

# Annex 4-1 Results of Traffic Volume Counting Survey

## RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.30

SURVEY POINT: 1

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	65	15	16	33	5	1	3	138	22	15.9%	10.6%	8
8:00- 9:00	60	7	4	20	6	0	4	101	10	9.9%	7.8%	7
9:00-10:00	40	8	6	23	7	0	7	91	13	14.3%	7.0%	5
10:00-11:00	32	4	6	24	9	3	1	79	18	22.8%	6.1%	7
11:00-12:00	40	8	3	26	9	1	0	87	13	14.9%	6.7%	7
12:00-13:00	75	7	2	31	7	5	2	129	14	10.9%	9.9%	8
13:00-14:00	16	8	3	38	7	5	1	78	15	19.2%	6.0%	3
14:00-15:00	45	19	8	30	5	0	1	108	13	12.0%	8.3%	5
15:00-16:00	47	11	6	39	5	6	1	115	17	14.8%	8.8%	7
16:00-17:00	39	10	3	27	9	2	0	90	14	15.6%	6.9%	3
17:00-18:00	61	4	5	21	5	16	2	114	26	22.8%	8.8%	2
18:00-19:00	45	15	15	37	11	39	8	170	65	38.2%	13.1%	18
TOTAL	565	116	77	349	85	78	30	1300	240	18.5%	100.0%	80

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	83	10	5	22	7	3	3	133	15	11.3%	9.5%	7
8:00- 9:00	70	8	5	31	8	7	4	133	20	15.0%	9.5%	8
9:00-10:00	45	6	4	34	7	9	3	108	20	18.5%	7.7%	8
10:00-11:00	50	8	3	26	8	8	4	107	19	17.8%	7.7%	9
11:00-12:00	52	9	6	35	7	1	2	102	14	13.7%	7.3%	8
12:00-13:00	75	7	6	30	8	3	2	131	17	13.0%	9.4%	10
13:00-14:00	65	7	8	33	3	2	5	123	13	10.6%	8.8%	3
14:00-15:00	45	10	4	29	6	4	3	101	14	13.9%	7.2%	2
15:00-16:00	51	7	2	31	5	4	1	101	11	10.9%	7.2%	7
16:00-17:00	48	5	5	33	1	3	1	96	9	9.4%	6.9%	5
17:00-18:00	70	10	3	37	10	6	3	139	19	13.7%	10.0%	6
18:00-19:00	60	10	8	35	3	2	2	120	13	10.8%	8.6%	8
TOTAL	714	97	59	366	73	52	33	1394	184	13.2%	100.0%	81

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	148	25	21	55	12	4	6	271	37	13.7%	10.1%	15
8:00- 9:00	130	15	9	51	14	7	8	234	30	12.8%	8.7%	15
9:00-10:00	85	14	10	57	14	9	10	199	33	16.6%	7.4%	13
10:00-11:00	82	12	9	50	17	11	5	186	37	19.9%	6.9%	16
11:00-12:00	92	17	9	51	16	2	2	189	27	14.3%	7.0%	15
12:00-13:00	150	14	8	61	15	8	4	260	31	11.9%	9.7%	18
13:00-14:00	81	15	11	71	10	7	6	201	28	13.9%	7.5%	6
14:00-15:00	90	29	12	59	11	4	4	209	27	12.9%	7.8%	7
15:00-16:00	98	18	8	70	10	10	2	216	28	13.0%	8.0%	14
16:00-17:00	87	15	8	60	10	5	1	186	23	12.4%	6.9%	8
17:00-18:00	131	14	8	58	15	22	5	253	45	17.8%	9.4%	8
18:00-19:00	105	25	23	72	14	41	10	290	78	26.9%	10.8%	26
TOTAL	1279	213	136	715	158	130	63	2694	424	15.7%	100.0%	161

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.30

SURVEY POINT: 2

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Hevy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage Heavy. V (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	107	11	10	73	23	0	3	227	33	14.5%	10.3%	23
8:00- 9:00	105	10	11	66	10	4	2	208	25	12.0%	9.4%	15
9:00-10:00	66	9	6	59	23	2	5	170	31	18.2%	7.7%	16
10:00-11:00	77	15	8	58	19	8	1	186	35	18.8%	8.4%	20
11:00-12:00	77	9	6	47	18	18	2	177	42	23.7%	8.0%	23
12:00-13:00	57	15	6	51	6	10	1	146	22	15.1%	6.6%	16
13:00-14:00	69	10	10	59	15	7	2	172	32	18.6%	7.8%	9
14:00-15:00	55	10	9	45	17	15	3	154	41	26.6%	7.0%	7
15:00-16:00	76	19	8	76	18	17	1	215	43	20.0%	9.7%	7
16:00-17:00	76	10	10	52	14	13	3	178	37	20.8%	8.1%	12
17:00-18:00	83	11	10	59	9	28	2	202	47	23.3%	9.1%	21
18:00-19:00	70	12	7	57	15	11	2	174	33	19.0%	7.9%	18
TOTAL	918	141	101	702	187	133	27	2209	421	19.1%	100.0%	187

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Hevy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	96	18	11	71	15	14	3	228	40	17.5%	10.1%	11
8:00- 9:00	86	11	8	58	21	20	3	207	49	23.7%	9.1%	17
9:00-10:00	88	8	9	64	18	12	2	201	39	19.4%	8.9%	22
10:00-11:00	72	9	9	84	11	11	3	199	31	15.6%	8.8%	12
11:00-12:00	80	9	10	60	10	17	6	192	37	19.3%	8.5%	18
12:00-13:00	76	10	8	65	9	13	0	181	30	16.6%	8.0%	14
13:00-14:00	64	18	7	69	11	9	3	181	27	14.9%	8.0%	11
14:00-15:00	68	12	8	81	16	17	0	202	41	20.3%	8.9%	12
15:00-16:00	66	7	12	55	9	12	3	164	33	20.1%	7.2%	8
16:00-17:00	81	10	8	39	10	8	5	161	26	16.1%	7.1%	7
17:00-18:00	73	11	10	74	10	13	2	193	33	17.1%	8.5%	15
18:00-19:00	73	6	7	55	8	6	3	158	21	13.3%	7.0%	19
TOTAL	923	129	107	775	148	152	33	2267	407	18.0%	100.0%	166

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Hevy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage Heavy. V (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	203	29	21	144	38	14	6	455	73	16.0%	10.2%	34
8:00- 9:00	191	21	19	124	31	24	5	415	74	17.8%	9.3%	32
9:00-10:00	154	17	15	123	41	14	7	371	70	18.9%	8.3%	38
10:00-11:00	149	24	17	142	30	19	4	385	66	17.1%	8.6%	32
11:00-12:00	157	18	16	107	28	35	8	369	79	21.4%	8.2%	41
12:00-13:00	133	25	14	116	15	23	1	327	52	15.9%	7.3%	30
13:00-14:00	133	28	17	128	26	16	5	353	59	16.7%	7.9%	20
14:00-15:00	123	22	17	126	33	32	3	356	82	23.0%	8.0%	19
15:00-16:00	142	26	20	131	27	29	4	379	76	20.1%	8.5%	15
16:00-17:00	157	20	18	91	24	21	8	339	63	18.6%	7.6%	19
17:00-18:00	156	22	20	133	19	41	4	395	80	20.3%	8.8%	36
18:00-19:00	143	18	14	112	23	17	5	332	54	16.3%	7.4%	37
TOTAL	1841	270	208	1477	335	285	60	4476	828	18.5%	100.0%	353

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.30

SURVEY POINT: 3

Direction (1) Ta Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	6	1	9	8	10	5	2	41	24	58.5%	10.6%	4
8:00- 9:00	5	1	9	13	3	3	1	35	15	42.9%	9.1%	3
9:00-10:00	2	5	2	13	3	1	0	26	6	23.1%	6.7%	1
10:00-11:00	9	2	2	11	4	4	0	32	10	31.3%	8.3%	0
11:00-12:00	4	0	2	13	2	4	0	25	8	32.0%	6.5%	0
12:00-13:00	4	2	2	11	4	3	0	26	9	34.6%	6.7%	3
13:00-14:00	6	1	1	10	9	2	0	29	12	41.4%	7.5%	0
14:00-15:00	11	7	4	12	5	3	0	42	12	28.6%	10.9%	1
15:00-16:00	13	3	3	12	8	3	0	42	14	33.3%	10.9%	0
16:00-17:00	5	1	2	11	2	2	0	23	6	26.1%	6.0%	1
17:00-18:00	16	3	5	10	1	3	1	39	9	23.1%	10.1%	8
18:00-19:00	4	1	1	10	8	2	0	26	11	42.3%	6.7%	5
TOTAL	85	27	42	134	59	35	4	386	136	35.2%	100.0%	26

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	7	5	1	12	2	0	1	28	3	10.7%	7.8%	2
8:00- 9:00	11	1	1	4	1	0	1	19	2	10.5%	5.3%	5
9:00-10:00	9	3	1	11	6	3	0	33	10	30.3%	9.2%	1
10:00-11:00	13	3	2	5	3	2	1	29	7	24.1%	8.1%	2
11:00-12:00	19	0	3	6	5	1	1	35	9	25.7%	9.7%	0
12:00-13:00	9	1	8	10	7	1	0	36	16	44.4%	10.0%	1
13:00-14:00	7	2	2	4	3	1	0	19	6	31.6%	5.3%	2
14:00-15:00	11	0	5	15	4	1	0	36	10	27.8%	10.0%	0
15:00-16:00	11	3	3	8	3	5	0	33	11	33.3%	9.2%	1
16:00-17:00	16	1	5	10	4	2	0	38	11	28.9%	10.6%	0
17:00-18:00	14	1	2	8	7	0	1	33	9	27.3%	9.2%	5
18:00-19:00	9	1	2	3	3	0	2	20	5	25.0%	5.6%	0
TOTAL	136	21	35	96	48	16	7	359	99	27.6%	100.0%	19

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	13	6	10	20	12	5	3	69	27	39.1%	9.3%	6
8:00- 9:00	16	2	10	17	4	3	2	54	17	31.5%	7.2%	8
9:00-10:00	11	8	3	24	9	4	0	59	16	27.1%	7.9%	2
10:00-11:00	22	5	4	16	7	6	1	61	17	27.9%	8.2%	2
11:00-12:00	23	0	5	19	7	5	1	60	17	28.3%	8.1%	0
12:00-13:00	13	3	10	21	11	4	0	62	25	40.3%	8.3%	4
13:00-14:00	13	3	3	14	12	3	0	48	18	37.5%	6.4%	2
14:00-15:00	22	7	9	27	9	4	0	78	22	28.2%	10.5%	1
15:00-16:00	24	6	6	20	11	8	0	75	25	33.3%	10.1%	1
16:00-17:00	21	2	7	21	6	4	0	61	17	27.9%	8.2%	1
17:00-18:00	30	4	7	18	8	3	2	72	18	25.0%	9.7%	13
18:00-19:00	13	2	3	13	11	2	2	46	16	34.8%	6.2%	5
TOTAL	221	48	77	230	107	51	11	745	235	31.5%	100.0%	45

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY (24 Hour)

DATE: 1993. 3. 30

SURVEY POINT: 4

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Vhi (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	31	21	21	55	12	1	3	144	34	23.6%	5.5%	15
8:00- 9:00	67	18	21	58	17	3	2	186	41	22.0%	7.1%	16
9:00-10:00	60	8	18	56	18	7	6	173	43	24.9%	6.6%	6
10:00-11:00	47	10	14	51	16	10	3	151	40	26.5%	5.8%	6
11:00-12:00	48	14	14	47	23	20	0	166	57	34.3%	6.4%	10
12:00-13:00	56	16	17	54	18	14	3	178	49	27.5%	6.8%	7
13:00-14:00	41	12	16	28	20	4	0	121	40	33.1%	4.6%	7
14:00-15:00	39	7	17	53	30	14	1	161	61	37.9%	6.2%	8
15:00-16:00	62	11	18	64	30	9	4	198	57	28.8%	7.6%	8
16:00-17:00	40	15	15	53	19	7	2	151	41	27.2%	5.8%	12
17:00-18:00	62	12	17	68	20	15	2	196	52	26.5%	7.5%	7
18:00-19:00	62	18	12	54	27	21	0	194	60	30.9%	7.4%	8
SUB TOTAL (T)	615	162	200	641	250	125	26	2019	575	28.5%	77.3%	110
19:00-20:00	56	5	9	50	12	7	3	142	28	19.7%	5.4%	9
20:00-21:00	35	10	3	36	5	13	0	102	21	20.6%	3.9%	4
21:00-22:00	26	5	1	24	3	1	0	60	5	8.3%	2.3%	5
22:00-23:00	16	3	0	17	4	1	0	41	5	12.2%	1.6%	0
23:00-24:00	6	2	0	6	1	3	0	18	4	22.2%	0.7%	1
0:00-1:00	5	2	0	1	1	0	1	10	1	10.0%	0.4%	0
1:00-2:00	0	0	0	1	2	3	0	6	5	83.3%	0.2%	0
2:00-3:00	0	0	0	5	1	1	0	7	2	28.6%	0.3%	0
3:00-4:00	0	0	0	1	2	3	0	6	5	83.3%	0.2%	0
4:00-5:00	2	1	1	2	3	1	2	12	5	41.7%	0.5%	0
5:00-6:00	23	4	10	18	5	1	1	62	16	25.8%	2.4%	2
6:00-7:00	32	13	26	37	11	3	4	126	40	31.7%	4.8%	8
SUB TOTAL	201	45	50	198	50	37	11	592	137	23.1%	22.7%	29
TOTAL (N)	816	207	250	839	300	162	37	2611	712	27.3%	100.0%	139
(T)/(N)	1.33	1.28	1.25	1.31	1.20	1.30	1.42	1.29	1.24			1.26

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Vhi (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	72	22	17	63	20	12	2	208	49	23.6%	7.8%	12
8:00- 9:00	82	9	23	63	20	11	4	212	54	25.5%	7.9%	19
9:00-10:00	61	15	15	68	24	4	5	192	43	22.4%	7.2%	11
10:00-11:00	60	19	14	64	15	8	5	185	37	20.0%	6.9%	9
11:00-12:00	55	10	18	50	21	13	4	171	52	30.4%	6.4%	7
12:00-13:00	53	15	21	56	21	12	3	181	54	29.8%	6.8%	6
13:00-14:00	44	20	17	44	17	13	1	156	47	30.1%	5.8%	6
14:00-15:00	53	10	20	42	27	19	5	176	66	37.5%	6.6%	5
15:00-16:00	73	7	19	59	23	4	3	188	46	24.5%	7.0%	8
16:00-17:00	45	7	16	53	19	8	2	150	43	28.7%	5.6%	9
17:00-18:00	46	11	15	62	12	6	1	153	33	21.6%	5.7%	10
18:00-19:00	57	9	15	47	9	5	1	143	29	20.3%	5.4%	15
SUB TOTAL (T)	701	154	210	671	228	115	36	2115	553	26.1%	79.0%	117
19:00-20:00	51	5	11	49	10	14	1	141	35	24.8%	5.3%	8
20:00-21:00	23	10	5	35	6	7	1	87	18	20.7%	3.3%	4
21:00-22:00	14	6	0	28	5	1	1	55	6	10.9%	2.1%	3
22:00-23:00	11	3	0	10	3	7	0	34	10	29.4%	1.3%	2
23:00-24:00	8	3	0	3	1	2	0	17	3	17.6%	0.6%	0
0:00-1:00	5	0	0	1	3	5	0	14	8	57.1%	0.5%	0
1:00-2:00	1	0	0	1	1	1	1	5	2	40.0%	0.2%	1
2:00-3:00	2	0	0	3	0	2	0	7	2	28.6%	0.3%	0
3:00-4:00	0	0	0	5	2	4	0	11	6	54.5%	0.4%	0
4:00-5:00	8	1	2	5	6	0	0	22	8	36.4%	0.8%	0
5:00-6:00	7	2	8	13	10	6	1	47	24	51.1%	1.8%	1
6:00-7:00	32	7	18	34	20	5	1	117	43	36.8%	4.4%	6
SUB TOTAL	162	37	44	187	67	54	6	557	165	29.6%	21.0%	25
TOTAL (N)	863	191	254	858	295	169	42	2672	718	26.9%	100.0%	142
(T)/(N)	1.23	1.24	1.21	1.28	1.29	1.47	1.17	1.26	1.30			1.21

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

Direction	(1)+(2)		Total									
Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Vhi (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	103	43	38	118	32	13	5	352	83	23.6%	6.7%	27
8:00- 9:00	149	27	44	121	37	14	6	398	95	23.9%	7.5%	35
9:00-10:00	121	23	33	124	42	11	11	365	86	23.6%	6.9%	17
10:00-11:00	107	29	28	115	31	18	8	336	77	22.9%	6.4%	15
11:00-12:00	103	24	32	97	44	33	4	337	109	32.3%	6.4%	17
12:00-13:00	109	31	38	110	39	26	6	359	103	28.7%	6.8%	13
13:00-14:00	85	32	33	72	37	17	1	277	87	31.4%	5.2%	13
14:00-15:00	92	17	37	95	57	33	6	337	127	37.7%	6.4%	13
15:00-16:00	135	18	37	123	53	13	7	386	103	26.7%	7.3%	16
16:00-17:00	85	22	31	106	38	15	4	301	84	27.9%	5.7%	21
17:00-18:00	108	23	32	130	32	21	3	349	85	24.4%	6.6%	17
18:00-19:00	119	27	27	101	36	26	1	337	89	26.4%	6.4%	23
SUB TOTAL (T)	1316	316	410	1312	478	240	62	4134	1128	27.3%	78.2%	227
19:00-20:00	107	10	20	99	22	21	4	283	63	22.3%	5.4%	17
20:00-21:00	58	20	8	71	11	20	1	189	39	20.6%	3.6%	8
21:00-22:00	40	11	1	52	8	2	1	115	11	9.6%	2.2%	8
22:00-23:00	27	6	0	27	7	8	0	75	15	20.0%	1.4%	2
23:00-24:00	14	5	0	9	2	5	0	35	7	20.0%	0.7%	1
0:00-1:00	10	2	0	2	4	5	1	24	9	37.5%	0.5%	0
1:00-2:00	1	0	0	2	3	4	1	11	7	63.6%	0.2%	1
2:00-3:00	2	0	0	8	1	3	0	14	4	28.6%	0.3%	0
3:00-4:00	0	0	0	6	4	7	0	17	11	64.7%	0.3%	0
4:00-5:00	10	2	3	7	9	1	2	34	13	38.2%	0.6%	0
5:00-6:00	30	6	18	31	15	7	2	109	40	36.7%	2.1%	3
6:00-7:00	64	20	44	71	31	8	5	243	83	34.2%	4.6%	14
SUB TOTAL	363	82	94	385	117	91	17	1149	302	26.3%	21.8%	54
TOTAL (N)	1679	398	504	1697	595	331	79	5283	1430	27.1%	100.0%	281
(T)/(N)	1.28	1.26	1.23	1.29	1.24	1.38	1.27	1.28	1.27			1.24

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.30

SURVEY POINT: 5

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	4	1	4	5	8	4	4	30	16	53.3%	9.4%	0
8:00- 9:00	9	1	3	3	3	6	1	26	12	46.2%	8.2%	0
9:00-10:00	8	7	4	5	3	2	1	30	9	30.0%	9.4%	0
10:00-11:00	15	4	2	7	3	1	0	32	6	18.8%	10.1%	0
11:00-12:00	8	0	2	4	10	10	2	36	22	61.1%	11.3%	2
12:00-13:00	7	2	2	7	5	8	1	32	15	46.9%	10.1%	0
13:00-14:00	1	1	3	6	5	3	0	19	11	57.9%	6.0%	2
14:00-15:00	4	2	4	4	7	2	1	24	13	54.2%	7.5%	1
15:00-16:00	3	0	2	10	8	8	1	32	18	56.3%	10.1%	2
16:00-17:00	0	3	3	6	3	5	1	21	11	52.4%	6.6%	0
17:00-18:00	4	1	2	8	9	7	0	31	18	58.1%	9.7%	0
18:00-19:00	0	1	0	2	1	1	0	5	2	40.0%	1.6%	1
TOTAL	63	23	31	67	65	57	12	318	153	48.1%	100.0%	8

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	1	0	2	3	10	0	0	16	12	75.0%	7.7%	0
8:00- 9:00	1	2	0	5	11	2	0	21	13	61.9%	10.0%	0
9:00-10:00	1	3	3	8	6	3	1	25	12	48.0%	12.0%	0
10:00-11:00	5	3	2	2	1	1	1	15	4	26.7%	7.2%	0
11:00-12:00	0	0	3	3	4	2	1	13	9	69.2%	6.2%	0
12:00-13:00	1	1	2	6	3	1	0	14	6	42.9%	6.7%	0
13:00-14:00	1	2	3	2	2	3	1	14	8	57.1%	6.7%	0
14:00-15:00	2	2	2	1	5	4	0	16	11	68.8%	7.7%	0
15:00-16:00	1	3	2	3	3	2	0	14	7	50.0%	6.7%	1
16:00-17:00	1	1	1	4	9	2	1	19	12	63.2%	9.1%	0
17:00-18:00	1	3	3	12	3	0	2	24	6	25.0%	11.5%	2
18:00-19:00	1	0	3	6	6	1	1	18	10	55.6%	8.6%	2
TOTAL	16	20	26	55	63	21	8	209	110	52.6%	100.0%	5

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	5	1	6	8	18	4	4	46	28	60.9%	8.7%	0
8:00- 9:00	10	3	3	8	14	8	1	47	25	53.2%	8.9%	0
9:00-10:00	9	10	7	13	9	5	2	55	21	38.2%	10.4%	0
10:00-11:00	20	7	4	9	4	2	1	47	10	21.3%	8.9%	0
11:00-12:00	8	0	5	7	14	12	3	49	31	63.3%	9.3%	2
12:00-13:00	8	3	4	13	8	9	1	46	21	45.7%	8.7%	0
13:00-14:00	2	3	6	8	7	6	1	33	19	57.6%	6.3%	2
14:00-15:00	6	4	6	5	12	6	1	40	24	60.0%	7.6%	1
15:00-16:00	4	3	4	13	11	10	1	46	25	54.3%	8.7%	3
16:00-17:00	1	4	4	10	12	7	2	40	23	57.5%	7.6%	0
17:00-18:00	5	4	5	20	12	7	2	55	24	43.6%	10.4%	2
18:00-19:00	1	1	3	8	7	2	1	23	12	52.2%	4.4%	3
TOTAL	79	43	57	122	128	78	20	527	263	49.9%	100.0%	13

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.30

SURVEY POINT: 6-1

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	6	3	2	5	0	1	0	0	3	0.0%	0.0%	6
8:00- 9:00	2	0	0	7	1	0	0	10	1	10.0%	9.7%	1
9:00-10:00	1	0	0	1	1	0	0	0	1	0.0%	0.0%	0
10:00-11:00	2	0	0	3	1	0	0	6	1	16.7%	5.8%	1
11:00-12:00	2	1	0	2	0	1	0	6	1	16.7%	5.8%	0
12:00-13:00	0	0	1	1	2	3	0	7	6	85.7%	6.8%	1
13:00-14:00	1	0	1	3	0	5	0	10	6	60.0%	9.7%	1
14:00-15:00	2	0	3	2	1	0	0	8	4	50.0%	7.8%	1
15:00-16:00	1	0	0	5	2	1	0	9	3	33.3%	8.7%	0
16:00-17:00	2	0	0	1	2	1	0	6	3	50.0%	5.8%	1
17:00-18:00	0	0	3	1	5	1	1	11	9	81.8%	10.7%	1
18:00-19:00	3	0	0	1	2	3	1	10	5	50.0%	9.7%	1
TOTAL	22	4	10	32	17	16	2	103	43	41.7%	100.0%	14

