

Data C

Time and Motion Survey

C. Time and Motion Survey

Data recorded

Survey No. 1

SAN SALVADOR

Type of vehicle: 18yd3

Equip. No.63

Nos. of trip: 2

Date: 7 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.0483	0.0483	2.5	2.5	0	
2	t2		2	54	0.0483	0.3164	0.2681	2.5	3.5	1	
3	t3		18	59	0.3164	0.5083	0.1919	3.5	4.8	1.3	
	t3		30	30	0.5083	0.7386	0.2303	4.8	5.6	0.8	
	t3		44	19	0.7386	0.7747	0.0361	5.6	5.8	0.2	
4	t6		46	29	0.7747	0.7867	0.0119	5.8	5.8	0	
5	t3		47	12	0.7867	0.8892	0.1025	5.8	7	1.2	
	t3		53	21	0.8892	1.1992	0.31	7	9.4	2.4	
	t3	1	11	57	1.1992	1.2158	0.0167	9.4	9.8	0.4	
	t3	1	12	57	1.2158	1.8372	0.6214	9.8	12.1	2.3	
	t3	1	50	14	1.8372	1.8761	0.0389	12.1	13.4	1.3	
6	t4	1	52	34	1.8761	2.5217	0.6456	13.4	13.6	0.2	
7	t4	2	31	18	2.5217	2.5319	0.0103	13.6	25.9	12.3	
8	t5	2	31	55	2.5319	2.5917	0.0597	25.9	27	1.1	
9	t5	2	35	30	2.5917	2.6061	0.0144	27	27.5	0.5	13,240
10	t4	2	36	22	2.6061	3.1292	0.5231	27.5	27.9	0.4	
	t4	3	7	45	3.1292	3.4419	0.3128	27.9	40	12.1	
11	t3	3	26	31	3.4419	3.5244	0.0825	40	41	1	
	t3	3	31	28	3.5244	3.5336	0.0092	41	41.9	0.9	
12	t3	3	32	1	3.5336	3.9558	0.4222	41.9	42.5	0.6	
13	t3	3	57	21	3.9558	4.1619	0.2061	42.5	42.6	0.1	
	t3	4	9	43	4.1619	4.2592	0.0972	42.6	42.7	0.1	
	t3	4	15	33	4.2592	4.2772	0.0181	42.7	42.8	0.1	
	t3	4	16	38	4.2772	4.3608	0.0836	42.8	43.1	0.3	
	t3	4	21	39	4.3608	4.3939	0.0331	43.1	43.5	0.4	
14	t4	4	23	38	4.3939	4.7464	0.3525	43.5	46.5	3	
15	t4	4	44	47	4.7464	4.7769	0.0306	46.5	62.8	16.3	
16	t5	4	46	37	4.7769	4.8539	0.0769	62.8	63.5	0.7	11,480
17	t4	4	51	14	4.8539	5.2147	0.3608	63.5	89.9	26.4	
		5	12	53	5.2147	0	0				
Total							5.2147			87.4	24,720

Data C

Survey No. 2

SAN SALVADOR

Type of vehicle: 18yd3

Equip. No.58

Nos. of trip: 2

Date: 16 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
	t1	0	0	0	0	0.0558	0.0558	931.7	931.7	0	
1	t2		3	21	0.0558	0.2039	0.1481	934.5	939	4.5	
2	t3		12	14	0.2039	0.5758	0.3719	939	939.5	0.5	
3	t3		34	33	0.5758	0.6067	0.0308	939.5	940	0.5	
4	t3		35	84	0.6067	1.1092	0.5025	940	941	1	
5	t3	1	6	33	1.1092	1.1172	0.0081	941	943.5	2.5	
6	t3	1	7	2	1.1172	1.7878	0.6706	943.5	944.1	0.6	
7	t4	1	47	16	1.7878	2.0056	0.2178	944.1	952.5	8.4	
8	t4	2	0	20	2.0056	2.0575	0.0519	952.5	952.5	0	
9	t4	2	3	27	2.0575	2.1419	0.0844	952.5	956.6	4.1	
10	t5	2	8	31	2.1419	2.1719	0.03	956.6	956.6	0	
11	t5	2	10	19	2.1719	2.2128	0.0408	956.6	957.7	1.1	
12	t5	2	12	46	2.2128	2.2836	0.0708	957.7	958	0.3	12,020
13	t4	2	17	1	2.2836	2.6086	0.325	958	970.7	12.7	
14	t3	2	36	31	2.6086	2.6553	0.0467	970.7	972.2	1.5	
15	t3	2	39	19	2.6553	2.6664	0.0111	972.2	973	0.8	
16	t3	2	39	59	2.6664	2.8175	0.1511	973	974.8	1.8	
17	t6	2	49	3	2.8175	2.8978	0.0803	974.8	974.8	0	
18	t3	2	53	52	2.8978	3.9017	1.0039	974.8	975	0.2	
19	t4	3	54	6	3.9017	4.4756	0.5739	975	977.2	2.2	
20	t4	4	28	32	4.4756	4.5189	0.0433	977.2	1000	22.8	
21	t5	4	31	8	4.5189	4.6008	0.0819	1000	1000	0	7,400
22	t4	4	36	3	4.6008	5.1342	0.5333	1000	1006.7	6.7	
23	t4	5	8	3	5.1342	5.1556	0.0214	1006.7	1027.1	20.4	
		5	9	20	5.1556	0	0	1027.1			
Total							5.1556			92.6	19,420

Survey No. 3

SAN SALVADOR

Type of vehicle: 18yd3

Equip. No.26

Nos. of trip: 1

Date: 18 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1		0	0	0	0.1239	0.1239	389	389	0	
2	t2		7	26	0.1239	0.275	0.1511	389	390.15	1.15	
3	t3		16	30	0.275	0.3722	0.0972	390.2	390.2	0	
4	t3		22	20	0.3722	0.3894	0.0172	390.2	390.3	0.1	
5	t3		23	22	0.3894	0.4722	0.0828	390.3	390.3	0	
6	t3		28	20	0.4722	0.5014	0.0292	390.3	391.4	1.1	
7	t3		30	5	0.5014	0.5122	0.0108	391.4	391.6	0.2	

Data C

8	13		30	44	0.5122	0.5244	0.0122	391.6	391.8	0.2	
9	13		31	28	0.5244	0.5514	0.0269	391.8	391.8	0	
10	13		33	5	0.5514	0.5708	0.0194	391.8	391.9	0.1	
11	13		34	15	0.5708	0.5853	0.0144	391.9	391.9	0	
12	13		35	7	0.5853	0.5928	0.0075	391.9	392.1	0.2	
13	13		35	34	0.5928	0.6131	0.0203	392.1	392.9	0.8	
14	13		36	47	0.6131	0.69	0.0769	392.9	393	0.1	
15	13		41	24	0.69	0.6978	0.0078	393	393.2	0.2	
16	13		41	52	0.6978	0.74	0.0422	393.2	393.4	0.2	
17	13		44	24	0.74	0.7683	0.0283	393.4	393.5	0.1	
18	13		46	6	0.7683	0.7958	0.0275	393.5	393.7	0.2	
19	13		47	45	0.7958	0.8133	0.0175	393.7	393.8	0.1	
20	13		48	48	0.8133	0.8239	0.0106	393.8	394	0.2	
21	13		49	26	0.8239	0.8294	0.0056	394	394.6	0.6	
22	13		49	46	0.8294	0.9656	0.1361	394.6	394.8	0.2	
23	13		57	56	0.9656	0.9714	0.0058	394.8	395	0.2	
24	13		58	17	0.9714	0.9967	0.0253	395	395.5	0.5	
25	13		59	48	0.9967	1.0139	0.0172	395.5	395.5	0	
26	13	1	0	50	1.0139	1.0831	0.0692	395.5	398.8	3.3	
27	13	1	4	59	1.0831	1.6767	0.5936	398.8	399	0.2	
28	13	1	40	36	1.6767	1.7256	0.0489	399	400.3	1.3	
29	13	1	43	32	1.7256	1.9983	0.2728	400.3	400.7	0.4	
30	13	1	59	54	1.9983	2.0939	0.0956	400.7	400.8	0.1	
31	13	2	5	38	2.0939	2.1617	0.0678	400.8	401	0.2	
32	13	2	9	42	2.1617	2.3781	0.2164	401	402	1	
33	13	2	22	41	2.3781	2.3844	0.0064	402	402.5	0.5	
34	13	2	23	4	2.3844	2.5114	0.1269	402.5	403	0.5	
35	13	2	30	41	2.5114	2.6111	0.0997	403	403.1	0.1	
36	13	2	36	40	2.6111	2.6181	0.0069	403.1	404.3	1.2	
37	13	2	37	5	2.6181	2.805	0.1869	404.3	404.4	0.1	
38	13	2	48	18	2.805	2.8542	0.0492	404.4	404.6	0.2	
39	16	2	51	15	2.8542	2.8656	0.0114	404.6	404.9	0.3	
40	13	2	51	56	2.8656	2.8794	0.0139	404.9	405.1	0.2	
41	13	2	52	46	2.8794	2.8833	0.0039	405.1	405.4	0.3	
42	14	2	53	0	2.8833	2.9942	0.1108	405.4	405.8	0.4	
43	14	2	59	39	2.9942	3.4528	0.4586	405.8	419	13.2	
44	15	3	27	10	3.4528	3.4597	0.0069	419	419	0	
45	15	3	27	35	3.4597	3.4717	0.0119	419	419	0	
46	15	3	28	18	3.4717	3.4931	0.0214	419	419.3	0.3	
47	15	3	29	35	3.4931	3.5047	0.0117	419.3	419.3	0	
48	15	3	30	17	3.5047	3.6325	0.1278	419.3	419.5	0.2	
49	14	3	37	57	3.6325	4.055	0.4225	419.5	435	15.5	18,040
			4	3	18	4.055	0				
Total							4.055			45.95	18,040

Survey No. 4

NUEVA SAN SALVADOR

Type of vehicle: 18yd3

Equip. No. 2

Nos. of trip: 1

Date: 8 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	1.3194	1.3194			0.00	
2	t2	1	19	10	1.3194	1.4231	0.1036			1.61	
3	t3	1	25	23	1.4231	2.8222	1.3992			3.22	
4	t3	2	49	20	2.8222	2.8364	0.0142			1.61	
5	t3	2	50	11	2.8364	2.9556	0.1192			1.61	
6	t3	2	57	20	2.9556	3.0014	0.0458			1.61	
7	t3	3	0	5	3.0014	3.5242	0.5228			0.00	
8	t3	3	31	27	3.5242	3.5528	0.0286			0.00	
9	t3	3	33	10	3.5528	4.0258	0.4731			0.00	
10	t3	4	1	33	4.0258	4.0881	0.0622			1.61	
11	t6	4	5	17	4.0881	4.2928	0.2047			1.61	
12	t4	4	17	34	4.2928	5.1069	0.8142			41.84	
13	t5	5	6	25	5.1069	5.1697	0.0628			0.00	
14	t5	5	10	11	5.1697	5.1894	0.0197			0.00	
15	t5	5	11	22	5.1894	5.255	0.0656			3.22	
16	t5	5	15	18	5.255	5.3536	0.0986			0.00	
17	t4	5	21	13	5.3536	6.3222	0.9686			43.45	14,960
		6	19	20	6.3222	0	0				
Total							6.3222			101.39	14,960

Survey No. 5

NUEVA SAN

Type of vehicle: 18yd3

SALVADOR

Nos. of trip: 1

Equip. No.2

Date: 10 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.1175	0.1175			0.00	
2	t1	0	7	3	0.1175	0.3722	0.2547			1.61	
3	t6	0	22	20	0.3722	0.4444	0.0722			0.00	
4	t2	0	26	40	0.4444	0.5361	0.0917			0.00	
5	t3	0	32	10	0.5361	1.5375	1.0014			3.22	
6	t3	1	32	15	1.5375	1.8903	0.3528			4.83	
7	t6	1	53	25	1.8903	2.0083	0.1181			0.00	
8	t3	2	0	30	2.0083	2.5658	0.5575			1.61	
9	t3	2	33	57	2.5658	2.8028	0.2369			0.00	
10	t3	2	48	10	2.8028	2.8231	0.0203			1.61	
11	t3	2	49	23	2.8231	3.5506	0.7275			4.83	
12	t6	3	33	2	3.5506	3.7372	0.1867			1.61	
13	t4	3	44	14	3.7372	4.7233	0.9861			37.01	

Data C

14	15	4	43	24	4.7233	5.4514	0.7281			0.00	
15	15	5	27	5	5.4514	5.4522	0.0008			3.22	
16	15	5	27	8	5.4522	5.5122	0.06			0.00	
17	15	5	30	44	5.5122	5.54	0.0278			1.61	
18	14	5	32	24	5.54	5.5861	0.0461			17.70	
19	14	5	35	10	5.5861	5.7042	0.1181			4.83	
20	14	5	42	15	5.7042	6.7569	1.0528			11.27	8,780
		6	45	25	6.7569	0	0				
Total							6.7569			94.95	8,780

