	3	33	213	13	1840	#N/A	#N/A	141840
1098	11	18	40	3	46	226	0				141840
1098	11	40				0	0				21
1100	11	21	21	0	10	70	70	2110	1142	11.1	21
1100	11	10	10	1	10	96	26	1050	#N/A	#N/A	211050
1100	11	10	50	1	36	0	0				211050
1101	11	50				0	0				12
1101	11	12	12			0	23	1211	459	13.6	12
1101	11	11	11	0	23	23	58	1110	1182	13.9	121110
1101	11	11	10	1	21	81	67	1021	1142	11.6	12111021
1101	11	10	21	2	28	148	0				12111021
1101	11	21				0	93		#VALUE!	#VALUE!	7
1103	8	7	7	1	33	93	78		3837	22.4	78
1103	8	7	8	1	33	190	97		3190	27.6	789
1103	8	8	9	3	10	180	40		1621	#N/A	78910
1103	8	9	10	3	50	255	25				7891050
1103	8	10	50	4	15	0	0				10
1104	6	50	10			0	0				10

1104	10	4	1	32	92	104	2895	21.5	104
1104	4	3	2	36	64	43	3122	33.3	1043
1104	3	2	3	15	195	32	2293	40.1	10432
1104	2	60			0	260	#N/A		1043260
1105	60				0				17
1105	17	17			45	1716	1935	29.3	1716
	16	15			0	1615	390		171615
	15				0				17
1106	17	21	1	12	72	1721	2049	19.4	1721
1107	21				0				21
1107	21	21			0				2110
1107	10	10	0	31	31	2110	1142	25.1	21104
1107	10	4	4	33	242	104	2895	8.2	211043
1107	4	3	6	45	132	43	3122	16.1	2110432
1107	3	2	7	13	28	32	2293	55.8	211043260
1107	2	60			0	260	#N/A		
1108	60				0				2
1108	2	2			0				23
1108	3	3	0	44	44	23	2293	35.5	234
1108	3	4	1	58	74	34	3122	28.8	23410
1108	4	10	3	15	195	77	2895	25.6	2341021
1108	10	21	4	23	263	1021	1142	11.5	
1109	21	17			0				17
1109	17	21	0	42	42	1721	2049	33.3	1721
1110	21				0				2
1110	2	2			0				23
1110	3	3	0	60	60	23	2293	26.1	234
1110	10	4	1	55	55	34	3122	38.7	23410
1110	4	10	4	0	240	410	2895	15.8	2341021
1110	10	21	4	33	273	1021	1142	23.6	
1111	21				0				9
1111	9	9			0				91050
1111	10	10	2	0	120	910	1621	9.2	
1111	10	50			0	1050	#N/A		
1112	50				0				17
1112	17	17			0				1721
1112	17	21	1	8	68	1721	2049	20.5	
1113	21				0				21
1113	21	10	0	15	15	2110	1142	51.9	2110
1113	10	4	1	35	80	104	2895	24.7	21104
1113	4	3	3	20	200	43	3122	20.3	211043
1113	3	2	4	10	50	32	2293	31.3	2110432
1113	2	60			0	260	#N/A		211043260
1114	60				0				2
1114	2	2			0				23
1114	2	3	1	0	60	23	2293	26.1	238
1114	3	8	3	5	185	38	4199	22.9	2389
1114	8	9	4	12	252	89	3190	32.5	
1115	9				0				17
1115	17	17			0				1716
1115	16	15	0	54	54	1615	390	4.9	171615
1116	15				0				21
1116	21	21			0				2110
1116	10	10	1	38	98	2110	1142	7.9	21104
1116	10	4	3	50	132	104	2895	15.0	

1116	10	4	3	5	8	308	78	43	3122	27.3	211043
1116	10	3	2	6	0	360	52	32	2293	30.1	2110432
1117	8	2	18			0					18
1117	8	18	14	2	41	161	161	1814	6279	26.6	1814
1118	8	14	19			0					19
1118	8	19	18	2	46	166	166	1918	4370	17.9	1918
1119	9	18	18			0					18
1119	9	18	14	2	37	157	157	1814	6279	27.3	1814
1120	9	14	18			0					18
1120	9	18	14	2	21	141	141	1814	6279	30.4	1814
1121	10	14	13			0					13
1121	10	13	11	2	9	129	129	1311	4947	26.1	1311
1121	10	11	10	2	56	176	47	1110	1182	17.1	131110
1122	10	10	10			0					10
1122	10	10	4	2	1	121	121	104	2895	16.3	104
1122	10	4	3	3	51	231	110	43	3122	19.4	1043
1122	10	3	2	6	0	360	129	32	2293	12.1	10432
1122	10	2	1	6	40	400	40	21	1041	17.7	104321
1123	11	1	10			0					10
1123	11	10	4	1	58	118	118	104	2895	16.7	104
1123	11	4	3	3	12	192	74	43	3122	28.8	1043
1123	11	3	2	4	0	240	48	32	2293	32.6	10432
1124	11	2	2			0					2
1124	11	2	3	2	9	129	129	23	2293	12.1	23
1124	11	3	4	3	55	235	106	34	3122	20.1	234
1124	11	4	10	5	51	351	116	410	2895	17.0	23410
1124	11	10	21	6	21	381	30	1021	1142	26.0	2341021
2001	2	21				0					17
2001	2	17	17	0	50	50	50	1730	#VALUE!	#N/A	1730
2002	2	30	30	3	34	214	164				12
2002	2	12	12			0					1211
2002	2	11	11	1	11	71	71	1211	459	4.4	121110
2002	2	11	10	2	17	137	66	1110	1182	12.2	12111021
2003	2	10	21	2	50	170	33	1021	1142	23.6	12111021
2003	2	21				0					9
2003	2	9	9			0					98
2003	2	9	8	1	7	67	67	98	3190	32.5	98
2003	2	8	3	3	17	197	130	83	4199	22.0	983
2003	2	3	2	4	1	241	44	32	2293	35.5	9832
2004	3	2				0					1
2004	3	1	2			0					12
2004	3	2	3	3	4	184	184	23	1041	8.5	123
2004	3	3	4	4	45	285	101	34	2293	21.1	1234
2004	3	4	10	7	10	430	145	410	3122	13.6	123410
2004	3	10	21	7	48	468	38	1021	2895	20.5	12341021
2004	3	21	17	8	50	530	62	2117	1142	22.5	1234102117
2004	3	17	16	9	50	590	60	1716	1935	22.0	123410211716
2004	3	16	15	9	56	596	6	1815	390	44.3	12341021171615
		15				0					