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	0	1	3	5	0	3	0	12	6	50.0%	11.9%	2
8:00- 9:00	1	1	0	2	3	3	0	10	6	60.0%	9.9%	2
9:00-10:00	0	0	0	5	1	3	0	9	4	44.4%	8.9%	1
10:00-11:00	1	0	0	2	1	2	0	6	3	50.0%	5.9%	1
11:00-12:00	0	0	0	1	5	6	0	12	11	91.7%	11.9%	0
12:00-13:00	1	0	0	1	2	0	0	4	2	50.0%	4.0%	0
13:00-14:00	0	0	0	2	6	3	0	11	9	81.8%	10.9%	2
14:00-15:00	1	0	1	2	1	2	1	8	4	50.0%	7.9%	1
15:00-16:00	1	0	0	1	1	2	0	5	3	60.0%	5.0%	2
16:00-17:00	1	0	1	3	4	0	0	9	5	55.6%	8.9%	0
17:00-18:00	3	0	0	0	2	0	0	5	2	40.0%	5.0%	0
18:00-19:00	1	0	0	0	1	8	0	10	9	90.0%	9.9%	1
TOTAL	10	2	5	24	27	32	1	101	64	63.4%	100.0%	12

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	6	4	5	10	0	4	0	29	9	31.0%	14.2%	8
8:00- 9:00	3	1	0	9	4	3	0	20	7	35.0%	9.8%	3
9:00-10:00	1	0	0	6	2	3	0	12	5	41.7%	5.9%	1
10:00-11:00	3	0	0	5	2	2	0	12	4	33.3%	5.9%	2
11:00-12:00	2	1	0	3	5	7	0	18	12	66.7%	8.8%	0
12:00-13:00	1	0	1	2	4	3	0	11	8	72.7%	5.4%	1
13:00-14:00	1	0	1	5	6	8	0	21	15	71.4%	10.3%	3
14:00-15:00	3	0	4	4	2	2	1	16	8	50.0%	7.8%	2
15:00-16:00	2	0	0	6	3	3	0	14	6	42.9%	6.9%	2
16:00-17:00	3	0	1	4	6	1	0	15	8	53.3%	7.4%	1
17:00-18:00	3	0	3	1	7	1	1	16	11	68.8%	7.8%	1
18:00-19:00	4	0	0	1	3	11	1	20	14	70.0%	9.8%	2
TOTAL	32	6	15	56	44	48	3	204	107	52.5%	100.0%	26

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.30

SURVEY POINT: 6-2

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicl	Percentage H. Vhi (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	1	0	4	6	1	1	0	13	6	46.2%	7.4%	1
8:00- 9:00	0	0	1	8	5	1	0	15	7	46.7%	8.5%	0
9:00-10:00	5	1	4	4	7	2	1	24	13	54.2%	13.6%	2
10:00-11:00	2	0	1	5	6	3	0	17	10	58.8%	9.7%	0
11:00-12:00	3	0	3	3	8	0	0	17	11	64.7%	9.7%	1
12:00-13:00	1	1	2	3	2	2	0	11	6	54.5%	6.3%	0
13:00-14:00	1	0	1	4	3	1	0	10	5	50.0%	5.7%	1
14:00-15:00	3	0	1	2	6	1	0	13	8	61.5%	7.4%	0
15:00-16:00	3	0	1	1	4	0	0	9	5	55.6%	5.1%	0
16:00-17:00	5	1	2	9	5	2	0	24	9	37.5%	13.6%	1
17:00-18:00	5	0	3	5	4	1	0	18	8	44.4%	10.2%	1
18:00-19:00	1	0	0	2	1	1	0	5	2	40.0%	2.8%	0
TOTAL	30	3	23	52	52	15	1	176	90	51.1%	100.0%	7

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicl	Percentage H. Vhi (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	1	0	3	3	1	0	0	8	4	50.0%	5.1%	1
8:00- 9:00	0	1	2	5	1	1	1	11	4	36.4%	7.0%	0
9:00-10:00	3	1	1	4	4	2	0	15	7	46.7%	9.6%	0
10:00-11:00	3	1	2	4	3	1	1	15	6	40.0%	9.6%	2
11:00-12:00	1	0	3	4	3	1	0	12	7	58.3%	7.6%	1
12:00-13:00	4	1	3	6	2	1	0	17	6	35.3%	10.8%	0
13:00-14:00	2	1	3	10	2	0	1	19	5	26.3%	12.1%	0
14:00-15:00	1	0	1	8	1	2	0	13	4	30.8%	8.3%	0
15:00-16:00	3	1	2	3	3	1	0	13	6	46.2%	8.3%	1
16:00-17:00	5	0	2	3	2	0	1	13	4	30.8%	8.3%	1
17:00-18:00	4	1	1	6	2	1	0	15	4	26.7%	9.6%	2
18:00-19:00	3	0	1	2	0	0	0	6	1	16.7%	3.8%	0
TOTAL	30	7	24	58	24	10	4	157	58	36.9%	100.0%	8

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicl	Percentage H. Vhi (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	2	0	7	9	2	1	0	21	10	47.6%	6.3%	2
8:00- 9:00	0	1	3	13	6	2	1	26	11	42.3%	7.8%	0
9:00-10:00	8	2	5	8	11	4	1	39	20	51.3%	11.7%	2
10:00-11:00	5	1	3	9	9	4	1	32	16	50.0%	9.6%	2
11:00-12:00	4	0	6	7	11	1	0	29	18	62.1%	8.7%	2
12:00-13:00	5	2	5	9	4	3	0	28	12	42.9%	8.4%	0
13:00-14:00	3	1	4	14	5	1	1	29	10	34.5%	8.7%	1
14:00-15:00	4	0	2	10	7	3	0	26	12	46.2%	7.8%	0
15:00-16:00	6	1	3	4	7	1	0	22	11	50.0%	6.6%	1
16:00-17:00	10	1	4	12	7	2	1	37	13	35.1%	11.1%	2
17:00-18:00	9	1	4	11	6	2	0	33	12	36.4%	9.9%	3
18:00-19:00	4	0	1	4	1	1	0	11	3	27.3%	3.3%	0
TOTAL	60	10	47	110	76	25	5	333	148	44.4%	100.0%	15

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)



RESULTS OF TRAFFIC VOLUME COUNTING SURVEY (24 Hour)

DATE: 1993.3.30

SURVEY POINT: 7

Direction (1)		To Managua							Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)						
7:00-8:00	22	2	5	34	17	5	1	86	27	31.4%	6.8%	2	
8:00-9:00	35	2	5	50	7	2	0	101	14	13.9%	8.0%	2	
9:00-10:00	30	2	5	44	18	0	0	99	23	23.2%	7.8%	2	
10:00-11:00	17	7	5	39	10	2	0	80	17	21.3%	6.3%	1	
11:00-12:00	22	0	6	31	12	0	0	71	18	25.4%	5.6%	1	
12:00-13:00	13	1	6	23	8	1	0	52	15	28.8%	4.1%	0	
13:00-14:00	13	2	5	25	15	3	1	64	23	35.9%	5.0%	2	
14:00-15:00	21	1	4	23	18	1	0	68	23	33.8%	5.4%	0	
15:00-16:00	15	1	5	22	12	1	0	56	18	32.1%	4.4%	3	
16:00-17:00	24	2	5	22	23	4	1	81	32	39.5%	6.4%	0	
17:00-18:00	26	2	6	27	24	8	0	93	38	40.9%	7.3%	2	
18:00-19:00	24	5	5	28	18	8	0	88	31	35.2%	6.9%	2	
SUB TOTAL (T)	262	27	62	368	182	35	3	939	279	29.7%	74.0%	17	
19:00-20:00	22	1	3	28	15	4	0	73	22	30.1%	5.8%	0	
20:00-21:00	7	3	0	20	16	11	0	57	27	47.4%	4.5%	1	
21:00-22:00	4	0	0	5	9	1	0	19	10	52.6%	1.5%	0	
22:00-23:00	2	0	0	4	5	6	0	17	11	64.7%	1.3%	0	
23:00-24:00	4	1	0	1	15	4	1	26	19	73.1%	2.0%	0	
0:00-1:00	2	0	0	2	9	1	0	14	10	71.4%	1.1%	0	
1:00-2:00	0	0	0	2	6	0	0	8	6	75.0%	0.6%	0	
2:00-3:00	0	0	0	1	2	0	0	3	2	66.7%	0.2%	0	
3:00-4:00	0	0	0	2	9	0	0	11	9	81.8%	0.9%	0	
4:00-5:00	2	0	0	6	5	0	0	13	5	38.5%	1.0%	0	
5:00-6:00	5	0	4	5	18	3	0	35	25	71.4%	2.8%	0	
6:00-7:00	2	1	6	14	29	1	1	54	36	66.7%	4.3%	0	
SUB TOTAL	50	6	13	90	138	31	2	330	182	55.2%	26.0%	1	
TOTAL (N)	312	33	75	458	320	66	5	1269	461	36.3%	100.0%	18	
(T)/(N)	1.19	1.22	1.21	1.24	1.76	1.89	1.67	1.35	1.65			1.06	

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

Direction (2)		From Managua							Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)						
7:00-8:00	21	0	6	17	6	0	0	50	12	24.0%	4.1%	3	
8:00-9:00	28	3	5	30	10	1	1	78	16	20.5%	6.4%	4	
9:00-10:00	17	3	5	25	15	3	0	68	23	33.8%	5.6%	0	
10:00-11:00	18	2	5	31	19	4	0	79	28	35.4%	6.5%	2	
11:00-12:00	28	1	5	18	22	9	1	84	36	42.9%	6.9%	2	
12:00-13:00	21	0	6	23	19	3	0	72	28	38.9%	5.9%	0	
13:00-14:00	9	3	6	29	23	1	0	71	30	42.3%	5.9%	2	
14:00-15:00	23	1	11	25	19	2	1	82	32	39.0%	6.8%	0	
15:00-16:00	21	5	4	46	16	3	0	95	23	24.2%	7.8%	1	
16:00-17:00	30	1	4	50	23	1	1	110	28	25.5%	9.1%	0	
17:00-18:00	30	4	5	53	25	1	0	118	31	26.3%	9.7%	1	
18:00-19:00	21	2	6	37	18	4	0	88	28	31.8%	7.3%	1	
SUB TOTAL (T)	267	25	68	384	215	32	4	995	315	31.7%	82.0%	16	
19:00-20:00	14	4	0	16	8	0	1	43	8	18.6%	3.5%	0	
20:00-21:00	5	0	0	10	8	2	0	25	10	40.0%	2.1%	0	
21:00-22:00	7	1	1	7	3	0	0	19	4	21.1%	1.6%	0	
22:00-23:00	0	0	0	0	0	1	0	1	1	100.0%	0.0%	1	
23:00-24:00	1	0	0	11	6	0	0	18	6	33.3%	1.5%	0	
0:00-1:00	1	0	0	0	1	0	0	2	1	50.0%	0.2%	0	
1:00-2:00	3	0	0	5	1	1	0	10	2	20.0%	0.8%	0	
2:00-3:00	1	0	0	0	1	0	0	2	1	50.0%	0.2%	0	
3:00-4:00	0	0	0	0	1	0	0	1	1	100.0%	0.1%	0	
4:00-5:00	0	0	1	4	0	1	0	6	2	33.3%	0.5%	1	
5:00-6:00	6	1	3	9	12	17	0	48	32	66.7%	4.0%	0	
6:00-7:00	12	1	3	17	8	2	0	43	13	30.2%	3.5%	0	
SUB TOTAL	50	7	8	79	49	24	1	218	81	37.2%	18.0%	2	
TOTAL (N)	317	32	76	463	264	56	5	1213	396	32.6%	100.0%	18	
(T)/(N)	1.19	1.28	1.12	1.21	1.23	1.75	1.25	1.22	1.26			1.13	

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

Direction	(1)+(2)		Total										
Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)	
7:00- 8:00	43	2	11	51	23	5	1	136	39	28.7%	5.5%	5	
8:00- 9:00	63	5	10	80	17	3	1	179	30	16.8%	7.2%	6	
9:00-10:00	47	5	10	69	33	3	0	167	46	27.5%	6.7%	2	
10:00-11:00	35	9	10	70	29	6	0	159	45	28.3%	6.4%	3	
11:00-12:00	50	1	11	49	34	9	1	155	54	34.8%	6.2%	3	
12:00-13:00	34	1	12	46	27	4	0	124	43	34.7%	5.0%	0	
13:00-14:00	22	5	11	54	38	4	1	135	53	39.3%	5.4%	4	
14:00-15:00	44	2	15	48	37	3	1	150	55	36.7%	6.0%	0	
15:00-16:00	36	6	9	68	28	4	0	151	41	27.2%	6.1%	4	
16:00-17:00	54	3	9	72	46	5	2	191	60	31.4%	7.7%	0	
17:00-18:00	56	6	11	80	49	9	0	211	69	32.7%	8.5%	3	
18:00-19:00	45	7	11	65	36	12	0	176	59	33.5%	7.1%	3	
SUB TOTAL (T)	529	52	130	752	397	67	7	1934	594	30.7%	77.9%	33	
19:00-20:00	36	5	3	44	23	4	1	116	30	25.9%	4.7%	0	
20:00-21:00	12	3	0	30	24	13	0	82	37	45.1%	3.3%	1	
21:00-22:00	11	1	1	12	12	1	0	38	14	36.8%	1.5%	0	
22:00-23:00	2	0	0	4	5	7	0	18	12	66.7%	0.7%	1	
23:00-24:00	5	1	0	12	21	4	1	44	25	56.8%	1.8%	0	
0:00-1:00	3	0	0	2	10	1	0	16	11	68.8%	0.6%	0	
1:00-2:00	3	0	0	7	7	1	0	18	8	44.4%	0.7%	0	
2:00-3:00	1	0	0	1	3	0	0	5	3	60.0%	0.2%	0	
3:00-4:00	0	0	0	2	10	0	0	12	10	83.3%	0.5%	0	
4:00-5:00	2	0	1	10	5	1	0	19	7	36.8%	0.8%	1	
5:00-6:00	11	1	7	14	30	20	0	83	57	68.7%	3.3%	0	
6:00-7:00	14	2	9	31	37	3	1	97	49	50.5%	3.9%	0	
SUB TOTAL	100	13	21	169	187	55	3	548	263	48.0%	22.1%	3	
TOTAL (N)	629	65	151	921	584	122	10	2482	857	34.5%	100.0%	36	
(T)/(N)	1.19	1.25	1.16	1.22	1.47	1.82	1.43	1.28	1.44			1.09	

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993. 3. 30

SURVEY POINT: 8

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	16	3	7	32	14	1	0	73	22	30.1%	10.8%	1
8:00- 9:00	22	0	4	27	18	3	0	74	25	33.8%	11.0%	2
9:00-10:00	18	0	6	19	16	1	0	60	23	38.3%	8.9%	1
10:00-11:00	15	1	4	20	9	0	0	49	13	26.5%	7.3%	0
11:00-12:00	10	1	6	17	18	2	0	54	26	48.1%	8.0%	0
12:00-13:00	4	1	7	18	10	1	0	41	18	43.9%	6.1%	2
13:00-14:00	9	0	5	16	13	2	1	46	20	43.5%	6.8%	0
14:00-15:00	17	1	3	14	22	2	0	59	27	45.8%	8.8%	1
15:00-16:00	10	1	2	18	10	0	0	41	12	29.3%	6.1%	0
16:00-17:00	9	0	5	18	19	2	0	53	26	49.1%	7.9%	2
17:00-18:00	13	3	4	22	22	4	0	68	30	44.1%	10.1%	0
18:00-19:00	11	2	1	21	19	1	0	55	21	38.2%	8.2%	0
TOTAL	154	13	54	242	190	19	1	673	263	39.1%	100.0%	9

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	7	0	7	30	13	4	0	61	24	39.3%	8.9%	0
8:00- 9:00	12	1	4	20	8	2	1	48	14	29.2%	7.0%	1
9:00-10:00	12	1	6	21	10	4	0	54	20	37.0%	7.9%	0
10:00-11:00	12	1	2	24	11	3	0	53	16	30.2%	7.7%	1
11:00-12:00	6	1	3	16	17	3	0	46	23	50.0%	6.7%	1
12:00-13:00	1	2	4	8	20	0	0	35	24	68.6%	5.1%	1
13:00-14:00	7	1	4	21	15	1	0	49	20	40.8%	7.2%	1
14:00-15:00	12	2	3	21	15	3	0	56	21	37.5%	8.2%	1
15:00-16:00	20	0	3	30	13	1	0	67	17	25.4%	9.8%	4
16:00-17:00	25	2	3	31	12	0	1	74	15	20.3%	10.8%	2
17:00-18:00	16	2	5	31	22	0	0	76	27	35.5%	11.1%	0
18:00-19:00	13	1	3	26	21	1	0	65	25	38.5%	9.5%	0
TOTAL	143	14	47	279	177	22	2	684	246	36.0%	100.0%	12

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	23	3	14	62	27	5	0	134	46	34.3%	9.9%	1
8:00- 9:00	34	1	8	47	26	5	1	122	39	32.0%	9.0%	3
9:00-10:00	30	1	12	40	26	5	0	114	43	37.7%	8.4%	1
10:00-11:00	27	2	6	44	20	3	0	102	29	28.4%	7.5%	1
11:00-12:00	16	2	9	33	35	5	0	100	49	49.0%	7.4%	1
12:00-13:00	5	3	11	26	30	1	0	76	42	55.3%	5.6%	3
13:00-14:00	16	1	9	37	28	3	1	95	40	42.1%	7.0%	1
14:00-15:00	29	3	6	35	37	5	0	115	48	41.7%	8.5%	2
15:00-16:00	30	1	5	48	23	1	0	108	29	26.9%	8.0%	4
16:00-17:00	34	2	8	49	31	2	1	127	41	32.3%	9.4%	4
17:00-18:00	29	5	9	53	44	4	0	144	57	39.6%	10.6%	0
18:00-19:00	24	3	4	47	40	2	0	120	46	38.3%	8.8%	0
TOTAL	297	27	101	521	367	41	3	1357	509	37.5%	100.0%	21

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 9

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	100	21	7	5	28	15	1	177	50	28.2%	7.4%	14
8:00- 9:00	120	17	9	6	21	9	2	184	39	21.2%	7.7%	20
9:00-10:00	125	24	7	8	21	8	2	195	36	18.5%	8.2%	14
10:00-11:00	112	21	5	14	32	11	3	198	48	24.2%	8.3%	12
11:00-12:00	98	6	7	22	31	21	7	192	59	30.7%	8.1%	13
12:00-13:00	91	19	11	11	22	10	1	165	43	26.1%	6.9%	12
13:00-14:00	108	12	8	8	25	12	0	173	45	26.0%	7.3%	12
14:00-15:00	162	9	7	11	29	14	0	232	50	21.6%	9.7%	4
15:00-16:00	153	10	11	10	26	15	1	226	52	23.0%	9.5%	9
16:00-17:00	156	16	8	10	31	11	1	233	50	21.5%	9.8%	15
17:00-18:00	173	15	6	9	28	6	0	237	40	16.9%	10.0%	28
18:00-19:00	115	16	6	18	12	2	0	169	20	11.8%	7.1%	14
TOTAL	1513	186	92	132	306	134	18	2381	532	22.3%	100.0%	167

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	108	15	13	25	20	10	2	193	43	22.3%	9.3%	28
8:00- 9:00	106	16	12	27	22	6	3	192	40	20.8%	9.2%	13
9:00-10:00	73	46	4	29	10	11	0	173	25	14.5%	8.3%	15
10:00-11:00	65	7	6	31	13	10	0	132	29	22.0%	6.3%	9
11:00-12:00	75	18	10	31	30	9	0	173	49	28.3%	8.3%	11
12:00-13:00	73	22	7	27	27	13	2	171	47	27.5%	8.2%	8
13:00-14:00	77	18	5	26	17	18	1	162	40	24.7%	7.8%	11
14:00-15:00	90	18	4	25	26	16	2	181	46	25.4%	8.7%	10
15:00-16:00	80	22	6	27	29	10	0	174	45	25.9%	8.3%	5
16:00-17:00	91	7	8	24	24	8	2	164	40	24.4%	7.9%	15
17:00-18:00	95	36	8	23	17	9	0	188	34	18.1%	9.0%	18
18:00-19:00	89	25	3	25	22	17	0	181	42	23.2%	8.7%	12
TOTAL	1022	250	86	320	257	137	12	2084	480	23.0%	100.0%	155

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	208	36	20	30	48	25	3	370	93	25.1%	8.3%	42
8:00- 9:00	226	33	21	33	43	15	5	376	79	21.0%	8.4%	33
9:00-10:00	198	70	11	37	31	19	2	368	61	16.6%	8.2%	29
10:00-11:00	177	28	11	45	45	21	3	330	77	23.3%	7.4%	21
11:00-12:00	173	24	17	53	61	30	7	365	108	29.6%	8.2%	24
12:00-13:00	164	41	18	38	49	23	3	336	90	26.8%	7.5%	20
13:00-14:00	185	30	13	34	42	30	1	335	85	25.4%	7.5%	23
14:00-15:00	252	27	11	36	55	30	2	413	96	23.2%	9.2%	14
15:00-16:00	233	32	17	37	55	25	1	400	97	24.3%	9.0%	14
16:00-17:00	247	23	16	34	55	19	3	397	90	22.7%	8.9%	30
17:00-18:00	268	51	14	32	45	15	0	425	74	17.4%	9.5%	46
18:00-19:00	204	41	9	43	34	19	0	350	62	17.7%	7.8%	26
TOTAL	2535	436	178	452	563	271	30	4465	1012	22.7%	100.0%	322

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993. 3. 31

SURVEY POINT: 10

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Lght-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	352	19	10	100	30	3	0	514	43	8.4%	13.4%	30
8:00- 9:00	327	148	9	34	15	2	1	536	26	4.9%	14.0%	26
9:00-10:00	178	86	9	32	19	3	0	327	31	9.5%	8.5%	12
10:00-11:00	158	7	6	72	21	0	0	264	27	10.2%	6.9%	19
11:00-12:00	126	60	10	31	22	5	0	254	37	14.6%	6.6%	12
12:00-13:00	115	53	7	29	18	3	0	225	28	12.4%	5.9%	1
13:00-14:00	214	11	13	74	15	7	0	334	35	10.5%	8.7%	8
14:00-15:00	238	12	6	87	12	3	0	358	21	5.9%	9.3%	13
15:00-16:00	172	16	5	72	20	4	0	289	29	10.0%	7.5%	11
16:00-17:00	131	19	6	77	13	0	0	246	19	7.7%	6.4%	11
17:00-18:00	133	69	8	46	15	2	0	273	25	9.2%	7.1%	16
18:00-19:00	115	50	4	32	12	2	0	215	18	8.4%	5.6%	7
TOTAL	2259	550	93	686	212	34	1	3835	339	8.8%	100.0%	166

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Lght-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	204	62	12	47	18	0	0	343	30	8.7%	9.1%	11
8:00- 9:00	132	14	5	68	16	3	1	239	24	10.0%	6.3%	12
9:00-10:00	114	7	4	69	18	4	0	216	26	12.0%	5.7%	8
10:00-11:00	112	9	4	80	30	3	1	259	37	15.5%	6.3%	12
11:00-12:00	149	7	7	82	13	1	0	259	21	8.1%	6.9%	5
12:00-13:00	259	12	12	99	33	3	0	418	48	11.5%	11.1%	14
13:00-14:00	238	17	6	87	19	2	1	370	27	7.3%	9.8%	8
14:00-15:00	132	47	11	54	16	2	2	264	29	11.0%	7.0%	9
15:00-16:00	129	51	10	29	11	2	0	232	23	9.9%	6.2%	8
16:00-17:00	189	7	4	70	23	5	1	299	32	10.7%	7.9%	10
17:00-18:00	241	11	10	115	22	8	0	407	40	9.8%	10.8%	29
18:00-19:00	330	13	7	112	15	3	0	480	25	5.2%	12.7%	17
TOTAL	2229	257	92	912	234	36	6	3766	362	9.6%	100.0%	143