Survey No. 6

NUEVA SAN
SALVADOR
Equip No.2
Date: 12 Feb. 2000

Type of vehicle: 18yd3
Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.2181	0.2181			1.61	
2	t2	0	13	5	0.2181	0.3172	0.0992			1.61	
3	t3	0	19	2	0.3172	1.3722	1.055			1.61	
4	t3	1	22	20	1.3722	1.4125	0.0403			0.00	
5	t3	1	24	45	1.4125	1.5686	0.1561			0.00	
6	t3	1	34	7	1.5686	1.6264	0.0578			1.61	
7	t3	1	37	35	1.6264	1.7842	0.1578			0.00	
8	t6	1	47	3	1.7842	2.3078	0.5236			0.00	
9	t3	2	18	28	2.3078	2.7242	0.4164			1.61	
10	t3	2	43	27	2.7242	2.7564	0.0322			1.61	
11	t3	2	45	23	2.7564	3.2583	0.5019			1.61	
12	t4	3	15	30	3.2583	4.4231	1.1647			35.40	
13	t4	4	25	23	4.4231	4.5072	0.0842			1.61	
14	t6	4	30	26	4.5072	5.7583	1.2511			1.61	
15	t5	5	45	30	5.7583	5.7736	0.0153			1.61	
16	t5	5	46	25	5.7736	6.0194	0.2458			1.61	
17	t4	6	1	10	6.0194	7.2583	1.2389			49.89	10,100
		7	15	30	7.2583	0	0				
Total							7.2583			102.995	10,100

Survey No. 7

SOYAPANGO

Type of vehicle: 18yd3

Equip. No.19

Nos. of trip: 1

Date: 16 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.5306	0.5306	551.00	551.00	0.00	
2	t2		31	50	0.5306	0.7089	0.1783	551.00	554.00	3.00	
3	t3		42	31	0.7089	0.8297	0.1209	554.00	555.00	1.00	
4	t3		49	47	0.8297	1.0043	0.1746	555.00	557.00	2.00	
5	t3	1	0	15	1.0043	1.5922	0.5879	557.00	558.00	1.00	
6	t3	1	35	32	1.5922	1.6177	0.0255	558.00	558.00	0.00	
7	t3	1	37	3	1.6177	2.3292	0.7115	558.00	559.00	1.00	
8	t3	2	19	45	2.3292	2.3491	0.0199	559.00	560.00	1.00	
9	t3	2	20	56	2.3491	3.2714	0.9223	560.00	561.00	1.00	
10	t4	3	16	17	3.2714	3.848	0.5766	561.00	581.00	20.00	
11	t5	3	50	52	3.848	3.9	0.052	581.00	581.00	0.00	20,840
12	t5	3	54	0	3.9	3.952	0.052	581.00	582.00	1.00	
13	t5	3	57	7	3.952	4.0514	0.0994	582.00	582.00	0.00	
14	t4	4	3	5	4.0514	4.5969	0.5455	582.00	602.00	20.00	
15	t6	4	35	49	4.5969	4.9534	0.3565	602.00	602.00	0.00	
16	t3	4	57	12	4.9534	5.0135	0.0601	602.00	603.00	1.00	
17	t3	5	0	48	5.0135	5.5578	0.5443	603.00	604.00	1.00	
18	t4	5	33	28	5.5578	5.8239	0.2661	604.00	609.00	5.00	
		5	49	26	5.8239	0	0	609.00			
Total							5.8239			58.00	20,840

Survey No. 8

SOYAPANGO

Type of vehicle: 18yd3

Equip. No. 19

Nos. of trip: 2

Date: 18 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.4289	0.4289	669.00	669.00	0.00	
2	t2		25	43	0.4289	0.6678	0.2389	669.00	673.00	4.00	
3	t3		40	4	0.6678	0.7704	0.1026	673.00	674.00	1.00	
4	t3		46	13	0.7704	0.9575	0.1871	674.00	676.00	2.00	
5	t3		57	27	0.9575	1.5781	0.6206	676.00	677.00	1.00	
6	t3	1	34	41	1.5781	1.6121	0.034	677.00	677.00	0.00	
7	t3	1	36	43	1.6121	1.6691	0.0569	677.00	677.00	0.00	
8	t3	1	40	8	1.6691	1.6869	0.0178	677.00	677.00	0.00	
9	t3	1	41	12	1.6869	2.5879	0.901	677.00	678.00	1.00	
10	t4	2	35	16	2.5879	3.2688	0.6809	678.00	699.00	21.00	
11	t5	3	16	7	3.2688	3.3178	0.049	699.00	699.00	0.00	13,580
12	t5	3	19	4	3.3178	3.3597	0.0419	699.00	700.00	1.00	

Data C

13	15	3	21	34	3.3597	3.4152	0.0555	700.00	700.00	0.00	
14	14	3	24	54	3.4152	3.9248	0.5097	700.00	720.00	20.00	
15	16	3	55	29	3.9248	4.1295	0.2047	720.00	720.00	0.00	
16	13	4	7	46	4.1295	4.2192	0.0897	720.00	721.00	1.00	
17	13	4	13	9	4.2192	4.5029	0.2837	721.00	722.00	1.00	
18	13	4	30	10	4.5029	4.5477	0.0447	722.00	722.00	0.00	
19	13	4	32	51	4.5477	4.8516	0.3039	722.00	722.00	0.00	
20	13	4	51	5	4.8516	4.863	0.0114	722.00	723.00	1.00	
21	13	4	51	46	4.863	5.9875	1.1246	723.00	724.00	1.00	
22	14	5	59	15	5.9875	6.8945	0.907	724.00	755.00	31.00	
23	15	6	53	40	6.8945	6.9183	0.0238	755.00	755.00	0.00	16,400
24	15	6	55	5	6.9183	6.9785	0.0602	755.00	757.00	2.00	
25	15	6	58	42	6.9785	7.0284	0.0499	757.00	757.00	0.00	
26	14	7	1	42	7.0284	7.742	0.7136	757.00	786.00	29.00	
		7	44	31	7.742	0	0	786.00			
Total							7.742			117.00	29,980

Survey No. 9

SOYAPANGO

Type of vehicle: 18yd3

Equip. No. 19

Nos. of trip: 2

Date: 21 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.478	0.478	856.00	856.00	0.00	
2	t2		28	40	0.478	0.6931	0.2151	856.00	859.00	3.00	
3	t3		41	35	0.6931	0.8142	0.1211	859.00	860.00	1.00	
4	t3		48	51	0.8142	0.9931	0.1789	860.00	862.00	2.00	
5	t3		59	35	0.9931	1.5327	0.5396	862.00	863.00	1.00	
6	t3	1	31	57	1.5327	1.5526	0.0199	863.00	863.00	0.00	
7	t3	1	33	9	1.5526	2.0867	0.5341	863.00	863.00	0.00	
8	t3	2	5	12	2.0867	2.1176	0.0309	863.00	864.00	1.00	
9	t3	2	7	3	2.1176	3.0544	0.9368	864.00	865.00	1.00	
10	t4	3	3	15	3.0544	3.6811	0.6267	865.00	885.00	20.00	
11	t5	3	40	51	3.6811	3.7164	0.0353	885.00	885.00	0.00	19,060
12	t5	3	42	58	3.7164	3.7348	0.0184	885.00	886.00	1.00	
13	t5	3	44	5	3.7348	3.8042	0.0694	886.00	886.00	0.00	
14	t4	3	48	15	3.8042	4.3525	0.5484	886.00	906.00	20.00	
15	t6	4	21	9	4.3525	4.615	0.2625	906.00	906.00	0.00	
16	t3	4	36	54	4.615	4.6716	0.0566	906.00	907.00	1.00	
17	t3	4	40	17	4.6716	4.9188	0.2472	907.00	908.00	1.00	
18	t3	4	55	7	4.9188	4.9375	0.0187	908.00	908.00	0.00	
19	t3	4	56	15	4.9375	5.2404	0.3029	908.00	909.00	1.00	
20	t3	5	14	25	5.2404	5.2566	0.0162	909.00	909.00	0.00	
21	t3	5	15	23	5.2566	6.3152	1.0586	909.00	910.00	1.00	
22	t4	6	18	54	6.3152	7.2191	0.904	910.00	942.00	32.00	
23	t5	7	13	8	7.2191	7.2479	0.0287	942.00	942.00	0.00	14,820
24	t5	7	14	52	7.2479	7.2806	0.0327	942.00	943.00	1.00	
25	t5	7	16	50	7.2806	7.3009	0.0203	943.00	943.00	0.00	
26	t4	7	18	3	7.3009	8.0528	0.7519	943.00	973.00	30.00	

Data C

		8	3	9	8.0528	0	0				
Total							8.0528			117.00	33,880

Survey No. 10

APOPA

Equip. No. 10

Date: 7 Feb. 2000

Type of vehicle: 18yd3

Nos. of trip: 2

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.0172	0.0172	42426.3	42426.3	0.0	
2	t2	0	1	2	0.0172	0.05	0.0328	42426.3	42426.7	0.4	
3	t3	0	3	0	0.05	0.0975	0.0475	42426.7	42428.8	2.1	
4	t3	0	5	51	0.0975	0.1081	0.0106	42428.8	42430.0	1.2	
5	t3	0	6	29	0.1081	1.1667	1.0586	42430.0	42431.1	1.1	
6	t3	1	10	0	1.1667	1.2333	0.0667	42431.1	42432.0	0.9	
7	t6	1	14	0	1.2333	1.2833	0.05	42432.0	42432.0	0.0	
8	t6	1	17	0	1.2833	1.3167	0.0333	42432.0	42433.3	1.3	
9	t3	1	19	0	1.3167	1.35	0.0333	42433.3	42433.5	0.2	
10	t3	1	21	0	1.35	1.3667	0.0167	42433.5	42433.6	0.1	
11	t3	1	22	0	1.3667	2.1	0.7333	42433.6	42434.5	0.9	
12	t3	2	6	0	2.1	2.1333	0.0333	42434.5	42434.9	0.4	
13	t3	2	8	0	2.1333	2.2167	0.0833	42434.9	42435.4	0.5	
14	t3	2	13	0	2.2167	2.25	0.0333	42435.4	42435.5	0.1	
15	t3	2	15	0	2.25	2.6167	0.3667	42435.5	42436.0	0.5	
16	t3	2	37	0	2.6167	2.6333	0.0167	42436.0	42436.2	0.2	
17	t3	2	38	0	2.6333	2.7167	0.0833	42436.2	42437.0	0.8	
18	t3	2	43	0	2.7167	2.7333	0.0167	42437.0	42437.3	0.3	
19	t3	2	44	0	2.7333	3.3667	0.6333	42437.3	42438.6	1.3	
20	t3	3	22	0	3.3667	3.4333	0.0667	42438.6	42440.1	1.5	
21	t6	3	26	0	3.4333	3.95	0.5167	42440.1	42440.1	0.0	
22	t3	3	57	0	3.95	4.0833	0.1333	42440.1	42440.6	0.5	
23	t3	4	5	0	4.0833	4.1167	0.0333	42440.6	42440.7	0.1	
24	t3	4	7	0	4.1167	4.15	0.0333	42440.7	42440.7	0.0	
25	t3	4	9	0	4.15	4.1833	0.0333	42440.7	42441.9	1.2	
26	t6	4	11	0	4.1833	4.2333	0.05	42441.9	42441.9	0.0	
27	t4	4	14	0	4.2333	4.6333	0.4	42441.9	42455.4	13.5	
28	t5	4	38	0	4.6333	4.7667	0.1333	42455.4	42456.8	1.4	
29	t4	4	46	0	4.7667	5.1833	0.4167	42456.8	42470.7	13.9	17,640
30		5	11	0	5.1833	0	0			0.0	
31	t1	0	0	0	0	0.12	0.12	42470.7	42470.7	0.0	
32	t4		7	12	0.12	0.2917	0.1717	42470.7	42471.8	1.1	
33	t3		17	30	0.2917	0.4793	0.1876	42471.8	42472.4	0.6	
34	t3		28	45	0.4793	0.5534	0.074	42472.4	42472.8	0.4	
35	t3		33	12	0.5534	0.6495	0.0962	42472.8	42473.5	0.7	
36	t3		38	58	0.6495	0.753	0.1035	42473.5	42473.5	0.0	
37	t3		45	10	0.753	1.1673	0.4143	42473.5	42475.0	1.5	
38	t3	1	10	2	1.1673	1.2918	0.1245	42475.0	42475.2	0.2	
39	t3	1	17	30	1.2918	1.4627	0.1709	42475.2	42479.3	4.1	
40	t3	1	27	45	1.4627	1.5313	0.0686	42479.3	42479.4	0.1	