2034	4	9	9	0	0	44	44	910	1621	25.1	9
2034	4	10	10	0	0	44	44	910	#N/A	#N/A	910
2034	4	50	50	0	0	51	51	1050			91050
2035	4	12	12	1	1	0	0				12
2035	4	11	11	3	3	79	79	1211	459	4.0	1211
2035	4	10	10	3	3	133	133	1110	1162	6.1	121110
2035	4	10	10	4	4	247	247	1021	1142	22.2	12111021
2035	4	21	21	0	0	0	0				
2036	5	9	9	1	1	77	77	98	3190	28.2	9
2036	5	8	8	3	3	149	149	83	4199	19.2	98
2036	5	3	3	2	2	284	284	32	2293	27.0	983
2036	5	2	2	60	60	0	0	260	#N/A		9832
2036	5	60	60	0	0	0	0				983260
2037	5	2	2	0	0	0	0				2
2037	5	2	3	2	2	125	125	23	2293	12.5	23
2037	5	3	4	4	4	254	254	34	3122	16.5	234
2037	5	4	10	5	5	104	104	410	2895	19.0	23410
2037	5	10	21	6	6	397	397	1021	1142	20.0	2341021
2037	5	21	21	0	0	0	0				
2038	5	21	10	1	1	71	71	2110	1142	11.0	21
2038	5	10	50	1	1	19	19	1050	#N/A	#N/A	2110
2038	5	50	50	0	0	0	0				211050
2039	5	12	12	0	0	0	0				12
2039	5	12	11	0	0	56	56	1211	459	5.6	1211
2039	5	11	10	2	2	127	127	1110	1182	11.4	121110
2039	5	10	21	3	3	194	194	1021	1142	11.6	12111021
2039	5	21	21	0	0	0	0				
2040	5	12	12	0	0	0	0				12
2040	5	12	11	0	0	30	30	1211	459	10.4	1211
2040	5	11	10	1	1	78	48	1110	1182	16.8	121110
2040	5	10	21	2	2	134	56	1021	1142	13.9	12111021
2040	5	21	21	0	0	0	0				
2041	5	21	10	0	0	90	90	2110	1142	8.7	21
2041	5	10	50	2	2	131	41	1050	#N/A	#N/A	2110
2041	5	50	50	0	0	0	0				211050
2042	2	7	7	0	0	0	0				7
2042	2	8	8	1	1	64	64	78	3837	40.9	78
2042	2	9	9	2	2	122	58	89	3190	37.5	789
2042	2	10	10	3	3	185	63	910	1621	17.5	78910
2042	2	10	50	3	3	236	51	1050	#N/A	#N/A	7891050
2043	2	1	1	0	0	0	0				1
2043	2	1	2	1	1	62	62	12	1041	11.4	12
2043	2	2	3	3	3	219	157	23	2293	10.0	123
2043	2	3	4	5	4	344	125	34	3122	17.0	1234
2043	2	4	10	7	5	470	126	410	2895	15.7	123410
2043	2	10	21	8	3	513	43	1021	1142	18.1	12341021
2043	2	21	21	0	0	0	0				
2044	1	21	17	2	2	167	167	2117	2049	8.4	21
2044	1	17	20	3	3	220	53	1720	1697	21.8	211720
2044	1	20	19	5	5	330	110	2019	1944	12.0	21172019
2044	1	19	40	5	5	350	20	1940	#N/A	#N/A	2117201940
2044	1	40	40	0	0	0	0				
2046	4	21	21	0	0	0	0				21

2046	4	21	10	1	6	66	2110	1142	11.8	2110
2046	4	10	50	1	46	40	1050	#N/A	#N/A	211050
2047	3	50				0				9
2047	3	9	9			0				910
2047	3	9	10	0	58	58	910	1621	19.1	91050
2047	3	10	50	1	25	27	1050	#N/A	#N/A	
2048	3	50				0				12
2048	3	12	12			0				1210
2048	3	12	10	1	22	82	1210	#N/A	#N/A	121021
2048	3	21	21	2	55	93	1021	1142	8.4	
2049	3	21				0				1
2049	3	1	2	0	56	56	12	1041	12.7	12
2049	3	2	3	3	31	155	23	2293	10.1	123
2049	3	3	4	5	0	211	34	3122	23.9	1234
2049	3	3	4	6	54	300	89	2895	17.3	123410
2049	3	4	10	6	54	114	410	1142	16.2	12341021
2049	3	10	21	7	42	462	1021			
2050	2	21				0				21
2050	2	21	21			0				2110
2050	2	21	10	1	12	72	2110	1142	10.8	21104
2050	2	10	4	3	58	166	104	2895	11.9	211043
2050	2	4	3	5	52	114	43	3122	18.7	2110432
2050	2	3	2	7	0	352	244	2293	23.0	21104321
2050	2	2	1	7	20	68	32	1041	35.5	
2051	4	1				0				21
2051	4	21	21			0				2110
2051	4	21	10	1	56	116	2110	1142	6.7	21104
2051	4	10	4	5	15	199	104	2895	9.9	211043
2051	4	4	3	9	19	559	43	3122	8.7	2110432
2051	4	3	2	10	3	603	44	2293	#N/A	211043260
2051	4	2	60	11	3	663	60	260	#N/A	
2053	5	60				0				21
2053	5	21	21			0				2110
2053	5	10	10	1	7	67	2110	1142	11.6	211050
2053	5	50	50	2	21	141	1050	#N/A	#N/A	
2054	5	12				0				12
2054	5	12	11	0	38	38	1211	459	8.2	1211
2054	5	11	10	1	26	48	1110	1182	16.8	121110
2054	5	10	21	2	9	129	43	1142	18.1	12111021
2055	5	21				0				9
2055	5	9	9			0				98
2055	5	8	8	1	20	80	98	3190	27.2	983
2055	5	3	3	3	50	230	83	4199	19.1	9832
2055	5	2	2	4	38	278	48	2293	32.6	
2056	4	2				0				12
2056	4	12	12			0				1211
2056	4	12	11	0	31	31	1211	459	10.1	121110
2056	4	11	10	1	48	108	77	1162	10.5	12111021
2056	4	10	21	2	354	474	1021	1142	2.1	
2057	4	21				0				21
2057	4	21	10	1	21	81	2110	1142	9.6	2110
2057	4	10	50	2	42	162	1050	#N/A	#N/A	211050
2059	3	50				0				18
2059	3	18	18			0				1814
2059	3	14	14	3	18	198	1814	6279	21.6	
2060	3	21	21			0				21
2060	3	21	17	2	29	149	2117	2049	9.4	2117