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Lght-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	556	81	22	147	48	3	0	857	73	8.5%	11.3%	41
8:00- 9:00	459	162	14	102	31	5	2	775	50	6.5%	10.2%	38
9:00-10:00	292	93	13	101	37	7	0	543	57	10.5%	7.1%	20
10:00-11:00	270	16	10	152	51	3	1	503	64	12.7%	6.6%	31
11:00-12:00	275	67	17	113	35	6	0	513	58	11.3%	6.7%	17
12:00-13:00	374	65	19	128	51	6	0	643	76	11.8%	8.5%	15
13:00-14:00	452	28	19	161	34	9	1	704	62	8.8%	9.3%	16
14:00-15:00	370	59	17	141	28	5	2	622	50	8.0%	8.2%	22
15:00-16:00	301	67	15	101	31	6	0	521	52	10.0%	6.9%	19
16:00-17:00	320	26	10	147	36	5	1	545	51	9.4%	7.2%	21
17:00-18:00	374	80	18	161	37	10	0	680	65	9.6%	8.9%	45
18:00-19:00	445	63	11	144	27	5	0	695	43	6.2%	9.1%	24
TOTAL	4488	807	185	1598	446	70	7	7601	701	9.2%	100.0%	309

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993. 3. 31

SURVEY POINT: 11

Direction (1)		To Managua										
Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	532	39	37	248	19	6	15	896	62	6.9%	8.7%	51
8:00- 9:00	543	19	33	226	20	2	25	868	55	6.3%	8.4%	51
9:00-10:00	471	20	28	228	40	6	15	808	74	9.2%	7.8%	43
10:00-11:00	381	26	25	186	30	4	4	656	59	9.0%	6.4%	30
11:00-12:00	318	28	31	193	55	5	3	633	91	14.4%	6.1%	24
12:00-13:00	394	23	31	198	25	4	3	678	60	8.8%	6.6%	30
13:00-14:00	413	32	30	154	31	11	4	675	72	10.7%	6.5%	24
14:00-15:00	423	37	28	202	41	8	2	741	77	10.4%	7.2%	26
15:00-16:00	380	25	31	185	26	2	2	651	59	9.1%	6.3%	19
16:00-17:00	360	28	26	180	47	9	9	659	82	12.4%	6.4%	32
17:00-18:00	374	28	35	188	18	13	8	664	66	9.9%	6.4%	31
18:00-19:00	226	11	18	138	17	4	7	421	39	9.3%	4.1%	21
SUB TOTAL (T)	4815	316	353	2326	369	74	97	8350	796	9.5%	80.9%	382
19:00-20:00	222	20	12	107	15	11	7	394	38	9.6%	3.8%	11
20:00-21:00	246	10	6	91	7	8	2	370	21	5.7%	3.6%	21
21:00-22:00	182	12	2	83	16	8	1	304	26	8.6%	2.9%	14
22:00-23:00	133	5	3	37	5	7	1	191	15	7.9%	1.9%	6
23:00-24:00	76	3	0	29	3	1	0	112	4	3.6%	1.1%	1
0:00-1:00	35	3	2	12	3	2	0	57	7	12.3%	0.6%	1
1:00-2:00	14	1	0	4	2	3	0	24	5	20.8%	0.2%	4
2:00-3:00	14	0	0	5	2	0	0	21	2	9.5%	0.2%	0
3:00-4:00	10	4	0	10	12	0	0	36	12	33.3%	0.3%	0
4:00-5:00	15	1	3	28	16	0	0	63	19	30.2%	0.6%	0
5:00-6:00	32	4	31	52	27	1	1	148	59	39.9%	1.4%	4
6:00-7:00	90	15	48	76	15	3	6	253	66	26.1%	2.5%	14
SUB TOTAL	1069	78	107	534	123	44	18	1973	274	13.9%	19.1%	76
TOTAL (N)	5884	394	460	2860	492	118	115	10323	1070	10.4%	100.0%	458
(T)/(N)	1.22	1.25	1.3	1.23	1.33	1.59	1.19	1.24	1.34			1.2

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

Direction (2)		From Managua										
Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	410	37	40	209	18	5	8	727	63	8.7%	6.9%	28
8:00- 9:00	343	33	28	181	35	5	4	629	68	10.8%	6.0%	35
9:00-10:00	246	17	27	187	39	5	2	523	71	13.6%	5.0%	32
10:00-11:00	326	21	31	171	37	5	3	594	73	12.3%	5.6%	26
11:00-12:00	336	27	29	170	54	4	4	624	87	13.9%	5.9%	29
12:00-13:00	458	36	26	214	26	5	4	769	57	7.4%	7.3%	33
13:00-14:00	533	38	36	214	38	16	4	879	90	10.2%	8.3%	24
14:00-15:00	368	28	34	189	40	7	5	671	81	12.1%	6.4%	25
15:00-16:00	343	25	31	202	48	1	1	651	80	12.3%	6.2%	25
16:00-17:00	380	31	31	208	31	7	9	697	69	9.9%	6.6%	35
17:00-18:00	433	40	31	270	29	5	14	822	65	7.9%	7.8%	39
18:00-19:00	519	25	36	241	24	5	12	862	65	7.5%	8.2%	47
SUB TOTAL (T)	4695	358	380	2456	419	70	70	8448	869	10.3%	80.8%	378
19:00-20:00	357	16	23	190	14	4	6	610	41	6.7%	5.8%	30
20:00-21:00	257	14	22	115	8	3	2	421	33	7.8%	4.0%	6
21:00-22:00	191	13	13	95	10	6	2	330	29	8.8%	3.1%	14
22:00-23:00	142	11	7	56	5	3	1	225	15	6.7%	2.1%	7
23:00-24:00	77	2	0	17	3	0	0	99	3	3.0%	0.9%	2
0:00-1:00	59	1	1	13	3	1	0	78	5	6.4%	0.7%	0
1:00-2:00	21	0	0	10	0	1	0	32	1	3.1%	0.3%	0
2:00-3:00	42	6	0	9	2	0	0	59	2	3.4%	0.6%	2
3:00-4:00	8	3	0	3	1	0	0	15	1	6.7%	0.1%	1
4:00-5:00	5	0	0	3	1	1	0	10	2	20.0%	0.1%	2
5:00-6:00	23	6	12	24	9	1	0	75	22	29.3%	0.7%	1
6:00-7:00	67	10	23	45	10	0	2	157	33	21.0%	1.5%	9
SUB TOTAL	1249	82	101	580	66	20	13	2111	187	8.9%	19.2%	74
TOTAL (N)	5944	440	481	3036	485	90	83	10559	1056	10.0%	100.0%	452
(T)/(N)	1.27	1.23	1.27	1.24	1.16	1.29	1.19	1.25	1.22			1.2

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

Direction	(1) + (2)		Total								Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)		
7:00- 8:00	942	76	77	457	37	11	23	1623	125	7.7%	7.8%	79		
8:00- 9:00	886	52	61	407	55	7	29	1497	123	8.2%	7.2%	86		
9:00-10:00	717	37	55	415	79	11	17	1331	145	10.9%	6.4%	75		
10:00-11:00	707	47	56	357	67	9	7	1250	132	10.6%	6.0%	56		
11:00-12:00	654	55	60	363	109	9	7	1257	178	14.2%	6.0%	53		
12:00-13:00	852	59	57	412	51	9	7	1447	117	8.1%	6.9%	63		
13:00-14:00	946	70	66	368	69	27	8	1554	162	10.4%	7.4%	48		
14:00-15:00	791	65	62	391	81	15	7	1412	158	11.2%	6.8%	51		
15:00-16:00	723	50	62	387	74	3	3	1302	139	10.7%	6.2%	44		
16:00-17:00	740	59	57	388	78	16	18	1356	151	11.1%	6.5%	67		
17:00-18:00	807	68	66	458	47	18	22	1486	131	8.8%	7.1%	70		
18:00-19:00	745	36	54	379	41	9	19	1283	104	8.1%	6.1%	68		
SUB TOTAL (T)	9510	674	733	4782	788	144	167	16798	1665	9.9%	80.4%	760		
19:00-20:00	579	36	35	297	29	15	13	1004	79	7.9%	4.8%	41		
20:00-21:00	503	24	28	206	15	11	4	791	54	6.8%	3.8%	27		
21:00-22:00	373	25	15	178	26	14	3	634	55	8.7%	3.0%	28		
22:00-23:00	275	16	10	93	10	10	2	416	30	7.2%	2.0%	13		
23:00-24:00	153	5	0	46	6	1	0	211	7	3.3%	1.0%	3		
0:00-1:00	94	4	3	25	6	3	0	135	12	8.9%	0.6%	1		
1:00-2:00	35	1	0	14	2	4	0	56	6	10.7%	0.3%	4		
2:00-3:00	56	6	0	14	4	0	0	80	4	5.0%	0.4%	2		
3:00-4:00	18	7	0	13	13	0	0	51	13	25.5%	0.2%	1		
4:00-5:00	20	1	3	31	17	1	0	73	21	28.8%	0.3%	2		
5:00-6:00	55	10	43	76	36	2	1	223	81	36.3%	1.1%	5		
6:00-7:00	157	25	71	121	25	3	8	410	99	24.1%	2.0%	23		
SUB TOTAL	2318	160	208	1114	189	64	31	4084	461	11.3%	19.6%	150		
TOTAL (N)	11828	834	941	5896	977	208	198	20882	2126	10.2%	100.0%	910		
(T)/(N)	1.24	1.24	1.28	1.23	1.24	1.44	1.19	1.25	1.28			1.2		

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 12

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	107	83	32	67	58	7	1	355	97	27.3%	8.5%	49
8:00- 9:00	134	37	30	142	28	4	1	376	62	16.5%	9.0%	48
9:00-10:00	119	51	28	118	47	3	1	367	78	21.3%	8.8%	44
10:00-11:00	138	25	24	139	43	6	1	376	73	19.4%	9.0%	31
11:00-12:00	126	17	29	124	28	13	1	338	70	20.7%	8.1%	14
12:00-13:00	104	13	26	107	28	15	0	293	69	23.5%	7.0%	8
13:00-14:00	93	31	30	80	33	3	0	270	66	24.4%	6.5%	20
14:00-15:00	101	32	26	109	33	10	2	313	69	22.0%	7.5%	26
15:00-16:00	121	22	21	113	50	15	0	342	86	25.1%	8.2%	29
16:00-17:00	148	17	34	134	49	11	1	394	94	23.9%	9.4%	29
17:00-18:00	147	27	36	144	46	11	0	411	93	22.6%	9.6%	25
18:00-19:00	120	25	27	110	42	21	0	345	90	26.1%	8.3%	10
TOTAL	1458	380	343	1387	485	119	8	4180	947	22.7%	100.0%	333

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	114	48	37	72	20	10	2	303	67	22.1%	6.7%	28
8:00- 9:00	188	17	26	148	40	5	0	424	71	16.7%	9.3%	25
9:00-10:00	129	19	25	128	44	15	3	363	84	23.1%	8.0%	19
10:00-11:00	155	29	32	113	45	19	2	395	96	24.3%	8.7%	35
11:00-12:00	125	27	23	125	45	17	2	364	85	23.4%	8.0%	29
12:00-13:00	118	22	31	102	50	16	0	339	97	28.6%	7.5%	19
13:00-14:00	97	22	32	139	55	10	0	355	97	27.3%	7.8%	16
14:00-15:00	172	14	29	137	40	14	1	407	83	20.4%	9.0%	19
15:00-16:00	117	15	25	130	55	19	0	361	99	27.4%	8.0%	11
16:00-17:00	143	41	30	164	68	6	0	452	104	23.0%	10.0%	44
17:00-18:00	134	33	28	125	48	10	1	379	86	22.7%	8.4%	51
18:00-19:00	140	29	30	131	45	18	1	394	93	23.6%	8.7%	60
TOTAL	1632	316	348	1514	555	159	12	4536	1062	23.4%	100.0%	356

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	221	131	69	139	78	17	3	658	164	24.9%	7.5%	77
8:00- 9:00	322	54	56	290	68	9	1	800	133	16.6%	9.2%	73
9:00-10:00	248	70	53	246	91	18	4	730	162	22.2%	8.4%	63
10:00-11:00	293	54	56	252	88	25	3	771	169	21.9%	8.8%	66
11:00-12:00	251	44	52	249	73	30	3	702	155	22.1%	8.1%	43
12:00-13:00	222	35	57	209	78	31	0	632	166	26.3%	7.3%	27
13:00-14:00	190	53	62	219	88	13	0	625	163	26.1%	7.2%	36
14:00-15:00	273	46	55	246	73	24	3	720	152	21.1%	8.3%	45
15:00-16:00	238	37	46	243	105	34	0	703	185	26.3%	8.1%	40
16:00-17:00	291	58	64	298	117	17	1	846	198	23.4%	9.7%	73
17:00-18:00	281	60	64	269	94	21	1	790	179	22.7%	9.1%	76
18:00-19:00	260	54	57	241	87	39	1	739	183	24.8%	8.5%	70
TOTAL	3090	696	691	2901	1040	278	20	8716	2009	23.0%	100.0%	689

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)



RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 13

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	19	13	24	21	11	2	2	92	37	40.2%	10.0%	17
8:00- 9:00	26	4	25	28	14	2	1	100	41	41.0%	10.8%	7
9:00-10:00	15	4	22	17	17	2	2	79	41	51.9%	8.5%	4
10:00-11:00	15	5	22	22	8	3	0	75	33	44.0%	8.1%	3
11:00-12:00	15	1	22	22	7	2	0	69	31	44.9%	7.5%	3
12:00-13:00	7	6	23	17	10	1	1	65	34	52.3%	7.0%	8
13:00-14:00	12	5	25	13	14	0	2	71	39	54.9%	7.7%	2
14:00-15:00	9	6	16	16	11	2	0	60	29	48.3%	6.5%	0
15:00-16:00	10	0	22	19	5	8	0	64	35	54.7%	6.9%	5
16:00-17:00	15	4	22	22	9	1	0	73	32	43.8%	7.9%	1
17:00-18:00	14	6	24	19	17	6	1	87	47	54.0%	9.4%	2
18:00-19:00	15	11	22	21	10	10	0	89	42	47.2%	9.6%	10
TOTAL	172	65	269	237	133	39	9	924	441	47.7%	100.0%	62

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	10	4	17	13	6	10	2	62	33	53.2%	7.4%	10
8:00- 9:00	17	7	14	23	9	2	2	74	25	33.8%	8.8%	1
9:00-10:00	12	3	22	19	12	1	0	69	35	50.7%	8.2%	2
10:00-11:00	20	1	19	10	12	7	0	69	38	55.1%	8.2%	3
11:00-12:00	14	3	17	18	7	4	2	65	28	43.1%	7.8%	4
12:00-13:00	19	3	16	14	4	1	0	57	21	36.8%	6.8%	7
13:00-14:00	10	1	18	15	6	1	1	52	25	48.1%	6.2%	3
14:00-15:00	6	4	15	23	27	8	1	84	50	59.5%	10.0%	3
15:00-16:00	13	1	17	18	15	5	0	69	37	53.6%	8.2%	0
16:00-17:00	7	3	16	23	15	1	0	65	32	49.2%	7.8%	8
17:00-18:00	23	0	14	36	15	3	0	91	32	35.2%	10.9%	5
18:00-19:00	21	2	17	21	14	4	1	80	35	43.8%	9.6%	14
TOTAL	172	32	202	233	142	47	9	837	391	46.7%	100.0%	60

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	29	17	41	34	17	12	4	154	70	45.5%	8.7%	27
8:00- 9:00	43	11	39	51	23	4	3	174	66	37.9%	9.9%	8
9:00-10:00	27	7	44	36	29	3	2	148	76	51.4%	8.4%	6
10:00-11:00	35	6	41	32	20	10	0	144	71	49.3%	8.2%	6
11:00-12:00	29	4	39	40	14	6	2	134	59	44.0%	7.6%	7
12:00-13:00	26	9	39	31	14	2	1	122	55	45.1%	6.9%	15
13:00-14:00	22	6	43	28	20	1	3	123	64	52.0%	7.0%	5
14:00-15:00	15	10	31	39	38	10	1	144	79	54.9%	8.2%	3
15:00-16:00	23	1	39	37	20	13	0	133	72	54.1%	7.6%	5
16:00-17:00	22	7	38	45	24	2	0	138	64	46.4%	7.8%	9
17:00-18:00	37	6	38	55	32	9	1	178	79	44.4%	10.1%	7
18:00-19:00	36	13	39	42	24	14	1	169	77	45.6%	9.6%	24
TOTAL	344	97	471	470	275	86	18	1761	832	47.2%	100.0%	122

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993. 3. 31

SURVEY POINT: 14

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	6	3	1	7	7	0	0	24	8	33.3%	8.0%	4
8:00- 9:00	4	1	2	5	14	0	0	26	16	61.5%	8.6%	2
9:00-10:00	10	0	3	7	11	1	0	32	15	46.9%	10.6%	1
10:00-11:00	7	1	1	5	4	1	0	19	6	31.6%	6.3%	0
11:00-12:00	4	0	1	10	10	1	0	26	12	46.2%	8.6%	2
12:00-13:00	1	0	1	10	6	1	0	19	8	42.1%	6.3%	2
13:00-14:00	3	1	1	14	5	2	0	26	8	30.8%	8.6%	1
14:00-15:00	3	0	3	10	5	1	0	22	9	40.9%	7.3%	1
15:00-16:00	4	1	1	9	8	0	0	23	9	39.1%	7.6%	2
16:00-17:00	7	1	1	12	2	1	0	24	4	16.7%	8.0%	0
17:00-18:00	8	4	17	11	0	0	0	40	17	42.5%	13.3%	2
18:00-19:00	5	2	12	1	0	0	0	20	12	60.0%	6.6%	3
TOTAL	62	14	44	101	72	8	0	301	124	41.2%	100.0%	20

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	8	1	2	13	16	1	0	41	19	46.3%	10.4%	3
8:00- 9:00	5	1	1	12	7	0	0	26	8	30.8%	6.6%	1
9:00-10:00	3	0	0	7	4	1	0	15	5	33.3%	3.8%	0
10:00-11:00	8	3	1	9	7	5	0	33	13	39.4%	8.3%	1
11:00-12:00	7	2	1	8	16	1	0	35	18	51.4%	8.8%	0
12:00-13:00	7	0	1	14	15	3	0	40	19	47.5%	10.1%	3
13:00-14:00	12	1	3	6	16	0	0	38	19	50.0%	9.6%	1
14:00-15:00	8	1	1	13	17	1	0	41	19	46.3%	10.4%	1
15:00-16:00	9	1	2	8	8	1	0	29	11	37.9%	7.3%	1
16:00-17:00	5	0	2	6	11	1	0	25	14	56.0%	6.3%	3
17:00-18:00	10	1	1	14	17	4	0	47	22	46.8%	11.9%	4
18:00-19:00	9	1	0	9	6	1	0	26	7	26.9%	6.6%	0
TOTAL	91	12	15	119	140	19	0	396	174	43.9%	100.0%	18

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	14	4	3	20	23	1	0	65	27	41.5%	9.3%	7
8:00- 9:00	9	2	3	17	21	0	0	52	24	46.2%	7.5%	3
9:00-10:00	13	0	3	14	15	2	0	47	20	42.6%	6.7%	1
10:00-11:00	15	4	2	14	11	6	0	52	19	36.5%	7.5%	1
11:00-12:00	11	2	2	18	26	2	0	61	30	49.2%	8.8%	2
12:00-13:00	8	0	2	24	21	4	0	59	27	45.8%	8.5%	5
13:00-14:00	15	2	4	20	21	2	0	64	27	42.2%	9.2%	2
14:00-15:00	11	1	4	23	22	2	0	63	28	44.4%	9.0%	2
15:00-16:00	13	2	3	17	16	1	0	52	20	38.5%	7.5%	3
16:00-17:00	12	1	3	18	13	2	0	49	18	36.7%	7.0%	3
17:00-18:00	18	5	18	25	17	4	0	87	39	44.8%	12.5%	6
18:00-19:00	14	3	12	10	6	1	0	46	19	41.3%	6.6%	3
TOTAL	153	26	59	220	212	27	0	697	298	42.8%	100.0%	38

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 15

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	84	10	8	56	8	0	0	166	16	9.6%	10.6%	15
8:00- 9:00	64	21	8	53	7	11	0	164	26	15.9%	10.5%	11
9:00-10:00	46	9	8	64	15	5	1	148	28	18.9%	9.5%	8
10:00-11:00	42	6	6	60	10	1	0	125	17	13.6%	8.0%	8
11:00-12:00	43	6	6	47	5	4	1	112	15	13.4%	7.2%	15
12:00-13:00	52	5	8	27	5	15	0	112	28	25.0%	7.2%	3
13:00-14:00	52	4	8	41	1	10	0	116	19	16.4%	7.4%	7
14:00-15:00	47	3	7	44	5	8	0	114	20	17.5%	7.3%	8
15:00-16:00	75	5	5	55	6	18	0	164	29	17.7%	10.5%	7
16:00-17:00	67	8	6	41	7	12	0	141	25	17.7%	9.0%	11
17:00-18:00	43	17	10	44	15	8	0	137	33	24.1%	8.8%	16
18:00-19:00	35	4	3	19	2	0	1	64	5	7.8%	4.1%	3
TOTAL	650	98	83	551	86	92	3	1563	261	16.7%	100.0%	112

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	32	3	6	32	5	9	0	87	20	23.0%	6.6%	10
8:00- 9:00	49	4	8	39	4	12	0	116	24	20.7%	8.8%	10
9:00-10:00	46	2	8	44	3	7	0	110	18	16.4%	8.3%	4
10:00-11:00	46	3	8	35	4	9	2	107	21	19.6%	8.1%	9
11:00-12:00	43	2	7	35	3	8	0	98	18	18.4%	7.4%	10
12:00-13:00	45	2	6	41	7	7	0	108	20	18.5%	8.2%	4
13:00-14:00	40	2	8	27	5	5	0	87	18	20.7%	6.6%	7
14:00-15:00	59	4	6	40	7	11	0	127	24	18.9%	9.6%	11
15:00-16:00	42	7	6	41	7	12	1	116	25	21.6%	8.8%	11
16:00-17:00	54	9	6	41	2	9	0	121	17	14.0%	9.2%	8
17:00-18:00	59	4	7	52	5	15	0	142	27	19.0%	10.8%	8
18:00-19:00	55	5	4	22	3	11	0	100	18	18.0%	7.6%	7
TOTAL	570	47	80	449	55	115	3	1319	250	19.0%	100.0%	99

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	116	13	14	88	13	9	0	253	36	14.2%	8.8%	25
8:00- 9:00	113	25	16	92	11	23	0	280	50	17.9%	9.7%	21
9:00-10:00	92	11	16	108	18	12	1	258	46	17.8%	9.0%	12
10:00-11:00	88	9	14	95	14	10	2	232	38	16.4%	8.0%	17
11:00-12:00	86	8	13	82	8	12	1	210	33	15.7%	7.3%	25
12:00-13:00	97	7	14	68	12	22	0	220	48	21.8%	7.6%	7
13:00-14:00	92	6	16	68	6	15	0	203	37	18.2%	7.0%	14
14:00-15:00	106	7	13	84	12	19	0	241	44	18.3%	8.4%	19
15:00-16:00	117	12	11	96	13	30	1	280	54	19.3%	9.7%	18
16:00-17:00	121	17	12	82	9	21	0	262	42	16.0%	9.1%	19
17:00-18:00	102	21	17	96	20	23	0	279	60	21.5%	9.7%	24
18:00-19:00	90	9	7	41	5	11	1	164	23	14.0%	5.7%	10
TOTAL	1220	145	163	1000	141	207	6	2882	511	17.7%	100.0%	211

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 16

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	11	2	4	17	7	2	1	44	13	29.5%	7.2%	8
8:00- 9:00	18	1	2	19	6	1	0	47	9	19.1%	7.6%	8
9:00-10:00	16	1	1	13	10	1	0	42	12	28.6%	6.8%	2
10:00-11:00	12	1	2	13	12	1	0	41	15	36.6%	6.7%	4
11:00-12:00	13	0	3	13	10	2	0	41	15	36.6%	6.7%	5
12:00-13:00	11	1	3	15	11	1	0	42	15	35.7%	6.8%	3
13:00-14:00	19	0	2	15	8	11	0	55	21	38.2%	8.9%	1
14:00-15:00	10	1	5	14	4	3	1	38	12	31.6%	6.2%	1
15:00-16:00	19	2	1	22	5	10	1	60	16	26.7%	9.8%	0
16:00-17:00	11	2	4	7	22	13	0	59	39	66.1%	9.6%	2
17:00-18:00	24	1	2	15	8	10	0	60	20	33.3%	9.8%	0
18:00-19:00	24	5	8	29	15	5	0	86	28	32.6%	14.0%	3
TOTAL	188	17	37	192	118	60	3	615	215	35.0%	100.0%	37