Data C

41	t3	1	31	52	1.5313	1.9769	0.4456	42479.4	42479.5	0.1	
42	t3	1	58	36	1.9769	2.1454	0.1685	42479.5	42479.9	0.4	
43	t3	2	8	43	2.1454	2.2534	0.108	42479.9	42480.0	0.1	
44	t3	2	15	12	2.2534	2.3361	0.0827	42480.0	42482.1	2.1	
45	t4	2	20	10	2.3361	2.837	0.5009	42482.1	42495.6	13.5	
46	t5	2	50	13	2.837	2.9	0.0631	42495.6	42496.2	0.6	
47	t5	2	54	0	2.9	3.0822	0.1822	42496.2	42497.2	1.0	
48	t4	3	4	55	3.0822	3.4168	0.3346	42497.2	42511.0	13.8	13,880
		3	25	0	3.4168	0	0	42511.0			
Total							8.6002			84.7	31,520

Survey No. 11

APOPA

Equip. No. 10

Date: 16 Feb. 2000

Type of vehicle: 18yd3

Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.1431	0.1431	578.4	578.4	0.00	
2	t2	0	8	35	0.1431	0.1978	0.0547	578.4	578.8	0.40	
3	t3	0	11	51	0.1978	0.2611	0.0634	578.8	579.1	0.30	
4	t3	0	15	40	0.2611	0.2699	0.0088	579.1	579.1	0.00	
5	t3	0	16	11	0.2699	1.051	0.7812	579.1	580.0	0.90	
6	t3	1	3	3	1.051	1.0706	0.0195	580.0	580.4	0.40	
7	t3	1	4	14	1.0706	1.0829	0.0123	580.4	580.6	0.20	
8	t3	1	4	58	1.0829	1.0941	0.0112	580.6	581.1	0.50	
9	t3	1	5	38	1.0941	1.3901	0.296	581.1	582.1	1.00	
10	t3	1	23	24	1.3901	1.4122	0.0221	582.1	582.3	0.20	
11	t3	1	24	44	1.4122	1.6499	0.2377	582.3	582.9	0.60	
12	t3	1	38	59	1.6499	1.6768	0.0269	582.9	583.0	0.10	
13	t3	1	40	36	1.6768	1.832	0.1552	583.0	583.6	0.60	
14	t3	1	49	55	1.832	1.8452	0.0132	583.6	583.7	0.10	
15	t3	1	50	42	1.8452	1.8955	0.0503	583.7	583.9	0.20	
16	t3	1	53	43	1.8955	1.9343	0.0387	583.9	584.1	0.20	
17	t3	1	56	3	1.9343	2.2763	0.3421	584.1	584.9	0.80	
18	t3	2	16	34	2.2763	2.2921	0.0158	584.9	585.1	0.20	
19	t3	2	17	31	2.2921	2.4308	0.1387	585.1	585.6	0.50	
20	t6	2	25	50	2.4308	3.0924	0.6616	585.6	585.6	0.00	
21	t3	3	5	32	3.0924	3.2519	0.1594	585.6	586.1	0.50	
22	t3	3	15	6	3.2519	3.2768	0.025	586.1	586.4	0.30	
23	t3	3	16	36	3.2768	3.761	0.4842	586.4	587.3	0.90	
24	t3	3	45	39	3.761	3.7773	0.0163	587.3	587.5	0.20	
25	t3	3	46	38	3.7773	4.2429	0.4657	587.5	588.6	1.10	
26	t3	4	14	34	4.2429	4.2576	0.0147	588.6	588.7	0.10	
27	t3	4	15	27	4.2576	4.3176	0.06	588.7	588.9	0.20	
28	t3	4	19	3	4.3176	4.3402	0.0225	588.9	589.0	0.10	
29	t3	4	20	24	4.3402	4.6696	0.3294	589.0	589.8	0.80	
30	t3	4	40	10	4.6696	4.7006	0.031	589.8	590.2	0.40	
31	t3	4	42	2	4.7006	4.7208	0.0203	590.2	590.4	0.20	
32	t3	4	43	14	4.7208	4.7367	0.0159	590.4	590.6	0.20	

Data C

33	t3	4	44	12	4.7367	5.0921	0.3554	590.6	591.5	0.90	
34	t3	5	5	31	5.0921	5.108	0.0159	591.5	591.7	0.20	
35	t3	5	6	28	5.108	5.2335	0.1255	591.7	592.0	0.30	
36	t3	5	14	0	5.2335	5.3306	0.0971	592.0	593.0	1.00	
37	t3	5	19	50	5.3306	5.9658	0.6352	593.0	594.4	1.40	
38	t3	5	57	56	5.9658	5.9917	0.0259	594.4	594.6	0.20	
39	t3	5	59	29	5.9917	6.1472	0.1555	594.6	594.8	0.20	
40	t4	6	8	49	6.1472	6.5662	0.4191	594.8	608.8	14.00	
41	t5	6	33	58	6.5662	6.7796	0.2134	608.8	610.4	1.60	17,360
42	t4	6	46	46	6.7796	7.075	0.2954	610.4	624.0	13.60	
43		7	4	30	7.075	0	0	624.0			
Total							7.075			45.60	17,360

Survey No. 12

APOPA

Equip. No. 10

Date: 17 Feb. 2000

Type of vehicle: 18yd3

Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.0517	0.0517	654.30	654.30	0.000	
2	t2		3	5	0.0517	0.1006	0.0489	654.30	654.70	0.400	
3	t3		6	2	0.1006	0.8492	0.7486	654.70	656.80	2.100	
4	t3		50	57	0.8492	0.866	0.0167	656.80	657.00	0.200	
5	t3		51	57	0.866	1.0368	0.1708	657.00	657.60	0.600	
6	t3	1	2	12	1.0368	1.0565	0.0197	657.60	657.80	0.200	
7	t3	1	3	23	1.0565	1.1065	0.05	657.80	658.00	0.200	
8	t3	1	6	23	1.1065	1.1174	0.0109	658.00	658.10	0.100	
9	t3	1	7	2	1.1174	1.2503	0.1329	658.10	658.30	0.200	
10	t6	1	15	1	1.2503	1.3052	0.0548	658.30	658.30	0.000	
11	t3	1	18	18	1.3052	1.4267	0.1215	658.30	658.70	0.400	
12	t3	1	25	36	1.4267	1.4746	0.0479	658.70	659.00	0.300	
13	t3	1	28	28	1.4746	1.9579	0.4833	659.00	659.50	0.500	
14	t3	1	57	28	1.9579	1.9793	0.0213	659.50	659.60	0.100	
15	t3	1	58	45	1.9793	1.9958	0.0165	659.60	659.70	0.100	
16	t3	1	59	44	1.9958	2.0177	0.0219	659.70	659.90	0.200	
17	t3	2	1	3	2.0177	2.0619	0.0442	659.90	660.50	0.600	
18	t6	2	3	42	2.0619	2.596	0.5341	660.50	660.50	0.000	
19	t3	2	35	45	2.596	2.7232	0.1272	660.50	661.10	0.600	
20	t3	2	43	23	2.7232	2.7568	0.0336	661.10	661.40	0.300	
21	t3	2	45	24	2.7568	3.3636	0.6069	661.40	663.30	1.900	
22	t3	3	21	49	3.3636	3.3818	0.0181	663.30	663.50	0.200	
23	t3	3	22	54	3.3818	3.6445	0.2628	663.50	663.90	0.400	
24	t3	3	38	40	3.6445	3.6689	0.0244	663.90	664.20	0.300	
25	t3	3	40	8	3.6689	3.6836	0.0147	664.20	664.30	0.100	
26	t3	3	41	0	3.6836	3.7013	0.0177	664.30	664.60	0.300	
27	t3	3	42	4	3.7013	4.1878	0.4865	664.60	665.90	1.300	
28	t3	4	11	16	4.1878	4.2137	0.0259	665.90	666.20	0.300	
29	t3	4	12	49	4.2137	4.2619	0.0482	666.20	666.30	0.100	
30	t6	4	15	42	4.2619	4.2915	0.0296	666.30	666.30	0.000	

Data C

31	t3	4	17	29	4.2915	4.5855	0.294	666.30	666.70	0.400	
32	t3	4	35	7	4.5855	4.6004	0.015	666.70	667.20	0.500	
33	t3	4	36	1	4.6004	4.7043	0.1038	667.20	667.40	0.200	
34	t3	4	42	15	4.7043	4.7484	0.0441	667.40	667.80	0.400	
35	t3	4	44	54	4.7484	4.8835	0.1351	667.80	668.00	0.200	
36	t4	4	53	0	4.8835	5.3045	0.421	668.00	682.10	14.100	
37	t5	5	18	16	5.3045	5.4305	0.1261	682.10	683.50	1.400	
38	t4	5	25	49	5.4305	5.7795	0.349	683.50	697.20	13.700	12,800
39		5	46	46	5.7795	0	0	697.20			
Total							5.7795			42.900	12,800

Survey No. 13

AYUTUXTEPEQUE

Type of vehicle: 16yd3

Equip. No. 3

Nos. of trip: 1

Date: 9 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.2334	0.2334	6.00	6.00	0.00	
2	t2		14	0	0.2334	0.3085	0.0751	6.00	6.20	0.20	
3	t3		18	30	0.3085	0.5192	0.2108	6.20	6.30	0.10	
4	t3		31	9	0.5192	0.641	0.1218	6.30	6.30	0.00	
5	t3		38	27	0.641	0.6609	0.0198	6.30	6.50	0.20	
6	t3		39	39	0.6609	0.7292	0.0683	6.50	6.50	0.00	
7	t3		43	45	0.7292	0.9234	0.1943	6.50	6.80	0.30	
8	t3		55	24	0.9234	0.9826	0.0592	6.80	6.90	0.10	
9	t3		58	57	0.9826	1.1223	0.1396	6.90	7.00	0.10	
10	t3	1	7	20	1.1223	1.1303	0.0081	7.00	7.10	0.10	
11	t3	1	7	49	1.1303	1.3111	0.1808	7.10	7.20	0.10	
12	t3	1	18	39	1.3111	1.3787	0.0676	7.20	7.20	0.00	
13	t3	1	22	43	1.3787	1.5878	0.2091	7.20	8.10	0.90	
14	t3	1	35	16	1.5878	1.6006	0.0128	8.10	8.50	0.40	
15	t3	1	36	2	1.6006	1.9053	0.3048	8.50	8.90	0.40	
16	t6	1	54	19	1.9053	1.9189	0.0136	8.90	9.40	0.50	
17	t3	1	55	8	1.9189	1.9992	0.0803	9.40	10.00	0.60	
18	t3	1	59	56	1.9992	2.0183	0.0192	10.00	10.50	0.50	
19	t3	2	1	6	2.0183	2.1013	0.083	10.50	10.80	0.30	
20	t3	2	6	4	2.1013	2.1395	0.0382	10.80	11.00	0.20	
21	t3	2	8	22	2.1395	2.1444	0.0049	11.00	11.50	0.50	
22	t3	2	8	39	2.1444	2.1697	0.0253	11.50	13.00	1.50	
23	t3	2	10	11	2.1697	2.3109	0.1412	13.00	13.40	0.40	
24	t3	2	18	39	2.3109	2.3245	0.0136	13.40	13.50	0.10	
25	t3	2	19	28	2.3245	2.4336	0.109	13.50	16.00	2.50	
26	t3	2	26	0	2.4336	2.4562	0.0227	16.00	16.20	0.20	
27	t3	2	27	22	2.4562	2.5246	0.0684	16.20	16.80	0.60	
28	t3	2	31	28	2.5246	2.5312	0.0065	16.80	17.50	0.70	
29	t3	2	31	52	2.5312	2.7427	0.2115	17.50	17.90	0.40	
30	t3	2	44	33	2.7427	2.8298	0.0871	17.90	18.00	0.10	
31	t3	2	49	47	2.8298	2.8863	0.0565	18.00	18.00	0.00	
32	t3	2	53	10	2.8863	2.9184	0.0321	18.00	18.00	0.00	

Data C

33	t3	2	55	6	2.9184	3.5579	0.6395	18.00	18.50	0.50	
34	t3	3	33	28	3.5579	3.5837	0.0258	18.50	19.10	0.60	
35	t3	3	35	1	3.8437	3.8444	0.2607	19.10	19.10	0.00	
36	t3	3	50	39	3.8444	3.8558	0.0114	19.10	19.30	0.20	
37	t3	3	51	20	3.8558	4.0507	0.1949	19.30	19.30	0.00	
38	t3	4	3	2	4.0507	4.0601	0.0093	19.30	19.40	0.10	
39	t3	4	3	36	4.0601	4.2612	0.2012	19.40	19.50	0.10	
40	t3	4	15	40	4.2612	4.2717	0.0105	19.50	19.50	0.00	
41	t3	4	16	18	4.2717	4.2981	0.0264	19.50	19.50	0.00	
42	t3	4	17	53	4.2981	4.3198	0.0217	19.50	20.30	0.80	
43	t3	4	19	11	4.3198	4.3936	0.0738	20.30	20.40	0.10	
44	t4	4	23	36	4.3936	4.9159	0.5223	20.40	36.00	15.60	
45	t5	4	54	57	4.9159	5.2748	0.3589	36.00	42.50	6.50	
46	t4	5	16	29	5.2748	5.3562	0.0814	42.50	49.30	6.80	
47	t6	5	21	22	5.3562	5.3841	0.0279	49.30	49.30	0.00	
48	t4	5	23	2	5.3841	5.6726	0.2886	48.00	60.50	12.50	6,780
		5	40	21	5.6726	0	0	60.50			
Total							5.6726			55.80	6,780