2060	3	17	20	5	7	307	158	1720	1697	7.3	211720
2060	3	20	19	6	38	398	91	2019	1944	14.6	21172019
2060	3	19	18	9	52	592	194	1918	4370	15.4	2117201918
2061	3	18				0					
2061	3	12	11	1	25	85	85	1211	459	3.7	12
2061	3	11	10	4	25	265	180	1110	1162	4.5	121110
2061	3	10	21	5	1	301	36	1021	1142	21.6	12111021
2061	3	21				0					
2062	3	7	7			0					7
2062	3	8	8	1	25	85	85	78	3837	30.8	78
2062	3	9	9	2	36	156	71	89	3190	30.6	789
2062	3	10	10	4	13	253	97	910	1621	11.4	78910
2062	3	10	50	5	23	323	70	1050	#N/A	#N/A	7891050
2063	2	50				0					
2063	2	21	21			0					21
2063	2	21	10	1	58	118	118	2110	1142	6.6	2110
2063	2	10	4	3	34	214	96	1110	2895	20.6	21104
2063	2	4	3	4	27	267	53	43	3122	40.2	211043
2063	2	3	2	5	7	307	40	32	2283	39.1	2110432
2064	2	2				0					
2064	2	12	12			0					12
2064	2	12	11	0	42	42	42	1211	459	7.5	1211
2064	2	11	10	2	45	165	123	1110	1182	6.6	121110
2064	2	10	21	3	53	233	68	1021	1142	11.5	12111021
2065	2	21				0					
2065	2	21	21			0					21
2065	2	21	10	0	41	41	41	2110	1142	19.0	2110
2065	2	10	50	1	50	110	69	1050	#N/A	#N/A	211050
2066	2	50				0					
2066	2	12	12			0					12
2066	2	12	11	0	40	40	40	1211	459	7.8	1211
2066	2	11	10	1	45	105	65	1110	1182	12.4	121110
2066	2	10	21	2	19	139	34	1021	1142	22.9	12111021
2067	2	21				0					
2067	2	21	21			0					21
2067	2	21	10	0	46	46	46	2110	1142	16.9	2110
2067	2	10	50	2	16	136	90	1050	#N/A	#N/A	211050
2068	2	50				0					
2068	2	21	21			0					21
2068	2	21	10	0	59	59	59	2110	1142	13.2	2110
2068	2	10	50	2	43	163	104	1050	#N/A	#N/A	211050
2069	1	50				0					
2069	1	17	17			0					17
2069	1	17	20	0	52	52	52	1720	1697	22.3	1720
2069	1	20	19	1	32	92	40	2019	1944	33.1	172019
2069	1	19	40	1	52	112	20	1940	#N/A	#N/A	17201940
2070	1	40				0					
2070	1	21	21			0					21
2070	1	21	10	1	19	79	79	2110	1142	9.9	2110
2070	1	10	50	2	29	149	70	1050	#N/A	#N/A	211050
2071	1	50				0					
2071	1	10	10			0					10
2071	1	10	4	2	29	149	149	104	2895	13.2	104
2071	1	4	3	4	18	258	109	43	3122	19.5	1043
2071	1	3	2	5	49	349	31	32	2293	17.2	10432
2071	1	2	1	6	20	380	31	21	1041	22.9	104321
2072	2	1				0					
2072	2	10	10	2	25	145	145	104	2895	13.6	104

2072	2	4	3	4	46	286	141	43	3122	15.1	1043
2072	2	3	2	5	37	337	51	32	2293	30.7	10432
		2				0					
2073	2		10			0					10
2073	2	10	4	2	46	166	66	104	2895	11.9	104
2073	2	4	3	3	55	235	69	43	3122	30.8	1043
2073	2	3	2	4	37	277	42	32	2293	37.2	10432
		2				0					
2074	2		10			0					10
2074	2	10	4	2	14	134	134	104	2895	14.7	104
2074	2	4	3	3	42	222	88	43	3122	24.2	1043
2074	2	3	2	4	32	272	50	32	2293	31.3	10432
		2				0					
2075	3		10			0					10
2075	3	10	4	1	22	82	82	104	2895	24.1	104
2075	3	4	3	2	40	160	78	43	3122	27.3	1043
2075	3	3	2	3	2	182	22	32	2293	71.1	10432
		2				0					
2076	4		13			0					13
2076	4	13	11	1	55	115	115	1311	4947	29.3	1311
2076	4	11	10	3	8	188	73	1110	1182	11.0	131110
2076	4	10	21	3	43	223	35	1021	1142	22.2	13111021
		21				0					
2077	4		21			0					21
2077	4	21	10	2	50	170	170	2110	1142	4.6	2110
2077	4	10	4	4	43	283	113	104	2895	17.5	21104
2077	4	4	3	7	30	450	167	43	3122	12.7	211043
2077	4	3	2	8	20	500	50	32	2293	31.3	2110432
		2				0					
2078	5		10			0					10
2078	5	10	4	3	46	226	104	104	2895	8.7	104
2078	5	4	3	7	36	456	230	43	3122	9.3	1043
2078	5	3	2	10	4	604	148	32	2293	10.6	10432
2078	5	2	1	10	23	623	19	21	1041	37.4	104321
		1				0					
2080	1		12			0					12
2080	1	12	5	4	2	242	242	125	1482	4.2	125
2080	1	5	4	5	2	302	60	54	2101	23.9	1254
2080	1	4	3	6	55	415	113	43	3122	18.8	12543
2080	1	3	2	8	21	501	86	32	2293	18.2	125432
2080	1	2	60	8	49	529	28	260	#N/A	#N/A	12543260
		60				0					
2081	2		2			0					2
2081	2	2	3	1	8	68	68	23	2293	23.0	23
2081	2	3	4	3	7	187	119	34	3122	17.9	234
2081	2	4	10	4	15	255	68	410	2895	29.0	23410
2081	2	10	21	4	45	285	30	1021	1142	26.0	2341021
		21				0					
2082	2		21			0					21
2082	2	21	10	2	26	146	146	2110	1142	5.3	2110
2082	2	10	4	3	56	236	90	104	2895	21.9	21104
2082	2	4	3	5	53	363	117	43	3122	18.2	211043
2082	2	3	2	8	7	487	134	32	2293	11.7	2110432
2082	2	2	60	8	32	512	25	260	#N/A	#N/A	211043260
		60				0					
2083	2		2			0					2
2083	2	2	3	1	50	110	110	23	2293	14.2	23
2083	2	3	4	4	22	262	152	34	3122	14.0	234