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	16	6	5	9	9	1	0	46	15	32.6%	7.6%	7
8:00- 9:00	33	1	2	17	12	9	0	74	23	31.1%	12.3%	1
9:00-10:00	14	3	3	33	7	1	0	61	11	18.0%	10.1%	3
10:00-11:00	12	2	6	13	10	4	0	47	20	42.6%	7.8%	2
11:00-12:00	13	2	2	12	8	7	0	44	17	38.6%	7.3%	2
12:00-13:00	14	0	2	15	10	8	0	49	20	40.8%	8.1%	3
13:00-14:00	20	0	1	18	16	5	0	60	22	36.7%	9.9%	1
14:00-15:00	10	0	1	10	13	3	0	37	17	45.9%	6.1%	0
15:00-16:00	13	0	1	11	18	5	0	48	24	50.0%	7.9%	3
16:00-17:00	16	2	2	18	8	4	0	50	14	28.0%	8.3%	3
17:00-18:00	14	2	4	12	11	3	0	46	18	39.1%	7.6%	1
18:00-19:00	13	0	3	16	7	3	0	42	13	31.0%	7.0%	10
TOTAL	188	18	32	184	129	53	0	604	214	35.4%	100.0%	36

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	27	8	9	26	16	3	1	90	28	31.1%	7.4%	15
8:00- 9:00	51	2	4	36	18	10	0	121	32	26.4%	9.9%	9
9:00-10:00	30	4	4	46	17	2	0	103	23	22.3%	8.4%	5
10:00-11:00	24	3	8	26	22	5	0	88	35	39.8%	7.2%	6
11:00-12:00	26	2	5	25	18	9	0	85	32	37.6%	7.0%	7
12:00-13:00	25	1	5	30	21	9	0	91	35	38.5%	7.5%	6
13:00-14:00	39	0	3	33	24	16	0	115	43	37.4%	9.4%	2
14:00-15:00	20	1	6	24	17	6	1	75	29	38.7%	6.2%	1
15:00-16:00	32	2	2	33	23	15	1	108	40	37.0%	8.9%	3
16:00-17:00	27	4	6	25	30	17	0	109	53	48.6%	8.9%	5
17:00-18:00	38	3	6	27	19	13	0	106	38	35.8%	8.7%	1
18:00-19:00	37	5	11	45	22	8	0	128	41	32.0%	10.5%	13
TOTAL	376	35	69	376	247	113	3	1219	429	35.2%	100.0%	73

Note: H. Vehic. = (H. bus) + (Light-t) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 17

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	19	7	6	25	14	5	1	77	25	32.5%	7.4%	15
8:00- 9:00	23	2	6	25	11	3	1	71	20	28.2%	6.8%	2
9:00-10:00	21	2	8	30	17	2	1	81	27	33.3%	7.8%	5
10:00-11:00	28	6	8	33	6	5	0	86	19	22.1%	8.2%	6
11:00-12:00	18	11	6	27	15	4	0	81	25	30.9%	7.8%	1
12:00-13:00	11	6	6	28	17	7	1	76	30	39.5%	7.3%	5
13:00-14:00	30	3	8	23	10	10	1	85	28	32.9%	8.1%	6
14:00-15:00	22	3	7	21	10	9	0	72	26	36.1%	6.9%	5
15:00-16:00	26	2	8	38	17	7	0	98	32	32.7%	9.4%	5
16:00-17:00	26	3	8	40	16	13	3	109	37	33.9%	10.4%	2
17:00-18:00	25	10	9	36	14	1	0	95	24	25.3%	9.1%	9
18:00-19:00	30	11	7	37	22	7	0	114	36	31.6%	10.9%	2
TOTAL	279	66	87	363	169	73	8	1045	329	31.5%	100.0%	63

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	20	3	10	22	5	8	0	68	23	33.8%	6.7%	10
8:00- 9:00	30	8	9	28	19	6	1	101	34	33.7%	9.9%	7
9:00-10:00	22	4	8	43	11	6	1	95	25	26.3%	9.4%	6
10:00-11:00	29	3	6	33	12	2	1	86	20	23.3%	8.5%	3
11:00-12:00	26	2	7	32	18	5	1	91	30	33.0%	9.0%	8
12:00-13:00	19	3	5	28	14	5	2	76	24	31.6%	7.5%	2
13:00-14:00	18	5	11	20	17	6	2	79	34	43.0%	7.8%	2
14:00-15:00	21	5	4	21	19	5	1	76	28	36.8%	7.5%	5
15:00-16:00	27	10	6	30	21	11	0	105	38	36.2%	10.3%	3
16:00-17:00	16	2	5	38	12	2	2	77	19	24.7%	7.6%	2
17:00-18:00	27	1	6	26	5	19	0	84	30	35.7%	8.3%	11
18:00-19:00	32	3	5	25	8	5	0	78	18	23.1%	7.7%	13
TOTAL	287	49	82	346	161	80	11	1016	323	31.8%	100.0%	72

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	39	10	16	47	19	13	1	145	48	33.1%	7.0%	25
8:00- 9:00	53	10	15	53	30	9	2	172	54	31.4%	8.3%	9
9:00-10:00	43	6	16	73	28	8	2	176	52	29.5%	8.5%	11
10:00-11:00	57	9	14	66	18	7	1	172	39	22.7%	8.3%	9
11:00-12:00	44	13	13	59	33	9	1	172	55	32.0%	8.3%	9
12:00-13:00	30	9	11	56	31	12	3	152	54	35.5%	7.4%	7
13:00-14:00	48	8	19	43	27	16	3	164	62	37.8%	8.0%	8
14:00-15:00	43	8	11	42	29	14	1	148	54	36.5%	7.2%	10
15:00-16:00	53	12	14	68	38	18	0	203	70	34.5%	9.8%	8
16:00-17:00	42	5	13	78	28	15	5	186	56	30.1%	9.0%	4
17:00-18:00	52	11	15	62	19	20	0	179	54	30.2%	8.7%	20
18:00-19:00	62	14	12	62	30	12	0	192	54	28.1%	9.3%	15
TOTAL	566	115	169	709	330	153	19	2061	652	31.6%	100.0%	135

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993. 3. 31

SURVEY POINT: 18

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	40	2	2	1	6	0	0	51	8	15.7%	6.8%	9
8:00- 9:00	29	3	0	2	5	0	2	41	5	12.2%	5.5%	11
9:00-10:00	41	1	1	2	9	0	0	54	10	18.5%	7.2%	15
10:00-11:00	56	2	2	3	6	3	1	73	11	15.1%	9.8%	8
11:00-12:00	60	3	1	5	8	3	0	80	12	15.0%	10.7%	10
12:00-13:00	39	2	0	2	11	5	0	59	16	27.1%	7.9%	16
13:00-14:00	49	1	1	1	8	10	0	70	19	27.1%	9.4%	10
14:00-15:00	39	2	1	2	11	3	0	58	15	25.9%	7.8%	9
15:00-16:00	45	4	0	2	9	11	0	71	20	28.2%	9.5%	9
16:00-17:00	39	3	1	1	6	5	1	56	12	21.4%	7.5%	16
17:00-18:00	41	4	1	1	8	1	0	56	10	17.9%	7.5%	11
18:00-19:00	40	3	2	2	18	10	1	76	30	39.5%	10.2%	16
TOTAL	518	30	12	24	105	51	5	745	168	22.6%	100.0%	140

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	26	9	3	3	8	9	1	59	20	33.9%	7.0%	19
8:00- 9:00	38	5	2	20	9	8	1	83	19	22.9%	9.8%	16
9:00-10:00	49	3	3	34	13	4	0	106	20	18.9%	12.5%	13
10:00-11:00	32	0	2	34	8	5	2	83	15	18.1%	9.8%	14
11:00-12:00	24	0	2	32	6	1	0	65	9	13.8%	7.7%	21
12:00-13:00	38	1	1	23	11	5	2	81	17	21.0%	9.6%	16
13:00-14:00	15	1	5	20	10	4	0	55	19	34.5%	6.5%	14
14:00-15:00	18	5	3	23	10	1	0	60	14	23.3%	7.1%	15
15:00-16:00	25	0	2	20	15	6	0	68	23	33.8%	8.0%	16
16:00-17:00	25	1	1	13	19	4	0	63	24	38.1%	7.4%	17
17:00-18:00	25	1	3	30	9	1	1	70	13	18.6%	8.3%	17
18:00-19:00	21	1	1	24	4	1	1	53	6	11.3%	6.3%	9
TOTAL	336	27	28	276	122	49	8	846	199	23.5%	100.0%	187

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	66	11	5	4	14	9	1	110	28	25.5%	6.9%	28
8:00- 9:00	67	8	2	22	14	8	3	124	24	19.4%	7.8%	27
9:00-10:00	90	4	4	36	22	4	0	160	30	18.8%	10.1%	28
10:00-11:00	88	2	4	37	14	8	3	156	26	16.7%	9.8%	22
11:00-12:00	84	3	3	37	14	4	0	145	21	14.5%	9.1%	31
12:00-13:00	77	3	1	25	22	10	2	140	33	23.6%	8.8%	32
13:00-14:00	64	2	6	21	18	14	0	125	38	30.4%	7.9%	24
14:00-15:00	57	7	4	25	21	4	0	118	29	24.6%	7.4%	24
15:00-16:00	70	4	2	22	24	17	0	139	43	30.9%	8.7%	25
16:00-17:00	64	4	2	14	25	9	1	119	36	30.3%	7.5%	33
17:00-18:00	66	5	4	31	17	2	1	126	23	18.3%	7.9%	28
18:00-19:00	61	4	3	26	22	11	2	129	36	27.9%	8.1%	25
TOTAL	854	57	40	300	227	100	13	1591	367	23.1%	100.0%	327

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993. 3. 31

SURVEY POINT: 19

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	19	1	3	10	6	1	0	40	10	25.0%	7.1%	4
8:00- 9:00	11	2	3	27	5	3	0	51	11	21.6%	9.0%	7
9:00-10:00	13	1	6	17	5	1	0	43	12	27.9%	7.6%	2
10:00-11:00	15	4	5	32	19	3	1	79	27	34.2%	13.9%	2
11:00-12:00	4	3	2	10	13	0	0	32	15	46.9%	5.6%	2
12:00-13:00	4	1	4	18	10	1	0	38	15	39.5%	6.7%	0
13:00-14:00	10	2	2	24	7	0	0	45	9	20.0%	7.9%	0
14:00-15:00	13	3	2	9	13	3	1	44	18	40.9%	7.8%	1
15:00-16:00	12	1	2	19	12	3	0	49	17	34.7%	8.6%	1
16:00-17:00	11	2	3	15	15	4	1	51	22	43.1%	9.0%	1
17:00-18:00	12	3	1	13	8	5	0	42	14	33.3%	7.4%	4
18:00-19:00	12	2	0	26	12	1	0	53	13	24.5%	9.3%	2
TOTAL	136	25	33	220	125	25	3	567	183	32.3%	100.0%	26

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	6	4	4	12	2	0	0	28	6	21.4%	5.2%	2
8:00- 9:00	8	3	4	22	4	1	0	42	9	21.4%	7.8%	5
9:00-10:00	12	2	5	23	6	0	0	48	11	22.9%	8.9%	7
10:00-11:00	9	0	3	22	5	0	0	39	8	20.5%	7.3%	3
11:00-12:00	14	1	4	14	8	0	0	41	12	29.3%	7.6%	1
12:00-13:00	7	1	2	14	10	3	0	37	15	40.5%	6.9%	1
13:00-14:00	9	3	1	19	13	0	0	45	14	31.1%	8.4%	2
14:00-15:00	9	4	3	15	11	2	2	46	16	34.8%	8.6%	0
15:00-16:00	10	4	2	21	12	1	5	55	15	27.3%	10.2%	0
16:00-17:00	13	2	2	26	10	5	1	59	17	28.8%	11.0%	2
17:00-18:00	10	6	3	15	10	0	1	45	13	28.9%	8.4%	5
18:00-19:00	15	2	2	26	7	0	0	52	9	17.3%	9.7%	1
TOTAL	122	32	35	229	98	12	9	537	145	27.0%	100.0%	29

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	25	5	7	22	8	1	0	68	16	23.5%	6.2%	6
8:00- 9:00	19	5	7	49	9	4	0	93	20	21.5%	8.4%	12
9:00-10:00	25	3	11	40	11	1	0	91	23	25.3%	8.2%	9
10:00-11:00	24	4	8	54	24	3	1	118	35	29.7%	10.7%	5
11:00-12:00	18	4	6	24	21	0	0	73	27	37.0%	6.6%	3
12:00-13:00	11	2	6	32	20	4	0	75	30	40.0%	6.8%	1
13:00-14:00	19	5	3	43	20	0	0	90	23	25.6%	8.2%	2
14:00-15:00	22	7	5	24	24	5	3	90	34	37.8%	8.2%	1
15:00-16:00	22	5	4	40	24	4	5	104	32	30.8%	9.4%	1
16:00-17:00	24	4	5	41	25	9	2	110	39	35.5%	10.0%	3
17:00-18:00	22	9	4	28	18	5	1	87	27	31.0%	7.9%	9
18:00-19:00	27	4	2	52	19	1	0	105	22	21.0%	9.5%	3
TOTAL	258	57	68	449	223	37	12	1104	328	29.7%	100.0%	55

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 20

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	24	6	5	14	7	1	0	57	13	22.8%	8.2%	4
8:00- 9:00	18	8	4	24	10	0	0	64	14	21.9%	9.2%	5
9:00-10:00	16	4	2	24	15	1	0	62	18	29.0%	8.9%	4
10:00-11:00	26	3	3	22	13	2	0	69	18	26.1%	10.0%	5
11:00-12:00	19	0	4	30	13	2	2	70	19	27.1%	10.1%	4
12:00-13:00	11	0	5	15	11	2	0	44	18	40.9%	6.3%	8
13:00-14:00	13	4	3	21	6	5	1	53	14	26.4%	7.6%	3
14:00-15:00	25	2	5	25	11	4	0	72	20	27.8%	10.4%	1
15:00-16:00	3	0	3	27	6	0	0	39	9	23.1%	5.6%	4
16:00-17:00	8	0	0	19	9	4	0	40	13	32.5%	5.8%	6
17:00-18:00	13	7	5	30	13	0	0	68	18	26.5%	9.8%	12
18:00-19:00	14	3	3	22	10	3	0	55	16	29.1%	7.9%	6
TOTAL	190	37	42	273	124	24	3	693	190	27.4%	100.0%	62

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	15	2	5	18	9	3	1	53	17	32.1%	8.8%	6
8:00- 9:00	22	3	5	23	5	7	2	67	17	25.4%	11.2%	7
9:00-10:00	15	3	3	11	4	0	0	36	7	19.4%	6.0%	5
10:00-11:00	20	2	4	15	9	1	0	51	14	27.5%	8.5%	5
11:00-12:00	18	4	5	8	3	4	1	43	12	27.9%	7.2%	5
12:00-13:00	21	4	4	17	8	2	2	58	14	24.1%	9.7%	6
13:00-14:00	12	4	3	15	4	5	0	43	12	27.9%	7.2%	2
14:00-15:00	5	5	5	25	6	3	0	49	14	28.6%	8.2%	3
15:00-16:00	11	4	6	21	8	0	0	50	14	28.0%	8.3%	5
16:00-17:00	13	5	6	16	7	1	0	48	14	29.2%	8.0%	5
17:00-18:00	12	9	6	22	6	3	0	58	15	25.9%	9.7%	5
18:00-19:00	8	12	3	12	5	3	0	43	11	25.6%	7.2%	5
TOTAL	172	57	55	203	74	32	6	599	161	26.9%	100.0%	59

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-T (Fig 5)	Heavy-T (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	39	8	10	32	16	4	1	110	30	27.3%	8.5%	10
8:00- 9:00	40	11	9	47	15	7	2	131	31	23.7%	10.1%	12
9:00-10:00	31	7	5	35	19	1	0	98	25	25.5%	7.6%	9
10:00-11:00	46	5	7	37	22	3	0	120	32	26.7%	9.3%	10
11:00-12:00	37	4	9	38	16	6	3	113	31	27.4%	8.7%	9
12:00-13:00	32	4	9	32	19	4	2	102	32	31.4%	7.9%	14
13:00-14:00	25	8	6	36	10	10	1	96	26	27.1%	7.4%	5
14:00-15:00	30	7	10	50	17	7	0	121	34	28.1%	9.4%	4
15:00-16:00	14	4	9	48	14	0	0	89	23	25.8%	6.9%	9
16:00-17:00	21	5	6	35	16	5	0	88	27	30.7%	6.8%	11
17:00-18:00	25	16	11	52	19	3	0	126	33	26.2%	9.8%	17
18:00-19:00	22	15	6	34	15	6	0	98	27	27.6%	7.6%	11
TOTAL	362	94	97	476	198	56	9	1292	351	27.2%	100.0%	121

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-t)



RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 21

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	16	3	5	30	11	0	0	65	16	24.6%	9.3%	3
8:00- 9:00	14	2	4	46	6	1	5	78	11	14.1%	11.1%	2
9:00-10:00	10	0	6	13	7	1	2	39	14	35.9%	5.6%	3
10:00-11:00	11	0	6	18	18	0	1	54	24	44.4%	7.7%	2
11:00-12:00	20	2	4	17	5	0	1	49	9	18.4%	7.0%	3
12:00-13:00	16	16	8	21	16	8	3	88	32	36.4%	12.5%	1
13:00-14:00	10	3	3	13	3	5	2	39	11	28.2%	5.6%	0
14:00-15:00	13	0	4	23	11	2	0	53	17	32.1%	7.5%	1
15:00-16:00	15	1	12	30	31	2	2	93	45	48.4%	13.2%	0
16:00-17:00	10	1	0	20	17	0	0	48	17	35.4%	6.8%	0
17:00-18:00	17	1	3	20	7	2	2	52	12	23.1%	7.4%	1
18:00-19:00	18	4	0	13	9	0	0	44	9	20.5%	6.3%	0
TOTAL	170	33	55	264	141	21	18	702	217	30.9%	100.0%	16

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	7	2	5	9	3	4	4	34	12	35.3%	5.2%	1
8:00- 9:00	17	0	7	13	10	0	6	53	17	32.1%	8.1%	1
9:00-10:00	20	4	3	14	1	0	4	46	4	8.7%	7.0%	2
10:00-11:00	16	1	3	17	6	2	2	47	11	23.4%	7.2%	1
11:00-12:00	10	3	4	13	10	4	1	45	18	40.0%	6.8%	2
12:00-13:00	20	3	6	25	7	5	2	68	18	26.5%	10.4%	1
13:00-14:00	15	1	5	16	12	1	4	54	18	33.3%	8.2%	0
14:00-15:00	15	1	3	32	11	1	5	68	15	22.1%	10.4%	1
15:00-16:00	14	1	5	30	9	4	4	67	18	26.9%	10.2%	1
16:00-17:00	13	0	5	40	11	7	1	77	23	29.9%	11.7%	3
17:00-18:00	12	8	6	20	6	2	1	55	14	25.5%	8.4%	2
18:00-19:00	10	6	6	15	5	1	0	43	12	27.9%	6.5%	1
TOTAL	169	30	58	244	91	31	34	657	180	27.4%	100.0%	16

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	23	5	10	39	14	4	4	99	28	28.3%	7.3%	4
8:00- 9:00	31	2	11	59	16	1	11	131	28	21.4%	9.6%	3
9:00-10:00	30	4	9	27	8	1	6	85	18	21.2%	6.3%	5
10:00-11:00	27	1	9	35	24	2	3	101	35	34.7%	7.4%	3
11:00-12:00	30	5	8	30	15	4	2	94	27	28.7%	6.9%	5
12:00-13:00	36	19	14	46	23	13	5	156	50	32.1%	11.5%	2
13:00-14:00	25	4	8	29	15	6	6	93	29	31.2%	6.8%	0
14:00-15:00	28	1	7	55	22	3	5	121	32	26.4%	8.9%	2
15:00-16:00	29	2	17	60	40	6	6	160	63	39.4%	11.8%	1
16:00-17:00	23	1	5	60	28	7	1	125	40	32.0%	9.2%	3
17:00-18:00	29	9	9	40	13	4	3	107	26	24.3%	7.9%	3
18:00-19:00	28	10	6	28	14	1	0	87	21	24.1%	6.4%	1
TOTAL	339	63	113	508	232	52	52	1359	397	29.2%	100.0%	32

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-t)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 22

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	6	3	5	17	0	0	0	31	5	16.1%	7.1%	2
8:00- 9:00	8	0	3	12	3	0	0	26	6	23.1%	6.0%	1
9:00-10:00	8	1	4	10	6	1	1	31	11	35.5%	7.1%	4
10:00-11:00	9	1	1	11	4	1	0	27	6	22.2%	6.2%	3
11:00-12:00	7	1	3	13	5	5	0	34	13	38.2%	7.8%	4
12:00-13:00	10	6	4	10	8	4	0	42	16	38.1%	9.6%	8
13:00-14:00	9	1	3	13	9	3	0	38	15	39.5%	8.7%	0
14:00-15:00	11	1	1	10	0	4	0	27	5	18.5%	6.2%	2
15:00-16:00	9	2	1	11	8	4	1	36	13	36.1%	8.3%	1
16:00-17:00	12	2	0	16	9	7	0	46	16	34.8%	10.6%	1
17:00-18:00	16	3	1	15	16	8	0	59	25	42.4%	13.5%	1
18:00-19:00	13	2	2	6	12	3	1	39	17	43.6%	8.9%	4
TOTAL	118	23	28	144	80	40	3	436	148	33.9%	100.0%	31

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	3	6	3	2	4	5	0	23	12	52.2%	5.1%	8
8:00- 9:00	8	5	4	19	5	4	1	46	13	28.3%	10.3%	5
9:00-10:00	11	3	4	15	12	2	0	47	18	38.3%	10.5%	4
10:00-11:00	14	2	2	16	3	0	0	37	5	13.5%	8.3%	5
11:00-12:00	10	0	3	13	11	2	1	40	16	40.0%	8.9%	6
12:00-13:00	9	2	3	10	4	5	0	33	12	36.4%	7.4%	4
13:00-14:00	10	6	1	9	8	5	0	39	14	35.9%	8.7%	5
14:00-15:00	8	2	3	11	7	0	1	32	10	31.3%	7.2%	1
15:00-16:00	6	2	3	14	14	2	0	41	19	46.3%	9.2%	7
16:00-17:00	5	2	2	17	7	0	0	33	9	27.3%	7.4%	8
17:00-18:00	6	10	4	14	6	1	0	41	11	26.8%	9.2%	4
18:00-19:00	10	3	2	13	4	3	0	35	9	25.7%	7.8%	3
TOTAL	100	43	34	153	85	29	3	447	148	33.1%	100.0%	60

Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	9	9	8	19	4	5	0	54	17	31.5%	6.1%	10
8:00- 9:00	16	5	7	31	8	4	1	72	19	26.4%	8.2%	6
9:00-10:00	19	4	8	25	18	3	1	78	29	37.2%	8.8%	8
10:00-11:00	23	3	3	27	7	1	0	64	11	17.2%	7.2%	8
11:00-12:00	17	1	6	26	16	7	1	74	29	39.2%	8.4%	10
12:00-13:00	19	8	7	20	12	9	0	75	28	37.3%	8.5%	12
13:00-14:00	19	7	4	22	17	8	0	77	29	37.7%	8.7%	5
14:00-15:00	19	3	4	21	7	4	1	59	15	25.4%	6.7%	3
15:00-16:00	15	4	4	25	22	6	1	77	32	41.6%	8.7%	8
16:00-17:00	17	4	2	33	16	7	0	79	25	31.6%	8.9%	9
17:00-18:00	22	13	5	29	22	9	0	100	36	36.0%	11.3%	5
18:00-19:00	23	5	4	19	16	6	1	74	26	35.1%	8.4%	7
TOTAL	218	66	62	297	165	69	6	883	296	33.5%	100.0%	91

Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

RESULTS OF TRAFFIC VOLUME COUNTING SURVEY

DATE: 1993.3.31

SURVEY POINT: 23

Direction (1) To Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	2	2	1	5	1	1	0	12	3	25.0%	4.0%	4
8:00- 9:00	4	3	1	9	5	3	0	25	9	36.0%	8.4%	1
9:00-10:00	6	2	1	7	6	5	0	27	12	44.4%	9.1%	1
10:00-11:00	5	1	1	11	6	2	0	26	9	34.6%	8.7%	3
11:00-12:00	4	2	1	14	5	3	0	29	9	31.0%	9.7%	3
12:00-13:00	3	2	2	10	2	2	0	21	6	28.6%	7.0%	0
13:00-14:00	7	1	1	13	5	6	0	33	12	36.4%	11.1%	0
14:00-15:00	6	1	1	10	7	4	0	29	12	41.4%	9.7%	2
15:00-16:00	2	0	1	8	3	3	2	19	7	36.8%	6.4%	0
16:00-17:00	4	3	1	15	3	0	0	26	4	15.4%	8.7%	4
17:00-18:00	4	1	1	16	7	0	0	29	8	27.6%	9.7%	5
18:00-19:00	3	0	2	13	4	0	0	22	6	27.3%	7.4%	2
TOTAL	50	18	14	131	54	29	2	298	97	32.6%	100.0%	25

Direction (2) From Managua

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	3	3	2	6	1	3	0	18	6	33.3%	5.4%	3
8:00- 9:00	2	0	4	11	6	1	0	24	11	45.8%	7.1%	1
9:00-10:00	12	0	2	18	6	4	0	42	12	28.6%	12.5%	2
10:00-11:00	5	1	1	17	2	0	0	26	3	11.5%	7.7%	2
11:00-12:00	17	2	1	19	8	1	0	48	10	20.8%	14.3%	3
12:00-13:00	7	0	2	4	3	1	0	17	6	35.3%	5.1%	0
13:00-14:00	5	3	0	14	3	7	0	32	10	31.3%	9.5%	0
14:00-15:00	6	1	0	13	6	5	0	31	11	35.5%	9.2%	2
15:00-16:00	8	2	2	15	6	1	1	35	9	25.7%	10.4%	2
16:00-17:00	3	0	2	6	6	1	0	18	9	50.0%	5.4%	0
17:00-18:00	6	1	0	7	2	0	0	16	2	12.5%	4.8%	1
18:00-19:00	6	0	1	10	8	4	0	29	13	44.8%	8.6%	4
TOTAL	80	13	17	140	57	28	1	336	102	30.4%	100.0%	20

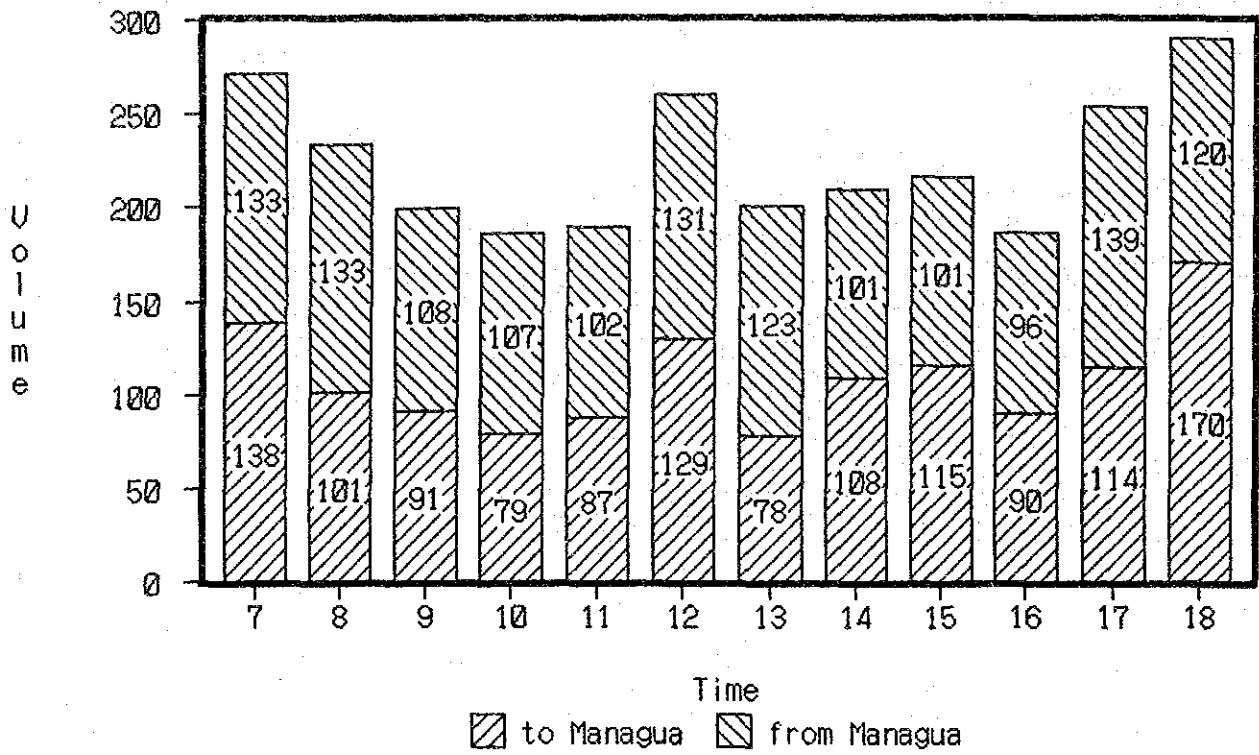
Direction (1)+(2) Total

Type Hour	Pas. Car (Fig 1)	M. Bus (Fig 2)	H. Bus (Fig 3)	Pick-up (Fig 4)	Light-t (Fig 5)	Heavy-t (Fig 6)	Others (Fig 7)	Total	Heavy Vehicle	Percentage H. Veh (%)	Percentage Of Hours (%)	M. Cycle (Fig 8)
7:00- 8:00	5	5	3	11	2	4	0	30	9	30.0%	4.7%	7
8:00- 9:00	6	3	5	20	11	4	0	49	20	40.8%	7.7%	2
9:00-10:00	18	2	3	25	12	9	0	69	24	34.8%	10.9%	3
10:00-11:00	10	2	2	28	8	2	0	52	12	23.1%	8.2%	5
11:00-12:00	21	4	2	33	13	4	0	77	19	24.7%	12.1%	6
12:00-13:00	10	2	4	14	5	3	0	38	12	31.6%	6.0%	0
13:00-14:00	12	4	1	27	8	13	0	65	22	33.8%	10.3%	0
14:00-15:00	12	2	1	23	13	9	0	60	23	38.3%	9.5%	4
15:00-16:00	10	2	3	23	9	4	3	54	16	29.6%	8.5%	2
16:00-17:00	7	3	3	21	9	1	0	44	13	29.5%	6.9%	4
17:00-18:00	10	2	1	23	9	0	0	45	10	22.2%	7.1%	6
18:00-19:00	9	0	3	23	12	4	0	51	19	37.3%	8.0%	6
TOTAL	130	31	31	271	111	57	3	634	199	31.4%	100.0%	45

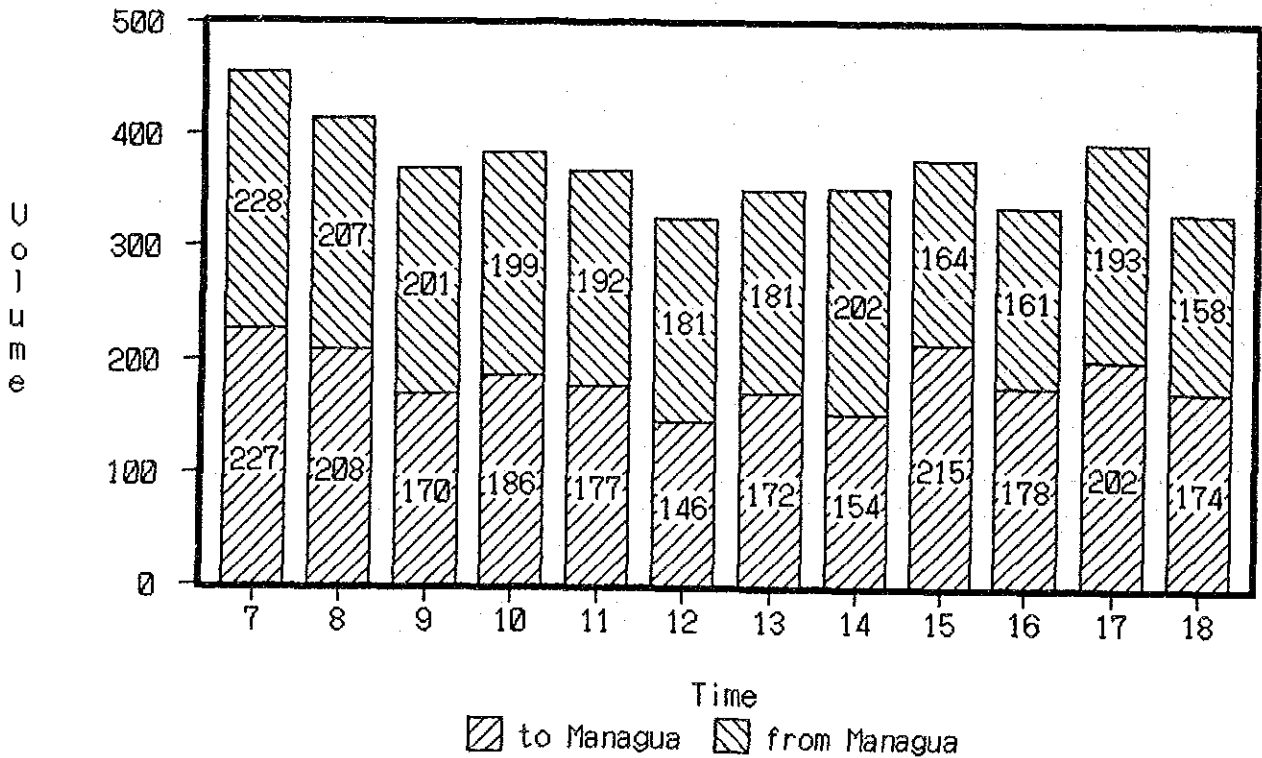
Note: H. Vehic. = (H. bus) + (Light-T) + (Heavy-T)