Survey No. 14

AYUTUXTEPEQUE

Type of vehicle: 16yd3

Equip. No. 3

Nos. of trip: 1

Date: 10 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.269	0.269	60.50	60.50	0.00	
2	t6		16	8	0.269	1.4016	1.1326	60.50	60.80	0.30	
3	t3	1	24	5	1.4016	1.4393	0.0377	60.80	61.30	0.50	
4	t3	1	26	21	1.4393	1.4534	0.0142	61.30	61.30	0.00	
5	t6	1	27	12	1.4534	1.534	0.0805	61.30	62.40	1.10	
6	t3	1	32	2	1.534	1.5973	0.0634	62.40	62.50	0.10	
7	t3	1	35	50	1.5973	1.6535	0.0561	62.50	62.80	0.30	
8	t3	1	39	12	1.6535	1.6702	0.0168	62.80	62.80	0.00	
9	t3	1	40	12	1.6702	1.6856	0.0154	62.80	62.90	0.10	
10	t3	1	41	8	1.6856	1.6941	0.0084	62.90	62.90	0.00	
11	t3	1	41	38	1.6941	1.7318	0.0378	62.90	62.90	0.00	
12	t3	1	43	54	1.7318	1.7575	0.0257	62.90	62.90	0.00	
13	t3	1	45	27	1.7575	1.8124	0.0549	62.90	62.90	0.00	
14	t3	1	48	44	1.8124	1.8553	0.0429	62.90	63.00	0.10	
15	t3	1	51	19	1.8553	1.9386	0.0833	63.00	63.20	0.20	
16	t3	1	56	18	1.9386	1.9738	0.0352	63.20	63.20	0.00	
17	t3	1	58	25	1.9738	2.072	0.0982	63.20	63.30	0.10	
18	t3	2	4	19	2.072	2.0957	0.0237	63.30	63.30	0.00	
19	t3	2	5	44	2.0957	2.109	0.0133	63.30	63.30	0.00	
20	t3	2	6	32	2.109	2.1978	0.0889	63.30	63.50	0.20	
21	t3	2	11	52	2.1978	2.2305	0.0326	63.50	63.50	0.00	
22	t3	2	13	49	2.2305	2.2576	0.0272	63.50	63.60	0.10	
23	t3	2	15	27	2.2576	2.3886	0.1309	63.60	63.80	0.20	
24	t3	2	23	18	2.3886	2.4609	0.0724	63.80	63.90	0.10	

Data C

25	t3	2	27	39	2.4609	2.5706	0.1097	63.90	64.10	0.20	
26	t6	2	34	14	2.5706	2.7194	0.1488	64.10	64.10	0.00	
27	t3	2	43	9	2.7194	2.7986	0.0792	64.10	64.30	0.20	
28	t3	2	47	54	2.7986	2.9003	0.1017	64.30	64.50	0.20	
29	t3	2	54	0	2.9003	2.9108	0.0105	64.50	64.50	0.00	
30	t3	2	54	38	2.9108	2.9928	0.082	64.50	64.60	0.10	
31	t3	2	59	33	2.9928	3.0607	0.0679	64.60	64.60	0.00	
32	t3	3	3	38	3.0607	3.0961	0.0355	64.60	64.70	0.10	
33	t3	3	5	46	3.0961	3.1166	0.0205	64.70	64.70	0.00	
34	t3	3	6	59	3.1166	3.1636	0.047	64.70	64.80	0.10	
35	t3	3	9	48	3.1636	3.2078	0.0442	64.80	64.80	0.00	
36	t3	3	12	28	3.2078	3.3047	0.0969	64.80	65.20	0.40	
37	t3	3	18	16	3.3047	3.3266	0.022	65.20	65.20	0.00	
38	t3	3	19	35	3.3266	3.457	0.1304	65.20	65.80	0.60	
39	t3	3	27	25	3.457	3.5298	0.0729	65.80	66.30	0.50	
40	t3	3	31	47	3.5298	3.6484	0.1185	66.30	66.50	0.20	
41	t3	3	38	54	3.6484	3.7173	0.0689	66.50	66.80	0.30	
42	t3	3	43	2	3.7173	3.8002	0.0829	66.80	67.20	0.40	
43	t3	3	48	0	3.8002	3.8084	0.0083	67.20	67.20	0.00	
44	t3	3	48	30	3.8084	3.8599	0.0515	67.20	67.80	0.60	
45	t3	3	51	35	3.8599	3.9812	0.1213	67.80	68.50	0.70	
46	t6	3	58	52	3.9812	4.0628	0.0815	68.50	68.70	0.20	
47	t3	4	3	46	4.0628	4.0991	0.0364	68.70	68.70	0.00	
48	t3	4	5	56	4.0991	4.1105	0.0113	68.70	68.70	0.00	
49	t3	4	6	37	4.1105	4.1755	0.0651	68.70	68.80	0.10	
50	t3	4	10	31	4.1755	4.1849	0.0093	68.80	68.80	0.00	
51	t3	4	11	5	4.1849	4.2988	0.1139	68.80	69.00	0.20	
52	t3	4	17	55	4.2988	4.3568	0.0581	69.00	69.00	0.00	
53	t3	4	21	24	4.3568	4.4086	0.0518	69.00	69.20	0.20	
54	t6	4	24	31	4.4086	4.4672	0.0586	69.20	70.10	0.90	
55	t4	4	28	1	4.4672	4.8408	0.3736	70.10	83.80	13.70	
56	t6	4	50	26	4.8408	4.8821	0.0413	83.80	83.80	0.00	
57	t4	4	52	55	4.8821	4.9417	0.0596	83.80	83.90	0.10	
58	t4	4	56	30	4.9417	4.9969	0.0552	83.90	92.50	8.60	
59	t4	4	59	48	4.9969	5.0394	0.0425	92.50	92.50	0.00	
60	t5	5	2	21	5.0394	5.2965	0.257	92.50	98.10	5.60	
61	t4	5	17	47	5.2965	5.3901	0.0937	98.10	103.20	5.10	
62	t6	5	23	24	5.3901	5.4186	0.0285	103.20	103.20	0.00	
63	t4	5	25	6	5.4186	5.7602	0.3416	103.20	114.40	11.20	9,120
		5	45	36	5.7602	0	0	114.40			
Total							5.7602			53.90	9,120

Survey No. 15

AYUTUXTEPEQUE

Type of vehicle: 16yd3

Equip. No. 3

Nos. of trip: 1

Date: 11 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.3002	0.3002	14.40	14.40	0.00	
2	t6		18	0	0.3002	0.8874	0.5871	14.40	14.40	0.00	
3	t2		53	14	0.8874	0.9882	0.1008	14.40	15.30	0.90	
4	t3		59	17	0.9882	1.1608	0.1726	15.30	15.30	0.00	
5	t3	1	9	38	1.1608	1.1827	0.0219	15.30	15.30	0.00	
6	t3	1	10	57	1.1827	1.215	0.0324	15.30	15.40	0.10	
7	t3	1	12	54	1.215	1.2549	0.0398	15.40	15.50	0.10	
8	t3	1	15	17	1.2549	1.4313	0.1765	15.50	16.10	0.60	
9	t3	1	25	52	1.4313	1.451	0.0196	16.10	16.20	0.10	
10	t3	1	27	3	1.451	1.4804	0.0294	16.20	16.20	0.00	
11	t3	1	28	49	1.4804	1.4905	0.0101	16.20	16.20	0.00	
12	t3	1	29	25	1.4905	1.6167	0.1262	16.20	17.20	1.00	
13	t3	1	37	0	1.6167	1.6252	0.0084	17.20	17.20	0.00	
14	t3	1	37	30	1.6252	1.6678	0.0426	17.20	17.30	0.10	
15	t3	1	40	3	1.6678	1.6769	0.0091	17.30	17.30	0.00	
16	t3	1	40	36	1.6769	1.7037	0.0268	17.30	17.40	0.10	
17	t3	1	42	13	1.7037	1.7138	0.0101	17.40	17.40	0.00	
18	t3	1	42	49	1.7138	1.7608	0.047	17.40	17.50	0.10	
19	t6	1	45	38	1.7608	1.7697	0.0089	17.50	17.60	0.10	
20	t3	1	46	11	1.7697	1.8121	0.0424	17.60	17.80	0.20	
21	t3	1	48	43	1.8121	1.8724	0.0604	17.80	18.80	1.00	
22	t3	1	52	20	1.8724	1.924	0.0516	18.80	19.10	0.30	
23	t3	1	55	26	1.924	1.9275	0.0034	19.10	19.10	0.00	
24	t3	1	55	38	1.9275	2.0708	0.1434	19.10	19.30	0.20	
25	t3	2	4	15	2.0708	2.0985	0.0276	19.30	19.30	0.00	
26	t3	2	5	54	2.0985	2.2039	0.1054	19.30	19.90	0.60	
27	t3	2	12	13	2.2039	2.2141	0.0102	19.90	19.90	0.00	
28	t3	2	12	50	2.2141	2.2517	0.0376	19.90	20.20	0.30	
29	t3	2	15	6	2.2517	2.2761	0.0244	20.20	20.20	0.00	
30	t3	2	16	34	2.2761	2.4311	0.155	20.20	20.70	0.50	
31	t3	2	25	52	2.4311	2.4344	0.0033	20.70	20.70	0.00	
32	t3	2	26	3	2.4344	2.4931	0.0587	20.70	20.90	0.20	
33	t3	2	29	35	2.4931	2.4977	0.0046	20.90	20.90	0.00	
34	t3	2	29	51	2.4977	2.58	0.0823	20.90	21.90	1.00	
35	t3	2	34	48	2.58	2.5898	0.0098	21.90	21.90	0.00	
36	t3	2	35	23	2.5898	2.6209	0.0311	21.90	22.10	0.20	
37	t3	2	37	15	2.6209	2.6328	0.0119	22.10	22.10	0.00	
38	t3	2	37	58	2.6328	2.7454	0.1126	22.10	22.90	0.80	
39	t3	2	44	43	2.7454	2.7586	0.0131	22.90	22.90	0.00	
40	t3	2	45	30	2.7586	2.792	0.0335	22.90	23.00	0.10	
41	t3	2	47	31	2.792	2.7966	0.0045	23.00	23.00	0.00	
42	t3	2	47	47	2.7966	2.8613	0.0647	23.00	23.20	0.20	
43	t3	2	51	40	2.8613	2.9016	0.0404	23.20	23.20	0.00	
44	t3	2	54	5	2.9016	2.9615	0.0599	23.20	23.30	0.10	

Data C

45	t3	2	57	41	2.9615	2.9685	0.0069	23.30	23.30	0.00	
46	t3	2	58	6	2.9685	3.1104	0.1419	23.30	23.40	0.10	
47	t3	3	6	37	3.1104	3.1241	0.0137	23.40	23.40	0.00	
48	t6	3	7	26	3.1241	3.2217	0.0976	23.40	24.00	0.60	
49	t3	3	13	18	3.2217	3.2277	0.006	24.00	24.00	0.00	
50	t3	3	13	39	3.2277	3.3059	0.0782	24.00	24.30	0.30	
51	t3	3	18	21	3.3059	3.314	0.0081	24.30	24.30	0.00	
52	t3	3	18	50	3.314	3.4498	0.1358	24.30	24.50	0.20	
53	t3	3	26	59	3.4498	3.4563	0.0064	24.50	24.50	0.00	
54	t3	3	27	22	3.4563	3.4794	0.0231	24.50	24.50	0.00	
55	t3	3	28	45	3.4794	3.5244	0.045	24.50	25.00	0.50	
56	t3	3	31	27	3.5244	3.5429	0.0185	25.00	25.00	0.00	
57	t3	3	32	34	3.5429	3.553	0.0101	25.00	25.00	0.00	
58	t3	3	33	10	3.553	3.6019	0.0489	25.00	25.30	0.30	
59	t3	3	36	6	3.6019	3.6155	0.0136	25.30	25.30	0.00	
60	t3	3	36	55	3.6155	3.6656	0.0501	25.30	25.80	0.50	
61	t3	3	39	56	3.6656	3.6805	0.0149	25.80	25.80	0.00	
62	t3	3	40	49	3.6805	3.7542	0.0737	25.80	26.40	0.60	
63	t3	3	45	15	3.7542	3.7593	0.0051	26.40	26.70	0.30	
64	t3	3	45	33	3.7593	3.7744	0.0151	26.70	26.70	0.00	
65	t4	3	46	27	3.7744	4.4976	0.7232	26.70	50.50	23.80	
66	t5	4	29	51	4.4976	4.5205	0.0229	50.50	51.10	0.60	
67	t4	4	31	13	4.5205	4.7911	0.2707	51.10	62.10	11.00	
68	t6	4	47	28	4.7911	4.8208	0.0297	62.10	62.10	0.00	
69	t4	4	49	14	4.8208	5.0973	0.2765	62.10	73.60	11.50	11,320
		5	5	50	5.0973	0	0	73.60			
Total							5.0973			59.20	11,320