2083	4	10	8	19	499	237	410	2895	8.3	23410
2083	10	21	8	52	532	33	1021	1142	23.6	2341021
2084	21				0					21
2084	21	21			47	47	2110	1142	16.6	2110
2084	10	4	2	46	166	119	104	2895	16.6	21104
2084	4	3	4	21	261	95	43	3122	22.4	211043
2084	3	2	4	59	299	38	32	2293	41.1	2110432
2084	2	60			0			#N/A		211043260
2085	60				0					14
2085	14	14			0					1418
2085	14	18	4	16	256	256	1418	6279	16.7	1418
2086	18				0					6
2086	3	6			248	248	65	5305	14.6	65
2086	3	5	4	8	298	50	54	2101	28.7	654
2086	3	4	4	58	396	98	43	3122	21.7	6543
2086	3	3	6	36	520	124	32	2293	12.6	65432
2086	3	2	8	40	545	25	21	1041	28.4	654321
2086	2	1	9	5	0					14
2087	1				0					1415
2087	14	14			125	125	1415	6649	36.3	1415
2087	14	15	2	5	0			390		141516
2087	15	16			185	185	1617	1935	7.1	14151617
2087	4	17	30	5	0			#N/A		1415161730
2088	4	30			0					21
2088	4	21			0			1142	12.6	2110
2088	4	10	10	1	62	62	2110	#N/A	#N/A	211050
2088	4	50	50	28	88	26	1050			211050
2088	4				0					12
2089	4				0					1211
2089	4	12			57	57	1211	459	5.5	121110
2089	4	11	0	57	162	105	1110	1162	7.7	1211109
2089	4	10	2	42	205	43	109	1621	25.7	12111098
2089	4	9	3	25	268	63	98	3190	34.5	121110987
2089	4	8	4	28	376	108	87	3837	24.2	121110987
2090	4	7			0					18
2090	4	18			0			6279	18.9	1814
2090	4	18	3	47	227	227	1814			15
2091	14				0					1598
2091	5	15			0			2705	24.3	15983
2091	5	9	1	16	76	76	159	3190	22.2	159832
2091	5	8	2	54	174	98	98	4199	17.9	15983260
2091	5	8	5	34	334	160	83	2293	27.4	15983260
2091	5	3	6	31	391	57	32	#N/A		12
2091	5	2	60		0					1211
2092	5	60			0					121110
2092	5	12			0			459	4.7	12111021
2092	5	12	1	7	67	67	1211	1182	9.3	12111021
2092	5	11	10	34	154	87	1110	1142	23.6	12111021
2092	5	10	21	7	187	33	1021			2
2092	5	21			0					23
2095	4	2			0			2293	10.6	238
2095	4	3	3	28	148	148	23	4199	20.9	2389
2095	4	3	8	45	285	137	38	3190	20.7	21
2095	4	8	9	30	390	105	89			2110
2096	4	9			0					
2096	4	21			0			1142	19.5	
2098	4	21	10	40	40	40	2110			

2098	4	10	11	1	10	70	30	1011	1182	26.9	211011
2098	4	11	13	5	5	305	235	1113	4947	14.4	21101113
		13				0	0				
						0	0				
2099	4	2	3	2	37	157	157	23	2293	10.0	2
2099	4	3	4	3	43	223	66	34	3122	32.3	23
2099	4	4	10	5	8	308	85	410	2895	23.2	23410
2099	4	10	21	6	5	365	57	1142	1142	13.7	2341021
		21				0	0				
2100	3	6	6			0	0				6
2100	3	6	5	4	37	277	277	65	5305	13.1	65
2100	3	5	4	5	26	328	51	54	2101	28.1	654
2100	3	4	3	7	5	425	97	43	3122	21.9	6543
2100	3	3	2	9	10	550	125	32	2293	12.5	65432
2100	3	2	60	9	37	577	27	260	#N/A	#N/A	6543260
2100	3	60				0	0				
						0	0				
						0	0				
2101	3	21	10	0	56	56	56	2110	1142	13.9	21
2101	3	10	50			0	0	1050	#N/A		2110
2101	3	50				0	0				211050
						0	0				
2102	3	9	10	1	38	98	98	910	1621	11.3	9
2102	3	10	21	2	37	157	59	1021	1142	13.2	910
2102	3	21				0	0				91021
2103	3	21	21			0	0				21
2103	3	21	10	2	35	155	155	2110	1142	5.0	2110
2103	3	10	9	3	55	235	80	109	1621	13.8	21109
		9				0	0				
2104	3	12	11	2	7	127	127	1211	459	2.5	12
2104	3	11	10			0	0	1110	1182		1211
2104	3	10	21	3	35	215	215	1021	1142	3.6	121110
		21				0	0				12111021
						0	0				
2015	3	21	21	0	45	45	45	2110	1142	17.3	21
2105	3	10	50			0	0	1050	#N/A		2110
2105	3	50				0	0				211050
2106	2	9	9			0	0				9
2106	2	9	10	1	35	95	95	910	1621	11.6	910
2106	2	10	50			0	0	1050	#N/A		91050
		50				0	0				
2107	2	12	12			0	0				12
2107	2	12	11	0	53	53	53	1211	459	5.9	1211
2107	2	11	10	1	26	86	33	1110	1182	24.4	121110
2107	2	10	9	2	17	137	51	109	1621	21.7	1211109
2107	2	9	8	4	30	270	133	98	3190	16.4	12111098
2107	2	8	7	5	35	335	65	87	3837	40.2	121110987
		7				0	0				
2108	2	2	2			0	0				2
2108	2	2	3	1	35	95	95	23	2293	16.5	23
2108	2	3	8	4	0	240	145	38	4199	19.7	238
2108	2	8	9	5	12	312	72	89	3190	30.2	2389
		9				0	0				
2109	2	21	21			0	0				21
2109	2	21	10	1	30	90	90	2110	1142	8.7	2110
2109	2	10	4	4	39	279	189	104	2895	10.4	21104
2109	2	4	3	6	45	405	126	43	3122	16.9	211043
2109	2	3	2			0	0	32	2293		2110432

2120	4	7	14	1	26	86	86	714	1496	11.9	714	714
2120	4	14	18	3	30	210	124	1418	6279	34.5	71418	7141840
2120	4	18	40			0	0	1840	#N/A			
2121	5	40				0	0					
2121	5	21	21			0	0				21	
2121	5	21	10	2	2	122	122	2110	1142	6.4	2110	
2121	5	10	4	4	50	168	290	104	2895	11.7	21104	
2121	5	4	3	8	32	222	512	43	3122	9.6	211043	
2121	5	3	2	9	5	545	33	32	2293	47.4	2110432	
2121	5	2	60			0	0	260	#N/A		211043260	
2122	2	60				0	0			#VALUE!	10	
2122	2	10	10	1	18	78	78	1050	#N/A	#N/A	1050	
2122	2	10	50	1	50	110	32	1050	#N/A			
2123	2	50				0	0					
2123	2	13	13			0	0				13	
2123	2	13	11	1	20	80	80	1311	4947	42.2	1311	
2123	2	11	10	1	55	35	115	1110	1182	23.0	131110	
2123	2	10	21	3	39	104	219	1021	1142	7.5	13111021	
2124	2	21				0	0					
2124	2	21	21			0	0				21	
2124	2	21	17	1	20	80	80	2117	2049	17.5	2117	
2124	2	17	20	3	43	143	223	1720	1697	8.1	211720	
2124	2	20	19	5	17	317	94	2019	1944	14.1	21172019	
2124	2	19	18	7	44	147	464	1918	4370	20.3	2117201918	
2125	1	18				0	0					
2125	1	13	13			0	0				13	
2125	1	13	11	1	51	111	111	1311	4947	30.4	1311	
2125	1	11	10	2	31	151	40	1110	1182	20.1	131110	
2125	1	10	21	3	18	47	198	1021	1142	16.6	13111021	
2126	1	21				0	0					
2126	1	21	21			0	0				21	
2126	1	21	10	1	7	67	67	2110	1142	11.6	2110	
2126	1	10	4	2	27	147	80	104	2895	24.7	21104	
2126	1	4	3	4	7	247	100	43	3122	21.3	211043	
2126	1	3	2	5	12	312	65	32	2293	24.1	2110432	
2127	2	2				0	0					
2127	2	2	2			0	0				2	
2127	2	2	3	2	17	137	137	23	2293	11.4	23	
2127	2	3	4	3	28	208	71	34	3122	30.0	234	
2127	2	4	10	5	45	345	137	410	2895	14.4	23410	
2127	2	10	21	6	42	402	57	1021	1142	13.7	2341021	
2128	2	21				0	0					
2128	2	21	21			0	0				21	
2128	2	21	10	0	39	39	39	2110	1142	20.0	2110	
2129	2	10				0	0					
2129	2	12	12			0	0				12	
2129	2	12	11	0	31	31	31	1211	459	10.1	1211	
2129	2	11	10	1	48	108	77	1110	1182	10.5	121110	
2129	2	10	21	2	17	137	29	1021	1142	26.8	12111021	
2133	3	21				0	0					
2133	3	10	10			0	0				10	
2133	3	10	4	1	36	96	96	104	2895	20.6	104	
2133	3	4	3	3	1	181	86	43	3122	25.0	1043	
2133	3	3	2	4	43	102	102	32	2293	15.3	10432	
2133	3	2	1	5	4	304	21	21	1041	33.8	104321	
2137	5	1				0	0					
2137	5	2	2			0	0				2	
2137	5	2	3	2	56	176	176	23	2293	8.9	23	