Annex 4-2 Hourly Variation of Traffic Volume

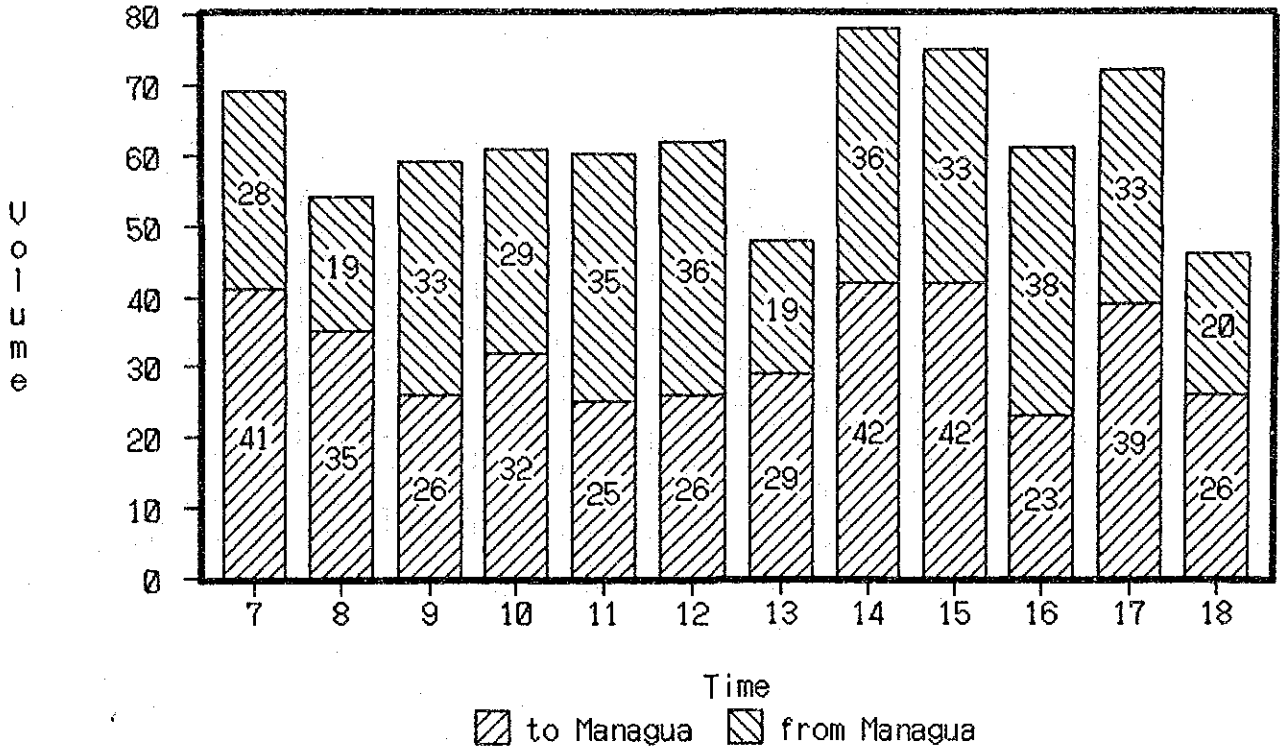
Location No. 1  
12 Hour



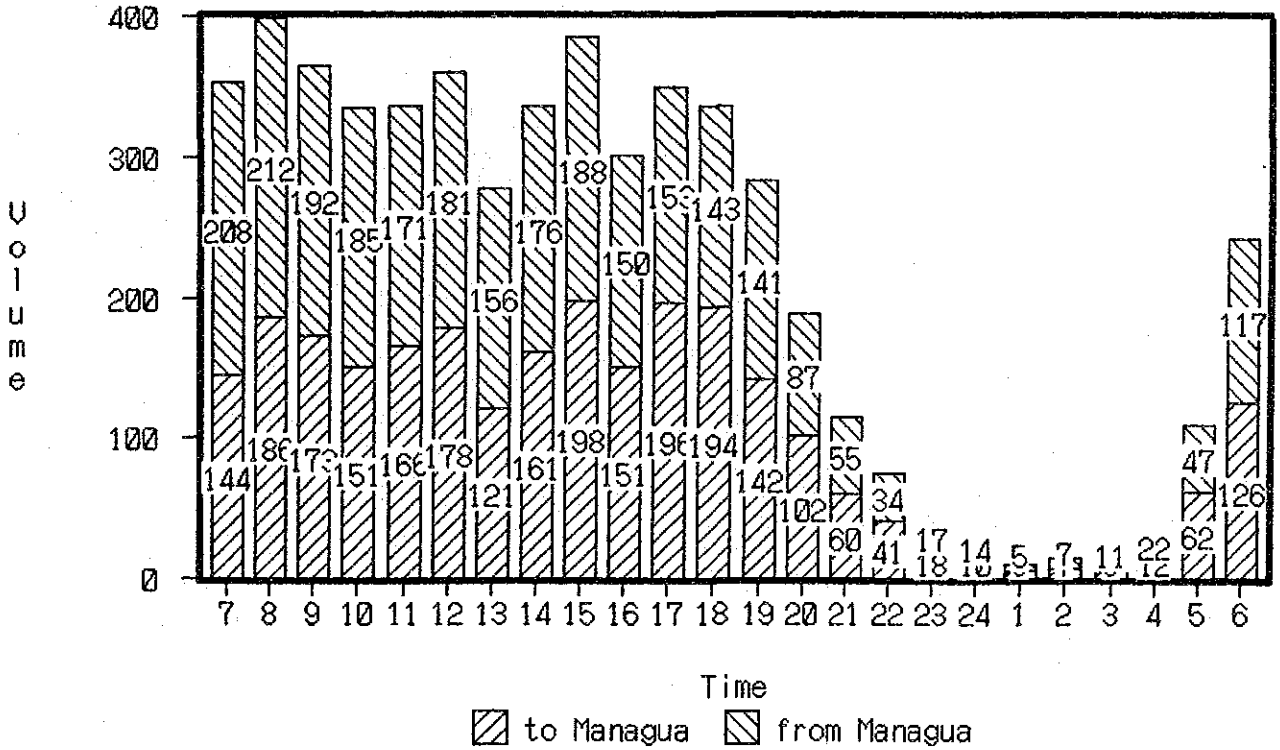
Location No. 2  
12 Hour



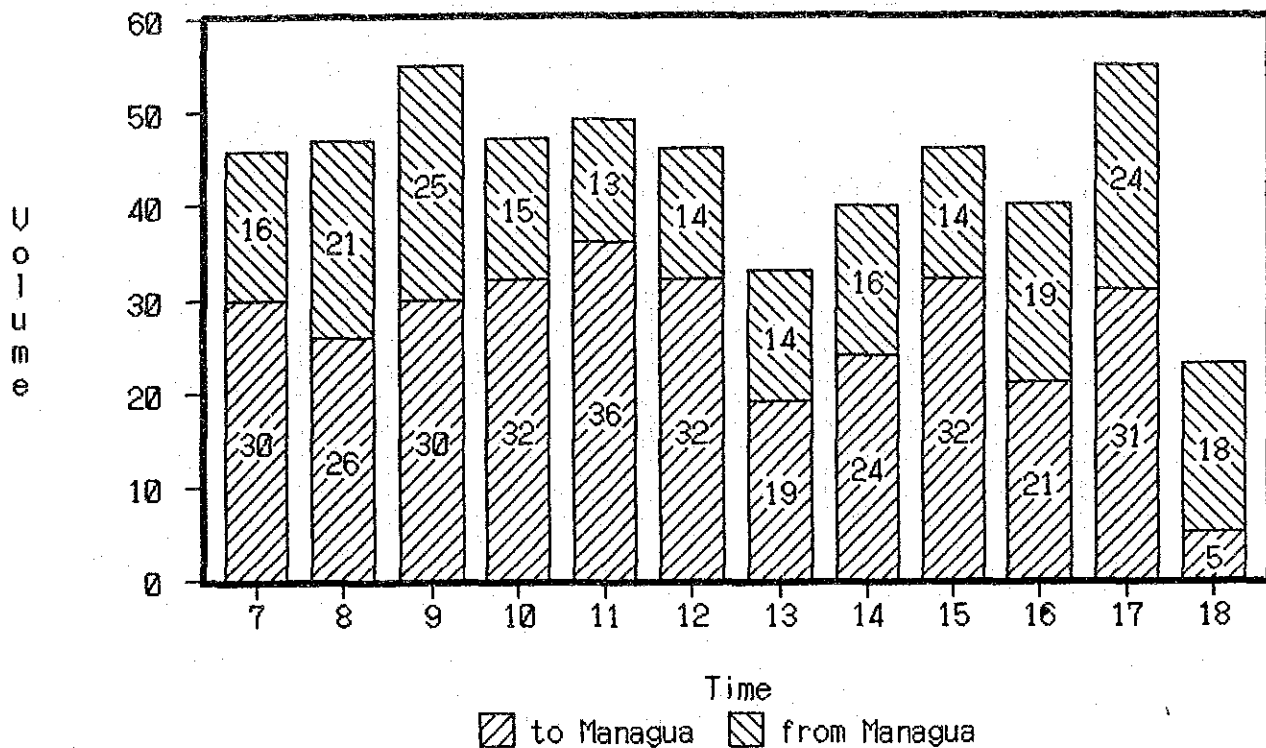
Location No. 3  
12 Hour



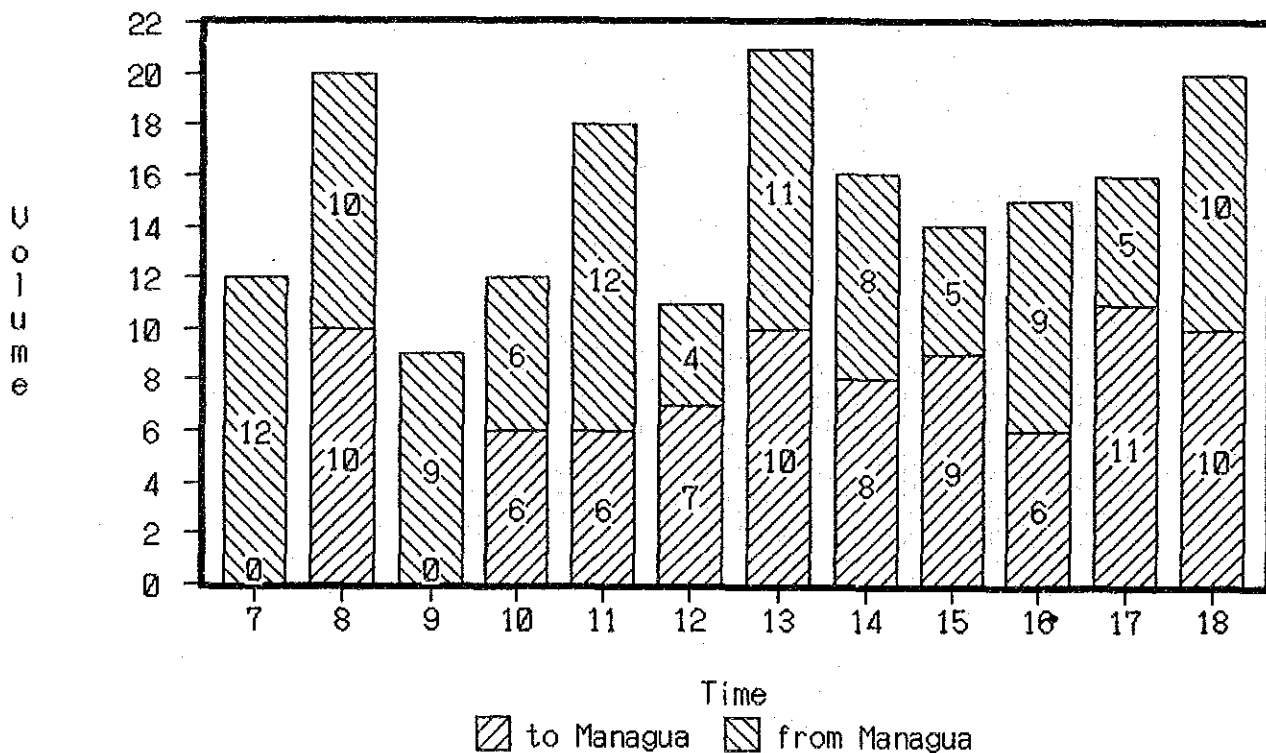
Location No. 4  
24 Hour



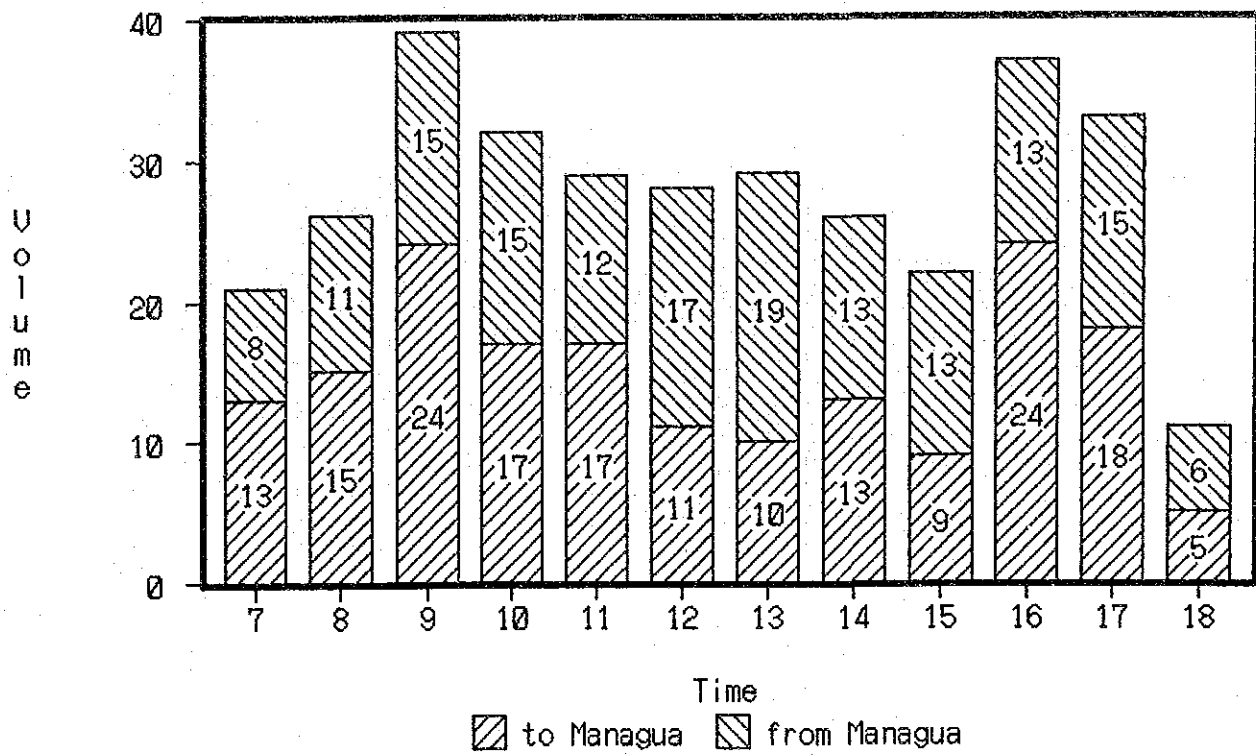
Location No. 5  
12 Hour



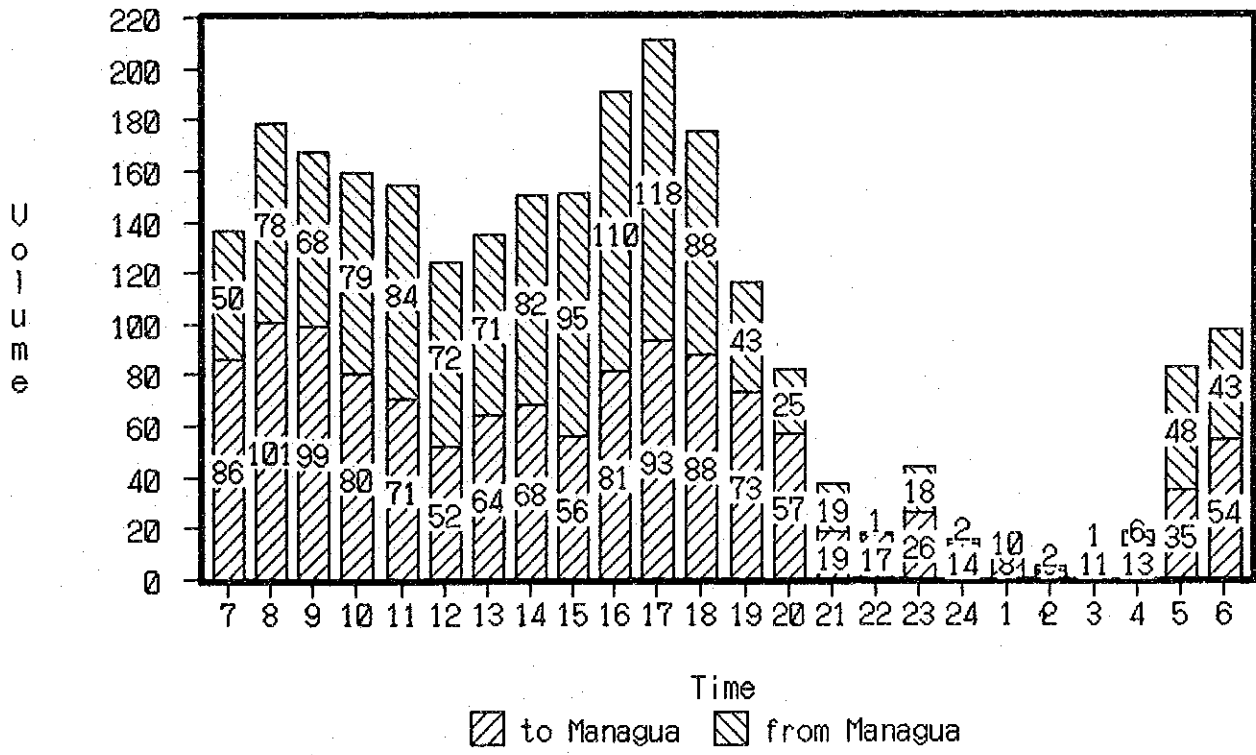
Location No. 6-1  
12 Hour



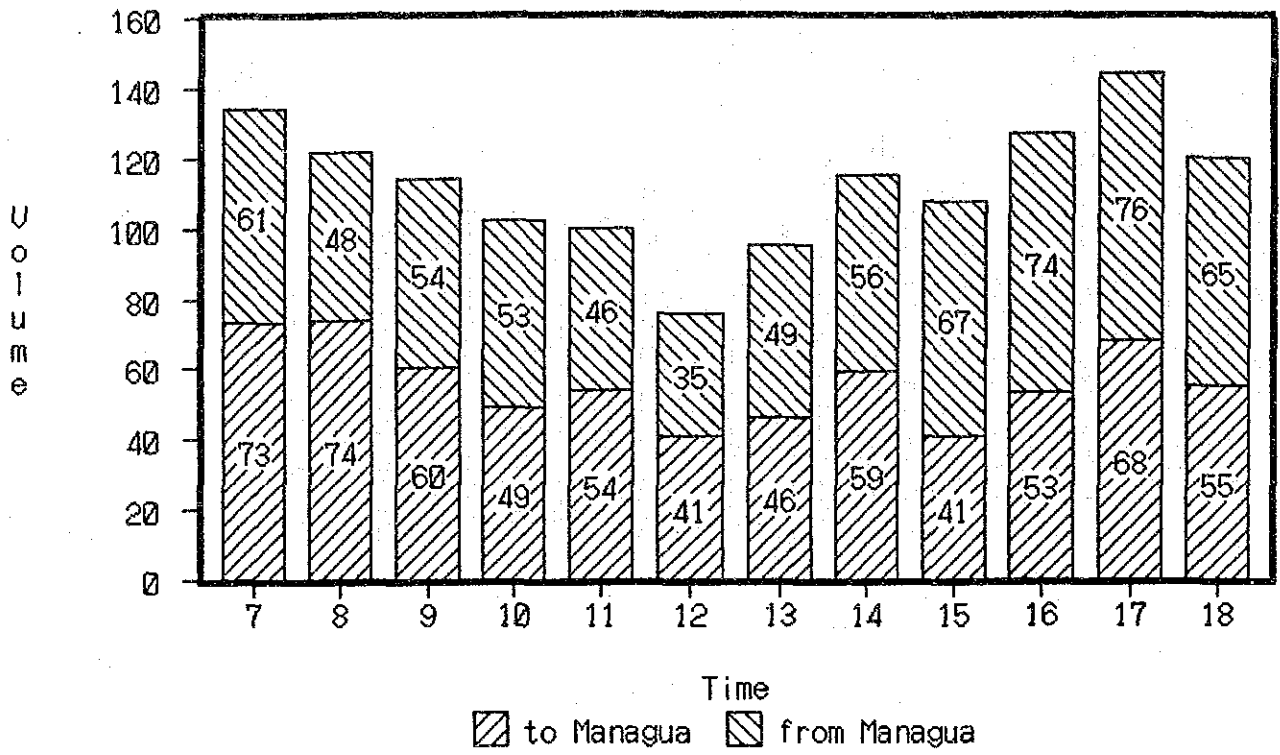
Location No. 6-2  
12 Hour



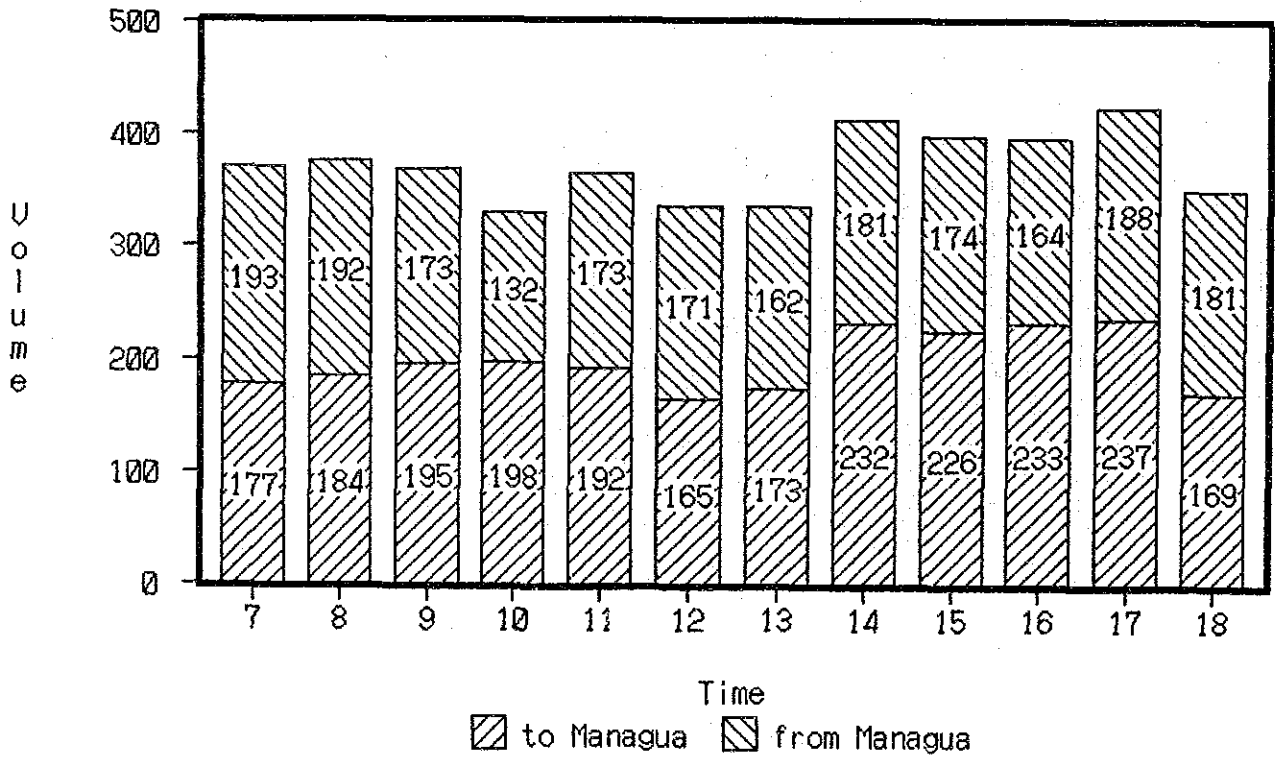
Location No. 7  
24 Hour



Location No. 8  
12 Hour

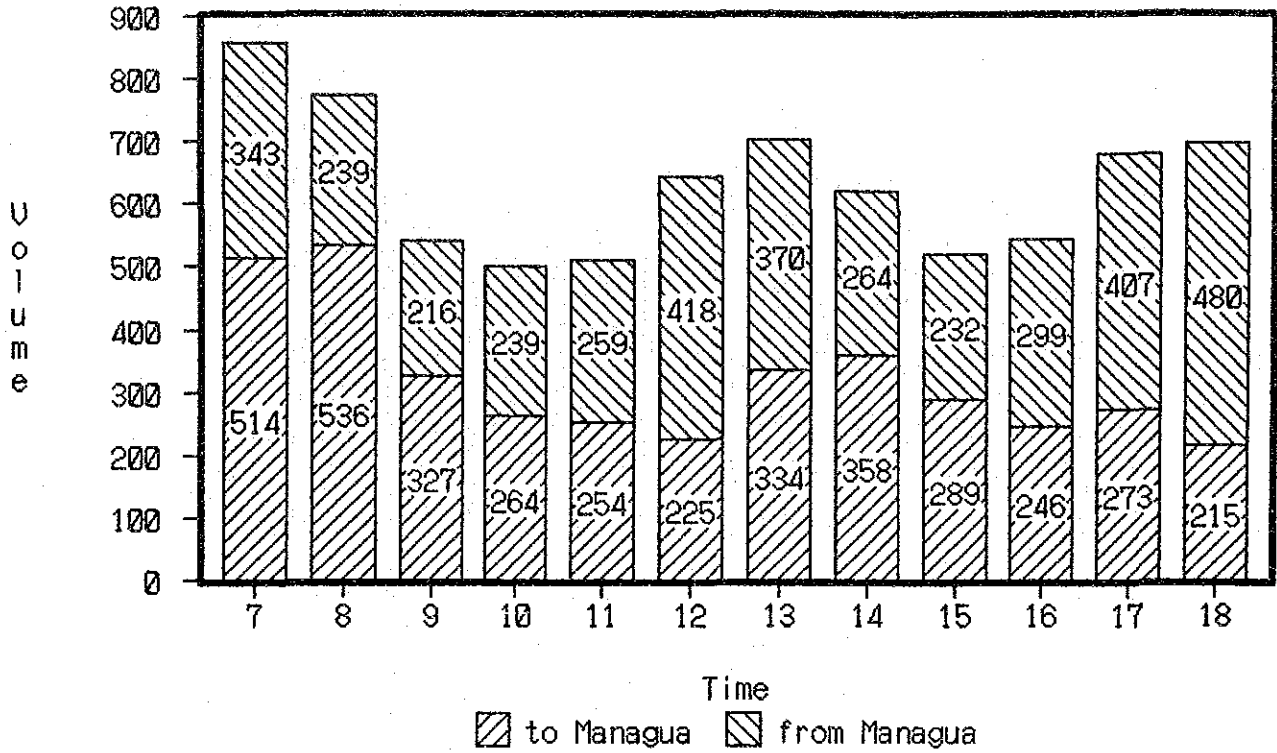


Location No. 9  
12 Hour



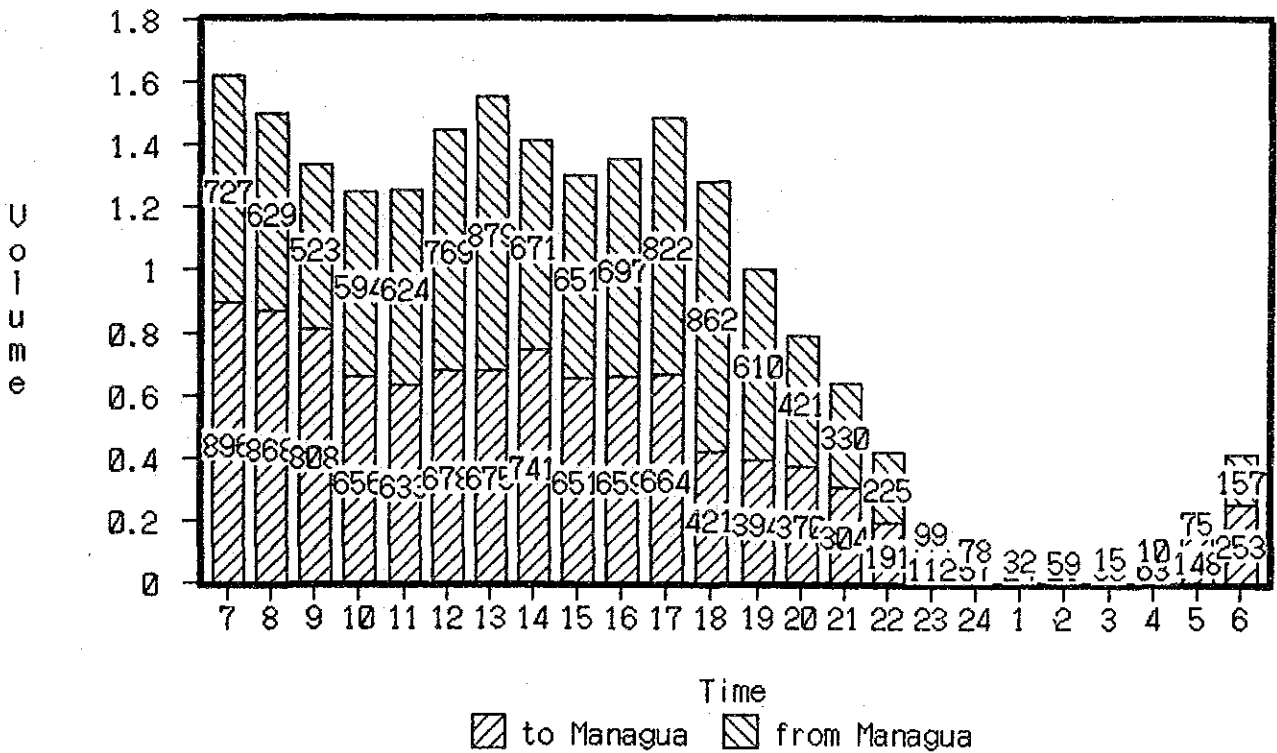


Location No. 10  
12 Hour

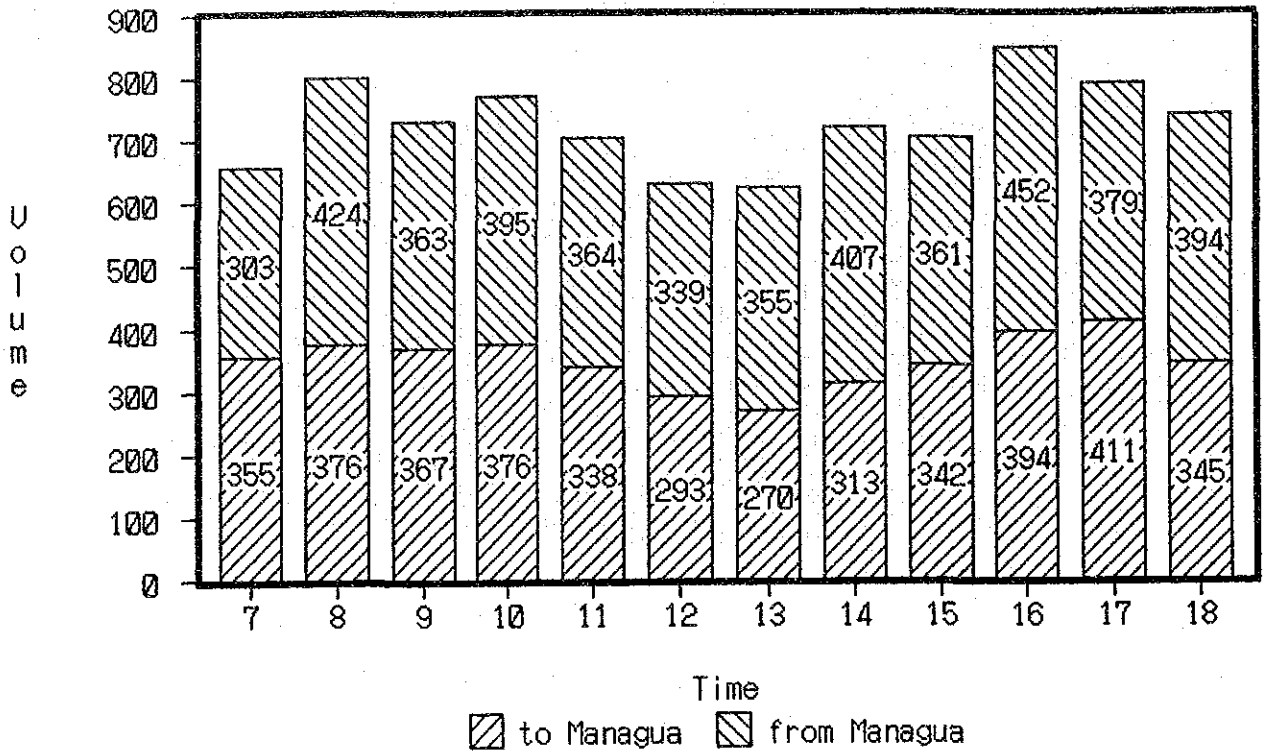


Location No. 11  
24 Hour

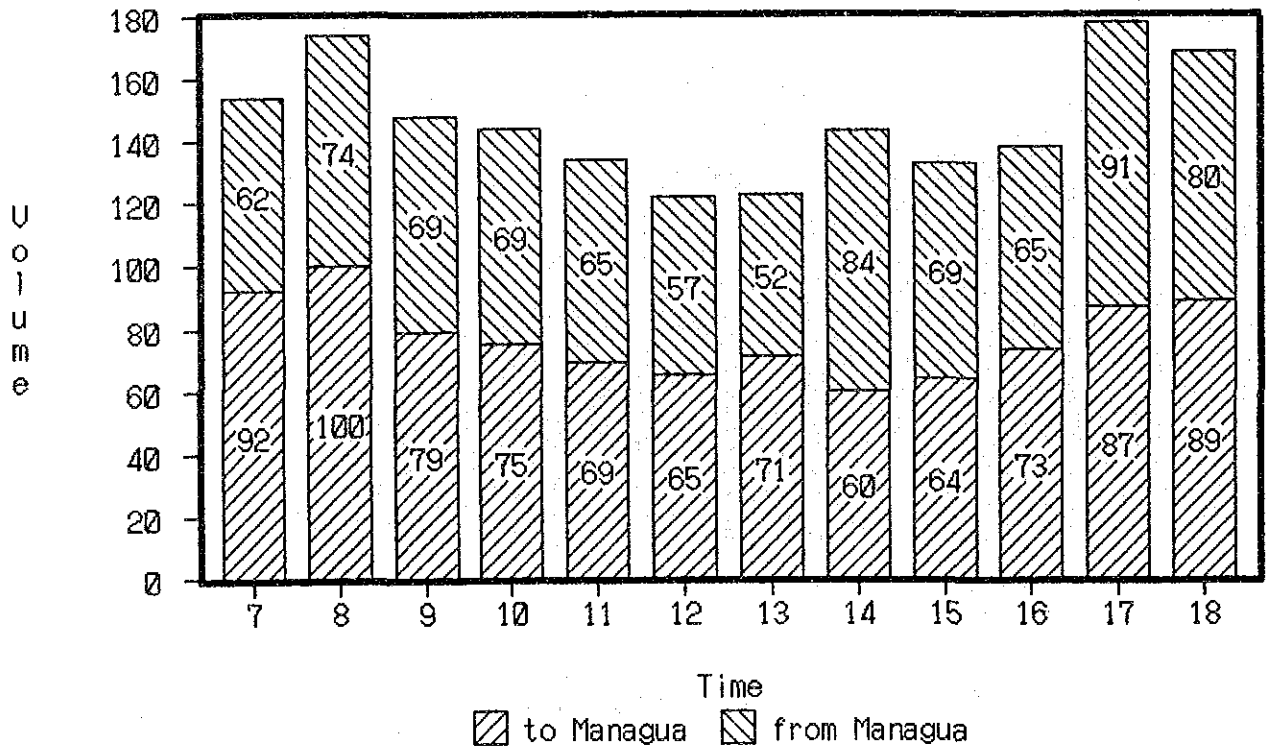
UNIT : THOUSAND



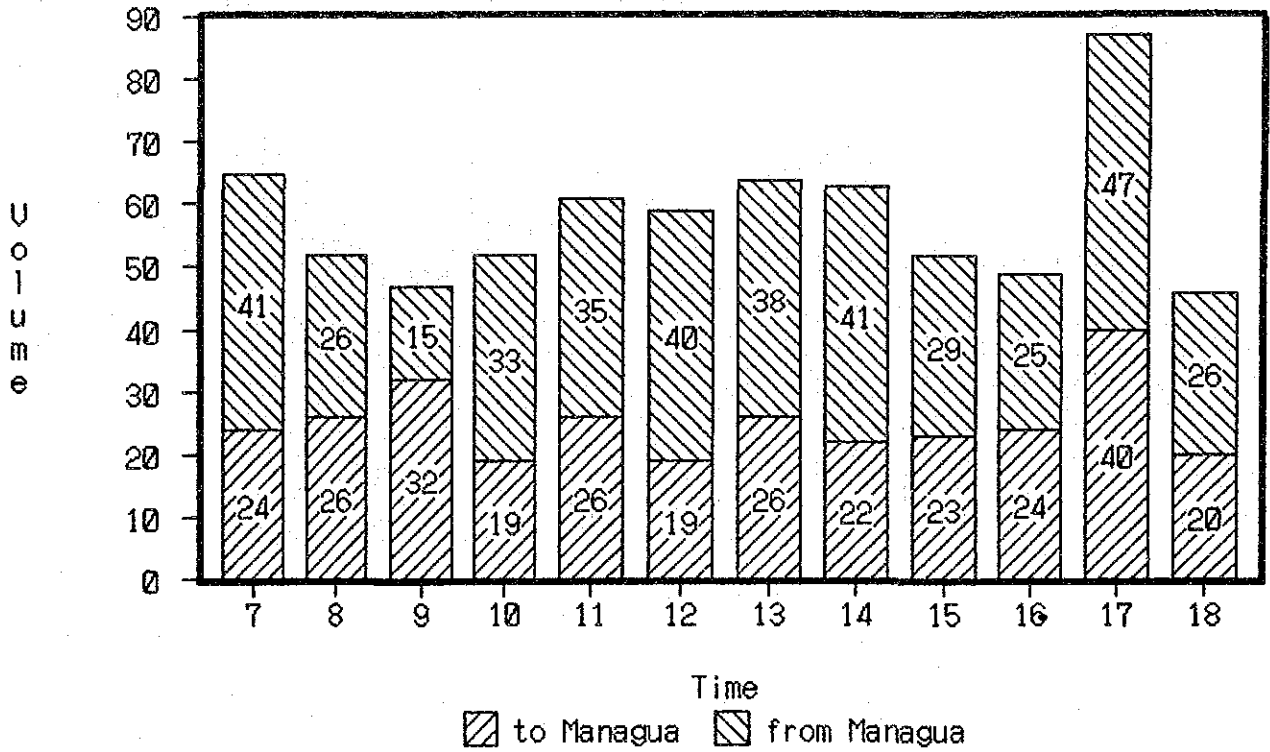
Location No. 12  
12 Hour



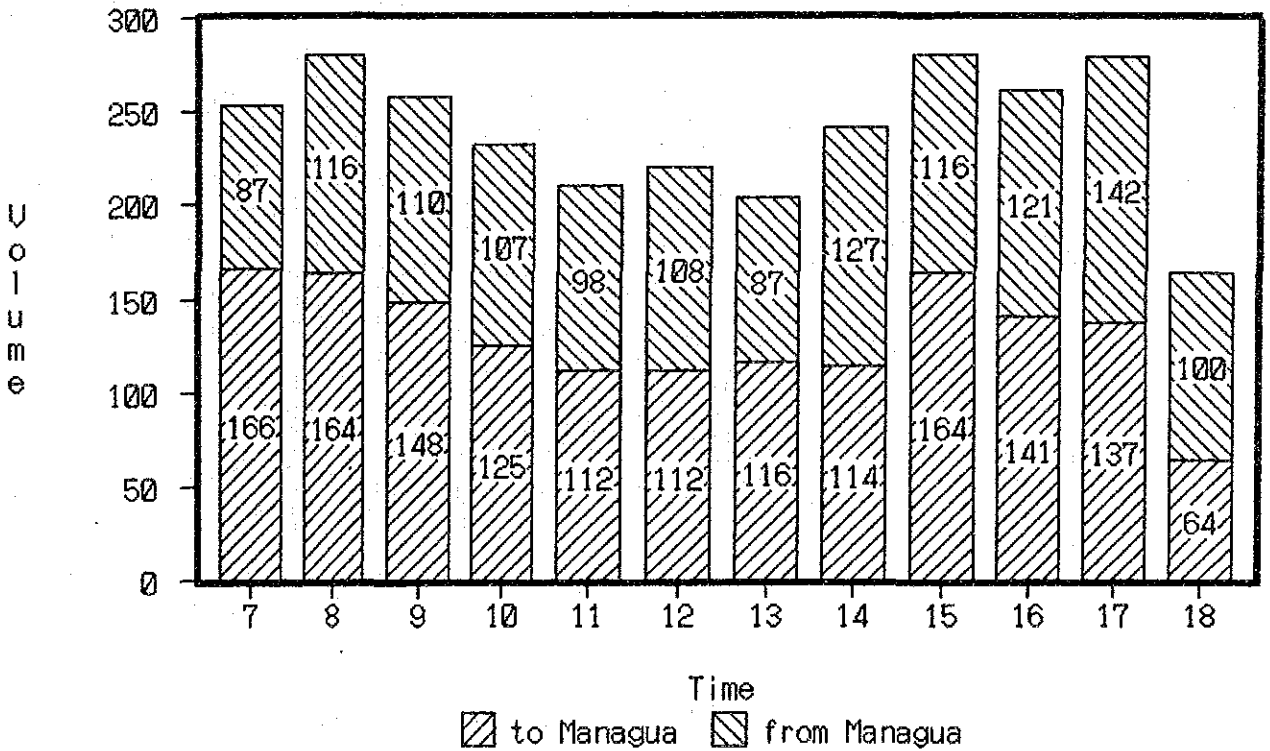
Location No. 13  
12 Hour



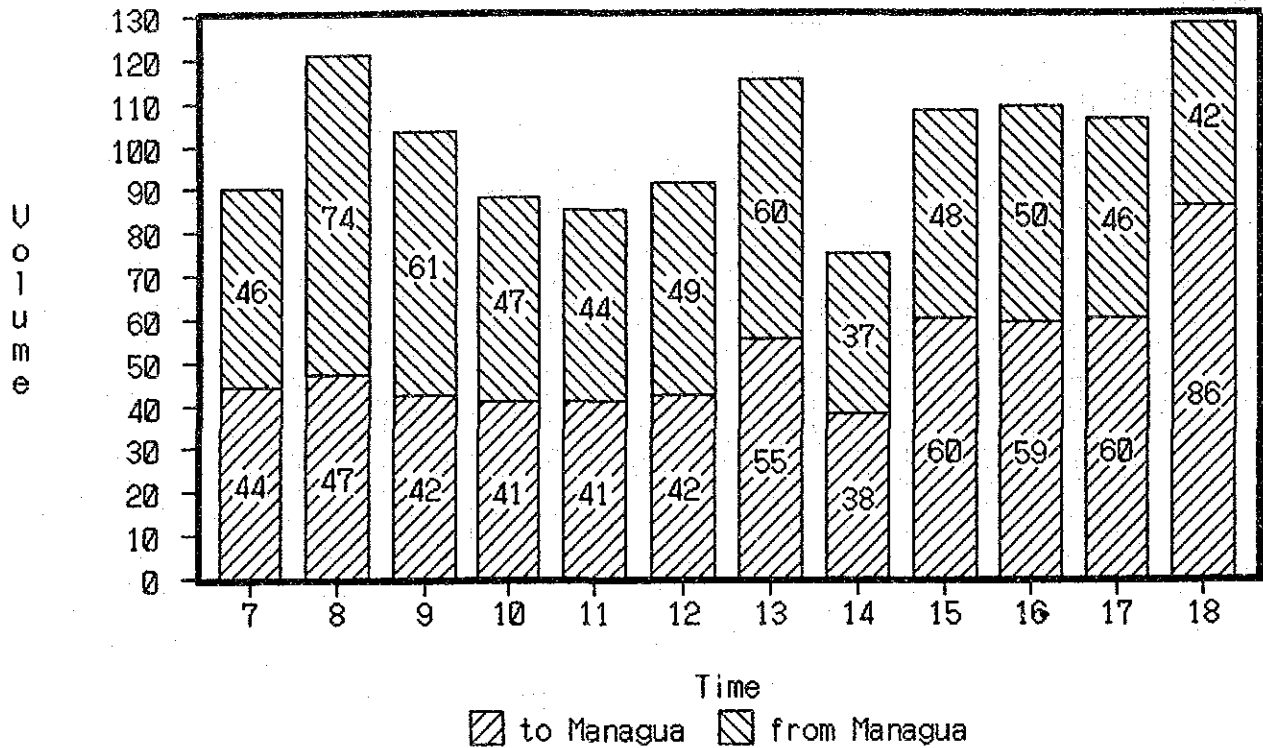
Location No. 14  
12 Hour



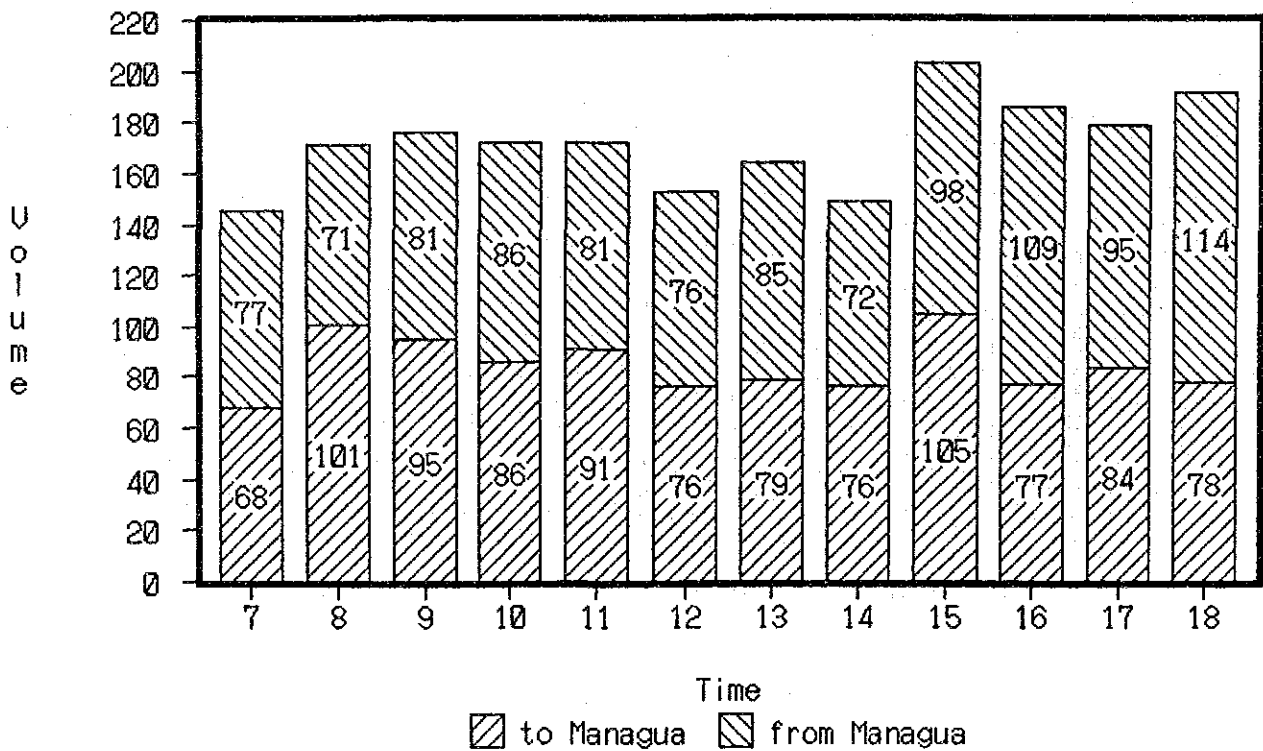
Location No. 15  
12 Hour



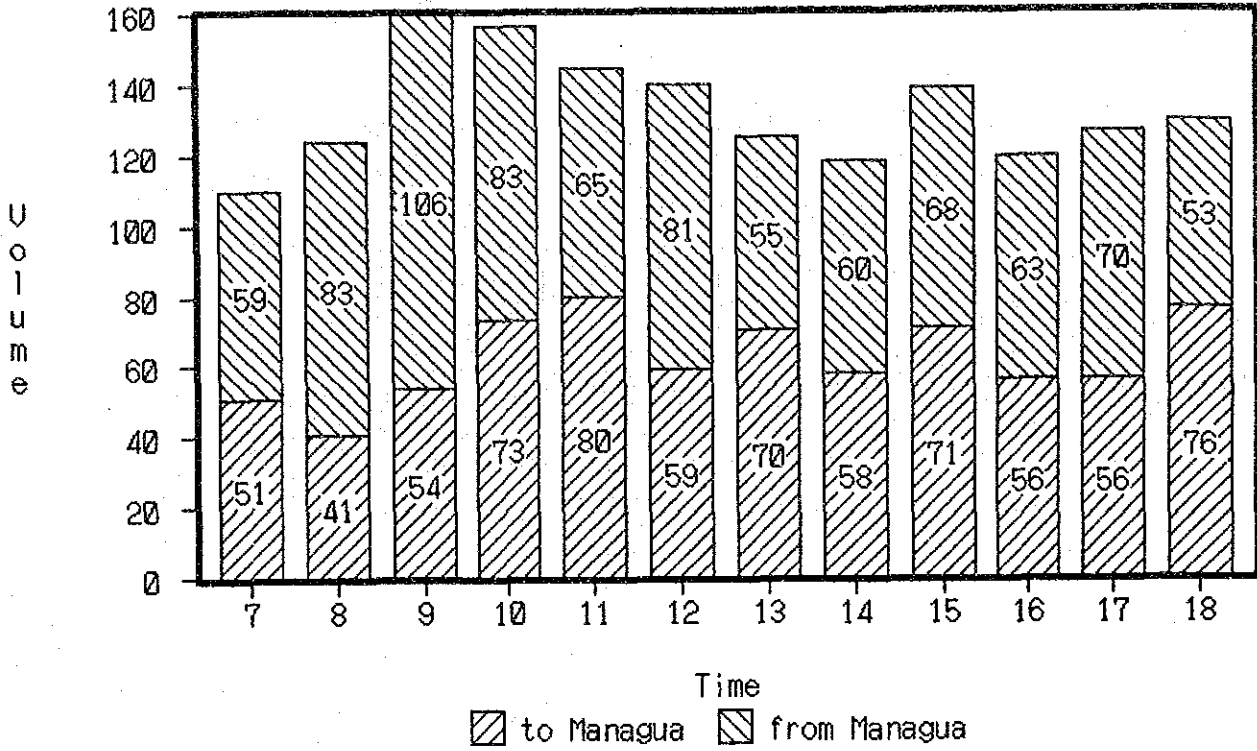
Location No. 16  
12 Hour



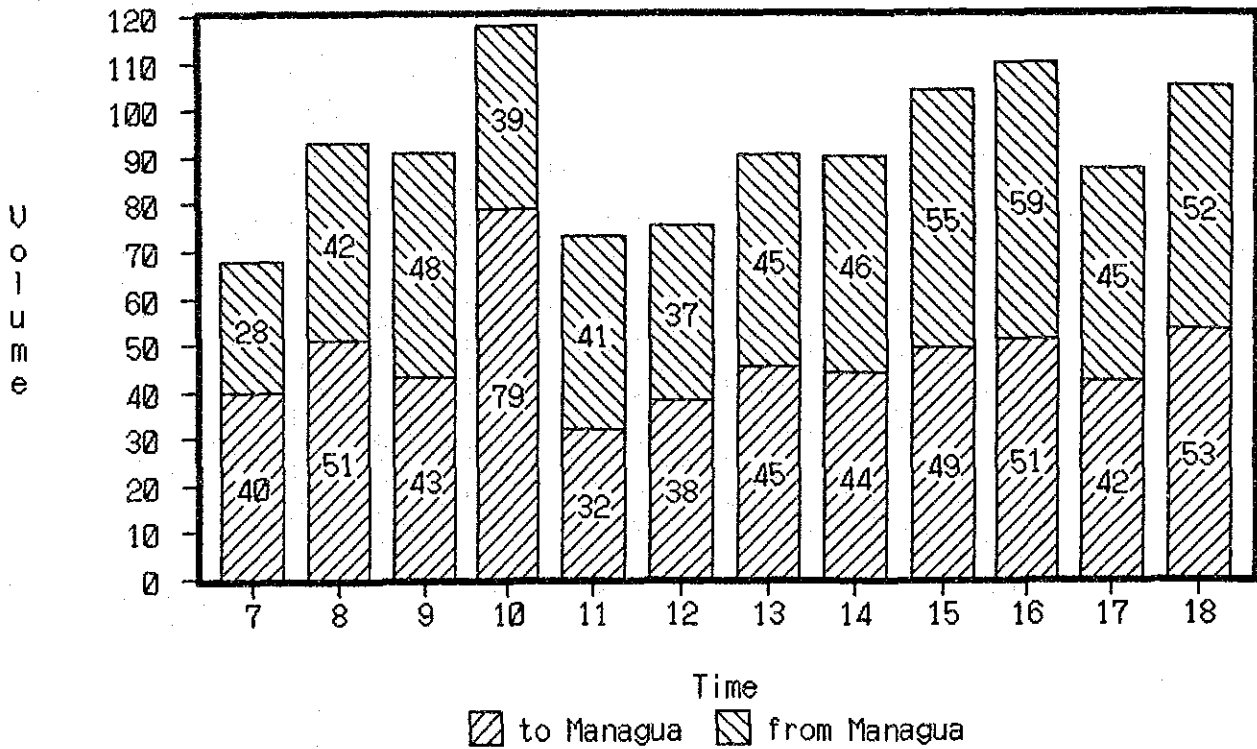
Location No. 17  
12 Hour



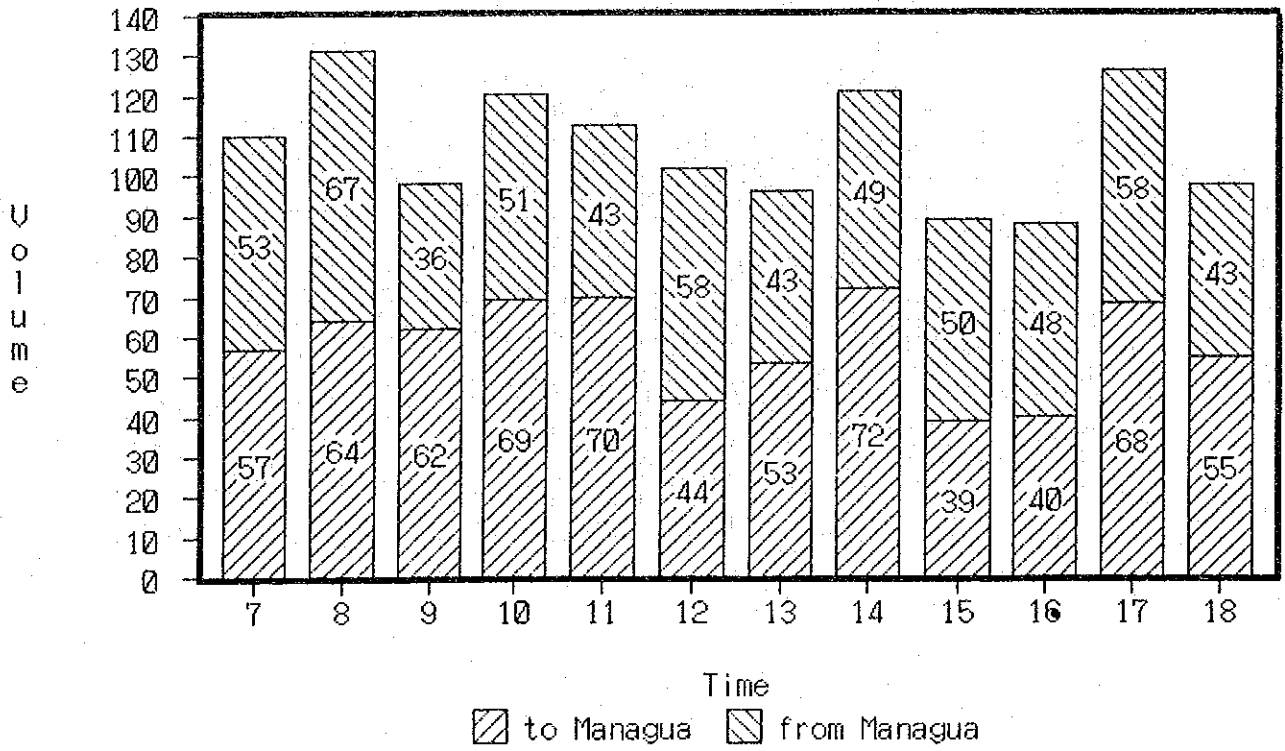
Location No. 18  
12 Hour



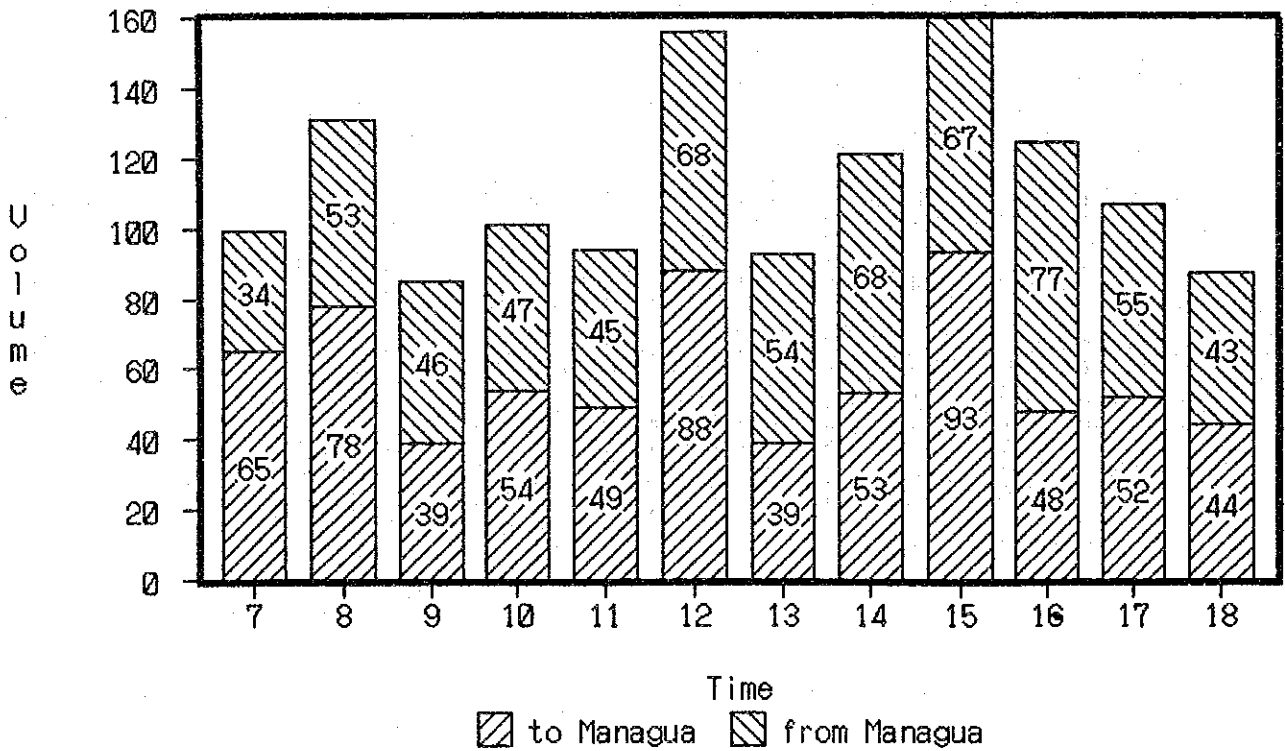
Location No. 19  
12 Hour



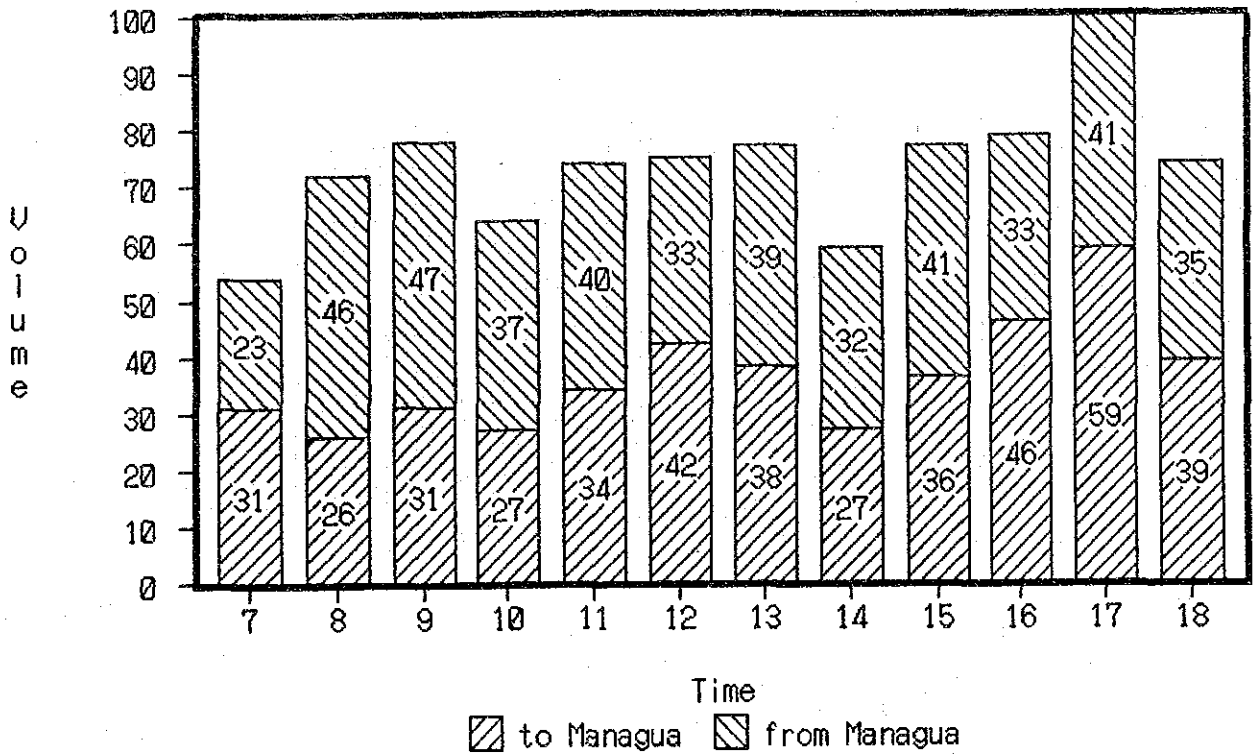
Location No. 20  
12 Hour



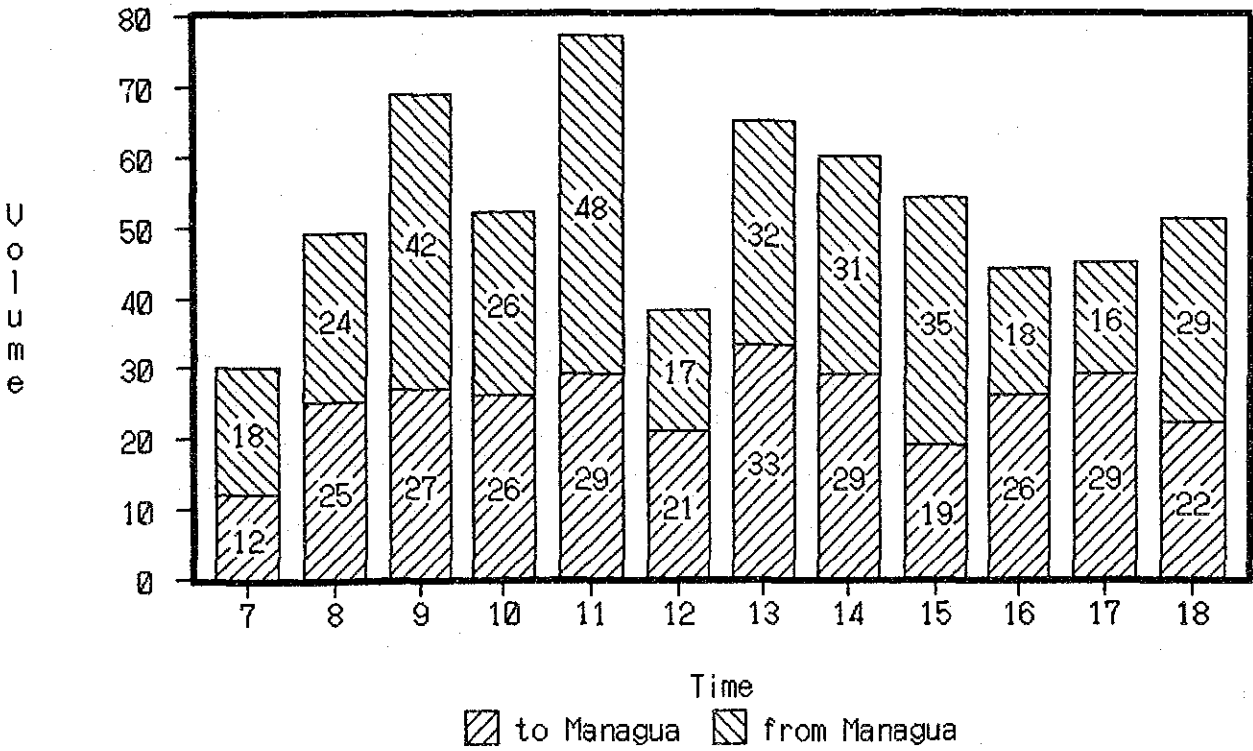
Location No. 21  
12 Hour



Location No. 22  
12 Hour



Location No. 23  
12 Hour



Results of Vehicle Speed Survey

Vehicle Speed Survey

Route No. 1

Start Time: 7:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Km 154 Ctra guasaule En La Interseccion Com.Hnos garcia	20.000	1.258	57.2	
2	Solida Cinandega-Guasaule				
3					
4					
5					
6					
7					
TOTAL		20.000	1.258	57.2	

Vehicle Speed Survey

Route No. 1

Start Time: 10:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Km 154 Ctra guasaule En La Interseccion Com.Hnos garcia	20.000	1.251	57.6	
2	Solida Cinandega-Guasaule				
3					
4					
5					
6					
7					
TOTAL		20.000	1.251	57.6	

Vehicle Speed Survey

Route No. 1

Start Time: 17:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Km 154 Ctra guasaule En La Interseccion Com.Hnos garcia	20.000	1.305	55.2	
2	Solida Cinandega-Guasaule				
3					
4					
5					
6					
7					
TOTAL		20.000	1.305	55.2	



Vehicle Speed Survey

Route No. 1

Start Time: 7:25

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Solida Cinandega-Guasaule	20.000	1.247	57.7	
2	Km 154 Ctra guasaule En La Interseccion Com.Hnos garcia				
3					
4					
5					
6					
7					
TOTAL		20.000	1.247	57.7	

Vehicle Speed Survey

Route No. 1

Start Time: 10:22

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Solida Cinandega-Guasaule	20.000	1.238	58.2	
2	Km 154 Ctra guasaule En La Interseccion Com.Hnos garcia				
3					
4					
5					
6					
7					
TOTAL		20.000	1.238	58.2	

Vehicle Speed Survey

Route No. 1

Start Time: 17:23

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Solida Cinandega-Guasaule	20.000	1.476	48.8	
2	Km 154 Ctra guasaule En La Interseccion Com.Hnos garcia				
3					
4					
5					
6					
7					
TOTAL		20.000	1.476	48.8	

Vehicle Speed Survey

Route No. 2

Start Time: 7:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Chinandega	11,300	618	65.8	
2	Entrada Chichigalpa				
3	Entrada a Argelia Km 115.5	4,700	854	19.8	
4					
5					
6					
7					
TOTAL		16,000	1,472	39.1	

Vehicle Speed Survey

Route No. 2

Start Time: 10:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Chinandega	11,300	591	68.8	
2	Entrada Chichigalpa				
3	Entrada a Argelia Km 115.5	4,700	793	21.3	
4					
5					
6					
7					
TOTAL		16,000	1,384	41.6	

Vehicle Speed Survey

Route No. 2

Start Time: 17:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Chinandega	11,300	618	65.8	
2	Entrada Chichigalpa				
3	Entrada a Argelia Km 115.5	4,700	844	20.0	
4					
5					
6					
7					
TOTAL		16,000	1,462	39.4	

Vehicle Speed Survey

Route No. 2

Start Time: 7:15

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada a Argelia Km 115.5	4,700	282	60.0	
2	Entrada Chichigalpa				
3	Entrada A Chinandega	11,300	798	51.0	
4					
5					
6					
7					
TOTAL		16,000	1,080	53.3	

Vehicle Speed Survey

Route No. 2

Start Time: 10:28

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada a Argelia Km 115.5	4,700	254	66.6	
2	Entrada Chichigalpa				
3	Entrada A Chinandega	11,300	864	47.1	
4					
5					
6					
7					
TOTAL		16,000	1,118	51.5	

Vehicle Speed Survey

Route No. 2

Start Time: 17:16

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada a Argelia Km 115.5	4,700	219	77.3	
2	Entrada Chichigalpa				
3	Entrada A Chinandega	11,300	823	49.4	
4					
5					
6					
7					
TOTAL		16,000	1,042	55.3	

Vehicle Speed Survey

Route No. 3

Start Time: 7:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada a Argelia Km 115.5	13,700	728	67.7	
2	Enparme Telica-Sn Jsidro				
3					
4					
5					
6					
7					
TOTAL		13,700	728	67.7	

Vehicle Speed Survey

Route No. 3

Start Time: 10:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada a Argelia Km 115.5	13,700	832	59.3	
2	Enparme Telica-Sn Jsidro				
3					
4					
5					
6					
7					
TOTAL		13,700	832	59.3	

Vehicle Speed Survey

Route No. 3

Start Time: 17:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada a Argelia Km 115.5	13,700	703	70.2	
2	Enparme Telica-Sn Jsidro				
3					
4					
5					
6					
7					
TOTAL		13,700	703	70.2	

Vehicle Speed Survey

Route No. 3