Survey No. 16

NUEVA SAN
SALVADOR

Equip. No. 19

Date: 8 Feb. 2000

Type of vehicle: 11yd3

Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.1206	0.1206	0.000	0.000	0.000	
	t1	0	7	14	0.1206	0.1261	0.0056				
	t1	0	7	34	0.1261	0.2775	0.1514				
2	t1	0	16	39	0.2775	0.3389	0.0614	0.000	1.600	1.600	
	t1	0	20	20	0.3389	0.3458	0.0069				
	t2	0	20	45	0.3458	0.4264	0.0806	1.600	2.900	1.300	
3	t3	0	25	35	0.4264	0.5728	0.1464				
4	t3	0	34	22	0.5728	0.5989	0.0261	2.900	3.200	0.300	
5	t3	0	35	56	0.5989	0.6056	0.0067	3.200	3.400	0.200	
6	t3	0	36	20	0.6056	0.6403	0.0347	3.400	3.600	0.200	
7	t3	0	38	25	0.6403	0.6947	0.0544	3.600	4.000	0.400	
	t3	0	41	41	0.6947	0.7206	0.0258	4.000	4.300	0.300	
8	t3	0	43	14	0.7206	0.7389	0.0183	4.300	4.500	0.200	
	t3	0	44	20	0.7389	0.7706	0.0317	4.500	4.600	0.100	

Data C

9	t3	0	46	14	0.7706	0.7811	0.0106	4.600	4.600	0.000	
	t3	0	46	52	0.7811	0.7911	0.01				
	t3	0	47	28	0.7911	0.8103	0.0192	4.600	4.700	0.100	
	t3	0	48	37	0.8103	0.8333	0.0231	4.700	4.900	0.200	
10	t3	0	50	0	0.8333	0.8439	0.0106				
	t3	0	50	38	0.8439	0.8475	0.0036	4.900	5.000	0.100	
	t3	0	50	51	0.8475	0.8931	0.0456				
	t3	0	53	35	0.8931	0.8944	0.0014	5.000	5.100	0.100	
11	t3	0	53	40	0.8944	0.9083	0.0139				
	t3	0	54	30	0.9083	0.9444	0.0361	5.100	5.200	0.100	
	t3	0	56	40	0.9444	0.9556	0.0111				
	t3	0	57	20	0.9556	0.9989	0.0433	5.200	5.400	0.200	
12	t3	0	59	56	0.9989	1.0033	0.0044	5.400	5.500	0.100	
13	t3	1	0	12	1.0033	1.1378	0.1344	5.500	5.800	0.300	
14	t3	1	8	16	1.1378	1.15	0.0122	5.800	6.100	0.300	
15	t3	1	9	0	1.15	1.2136	0.0636				
16	t3	1	12	49	1.2136	1.2333	0.0197				
	t3	1	14	0	1.2333	1.2667	0.0333	6.100	6.300	0.200	
	t3	1	16	0	1.2667	1.2833	0.0167				
	t3	1	17	0	1.2833	1.3167	0.0333				
	t3	1	19	0	1.3167	1.3833	0.0667	6.300	6.600	0.300	
17	t3	1	23	0	1.3833	1.4667	0.0833	6.600	8.600	2.000	
	t3	1	28	0	1.4667	1.5	0.0333				
	t6	1	30	0	1.5	1.5333	0.0333	8.600	8.700	0.100	
	t3	1	32	0	1.5333	1.7167	0.1833	8.700	8.800	0.100	
	t3	1	43	0	1.7167	1.7667	0.05				
18	t3	1	46	0	1.7667	1.85	0.0833	8.800	8.900	0.100	
	t3	1	51	0	1.85	1.8833	0.0333	8.900	9.000	0.100	
	t3	1	53	0	1.8833	1.9667	0.0833				
19	t3	1	58	0	1.9667	1.9833	0.0167	9.000	9.100	0.100	
	t3	1	59	0	1.9833	2.1667	0.1833				
	t3	2	10	0	2.1667	2.2667	0.1	9.100	9.200	0.100	
	t3	2	16	0	2.2667	2.3167	0.05				
	t3	2	19	0	2.3167	2.4167	0.1				
20	t3	2	25	0	2.4167	2.4353	0.0186	9.200	9.500	0.300	
	t3	2	26	7	2.4353	2.5186	0.0833				
	t3	2	31	7	2.5186	2.6333	0.1147	9.500	9.700	0.200	
	t3	2	38	0	2.6333	2.7847	0.1514				
21	t4	2	47	5	2.7847	2.9167	0.1319	9.700	10.000	0.300	
	t4	2	55	0	2.9167	3	0.0833				
	t4	3	0	0	3	3.1667	0.1667	10.000	20.300	10.300	
	t6	3	10	0	3.1667	3.2333	0.0667				
22	t4	3	14	0	3.2333	3.8	0.5667	20.300	50.000	29.700	
	t5	3	48	0	3.8	3.85	0.05				
	t5	3	51	0	3.85	3.9	0.05				
	t5	3	54	0	3.9	3.9333	0.0333				
	t5	3	56	0	3.9333	3.9667	0.0333				
	t5	3	58	0	3.9667	4.0333	0.0667	50.000	51.800	1.800	
23	t4	4	2	0	4.0333	4.0833	0.05	51.800	53.000	1.200	
24	t6	4	5	0	4.0833	4.6167	0.5333				
25	t4	4	37	0	4.6167	5.2333	0.6167	53.000	80.200	27.200	13,860
		5	14	0	5.2333	0	0				
Total							5.2333			80.200	13,860

Survey No. 17

NUEVA SAN
SALVADOR
Equip. No. 19
Date: 10 Feb. 2000

Type of vehicle: 11yd3

Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
	t1	0	0	0	0	0.2883	0.2883				
1	t1		17	18	0.2883	0.3219	0.0336	0.00	1.80	1.80	
	t1		19	19	0.3219	0.375	0.0531				
2	t2		22	30	0.375	0.4769	0.1019	1.80	2.90	1.10	
3	t3		28	37	0.4769	0.5728	0.0958				
4	t3		34	22	0.5728	0.5989	0.0261	2.90	3.60	0.70	
	t3		35	56	0.5989	0.6056	0.0067				
5	t3		36	20	0.6056	0.6406	0.035	3.60	3.80	0.20	
6	t3		38	26	0.6406	0.695	0.0544				
7	t3		41	42	0.695	0.7389	0.0439	3.80	4.60	0.80	
8	t3		44	20	0.7389	0.8103	0.0714				
9	t3		48	37	0.8103	0.8514	0.0411	4.60	4.80	0.20	
	t3		51	5	0.8514	0.8519	0.0006	4.80	4.90	0.10	
	t3		51	7	0.8519	0.8644	0.0125	4.90	5.10	0.20	
	t3		51	52	0.8644	0.8953	0.0308				
	t3		53	43	0.8953	0.9761	0.0808	5.10	5.30	0.20	
	t3		58	34	0.9761	0.9833	0.0072				
10	t3		59		0.9833	1.0839	0.1006	5.30	5.50	0.20	
	t3	1	5	2	1.0839	1.1006	0.0167				
	t3	1	6	2	1.1006	1.1347	0.0342	5.50	5.80	0.30	
	t3	1	8	5	1.1347	1.2339	0.0992				
	t3	1	14	2	1.2339	1.25	0.0161	5.80	6.20	0.40	
11	t3	1	15		1.25	1.2833	0.0333				
12	t3	1	17		1.2833	1.3344	0.0511	6.20	6.50	0.30	
	t3	1	20	4	1.3344	1.65	0.3156	6.50	6.60	0.10	
	t3	1	39		1.65	1.7	0.05				
	t3	1	42		1.7	1.8508	0.1508	6.60	6.90	0.30	
	t3	1	51	3	1.8508	2.0653	0.2144				
	t3	2	3	55	2.0653	2.0842	0.0189	6.90	7.00	0.10	
13	t3	2	5	3	2.0842	2.1006	0.0164				
	t3	2	6	2	2.1006	2.1178	0.0172	7.00	7.40	0.40	
	t3	2	7	4	2.1178	2.1336	0.0158				
	t3	2	8	1	2.1336	2.1833	0.0497	7.40	7.50	0.10	
	t3	2	11		2.1833	2.3011	0.1178				
	t3	2	18	4	2.3011	2.3167	0.0156	7.50	7.60	0.10	
	t3	2	19		2.3167	2.3675	0.0508	7.60	7.70	0.10	
	t3	2	22	3	2.3675	2.3847	0.0172				
	t3	2	23	5	2.3847	2.4167	0.0319				
	t3	2	25		2.4167	2.4347	0.0181	7.70	7.80	0.10	
	t3	2	26	5	2.4347	2.5006	0.0658				
	t3	2	30	2	2.5006	2.65	0.1494				
	t3	2	39		2.65	2.7	0.05				

Data C

	t3	2	42		2.7	2.7503	0.0503				
	t3	2	45	1	2.7503	2.7681	0.0178				
14	t3	2	46	5	2.7681	2.8333	0.0653	7.80	8.20	0.40	
15	t3	2	50		2.8333	3.0833	0.25				
	t6	3	5		3.0833	3.25	0.1667				
	t3	3	15		3.25	3.2833	0.0333				
	t3	3	17		3.2833	3.3167	0.0333	8.20	8.40	0.20	
16	t3	3	19		3.3167	3.3667	0.05				
	t3	3	22		3.3667	3.4167	0.05				
17	t3	3	25		3.4167	3.4667	0.05	8.40	9.30	0.90	
18	t6	3	28		3.4667	3.7167	0.25				
	t4	3	43		3.7167	3.7833	0.0667	9.30	20.80	11.50	
	t4	3	47		3.7833	4.55	0.7667	20.80	50.20	29.40	
	t4	4	33		4.55	4.6	0.05				
	t5	4	36		4.6	4.6667	0.0667				
	t5	4	40		4.6667	4.7	0.0333				
	t5	4	42		4.7	4.7333	0.0333				
	t4	4	44		4.7333	4.7667	0.0333	50.20	52.20	2.00	
	t6	4	46		4.7667	4.9833	0.2167				
	t4	4	59		4.9833	5.3833	0.4	52.20	70.00	17.80	
	t4	5	23		5.3833	5.6667	0.2833	70.00	80.30	10.30	11,440
		5	40		5.6667	0	0				
Total							5.6667			80.30	11,440

Survey No. 18

NUEVA SAN

SALVADOR

Equip No. 19

Date: 12 Feb. 2000

Type of vehicle: 11yd3

Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.1836	0.1836	0	0	0	
	t1		11	1	0.1836	0.1939	0.0103				
	t1		11	38	0.1939	0.1969	0.0031				
	t1		11	49	0.1969	0.2511	0.0542				
	t1		15	4	0.2511	0.2536	0.0025				
	t1		15	13	0.2536	0.2544	0.0008				
	t1		15	16	0.2544	0.4125	0.1581	0	1.8	1.8	
2	t1		24	45	0.4125	0.4672	0.0547				
	t1		28	2	0.4672	0.5847	0.1175				
	t1		35	5	0.5847	0.5853	0.0006				
	t2		35	7	0.5853	0.6467	0.0614	1.8	2.9	1.1	
3	t3		38	48	0.6467	0.7036	0.0569				
	t3		42	13	0.7036	0.7339	0.0303				
4	t3		44	2	0.7339	0.7828	0.0489				
	t3		46	58	0.7828	0.8169	0.0342	2.9	3.6	0.7	
	t3		49	1	0.8169	0.8683	0.0514	3.6	3.8	0.2	
	t6		52	6	0.8683	0.8958	0.0275				
6	t3		53	45	0.8958	1.0681	0.1722	3.8	4.5	0.7	