direction followed
 based on the field map
 onto or from one of the
 and any other notes

#N/A in the Link Distance or Avg. Link Speed Column represents
 a vehicle exiting the network via SR 0015 or SR 0581

Link Distance (ft)	Avg. Link Speed (mph)
390	
1935	
2049	
1142	
#N/A	#VALUE!
1142	
#N/A	#VALUE!
4370	
1944	
1697	
2049	
1142	
#N/A	#VALUE!
2293	
3122	
2895	
1142	
2049	
1697	
#N/A	#VALUE!
459	
1182	
1142	
#N/A	#VALUE!
459	
1182	
1142	
#N/A	#VALUE!
1142	
#N/A	#VALUE!
2049	

#N/A	1142 1621 3190 4199 2293	#VALUE!
#N/A	1142	#VALUE!
	459 1182 1142	#VALUE!
	3190 3837	#VALUE!
#N/A	4199 2293	#VALUE!
	2293 4199 3837 1496	#VALUE!
	2293 3122 2895 1142	#VALUE!
	4370 1944 1697 2049	#VALUE!
	4947 1182 1621	#VALUE!
	1041 2293 3122 2101 5305	

	433	
	4947	
	1182	
	1621	
	3190	
	3837	#VALUE!
	1142	
	2895	
	3122	
	2293	#VALUE!
	459	
	1182	#VALUE!
	1935	
	390	#VALUE!
		#VALUE!
	1142	
	2895	
	3122	
	2293	#VALUE!
#N/A		
	459	
	1182	
	1621	
	3190	
	3837	#VALUE!
#N/A	1142	#VALUE!
	459	
	1182	
	1142	#VALUE!

	1142 1182 4947
#N/A	#VALUE!
	4947 1182 1142
	#VALUE!

Ctrl Point	Intersection	Link ID	Distance	
1	2	12	1041	1-2
2	1	21	1041	2-1
2	3	23	2293	2-3
3	2	32	2293	3-2
3	4	34	3122	3-4
3	8	38	4199	3-8
4	3	43	3122	4-3
4	5	45	2101	4-5
5	4	54	2101	5-4
5	6	56	5305	5-6
6	5	65	5305	6-5
7	8	78	3837	7-8
8	3	83	4199	8-3
8	7	87	3837	8-7
8	9	89	3190	8-9
9	8	98	3190	9-8
10	4	104	2895	10-4
10	9	109	1621	10-9
12	5	125	1482	12-5
13	6	136	433	13-6
14	7	147	1496	14-7
15	9	159	2705	15-9
4	10	410	2895	4-10
5	12	512	1482	5-12
6	13	613	433	6-13
7	14	714	1496	7-14
9	10	910	1621	9-10
9	15	915	2705	9-15
10	11	1011	1182	10-11
10	21	1021	1142	10-21
11	10	1110	1182	11-10
11	12	1112	459	11-12
11	13	1113	4947	11-13
12	11	1211	459	12-11
13	11	1311	4947	13-11
14	15	1415	6649	14-15
14	18	1418	6279	14-18
15	14	1514	6649	15-14
15	16	1516	390	15-16
16	15	1615	390	16-15
16	17	1617	1935	16-17
16	19	1619	2411	16-19
17	16	1716	1935	17-16
17	20	1720	1697	17-20
17	21	1721	2049	17-21
18	14	1814	6279	18-14
18	19	1819	4370	18-19
19	16	1916	2411	19-16
19	18	1918	4370	19-18
19	20	1920	1944	19-20
20	17	2017	1697	20-17
20	19	2019	1944	20-19
21	10	2110	1142	21-10
21	17	2117	2049	21-17

Truck O-D Data

Truck O-D Links TOTAL		
	Link	Number
1	1-2	6
2	2-1	10
3	2-3	32
4	3-2	55
5	3-4	24
6	3-8	8
7	4-3	42
8	4-5	1
9	5-4	3
10	5-6	1
11	6-5	2
12	7-8	10
13	8-3	13
14	8-7	11
15	8-9	14
16	9-8	21
17	10-4	39
18	10-9	21
19	12-5	1
20	13-6	0
21	14-7	3
22	15-9	1
23	4-10	23
24	5-12	0
25	6-13	1
26	7-14	5
27	9-10	22
28	9-15	1
29	10-11	3
30	10-21	60
31	11-10	51
32	11-12	0
33	11-13	4
34	12-11	41
35	13-11	11
36	14-15	3
37	14-18	5
38	15-14	1
39	15-16	5
40	16-15	6
41	16-17	5
42	16-19	0
43	17-16	6
44	17-20	8
45	17-21	13
46	18-14	11
47	18-19	3
48	19-16	0
49	19-18	5
50	19-20	3
51	20-17	3
52	20-19	6
53	21-10	72
54	21-17	12
55	10-50	57
56	2-60	31
57	17-40	0
58	17-30	2
59	50-40	0
60	50-30	0

Truck O-D Links		
	Truck Path	Number
1	1-2-3-4-10-21	4
2	1-2-3-4-10-9	0
3	50-2-3-4-10-9	0
4	50-2-3-4-10-21	0
5	10-4-3-2-1	4
6	10-4-3-2-60	5
7	12-11-10-9	8
8	12-11-10-21	26
9	9-8-3-2-1	1
10	9-8-3-2-60	2
11	1-2-3-8-9	0
12	50-2-3-8-9	0
13	9-10-4-3-2-1	0
14	9-10-4-3-2-60	0
15	30-17-21	0
16	40-17-21	0

Truck O-D Links Modified		
	Truck Path	Number
1	1-2-3-4-10-21	0
2	1-2-3-4-10-9	0
3	50-2-3-4-10-9	0
4	50-2-3-4-10-21	0
5	10-4-3-2-1	0
6	10-4-3-2-60	0
7	12-11-10-9	1
8	12-11-10-21	4
9	9-8-3-2-1	0
10	9-8-3-2-60	0
11	1-2-3-8-9	0
12	50-2-3-8-9	0
13	9-10-4-3-2-1	0
14	9-10-4-3-2-60	0
15	30-17-21	0
16	40-17-21	0