Start Time: 7:14

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enparme Telica-Sn Jsidro	13,700	702	70.3	
2	Entrada a Argelia Km 115.5				
3					
4					
5					
6					
7					
TOTAL		13,700	702	70.3	

Vehicle Speed Survey

Route No. 3

Start Time: 10:14

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enparme Telica-Sn Jsidro	13,700	708	69.7	
2	Entrada a Argelia Km 115.5				
3					
4					
5					
6					
7					
TOTAL		13,700	708	69.7	

Vehicle Speed Survey

Route No. 3

Start Time: 17:14

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enparme Telica-Sn Jsidro	13,700	802	61.5	
2	Entrada a Argelia Km 115.5				
3					
4					
5					
6					
7					
TOTAL		13,700	802	61.5	

Vehicle Speed Survey

Route No. 4

Start Time: 7:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Malpaisillo	24,000	1,349	64.0	
2	Emp Telica-Sn Jsidro				
3					
4					
5					
6					
7					
TOTAL		24,000	1,349	64.0	

Vehicle Speed Survey

Route No. 4

Start Time: 10:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Malpaisillo	24,000	1,198	72.1	
2	Emp Telica-Sn Jsidro				
3					
4					
5					
6					
7					
TOTAL		24,000	1,198	72.1	

Vehicle Speed Survey

Route No. 4

Start Time: 17:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Malpaisillo	24,000	1,440	60.0	
2	Emp Telica-Sn Jsidro				
3					
4					
5					
6					
7					
TOTAL		24,000	1,440	60.0	

Vehicle Speed Survey

Route No. 4 Start Time: 7:25  
 Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enparme Telica-Sn Jsidro	24,000	1,320	65.5	
2	Entrada A Malpaisillo				
3					
4					
5					
6					
7					
TOTAL		24,000	1,320	65.5	

Vehicle Speed Survey

Route No. 4 Start Time: 10:21  
 Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enparme Telica-Sn Jsidro	24,000	1,320	65.5	
2	Entrada A Malpaisillo				
3					
4					
5					
6					
7					
TOTAL		24,000	1,320	65.5	

Vehicle Speed Survey

Route No. 4 Start Time: 17:25  
 Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enparme Telica-Sn Jsidro	24,000	1,409	61.3	
2	Entrada A Malpaisillo				
3					
4					
5					
6					
7					
TOTAL		24,000	1,409	61.3	







Vehicle Speed Survey

Route No. 6

Start Time: 7:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Nagarote	29,500	1,725	61.6	
2	Entrada Xiloa				
3	Interseccion Cuesta Del Plomo	2,400	132	65.5	
4	Interseccion Las Piedrecitas	4,600	355	46.6	
5					
6					
7					
TOTAL		36,500	2,212	59.4	

Vehicle Speed Survey

Route No. 6

Start Time: 10:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Nagarote	29,500	1,857	57.2	
2	Entrada Xiloa				
3	Interseccion Cuesta Del Plomo	2,400	183	47.2	
4	Interseccion Las Piedrecitas	4,600	353	46.9	
5					
6					
7					
TOTAL		36,500	2,393	54.9	

Vehicle Speed Survey

Route No. 6

Start Time: 17:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Nagarote	29,500	1,809	58.7	
2	Entrada Xiloa				
3	Interseccion Cuesta Del Plomo	2,400	176	49.1	
4	Interseccion Las Piedrecitas	4,600	366	45.2	
5					
6					
7					
TOTAL		36,500	2,351	55.9	

Vehicle Speed Survey

Route No. 6 Start Time: 7:39  
 Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Interseccion Las Piedrecitas	4,600	335	49.4	
2	Interseccion Cuesta Del Plomo				
3	Entrada Xiloa	2,400	216	40.0	
4	Entrada A Nagarote	29,500	1,904	55.8	
5					
6					
7					
TOTAL		36,500	2,455	53.5	

Vehicle Speed Survey

Route No. 6 Start Time: 10:42  
 Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Interseccion Las Piedrecitas	4,600	336	49.3	
2	Interseccion Cuesta Del Plomo				
3	Entrada Xiloa	2,400	175	49.4	
4	Entrada A Nagarote	29,500	1,602	66.3	
5					
6					
7					
TOTAL		36,500	2,113	62.2	

Vehicle Speed Survey

Route No. 6 Start Time: 17:40  
 Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Interseccion Las Piedrecitas	4,600	309	53.6	
2	Interseccion Cuesta Del Plomo				
3	Entrada Xiloa	2,400	184	47.0	
4	Entrada A Nagarote	29,500	1,728	61.5	
5					
6					
7					
TOTAL		36,500	2,221	59.2	

Vehicle Speed Survey

Route No. 7 Start Time: 7:00  
 Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada Al Coyotepe	13.800	682	72.8	
2	Entrada A Ticuantepe				
3	Cemaforo De La Colonia CentroAmerica	8.700	845	37.1	
4					
5					
6					
7					
TOTAL		22.500	1.527	53.0	

Vehicle Speed Survey

Route No. 7 Start Time: 10:00  
 Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada Al Coyotepe	13.800	665	74.7	
2	Entrada A Ticuantepe				
3	Cemaforo De La Colonia CentroAmerica	8.700	504	62.1	
4					
5					
6					
7					
TOTAL		22.500	1.169	69.3	

Vehicle Speed Survey

Route No. 7 Start Time: 17:00  
 Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada Al Coyotepe	13.800	780	63.7	
2	Entrada A Ticuantepe				
3	Cemaforo De La Colonia CentroAmerica	8.700	753	41.6	
4					
5					
6					
7					
TOTAL		22.500	1.533	52.8	



Vehicle Speed Survey

Route No. 8

Start Time: 7:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enpalme Sn Benito				
2	Km 29 Sarida Ctro Viaje Tipitapa	5,400	291	66.8	
3	Entrada Tipitapa (Los Pollos)	8,700	424	73.9	
4	Interseccion Ctro Vieja Tipitapa (Cofradio)	6,500	331	70.7	
5	Semaforos Del Moyoreo (La Subasta)	6,000	351	61.5	
6					
7					
T O T A L		26,600	1,397	68.5	

Vehicle Speed Survey

Route No. 8

Start Time: 10:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enpalme Sn Benito				
2	Km 29 Sarida Ctro Viaje Tipitapa	5,400	280	69.4	
3	Entrada Tipitapa (Los Pollos)	8,700	445	70.4	
4	Interseccion Ctro Vieja Tipitapa (Cofradio)	6,500	344	68.0	
5	Semaforos Del Moyoreo (La Subasta)	6,000	355	60.8	
6					
7					
T O T A L		26,600	1,424	67.2	

Vehicle Speed Survey

Route No. 8

Start Time: 17:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enpalme Sn Benito				
2	Km 29 Sarida Ctro Viaje Tipitapa	5,400	312	62.3	