Data C

	t3	1	4	5	1.0681	1.1	0.0319				
7	t3	1	6		1.1	1.1342	0.0342	4.5	5.2	0.7	
8	t3	1	8	3	1.1342	1.1503	0.0161	5.2	5.4	0.2	
	t6	1	9	1	1.1503	1.3167	0.1664				
	t3	1	19		1.3167	1.35	0.0333	5.4	6	0.6	
	t3	1	21		1.35	1.5739	0.2239				
9	t3	1	34	26	1.5739	1.6508	0.0769	6	6.4	0.4	
	t3	1	39	3	1.6508	1.6511	0.0003				
10	t3	1	39	4	1.6511	2.0836	0.4325	6.4	6.8	0.4	
	t6	2	5	1	2.0836	2.0847	0.0011				
	t3	2	5	5	2.0847	2.1333	0.0486				
	t3	2	8		2.1333	2.4667	0.3333	6.8	7	0.2	
	t3	2	28		2.4667	2.6167	0.15				
11	t3	2	37		2.6167	2.75	0.1333				
	t3	2	45		2.75	3.0167	0.2667				
	t3	3	1		3.0167	3.0667	0.05				
	t3	3	4		3.0667	3.1	0.0333	7	7.2	0.2	
	t3	3	6		3.1	3.1833	0.0833				
	t3	3	11		3.1833	3.2167	0.0333				
	t3	3	13		3.2167	3.2667	0.05				
	t3	3	16		3.2667	3.35	0.0833	7.2	7.4	0.2	
	t6	3	21		3.35	3.95	0.6				
12	t3	3	57		3.95	3.9508	0.0008				
	t3	3	57	3	3.9508	4.0667	0.1158				
13	t3	4	4		4.0667	4.15	0.0833				
	t3	4	9		4.15	4.2	0.05				
	t3	4	12		4.2	4.3	0.1	7.4	10	2.6	
14	t4	4	18		4.3	4.4	0.1	10	11	1.0	
	t4	4	24		4.4	4.5681	0.1681	11	18	7.0	
	t6	4	34	5	4.5681	4.7011	0.1331				
	t4	4	42	4	4.7011	5.3	0.5989				
	t4	5	18		5.3	5.4	0.1	18	45	27.0	
	t5	5	24		5.4	5.4847	0.0847				
	t5	5	29	5	5.4847	5.5833	0.0986				
	t6	5	35		5.5833	6.05	0.4667				
	t4	6	3		6.05	6.6667	0.6167	45	80.5	35.5	11,320
		6	40		6.6667	0	0				
Total							6.6667			80.500	11,320

Survey No. 19

SOYAPANGO

Equip No. 26

Date: 12 Feb. 2000

Type of vehicle: 11yd3

Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.0875	0.0875	0.00	0.00	0.00	
2	t2		5	15	0.0875	0.17	0.0825	0.00	1.70	1.70	
3	t3		10	12	0.17	0.5333	0.3633	1.70	2.20	0.50	
4	t3		32	0	0.5333	0.6139	0.0806	2.20	2.40	0.20	

Data C

5	t3		36	50	0.6139	1.0247	0.4108	2.40	3.20	0.80	
6	t3	1	1	29	1.0247	1.1278	0.1031	3.20	3.60	0.40	
7	t3	1	7	40	1.1278	1.1403	0.0125	3.60	4.30	0.70	
8	t3	1	8	25	1.1403	1.3528	0.2125	4.30	5.00	0.70	
9	t3	1	21	10	1.3528	1.4142	0.0614	5.00	5.00	0.00	
10	t3	1	24	51	1.4142	1.8125	0.3983	5.00	5.20	0.20	
11	t3	1	48	45	1.8125	1.8236	0.0111	5.20	5.20	0.00	
12	t3	1	49	25	1.8236	2.0556	0.2319	5.20	5.50	0.30	
13	t6	2	3	20	2.0556	2.1286	0.0731	5.50	5.60	0.10	
14	t6	2	7	43	2.1286	2.3044	0.1758	5.60	5.60	0.00	
15	t6	2	18	16	2.3044	2.7542	0.4497	5.60	5.70	0.10	
16	t6	2	45	15	2.7542	2.7714	0.0172	5.70	5.70	0.00	
17	t4	2	46	17	2.7714	3.225	0.4536	5.70	19.60	13.90	
18	t5	3	13	30	3.225	3.2556	0.0306	19.60	19.70	0.10	
19	t5	3	15	20	3.2556	3.2931	0.0375	19.70	20.50	0.80	
20	t6	3	17	35	3.2931	3.3108	0.0178	20.50	20.50	0.00	
21	t5	3	18	39	3.3108	3.3169	0.0061	20.50	20.70	0.20	
22	t5	3	19	1	3.3169	3.4547	0.1378	20.70	20.70	0.00	
23	t4	3	27	17	3.4547	4.07	0.6153	20.70	35.60	14.90	12,020
		4	4	12	4.07	0	0	35.60			
Total							4.07			35.60	12,020

Survey No. 20

SOYAPANGO

Type of vehicle: 11yd3

Equip No. 26

Nos. of trip: 1

Date: 17 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.223	0.223	790.00	790.00	0.00	
2	t2		13	22	0.223	0.3808	0.1578	790.00	792.10	2.10	
3	t3		22	51	0.3808	1.567	1.1861	792.10	796.20	4.10	
4	t6	1	34	1	1.567	1.5885	0.0215	796.20	796.20	0.00	
5	t3	1	35	18	1.5885	2.2644	0.6758	796.20	798.40	2.20	
6	t3	2	15	51	2.2644	2.313	0.0486	798.40	798.40	0.00	
7	t3	2	18	46	2.313	3.4203	1.1073	798.40	803.70	5.30	
8	t3	3	25	13	3.4203	3.7806	0.3603	803.70	803.70	0.00	
9	t6	3	46	50	3.7806	4.1591	0.3784	803.70	803.70	0.00	
10	t4	4	9	32	4.1591	4.3557	0.1966	803.70	813.70	10.00	
11	t4	4	21	20	4.3557	4.6081	0.2524	813.70	823.70	10.00	
12	t4	4	36	28	4.6081	4.6663	0.0583	823.70	824.70	1.00	
13	t6	4	39	58	4.6663	4.6986	0.0323	824.70	827.60	2.90	
14	t5	4	41	55	4.6986	4.7405	0.0418	827.60	827.60	0.00	
15	t5	4	44	25	4.7405	4.76	0.0195	827.60	827.90	0.30	
16	t5	4	45	35	4.76	4.8026	0.0427	827.90	827.90	0.00	12,880
17	t4	4	48	9	4.8026	5.3026	0.5	827.90	843.40	15.50	
		5	18	9	5.3026	0	0	843.40			
Total							5.3026			53.40	12,880

Survey No. 21

SOYAPANGO

Equip No. 26

Date: 22 Feb. 2000

Type of vehicle: 11yd3

Nos. of trip: 2

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.0639	0.0639	0.00	0.00	0.00	
2	t2		3	50	0.0639	0.1208	0.0569	0.00	0.90	0.90	
3	t1		7	15	0.1208	0.2222	0.1014	0.90	0.90	0.00	
4	t2		13	20	0.2222	0.2583	0.0361	0.90	1.50	0.60	
5	t3		15	30	0.2583	0.2731	0.0147	1.50	2.20	0.70	
6	t6		16	23	0.2731	0.9597	0.6867	2.20	2.40	0.20	
7	t3		57	35	0.9597	1.1903	0.2306	2.40	2.70	0.30	
8	t3	1	11	25	1.1903	1.4814	0.2911	2.70	2.70	0.00	
9	t3	1	28	53	1.4814	1.4889	0.0075	2.70	2.90	0.20	
10	t3	1	29	20	1.4889	1.5889	0.1	2.90	2.90	0.00	
11	t3	1	35	20	1.5889	1.6228	0.0339	2.90	3.00	0.10	
12	t6	1	37	22	1.6228	1.7803	0.1575	3.00	4.80	1.80	
13	t6	1	46	49	1.7803	2.0094	0.2292	4.80	4.80	0.00	
14	t6	2	0	34	2.0094	2.3433	0.3339	4.80	4.80	0.00	
15	t4	2	20	36	2.3433	2.3811	0.0378	4.80	4.90	0.10	
16	t4	2	22	52	2.3811	2.9822	0.6011	4.90	16.30	11.40	
17	t6	2	58	56	2.9822	3.0719	0.0897	16.30	16.70	0.40	
18	t5	3	4	19	3.0719	3.0975	0.0256	16.70	16.70	0.00	
19	t5	3	5	51	3.0975	3.1853	0.0878	16.70	17.00	0.30	10,760
20	t4	3	11	7	3.1853	3.7694	0.5842	17.00	30.40	13.40	
21	t3	3	46	10	3.7694	3.8144	0.045	30.40	31.80	1.40	
22	t3	3	48	52	3.8144	4.3986	0.5842	31.80	31.80	0.00	
23	t3	4	23	55	4.3986	4.4353	0.0367	31.80	32.00	0.20	
24	t3	4	26	7	4.4353	4.6056	0.1703	32.00	32.00	0.00	
25	t3	4	36	20	4.6056	4.6119	0.0064	32.00	32.50	0.50	
26	t3	4	36	43	4.6119	5.0372	0.4253	32.50	32.60	0.10	
27	t3	5	2	14	5.0372	5.0444	0.0072	32.60	32.70	0.10	
28	t3	5	2	40	5.0444	5.1672	0.1228	32.70	32.70	0.00	
29	t3	5	10	2	5.1672	5.1839	0.0167	32.70	32.90	0.20	
30	t3	5	11	2	5.1839	5.3736	0.1897	32.90	32.90	0.00	
31	t3	5	22	25	5.3736	5.4228	0.0492	32.90	33.20	0.30	
32	t6	5	25	22	5.4228	5.7003	0.2775	33.20	33.20	0.00	
33	t4	5	42	1	5.7003	6.2069	0.5067	33.20	48.90	15.70	
34	t4	6	12	25	6.2069	6.2597	0.0528	48.90	48.90	0.00	
35	t4	6	15	35	6.2597	6.3236	0.0639	48.90	49.80	0.90	13,460
36	t5	6	19	25	6.3236	6.4583	0.1347	49.80	50.60	0.80	
37	t4	6	27	30	6.4583	6.4836	0.0253	50.60	56.10	5.50	
38	t4	6	29	1	6.4836	6.9197	0.4361	56.10	67.20	11.10	
		6	55	11	6.9197	0	0	67.20			
Total							6.9197			67.20	24,220

Survey No. 22

APOPA

Equip No. 13

Date: 7 Feb. 2000

Type of vehicle: 11yd3

Nos. of trip: 2

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.2611	0.2611	322.40	322.40	0.00	
			15	40	0.2611	0	0				
2	t2	0	0	0	0	0.0511	0.0511	322.40	323.00	0.60	
3	t3		3	4	0.0511	2.1122	2.0611	323.00	325.90	2.90	
4	t6	2	6	44	2.1122	2.1244	0.0122	325.90	326.30	0.40	
5	t6	2	7	28	2.1244	2.4825	0.3581	326.30	326.30	0.00	
6	t3	2	28	57	2.4825	2.495	0.0125	326.30	326.40	0.10	
7	t3	2	29	42	2.495	3.2297	0.7347	326.40	327.90	1.50	
8	t4	3	13	47	3.2297	3.5983	0.3686	327.90	338.20	10.30	
	t5	3	35	54	3.5983	4.1458	0.5475	338.20	339.70	1.50	
9	t4	4	8	45	4.1458	4.5092	0.3633	339.70	351.00	11.30	11,600
		4	30	33	4.5092	0	0				
10	t3	0	0	0	0	1.6822	1.6822	351.00	353.50	2.50	
11	t3	1	40	56	1.6822	1.7017	0.0194	353.50	357.50	4.00	
12	t4	1	42	6	1.7017	2.1206	0.4189	354.10	368.00	13.90	
13	t5	2	7	14	2.1206	2.2708	0.1503	368.00	369.10	1.10	
14	t4	2	16	15	2.2708	2.6458	0.375	369.10	381.50	12.40	12,720
		2	38	45	2.6458	0	0				
Total							7.4161			62.50	24,320

Survey No. 23

APOPA

Equip No. 13

Date: 16 Feb. 2000

Type of vehicle: 11yd3

Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.5042	0.5042	878.30	878.30	0.00	
2	t2		30	15	0.5042	0.585	0.0808	878.30	878.90	0.60	
3	t3		35	6	0.585	2.2047	1.6197	878.90	881.80	2.90	
4	t6	2	12	17	2.2047	2.225	0.0203	881.80	882.20	0.40	
5	t6	2	13	30	2.225	2.5614	0.3364	882.20	882.20	0.00	
6	t3	2	33	41	2.5614	2.5878	0.0264	882.20	882.30	0.10	
7	t3	2	35	16	2.5878	2.6069	0.0192	882.30	882.40	0.10	
8	t6	2	36	25	2.6069	2.6611	0.0542	882.40	882.60	0.20	
9	t3	2	39	40	2.6611	2.9719	0.3108	882.60	883.30	0.70	
10	t3	2	58	19	2.9719	2.9975	0.0256	883.30	883.70	0.40	
11	t3	2	59	51	2.9975	3.5036	0.5061	883.70	884.50	0.80	
12	t3	3	30	13	3.5036	3.5422	0.0386	884.50	884.70	0.20	
13	t3	3	32	32	3.5422	4.1644	0.6222	884.70	887.50	2.80	
14	t3	4	9	52	4.1644	4.2106	0.0461	887.50	887.70	0.20	