Truck O-D Links TOTAL		
	Truck Path	Number
1	1-2-3-4-10-21	4
2	1-2-3-4-10-9	0
3	50-2-3-4-10-9	0
4	50-2-3-4-10-21	0
5	10-4-3-2-1	4
6	10-4-3-2-60	5
7	12-11-10-9	9
8	12-11-10-21	30
9	9-8-3-2-1	1
10	9-8-3-2-60	2
11	1-2-3-8-9	0
12	50-2-3-8-9	0
13	9-10-4-3-2-1	0
14	9-10-4-3-2-60	0
15	30-17-21	0
16	40-17-21	0

17	10-4-3-2	15
18	2-3-4-10	17
19	12-11-10	34
20	2-3-8	6

17	10-4-3-2	0
18	2-3-4-10	2
19	12-11-10	6
20	2-3-8	1

17	10-4-3-2	15
18	2-3-4-10	19
19	12-11-10	40
20	2-3-8	7

Starting Points		
21	2	24
22	10	18
23	17	12
24	21	69

Starting Points		
20	2	3
21	10	0
22	17	2
23	21	7

Starting Points		
20	2	27
21	10	18
22	17	14
23	21	76

Additional Links		
25	21-17	9
26	21-10	60

Additional Links		
25	21-17	0
26	21-10	7

Additional Links		
25	21-17	9
26	21-10	67

*See the map for the definition of which intersection corresponds to which number.

15 NB 30
15 SB 40
581 EB 50
581 WB 60

TOTAL RUNS : 258

27	9-10-50	14
28	9-10-4	0
29	9-8-3	6
30	10-4-3	15

27	9-10-50	0
28	9-10-4	0
29	9-8-3	0
30	10-4-3	0

27	9-10-50	14
28	9-10-4	0
29	9-8-3	6
30	10-4-3	15

31	21-10-50	29
32	21-10-4	20
33	21-10-9	4
34	21-10-11	2

31	21-10-50	4
32	21-10-4	2
33	21-10-9	0
34	21-10-11	1

31	21-10-50	33
32	21-10-4	22
33	21-10-9	4
34	21-10-11	3

Directions:

Input the O-D number in the first column. In the "End Link" Column, put in the first intersection followed by each intersection recorded on the map. Input the time in minutes and seconds as the running total from the field map. For vehicles traveling onto or from one of the major routes, use the following values for data entry. Include the truck type (if given) and any other notes from the sheets in the notes column.

15 NB 30
 15 SB 40
 581 EB 50
 581 WB 60

#N/A in the Link Distance or Avg. Link Speed Column represents a vehicle exiting the network via SR 0015 or SR 0951

O-D Number	Hour of Day	Start Link	Time - Running Total		Total (s)	Link Time (s)	Link ID	Link Distance (ft)	Avg. Link Speed (mph)	Truck Route
			End Link	Minutes						
2001	2	17	0	0	0	50				0
2001	2	30	3	34	214	164	1730	#N/A	#VALUE!	17
		30			0				#N/A	1730
2002	2	12	0	0	0					12
2002	2	11	1	11	71	71	1211	459	4.4	1211
2002	2	11	10	17	137	66	1110	1162	12.2	12110
2002	2	10	21	50	170	33	1021	1142	23.6	12111021
		21			0					
2003	2	9	8	7	67	67	98	3190	32.5	9
2003	2	8	3	17	197	130	83	4199	22.0	98
2003	2	3	2	4	241	44	32	2293	35.5	983
		2			0					9832
2004	3	1	1	0	0					1
2004	3	1	2	3	0					12
2004	3	2	3	4	184	184	23	2293	8.5	12
2004	3	3	4	45	285	101	34	3122	21.1	1234
2004	3	4	7	10	430	145	410	2895	13.6	123410
2004	3	10	21	48	468	38	1021	1142	20.5	12341021
2004	3	21	17	8	530	62	2117	2049	22.5	1234102117
2004	3	17	16	9	590	60	1716	1935	22.0	123410211716
2004	3	16	15	9	596	6	1615	390	44.3	12341021171615
		15			0					
2005	3	18	14	2	0					18
2005	3	14		50	170	170	1814	6279	25.2	1814
		14			0					
2006	3	18	18	0	0					18
2006	3	14	7	57	177	177	1814	6279	24.2	1814
2006	3	14	7	15	255	78	147	1496	13.1	18147
		7			0					
2007	4	21	21	0	0					21
2007	4	10	1	10	70	70	2110	1142	11.1	2110
		10			0					
2010	5	12	12	0	0					12
2010	5	11	11	3	180	180	1211	459	1.7	1211
2010	5	11	10	36	216	36	1110	1182	22.4	121110
2010	5	10	21	4	266	50	1021	1142	15.6	12111021
		21			0					
2011	2	40	40	0	0					40
2011	2	17	17	1	62	62	4017	#N/A	#N/A	4017
		17			0					
2012	1	21	21	0	0					21
2012	1	10	10	32	92	92	2110	1142	8.5	2110
2012	1	4	4	4	124	32	104	2895	61.7	21104
2012	1	3	3	13	183	69	43	3122	30.8	211043
2012	1	3	2	3	231	38	32	2293	41.1	2110432
2012	1	2	60	4	261	30	280	#N/A	#N/A	211043280

2025	3	4	3	3	59	239	96	43	3122	22.2	211043
2025	3	3	2	4	54	294	55	32	2293	28.4	2110432
2025	3	2	60			0	0	260	#N/A		211043260
2026	3	2	2			0	0				2
2026	3	3	3	3	17	197	197	23	2293	7.9	23
2026	3	4	4	4	38	278	81	34	3122	26.3	234
2026	3	4	10	7	27	447	169	410	2895	11.7	23410
2026	3	10	21	8	10	490	43	1021	1142	18.1	2341021
2027	3	21				0	0				21
2027	3	21	10	0	39	39	39	2110	1142	20.0	2110
2027	3	10	50	0	53	53	14	1050	#N/A	#N/A	211050
2028	4	50				0	0				21
2028	4	21	10	0	42	42	42	2110	1142	18.5	2110
2028	4	10	50	0	56	56	14	1050	#N/A	#N/A	211050
2028	4	50				0	0				12
2029	4	12	11	1	12	72	72	1211	459	4.3	1211
2029	4	11	10	2	35	155	83	1110	1162	9.7	121110
2029	4	10	21	3	22	202	47	1021	1142	16.6	12111021
2030	4	21				0	0				21
2030	4	21	10	1	28	88	88	2110	1142	8.8	2110
2030	4	10	50	1	57	117	29	1050	#N/A	#N/A	211050
2032	4	50				0	0				21
2032	4	21	10	1	5	65	65	2110	1142	12.0	2110
2032	4	10	50	1	18	78	13	1050	#N/A	#N/A	211050
2033	4	50				0	0				12
2033	4	12	11	1	7	67	67	1211	459	4.7	1211
2033	4	11	10	2	55	175	108	1110	1162	7.5	121110
2033	4	10	21	3	35	215	40	1021	1142	19.5	12111021
2034	4	21				0	0				9
2034	4	9	10	0	44	44	44	910	1621	25.1	910
2034	4	10	50	0	51	51	7	1050	#N/A	#N/A	91050
2035	4	50				0	0				12
2035	4	12	11	1	19	79	79	1211	459	4.0	1211
2035	4	11	10	3	32	212	133	1110	1182	6.1	121110
2035	4	10	21	4	7	247	35	1021	1142	22.2	12111021
2036	5	21				0	0				9
2036	5	9	8	1	17	77	77	98	3190	28.2	98
2036	5	8	3	3	46	226	149	83	4199	19.2	983
2036	5	3	2	4	44	284	58	32	2293	27.0	9832
2036	5	2	60			0	0	260	#N/A		983260
2037	5	60				0	0				2
2037	5	2	3	2	5	125	125	23	2293	12.5	23
2037	5	3	4	4	14	284	129	34	3122	16.5	234
2037	5	4	10	5	58	358	104	410	2895	19.0	23410
2037	5	10	21	6	37	397	39	1021	1142	20.0	2341021
2038	5	21				0	0				21
2038	5	21	10	1	11	71	71	2110	1142	11.0	2110
2038	5	10	50	1	30	90	19	1050	#N/A	#N/A	211050