Data C

15	t3	4	12	38	4.2106	4.3492	0.1386	887.70	888.10	0.40	
16	t6	4	20	57	4.3492	4.5614	0.2122	888.10	888.10	0.00	
17	t3	4	33	41	4.5614	4.5797	0.0183	888.10	888.30	0.20	
18	t3	4	34	47	4.5797	4.5997	0.02	888.30	888.80	0.50	
19	t3	4	35	59	4.5997	4.7786	0.1789	888.80	889.20	0.40	
20	t6	4	46	43	4.7786	4.8189	0.0403	889.20	889.20	0.00	
21	t3	4	49	8	4.8189	4.8689	0.05	889.20	889.30	0.10	
22	t3	4	52	8	4.8689	4.9169	0.0481	889.30	889.40	0.10	
23	t3	4	55	1	4.9169	4.9458	0.0289	889.40	889.70	0.30	
24	t3	4	56	45	4.9458	4.9836	0.0378	889.70	890.10	0.40	
25	t6	4	59	1	4.9836	5.1242	0.1406	890.10	892.70	2.60	
26	t6	5	7	27	5.1242	5.1556	0.0314	892.70	892.70	0.00	
27	t4	5	9	20	5.1556	5.3033	0.1478	892.70	897.70	5.00	
28	t6	5	18	12	5.3033	5.3483	0.045	897.70	897.70	0.00	
29	t4	5	20	54	5.3483	5.5736	0.2253	897.70	907.60	9.90	
30	t5	5	34	25	5.5736	5.7169	0.1433	907.60	909.50	1.90	
31	t4	5	43	1	5.7169	6.0472	0.3303	909.50	923.10	13.60	13,460
		6	2	50	6.0472	0	0	923.10			
Total							6.0472			44.80	13,460

Survey No. 24

APOPA

Equip No. 13

Date: 17 Feb. 2000

Type of vehicle: 11yd3

Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.1889	0.1889	923.10	923.10	0.00	
2	t2		11	20	0.1889	0.2436	0.0547	923.10	924.00	0.90	
3	t3		14	37	0.2436	1.9292	1.6856	924.00	927.50	3.50	
4	t3	1	55	45	1.9292	1.9747	0.0456	927.50	927.70	0.20	
5	t3	1	58	29	1.9747	2.0592	0.0844	927.70	927.90	0.20	
6	t3	2	3	33	2.0592	2.0714	0.0122	927.90	928.10	0.20	
7	t3	2	4	17	2.0714	2.14	0.0686	928.10	928.20	0.10	
8	t6	2	8	24	2.14	2.1694	0.0294	928.20	928.60	0.40	
9	t6	2	10	10	2.1694	2.6469	0.4775	928.60	928.60	0.00	
10	t3	2	38	49	2.6469	2.6744	0.0275	928.60	928.80	0.20	
11	t3	2	40	28	2.6744	2.6978	0.0233	928.80	928.80	0.00	
12	t3	2	41	52	2.6978	2.7242	0.0264	928.80	929.20	0.40	
13	t3	2	43	27	2.7242	2.8589	0.1347	929.20	929.30	0.10	
14	t3	2	51	32	2.8589	2.8889	0.03	929.30	929.90	0.60	
15	t3	2	53	20	2.8889	3.4367	0.5478	929.90	930.70	0.80	
16	t3	3	26	12	3.4367	3.4628	0.0261	930.70	930.90	0.20	
17	t3	3	27	46	3.4628	3.6892	0.2264	930.90	931.80	0.90	
18	t3	3	41	21	3.6892	3.7047	0.0156	931.80	932.00	0.20	
19	t3	3	42	17	3.7047	3.8425	0.1378	932.00	932.40	0.40	
20	t3	3	50	33	3.8425	3.8567	0.0142	932.40	932.50	0.10	
21A	t3	3	51	24	3.8567	3.9725	0.1158	932.50	932.90	0.40	
21B	t3	3	58	21	3.9725	3.9917	0.0192	932.90	933.00	0.10	
22	t3	3	59	30	3.9917	4.2322	0.2406	933.00	934.00	1.00	

Data C

23	13	4	13	56	4.2322	4.2722	0.04	934.00	934.70	0.70	
24	13	4	16	20	4.2722	4.4253	0.1531	934.70	935.00	0.30	
25	16	4	25	31	4.4253	4.4547	0.0294	935.00	935.00	0.00	
26	13	4	27	17	4.4547	4.4792	0.0244	935.00	935.20	0.20	
27	13	4	28	45	4.4792	4.5028	0.0236	935.20	935.30	0.10	
28	13	4	30	10	4.5028	4.5333	0.0306	935.30	935.50	0.20	
29	13	4	32	0	4.5333	4.5475	0.0142	935.50	935.50	0.00	
30	13	4	32	51	4.5475	4.5794	0.0319	935.50	935.90	0.40	
31	16	4	34	46	4.5794	4.6033	0.0239	935.90	935.90	0.00	
32	14	4	36	12	4.6033	4.7333	0.13	935.90	940.30	4.40	
33	16	4	44	0	4.7333	4.7553	0.0219	940.30	940.30	0.00	
34	14	4	45	19	4.7553	4.9933	0.2381	940.30	950.20	9.90	
35	15	4	59	36	4.9933	5.1542	0.1608	950.20	952.10	1.90	
36	14	5	9	15	5.1542	5.4214	0.2672	952.10	965.60	13.50	12,540
		5	25	17	5.4214	0	0				
Total							5.4214			42.50	12,540

Survey No. 25

NUEVA SAN SALVADOR

Type of vehicle: Dump truck

Equip No. 14

Nos. of trip: 1

Date: 8 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.02	0.02				
	t6	0	1	12	0.02	0.0708	0.0508			1.000	
2*	t1	0	4	15	0.0708	0.1847	0.1139			0.000	
	t2	0	11	5	0.1847	0.2764	0.0917			3.000	
2	t3	0	16	35	0.2764	0.6131	0.3367			0.200	
	t3	0	36	47	0.6131	0.6481	0.035			0.300	
3	t3	0	38	53	0.6481	1.1678	0.5197			0.150	
	t3	1	10	4	1.1678	1.2436	0.0758			0.180	
4	t3	1	14	37	1.2436	1.62	0.3764			0.080	
	t3	1	37	12	1.62	1.6481	0.0281			0.020	
5	t6	1	38	53	1.6481	2.1058	0.4578			0.000	
	t3	2	6	21	2.1058	2.1244	0.0186			0.170	
6	t3	2	7	28	2.1244	2.1472	0.0228			0.075	
	t3	2	8	50	2.1472	2.1611	0.0139			0.075	
7	t3	2	9	40	2.1611	2.4942	0.3331			0.055	
	t3	2	29	39	2.4942	2.5125	0.0183			0.055	
8	t3	2	30	45	2.5125	3.3283	0.8158			0.045	
	t3	3	19	42	3.3283	3.3481	0.0197			0.200	
9	t3	3	20	53	3.3481	3.4275	0.0794			0.040	
	t3	3	25	39	3.4275	3.5744	0.1469			3.000	
10	t3	3	34	28	3.5744	3.8633	0.2889			0.060	
10*	t4	3	51	48	3.8633	3.9589	0.0956			36.000	
	t4	3	57	32	3.9589	4.9736	1.0147			0.900	
11	t5	4	58	25	4.9736	5.0075	0.0339			0.000	
	t5	5	0	27	5.0075	5.1133	0.1058			1.000	
12	t5	5	6	48	5.1133	5.2306	0.1172			0.000	

Data C

13	14	5	13	50	5.2306	6.11	0.8794			38.000	4,120
		6	6	36	6.11	0	0				
Total							6.11			84.605	4,120

Survey No. 26

NUEVA SAN SALVADOR
 Equip No. 14
 Date: 10 Feb. 2000

Type of vehicle: Dump truck
 Nos. of trip: 1

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.295	0.295				
	t2	0	17	42	0.295	0.3911	0.0961			4.000	
2	t3	0	23	28	0.3911	0.5069	0.1158			0.200	
	t3	0	30	25	0.5069	0.5217	0.0147			0.300	
3	t3	0	31	18	0.5217	1.2253	0.7036			0.150	
	t3	1	13	31	1.2253	1.2558	0.0306			0.180	
4	t3	1	15	21	1.2558	1.4125	0.1567			0.080	
	t3	1	24	45	1.4125	1.4206	0.0081			0.020	
5	t6	1	25	14	1.4206	1.9458	0.5253			0.000	
	t3	1	56	45	1.9458	1.9586	0.0128			0.170	
6	t3	1	57	31	1.9586	2.0294	0.0708			0.075	
	t3	2	1	46	2.0294	2.0439	0.0144			0.075	
7	t3	2	2	38	2.0439	2.1981	0.1542			0.055	
	t3	2	11	53	2.1981	2.215	0.0169			0.055	
8	t3	2	12	54	2.215	2.6403	0.4253			0.045	
	t3	2	38	25	2.6403	2.6553	0.015			0.200	
9	t3	2	39	19	2.6553	2.7719	0.1167			0.040	
	t3	2	46	19	2.7719	2.9694	0.1975			3.000	
10	t3	2	58	10	2.9694	3.3106	0.3411			0.060	
	t4	3	18	38	3.3106	3.9314	0.6208			36.100	
10*	t5	3	55	53	3.9314	4.0081	0.0767			0.000	
	t4	4	0	29	4.0081	4.0372	0.0292			0.900	
11	t5	4	2	14	4.0372	4.0633	0.0261			0.000	
	t5	4	3	48	4.0633	4.1069	0.0436			1.000	
12	t5	4	6	25	4.1069	4.2447	0.1378			0.000	
13	t4	4	14	41	4.2447	5.53	1.2853			38.000	5,380
		5	31	48	5.53	0	0				
Total							5.53			84.705	5,380

Survey No. 27

NUEVA SAN SALVADOR

Type of vehicle: Dump truck

Equip No. 14

Nos. of trip: 1

Date: 12 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.1483	0.1483				
	t2	0	8	54	0.1483	0.2614	0.1131			4.000	
2	t3	0	15	41	0.2614	0.3639	0.1025			0.200	
	t3	0	21	50	0.3639	0.3817	0.0178			0.300	
3	t3	0	22	54	0.3817	0.9522	0.5706			0.150	
	t3	0	57	8	0.9522	0.9697	0.0175			0.180	
4	t3	0	58	11	0.9697	1.1489	0.1792			0.080	
	t3	1	8	56	1.1489	1.1619	0.0131			0.020	
5	t6	1	9	43	1.1619	1.6264	0.4644			0.000	
	t3	1	37	35	1.6264	1.6364	0.01			0.245	
6	t3	1	38	11	1.6364	1.9622	0.3258			0.075	
	t3	1	57	44	1.9622	1.9753	0.0131			0.055	
	t6	1	58	31	1.9753	2.0439	0.0686				
7	t3	2	2	38	2.0439	2.4128	0.3689			0.055	
	t3	2	24	46	2.4128	2.4281	0.0153			0.200	
8	t3	2	25	41	2.4281	2.5928	0.1647			0.040	
	t3	2	35	34	2.5928	2.6939	0.1011			3.000	
9	t3	2	41	38	2.6939	2.9736	0.2797			0.060	
	t4	2	58	25	2.9736	3.9464	0.9728			37.000	
10	t5	3	56	47	3.9464	3.9672	0.0208			0.000	
	t5	3	58	2	3.9672	4.0561	0.0889			1.000	
11	t5	4	3	22	4.0561	4.2094	0.1533			0.000	
12	t4	4	12	34	4.2094	5.4658	1.2564			38.000	5,223
		5	27	57	5.4658	0	0				
Total							5.4658			84.660	5,223

Survey No. 28

ANTIGUO CUSCATLAN

Type of vehicle: Dump truck

Equip. No. 8

Nos. of trip: 1

Date: 8 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start	Stop	Time	Start	Stop	Distance	
					(hour)	(hour)	(hour)	(km)	(km)	(km)	
1	t1	0	0	0	0	0.3375	0.3375			0	
1	t1		20	15	0.3375	0.4131	0.0756			0	
2	t2	0	24	47	0.4131	0.4867	0.0736			0.8	
2	t3	0	29	12	0.4867	1.5831	1.0964			0	
3	t3	1	34	59	1.5831	1.6483	0.0653			0.1	
4	t3	1	38	54	1.6483	1.7569	0.1086			0.5	
5	t3	1	45	25	1.7569	1.8597	0.1028			1	
6	t3	1	51	35	1.8597	2.1325	0.2728			0.3	