2113	1	10	4	3	37	146	104	2895	13.5	21104
2113	1	4	3	5	20	103	43	3122	20.7	211043
2113	1	3	2	6	30	70	32	2293	22.3	2110432
2114	1	2	2			0				2
2114	1	2	3	1	45	105	23	2293	14.9	23
2114	1	3	4	2	42	57	34	3122	37.3	234
2114	1	4	10	5	5	143	40	2895	13.8	23410
2114	1	10	21	5	42	342	1021	1142	21.0	2341021
2115	1	21				0				21
2115	1	21	21			0				21
2115	1	21	10	1	10	70	2110	1142	11.1	2110
2115	1	10	4	3	3	118	104	2895	16.7	21104
2115	1	4	3	4	20	188	43	3122	29.6	211043
2115	1	3	2	5	10	260	32	2293	31.3	2110432
2115	1	2	60			50	260	#N/A		211043260
2116	2	60				0				17
2116	2	17	21	1	3	63	1721	2049	22.2	1721
2117	2	21				0				17
2117	2	17	17	0	46	46	1721	2049	30.4	1721
2117	2	21	10	1	20	34	1142	2049	22.9	172110
2117	2	10	4	3	20	120	104	2895	16.4	1721104
2117	2	4	3	4	56	96	43	3122	22.2	17211043
2117	2	3	2	5	56	60	32	2293	26.1	172110432
2117	2	2	1	5	55	355	21	1041	#VALUE!	1721104321
2118	3	1				0				17
2118	3	17	21	0	50	50	1721	2049	27.9	1721
2119	4	21				0				17
2119	4	17	16			0	1716	1935	4.4	1716
2119	4	16	15	1	1	61	1615	390		171615
2120	4	15				0				7
2120	4	7	7	0	86	86	714	1496	11.9	714
2120	4	14	18	3	30	124	1418	6279	34.5	71418
2120	4	18	40			0	1840	#N/A		7141840
2120	4	40				0				21
2121	5	21	21			0				21
2121	5	21	10	2	2	122	2110	1142	6.4	2110
2121	5	10	4	4	50	168	104	2895	11.7	21104
2121	5	4	3	8	32	222	43	3122	9.6	211043
2121	5	3	2	9	5	33	32	2293	47.4	2110432
2121	5	2	60			0	260	#N/A		211043260
2122	2	60				0				10
2122	2	10	10	1	18	78	1050	#N/A	#VALUE!	10
2122	2	50	50	1	50	32	1050	#N/A	#N/A	1050
2123	2	50				0				13
2123	2	13	11	1	20	80	1311	4947	42.2	1311
2123	2	11	10	1	55	35	1110	1182	23.0	131110
2123	2	10	21	3	39	104	1021	1142	7.5	13111021
2124	2	21				0				21
2124	2	21	21			0				21
2124	2	21	17	1	20	80	2117	2049	17.5	2117
2124	2	17	20	3	43	143	1720	1697	8.1	211720
2124	2	20	19	5	17	317	2019	1944	14.1	21172019
2124	2	19	18	7	44	147	1918	4370	20.3	2117201918

Directions:

Input the O-D number in the first column. In the "End Link" Column, put in the first inter by each intersection recorded on the map. **Input the total time in minutes and seconds one space below the cell adjacent to the last link recorded.** For vehicles traveling major routes, use the following values for data entry. Include the truck type (if given) as from the sheets in the notes column.

15 NB 30
 15 SB 40
 581 EB 50
 581 WB 60

Time - Running Total							Total (s)	Link Time (s)	Link ID
O-D Number	Hour of Day	Start Link	End Link	Minutes	Seconds				
							0		
							0		
							0		
							0		
					3	34	214	214	
							0		
4002	4		21				0		
4002	4	21	10				0		2110
4002	4	10	4				0		104
4002	4	4	3				0		43
4002	4	3	2				0		32
4002	4	2	60				0		260
		60		11	18		678	678	
							0		
4003	5		12				0		
4003	5	12	11				0		1211
4003	5	11	10				0		1110
4003	5	10	9				0		109
4003	5	9	8				0		98
4003	5	8	7				0		87
4003	5	7		5	45		345	345	
							0		
4004	4		21				0		
4004	4	21	10				0		2110
4004	4	10	50				0		1050
4004	4	50		2	45		165	165	
							0		
							0		
							0		
4007	3		12				0		
4007	3	12	11				0		1211
4007	3	11	10				0		1110
4007	3	10	21				0		1021
4007	3	21		5	13		313	313	
							0		
							0		
							0		
4010	2		21				0		
4010	2	21	10				0		2110
4010	2	10	11				0		1011
4010	2	11	13				0		1113
4010	2	13	40				0		1340
4010	2	40		8	16		496	496	
							0		
							0		
4012	4		13				0		
4012	4	13	11				0		1311
4012	4	11	10				0		1110
4012	4	10	21				0		1021
4012	4	21		4	53		293	293	
							0		

Intersection followed
 ends from the field map
 onto or from one of the
 and any other notes

#N/A in the Link Distance or Avg. Link Speed Column represents
 a vehicle exiting the network via SR 0015 or SR 0581

Link Distance (ft)	Avg. Link Speed (mph)
#N/A	#VALUE!
1142	
2895	
3122	
2293	
#N/A	#VALUE!
459	
1182	
1621	
3190	
3837	
#N/A	#VALUE!
1142	
#N/A	#VALUE!
459	
1182	
1142	
#N/A	#VALUE!
1142	
1182	
4947	
#N/A	#VALUE!
4947	
1182	
1142	
#N/A	#VALUE!

PLEASE FOLLOW THIS FORMAT AND NUMBERING SCHEME
WHEN ENTERING THE DATA. (3000's for AM and 4000's for PM)

Truck Route	Notes
0	
21 2110 21104 211043 2110432 211043260	Truck: JB Mont
12 1211 121110 1211109 12111098 121110987	
21 2110 211050	Truck: Smith Transport
12 1211 121110 12111021	Truck: Swift
21 2110 211011 21101113 2110111340	Truck: Mac
13 1311 131110 13111021	Truck: Mac

Ctrl Point	Intersection	Link ID	Distance	
1	2	12	1041	1-2
2	1	21	1041	2-1
2	3	23	2293	2-3
3	2	32	2293	3-2
3	4	34	3122	3-4
3	8	38	4199	3-8
4	3	43	3122	4-3
4	5	45	2101	4-5
5	4	54	2101	5-4
5	6	56	5305	5-6
6	5	65	5305	6-5
7	8	78	3837	7-8
8	3	83	4199	8-3
8	7	87	3837	8-7
8	9	89	3190	8-9
9	8	98	3190	9-8
10	4	104	2895	10-4
10	9	109	1621	10-9
12	5	125	1482	12-5
13	6	136	433	13-6
14	7	147	1496	14-7
15	9	159	2705	15-9
4	10	410	2895	4-10
5	12	512	1482	5-12
6	13	613	433	6-13
7	14	714	1496	7-14
9	10	910	1621	9-10
9	15	915	2705	9-15
10	11	1011	1182	10-11
10	21	1021	1142	10-21
11	10	1110	1182	11-10
11	12	1112	459	11-12
11	13	1113	4947	11-13
12	11	1211	459	12-11
13	11	1311	4947	13-11
14	15	1415	6649	14-15
14	18	1418	6279	14-18
15	14	1514	6649	15-14
15	16	1516	390	15-16
16	15	1615	390	16-15
16	17	1617	1935	16-17
16	19	1619	2411	16-19
17	16	1716	1935	17-16
17	20	1720	1697	17-20
17	21	1721	2049	17-21
18	14	1814	6279	18-14
18	19	1819	4370	18-19
19	16	1916	2411	19-16
19	18	1918	4370	19-18
19	20	1920	1944	19-20
20	17	2017	1697	20-17
20	19	2019	1944	20-19
21	10	2110	1142	21-10
21	17	2117	2049	21-17

Truck O-D Data

Truck O-D Links TOTAL		
	Link	Number
1	1-2	4
2	2-1	7
3	2-3	14
4	3-2	32
5	3-4	11
6	3-8	3
7	4-3	26
8	4-5	0
9	5-4	3
10	5-6	0
11	6-5	2
12	7-8	3
13	8-3	6
14	8-7	4
15	8-9	4
16	9-8	8
17	10-4	23
18	10-9	6
19	12-5	1
20	13-6	0
21	14-7	1
22	15-9	1
23	4-10	11
24	5-12	0
25	6-13	0
26	7-14	3
27	9-10	9
28	9-15	0
29	10-11	2
30	10-21	33
31	11-10	26
32	11-12	0
33	11-13	2
34	12-11	21
35	13-11	5
36	14-15	3
37	14-18	2
38	15-14	0
39	15-16	3
40	16-15	2
41	16-17	3
42	16-19	0
43	17-16	2
44	17-20	4
45	17-21	6
46	18-14	5
47	18-19	1
48	19-16	0
49	19-18	2
50	19-20	1
51	20-17	1
52	20-19	4
53	21-10	41
54	21-17	5
55	10-50	29
56	2-60	15
57	17-40	0
58	17-30	2
59	50-40	0
60	50-30	0

Truck O-D Links		
	Truck Path	Number
1	1-2-3-4-10-21	3
2	1-2-3-4-10-9	0
3	50-2-3-4-10-9	0
4	50-2-3-4-10-21	0
5	10-4-3-2-1	3
6	10-4-3-2-60	0
7	12-11-10-9	3
8	12-11-10-21	16
9	9-8-3-2-1	0
10	9-8-3-2-60	2
11	1-2-3-8-9	0
12	50-2-3-8-9	0
13	9-10-4-3-2-1	0
14	9-10-4-3-2-60	0
15	30-17-21	0
16	40-17-21	0

17	10-4-3-2	7
18	2-3-4-10	8
19	12-11-10	19
20	2-3-8	2

Starting Points		
	Link	Number
21	2	10
22	10	8
23	17	7
24	21	40

Additional Links		
	Link	Number
25	21-17	4
26	21-10	36

*See the map for the definition of which intersection corresponds to which number.

TOTAL RUNS : PM		
	Link	Number
27	9-10-50	6
28	9-10-4	0
29	9-8-3	4
30	10-4-3	7

31	21-10-50	19
32	21-10-4	13
33	21-10-9	1
34	21-10-11	1

Truck O-D Links Modified		
	Truck Path	Number
1	1-2-3-4-10-21	0
2	1-2-3-4-10-9	0
3	50-2-3-4-10-9	0
4	50-2-3-4-10-21	0
5	10-4-3-2-1	0
6	10-4-3-2-60	0
7	12-11-10-9	1
8	12-11-10-21	1
9	9-8-3-2-1	0
10	9-8-3-2-60	0
11	1-2-3-8-9	0
12	50-2-3-8-9	0
13	9-10-4-3-2-1	0
14	9-10-4-3-2-60	0
15	30-17-21	0
16	40-17-21	0

17	10-4-3-2	0
18	2-3-4-10	0
19	12-11-10	2
20	2-3-8	0

Starting Points		
	Link	Number
20	2	0
21	10	0
22	17	0
23	21	3

Additional Links		
	Link	Number
25	21-17	0
26	21-10	3

15 NB 30
 15 SB 40
 581 EB 50
 581 WB 60

27	9-10-50	0
28	9-10-4	0
29	9-8-3	0
30	10-4-3	0

31	21-10-50	1
32	21-10-4	1
33	21-10-9	0
34	21-10-11	1

Truck O-D Links TOTAL		
	Truck Path	Number
1	1-2-3-4-10-21	3
2	1-2-3-4-10-9	0
3	50-2-3-4-10-9	0
4	50-2-3-4-10-21	0
5	10-4-3-2-1	3
6	10-4-3-2-60	0
7	12-11-10-9	4
8	12-11-10-21	17
9	9-8-3-2-1	0
10	9-8-3-2-60	2
11	1-2-3-8-9	0
12	50-2-3-8-9	0
13	9-10-4-3-2-1	0
14	9-10-4-3-2-60	0
15	30-17-21	0
16	40-17-21	0

17	10-4-3-2	7
18	2-3-4-10	8
19	12-11-10	21
20	2-3-8	2

Starting Points		
	Link	Number
20	2	10
21	10	8
22	17	7
23	21	43

Additional Links		
	Link	Number
25	21-17	4
26	21-10	39

27	9-10-50	6
28	9-10-4	0
29	9-8-3	4
30	10-4-3	7

31	21-10-50	20
32	21-10-4	14
33	21-10-9	1
34	21-10-11	2