Data C

7	t3	2	7	57	2.1325	2.2767	0.1442			0.12	
8	t3	2	16	36	2.2767	2.3197	0.0431			0.2	
9	t3	2	19	11	2.3197	2.4147	0.095			0.3	
10	t3	2	24	53	2.4147	2.4339	0.0192			0.1	
11	t3	2	26	2	2.4339	2.5167	0.0828			0.3	
12	t3	2	31	0	2.5167	2.5283	0.0117			0.1	
13	t3	2	31	42	2.5283	2.5964	0.0681			0.2	
14	t3	2	35	47	2.5964	2.62	0.0236			0.1	
15	t3	2	37	12	2.62	2.7061	0.0861			0.2	
16	t3	2	42	22	2.7061	2.8522	0.1461			0.1	
17	t3	2	51	8	2.8522	2.9119	0.0597			0.1	
18	t3	2	54	43	2.9119	2.9494	0.0375			0.3	
19	t3	2	56	58	2.9494	3.2461	0.2967			0.7	
19	t3	3	14	46	3.2461	3.4183	0.1722			0	
20	t3	3	25	6	3.4183	3.5289	0.1106			0.3	
21	t3	3	31	44	3.5289	3.6608	0.1319			0.5	
22	t3	3	39	39	3.6608	3.7975	0.1367			0.6	
1	t4	3	47	51	3.7975	3.8644	0.0669			0.5	
1	t6	3	51	52	3.8644	4.2411	0.3767			0	
23	t4	4	14	28	4.2411	4.8553	0.6142			40.2	
23	t5	4	51	19	4.8553	5.0608	0.2056			0	12,470
1	t4	5	3	39	5.0608	5.5844	0.5236			40.5	
1		5	35	4	5.5844	0	0				
Total							5.5844			88.120	12,470

Survey No. 29

ANTIGUO CUSCATLAN

Type of vehicle: Dump truck

Equip. No. 8

Nos. of trip: 1

Date: 17 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.2267	0.2267			0	
1	t1		13	36	0.2267	0.2772	0.0506			0	
2	t6	0	16	38	0.2772	0.3317	0.0544			1.2	
2	t6	0	19	54	0.3317	0.4128	0.0811			0	
3	t1	0	24	46	0.4128	0.4767	0.0639			1.5	
3	t1	0	28	36	0.4767	0.6322	0.1556			0	
4	t2	0	37	56	0.6322	0.7106	0.0783			1.6	
4	t3	0	42	38	0.7106	1.9847	1.2742			0	
5	t3	1	59	5	1.9847	2.0417	0.0569			0.2	
6	t3	2	2	30	2.0417	2.6358	0.5942			0.1	
7	t3	2	38	9	2.6358	2.6981	0.0622			0.2	
8	t3	2	41	53	2.6981	2.7267	0.0286			0.1	
9	t3	2	43	36	2.7267	2.82	0.0933			0.4	
10	t3	2	49	12	2.82	2.8578	0.0378			0.3	
11	t3	2	51	28	2.8578	2.9742	0.1164			0.5	
12	t3	2	58	27	2.9742	3.0439	0.0697			0.6	
13	t3	3	2	38	3.0439	3.1417	0.0978			0.2	
14	t3	3	8	30	3.1417	3.1556	0.0139			0.1	

Data C

15	t3	3	9	20	3.1556	3.2264	0.0708			0.2	
16	t3	3	13	35	3.2264	3.4631	0.2367			0.3	
17	t3	3	27	47	3.4631	3.5014	0.0383			0.4	
18	t3	3	30	5	3.5014	3.6917	0.1903			0.2	
19	t3	3	41	30	3.6917	3.7836	0.0919			0.1	
20	t3	3	47	1	3.7836	3.8917	0.1081			0.1	
21	t3	3	53	30	3.8917	3.9169	0.0253			0.2	
22	t3	3	55	1	3.9169	4.0867	0.1697			0.4	
	t6	4	5	12	4.0867	4.1764	0.0897			0	
23	t3	4	10	35	4.1764	4.3069	0.1306			0.1	
24	t3	4	18	25	4.3069	4.4019	0.095			0.3	
25	t3	4	24	7	4.4019	4.4389	0.0369			0.2	
26	t3	4	26	20	4.4389	4.6064	0.1675			0.3	
27	t3	4	36	23	4.6064	4.6481	0.0417			0.1	
28	t3	4	38	53	4.6481	4.8014	0.1533			0.4	
29	t3	4	48	5	4.8014	4.91	0.1086			0.2	
2	t3	4	54	36	4.91	4.9506	0.0406			0.5	
	t6	4	57	2	4.9506	4.9619	0.0114			0	
2	t3	4	57	43	4.9619	4.9833	0.0214			0.1	
2	t6	4	59	0	4.9833	5.0336	0.0503			0	
1	t6	5	2	1	5.0336	5.1044	0.0708			1.2	
1	t6	5	6	16	5.1044	5.55	0.4456			0	
30	t4	5	33	0	5.55	6.0964	0.5464			40.2	
30	t5	6	5	47	6.0964	6.305	0.2086			0	
1	t4	6	18	18	6.305	6.8706	0.5656			40.5	
3	t6	6	52	14	6.8706	6.9697	0.0992			0.8	
3	t6	6	58	11	6.9697	7.0531	0.0833			0.8	12,470
1		7	3	11	7.0531	0	0				
Total							7.0531			94.600	12,470

Survey No. 30

ANTIGUO CUSCATLAN

Type of vehicle: Dump truck

Equip. No. 8

Nos. of trip: 1

Date: 18 Feb. 2000

No.	Unit time	Chronometer			Time			Distance			Collection amount (pound)
		H	M	S	Start (hour)	Stop (hour)	Time (hour)	Start (km)	Stop (km)	Distance (km)	
1	t1	0	0	0	0	0.2706	0.2706			0	
1	t6		16	14	0.2706	0.5292	0.2586			0	
1	t6	0	31	45	0.5292	0.6333	0.1042			0	
1	t1	0	38	0	0.6333	0.6889	0.0556			0	
2	t2	0	41	20	0.6889	0.7281	0.0392			0.8	
2	t3	0	43	41	0.7281	1.6142	0.8861			0	
3	t3	1	36	51	1.6142	1.7258	0.1117			0.3	
3	t3	1	43	33	1.7258	1.7528	0.0269			0	
4	t3	1	45	10	1.7528	1.8022	0.0494			0.1	
5	t3	1	48	8	1.8022	1.8756	0.0733			0.3	
6	t3	1	52	32	1.8756	1.9633	0.0878			0.1	
7	t3	1	57	48	1.9633	1.9958	0.0325			0.3	
8	t3	1	59	45	1.9958	2.0931	0.0972			0.5	

Data C

9	t3	2	5	35	2.0931	2.1583	0.0653			0.6	
10	t3	2	9	30	2.1583	2.2453	0.0869			0.2	
11	t3	2	14	43	2.2453	2.3314	0.0861			0.3	
12	t3	2	19	53	2.3314	2.6908	0.3594			0.3	
13	t3	2	41	27	2.6908	2.7161	0.0253			0.4	
13	t3	2	42	58	2.7161	2.8056	0.0894			0	
14	t3	2	48	20	2.8056	2.9547	0.1492			0.2	
15	t3	2	57	17	2.9547	3.0319	0.0772			0.1	
16	t3	3	1	55	3.0319	3.1106	0.0786			0.4	
17	t3	3	6	38	3.1106	3.2081	0.0975			0.5	
18	t3	3	12	29	3.2081	3.4681	0.26			0.7	
18	t3	3	28	5	3.4681	3.6825	0.2144			0	
19	t3	3	40	57	3.6825	3.8611	0.1786			0.3	
20	t3	3	51	40	3.8611	3.9286	0.0675			0.3	
1	t6	3	55	43	3.9286	3.9906	0.0619			1	
1	t6	3	59	26	3.9906	4.43	0.4394			0	
21	t4	4	25	48	4.43	4.9972	0.5672			40.2	
21	t5	4	59	50	4.9972	5.2369	0.2397			0	
1	t4	5	14	13	5.2369	5.7667	0.5297			40.5	12,470
1		5	46	0	5.7667	0	0				
Total							5.7667			88.400	12,470

Data D

*Questionnaire for Recycle Market
Survey*

Questionnaire for Recycle Market Survey

1. General Information

Date : _____
Name of Interviewer : _____
Name of Interviewee : _____
Name of the company (union) : _____
Zone Code & Address : Zone code _____
: Address _____
Phone facsimile number and email : Phone _____
: Fax _____
:Email _____

1.1. General Information of Interviewee

Q.1. What is your position within the company (union)? [_____]
Q.2. What is the number of employee? [_____] persons
Q.3. Type of company (union):
[_____] 1. Private
[_____] 2. Public
[_____] 3. Others (specify: _____)
Q.4. Outline of company (union):
1. Year of established : _____
2. Annual sales amount : _____ colones/year
3. Name of main products or services: _____

2. Products and Shipping

Q.5. What is production item of your company (union)?

Name of products	Type	Production item (please tick appropriate boxes)
Glass	Bottle (clear)	<input type="checkbox"/>
	Bottle (brown)	<input type="checkbox"/>
	Bottle (green)	<input type="checkbox"/>
	Bottle (black)	<input type="checkbox"/>
	Bottle (others)	<input type="checkbox"/>
	Bottle (mixed)	<input type="checkbox"/>
	Crashed glass (clear)	<input type="checkbox"/>
	Crashed glass (brown)	<input type="checkbox"/>
	Crashed glass (green)	<input type="checkbox"/>
	Crashed glass (black)	<input type="checkbox"/>
	Crashed glass (others)	<input type="checkbox"/>
	Crashed glass (mixed)	<input type="checkbox"/>
	Others (specify)	<input type="checkbox"/>
	Others (specify)	<input type="checkbox"/>
Aluminum	Can	<input type="checkbox"/>
	Ingot	<input type="checkbox"/>
	Other than ingot	<input type="checkbox"/>
	Others (specify)	<input type="checkbox"/>
	Others(specify)	<input type="checkbox"/>
Steel	Can	<input type="checkbox"/>
	Thin plate	<input type="checkbox"/>
	Ingot	<input type="checkbox"/>
	Other than ingot	<input type="checkbox"/>
	Others(specify)	<input type="checkbox"/>
	Others(specify)	<input type="checkbox"/>
	Others(specify)	<input type="checkbox"/>
Paper	News paper, magazine	<input type="checkbox"/>
	Cardboard	<input type="checkbox"/>
	Others(specify)	<input type="checkbox"/>
	Others (specify)	<input type="checkbox"/>
Plastic	Polypropylene film	<input type="checkbox"/>
	Polystyrene film	<input type="checkbox"/>
	Polyethylen film	<input type="checkbox"/>
	Vinyl chloride film	<input type="checkbox"/>
	Polypropylene	<input type="checkbox"/>
	Polystyrene	<input type="checkbox"/>
	Polyethylen	<input type="checkbox"/>
	Vinyl chloride	<input type="checkbox"/>
	PET bottle	<input type="checkbox"/>
	Others(specify)	<input type="checkbox"/>
	Others (specify)	<input type="checkbox"/>
Compost		<input type="checkbox"/>
Others (specify)		
Others (specify)		

Q.6. What is the main client? (please fill up below table)

	Domestic use				Export		
	Major company	Medium size company	Small company	Others (specify: _____)	Name of country(1)	Name of country(2)	Name of country(3)
	(Please tick appropriate boxes)						
Glass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Q.7. Annual shipping amount (please fill up below table)

	Domestic use				Export		
	Major company	Medium size company	Small company	Others (specify)	Name of country(1)	Name of country(2)	Name of country(3)
	(ton/year)						
Glass							
Aluminum							
Steel							
Paper							
Plastic							
Compost							

Q.8. How much is your shipping price?

Name of materials	unit price (colones/kg)
Glass	
Aluminum	
Steel	
Paper	
Plastic	
Compost	

3. Major supplier

Q.9. What is major supplier(s) of your company?(please tick appropriate boxes or fill up below table)

Name of materials	Citizen	Industry	Waste collector			Middle man	Waste piker	Others (specify)
			Micro enterprise	Load sweeper	Collection vehicle crew			
Glass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Q.10. Annual purchase amount

Name of materials	Suppliers							
	Citizen	Industry	Waste collector			Middle man	Waste piker	Others (specify)
			Micro enterprise	Load sweeper	Collection vehicle crew			
(ton/year)								
Glass								
Aluminum								
Steel								
Paper								
Plastic								
Compost								

Q.11. How much is your purchasing unit cost?

Name of materials	Suppliers							
	Citizen	Industry	Waste collector			Middle man	Waste piker	Others (specify)
			Micro enterprise	Load sweeper	Collection vehicle crew			
(colones/kg)								
Glass								
Aluminum								
Steel								
Paper								
Plastic								
Compost								

4. Production process

Q.12. What is your production process?

	Sorting	Crushing	Compaction	Washing	Others (specify)
	(please tick appropriate boxes)				processing name: _____
Glass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. Opinion

Q.13. Do you think the recycle industry should cooperate with the country and/or municipality in managing wastes?

- 1. Yes.
- 2. No.
- 3. I don't know.
- 4. Others (specify: _____)

Q.14. How is the trend of your production amount?

- 1. It is getting significantly higher.
- 2. It is getting higher.
- 3. It is relatively stable.
- 4. It is getting lower.
- 5. Others (specify: _____)

Q.15. Do you feel you need a support from the government or municipality or any other relevant organizations for the management of your activity? (plural answer question)

- 1. Yes, we need financial support.
- 2. Yes, we need technical support.
- 3. Yes, we need support of other kinds (specify: _____)
- 4. No, we don't.
- 5. Others (specify: _____)

-----Thank you very much!!!-----