3	Entrada Tipitapa (Los Pollos)	8,700	454	69.0	
4	Interseccion Ctro Vieja Tipitapa (Cofradio)	6,500	377	62.1	
5	Semaforos Del Moyoreo (La Subasta)	6,000	351	61.5	
6					
7					
T O T A L		26,600	1,494	64.1	

Vehicle Speed Survey

Route No. 8

Start Time: 7:24

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Semaforos Del Moyoreo (La Subasta)				
2	Interseccion Ctro Vieja Tipitapa (Cofradio)	6,000	329	65.7	
3	Entrada Tipitapa (Los Pollos)	6,500	343	68.2	
4	Km 29 Sarida Ctro Viaje Tipitapa	8,700	450	69.6	
5	Enpalme Sn Benito	5,400	292	66.6	
6					
7					
TOTAL		26,600	1,414	67.7	

Vehicle Speed Survey

Route No. 8

Start Time: 10:25

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Semaforos Del Moyoreo (La Subasta)				
2	Interseccion Ctro Vieja Tipitapa (Cofradio)	6,000	342	63.2	
3	Entrada Tipitapa (Los Pollos)	6,500	357	65.5	
4	Km 29 Sarida Ctro Viaje Tipitapa	8,700	436	71.8	
5	Enpalme Sn Benito	5,400	296	65.7	
6					
7					
TOTAL		26,600	1,431	66.9	

Vehicle Speed Survey

Route No. 8

Start Time: 17:26

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Semaforos Del Moyoreo (La Subasta)				
2	Interseccion Ctro Vieja Tipitapa (Cofradio)	6,000	386	56.0	
3	Entrada Tipitapa (Los Pollos)	6,500	357	65.5	
4	Km 29 Sarida Ctro Viaje Tipitapa	8,700	453	69.1	
5	Enpalme Sn Benito	5,400	296	65.7	
6					
7					
TOTAL		26,600	1,492	64.2	

Vehicle Speed Survey

Route No. 9

Start Time: 7:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enp. Nandaime	9,300	461	72.6	
2	Enp. El Guaracosto				
3	Enp. Catarina	9,400	490	69.1	
4	Entrada A Masaya (Moninbo)	5,800	292	71.5	
5					
6					
7					
TOTAL		24,500	1,243	71.0	

Vehicle Speed Survey

Route No. 9

Start Time: 10:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enp. Nandaime	9,300	586	57.1	
2	Enp. El Guaracosto				
3	Enp. Catarina	9,400	540	62.7	
4	Entrada A Masaya (Moninbo)	5,800	317	65.9	
5					
6					
7					
TOTAL		24,500	1,443	61.1	

Vehicle Speed Survey

Route No. 9

Start Time: 17:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Enp. Nandaime	9,300	580	57.7	
2	Enp. El Guaracosto				
3	Enp. Catarina	9,400	626	54.1	
4	Entrada A Masaya (Moninbo)	5,800	313	66.7	
5					
6					
7					
TOTAL		24,500	1,519	58.1	



Vehicle Speed Survey

Route No. 9

Start Time: 7:30

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Masaya (Moninbo)				
2	Enp. Catarina	5,800	448	46.6	
3	Enp. El Guaracosto	9,400	474	71.4	
4	Enp. Nandaime	9,300	429	78.0	
5					
6					
7					
TOTAL		24,500	1,351	65.3	

Vehicle Speed Survey

Route No. 9

Start Time: 10:25

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Masaya (Moninbo)				
2	Enp. Catarina	5,800	385	54.2	
3	Enp. El Guaracosto	9,400	522	64.8	
4	Enp. Nandaime	9,300	498	67.2	
5					
6					
7					
TOTAL		24,500	1,405	62.8	

Vehicle Speed Survey

Route No. 9

Start Time: 17:26

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Entrada A Masaya (Moninbo)				
2	Enp. Catarina	5,800	392	53.3	
3	Enp. El Guaracosto	9,400	653	51.8	
4	Enp. Nandaime	9,300	515	65.0	
5					
6					
7					
TOTAL		24,500	1,560	56.5	

Vehicle Speed Survey

Route No. 10

Start Time: 7:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Sapoa Interseccion Al Ostional				
		2,300	172	48.1	
2	Km 140.8 Pte Rio Ostional				
		4,800	311	55.6	
3	Km 136 Ruento rio Nacascolo				
		3,000	242	44.6	
4	Km 133 Rio Stateresa				
		10,800	539	72.1	
5	Interseccion Sn Juan Del Sur (La Virgen)				
		10,500	465	81.3	
6	Rivas Km 112				
7					
TOTAL		31,400	1,729	65.4	

Vehicle Speed Survey

Route No. 10

Start Time: 10:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Sapoa Interseccion Al Ostional				
		2,300	128	64.7	
2	Km 140.8 Pte Rio Ostional				
		4,800	342	50.5	
3	Km 136 Ruento rio Nacascolo				
		3,000	435	24.8	
4	Km 133 Rio Stateresa				
		10,800	439	88.6	
5	Interseccion Sn Juan Del Sur (La Virgen)				
		10,500	534	70.8	
6	Rivas Km 112				
7					
TOTAL		31,400	1,878	60.2	

Vehicle Speed Survey

Route No. 10

Start Time: 17:00

Survey Date: 1993.4.21 Direction: To Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Sapoa Interseccion Al Ostional				
		2,300	127	65.2	
2	Km 140.8 Pte Rio Ostional				
		4,800	351	49.2	
3	Km 136 Ruento rio Nacascolo				
		3,000	200	54.0	
4	Km 133 Rio Stateresa				
		10,800	660	58.9	
5	Interseccion Sn Juan Del Sur (La Virgen)				
		10,500	530	71.3	
6	Rivas Km 112				
7					
TOTAL		31,400	1,868	60.5	

Vehicle Speed Survey

Route No. 10

Start Time: 7:29

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Rivas Km 112				
2	Interseccion Sn Juan Del Sur (La Virgen)	10,500	528	71.6	
3	Km 133 Rio Stateresa	10,800	680	57.2	
4	Km 136 Ruento rio Nacascolo	3,000	309	35.0	
5	Km 140.8 Pte Rio Ostional	4,800	563	30.7	
6	Sapoa Interseccion Al Ostional	2,300	136	60.9	
7					
T O T A L		31,400	2,216	51.0	

Vehicle Speed Survey

Route No. 10

Start Time: 10:35

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Rivas Km 112				
2	Interseccion Sn Juan Del Sur (La Virgen)	10,500	541	69.9	
3	Km 133 Rio Stateresa	10,800	659	59.0	
4	Km 136 Ruento rio Nacascolo	3,000	183	59.0	
5	Km 140.8 Pte Rio Ostional	4,800	343	50.4	
6	Sapoa Interseccion Al Ostional	2,300	252	32.9	
7					
T O T A L		31,400	1,978	57.1	

Vehicle Speed Survey

Route No. 10

Start Time: 17:42

Survey Date: 1993.4.21 Direction: From Managua

No.	Check Points	Distance (m)	Time (Sec)	Travel time (km/h)	Remarks
1	Rivas Km 112				
2	Interseccion Sn Juan Del Sur (La Virgen)	10,500	680	55.6	
3	Km 133 Rio Stateresa	10,800	651	59.7	
4	Km 136 Ruento rio Nacascolo	3,000	174	62.1	
5	Km 140.8 Pte Rio Ostional	4,800	426	40.6	
6	Sapoa Interseccion Al Ostional	2,300	172	48.1	
7					
T O T A L		31,400	2,103	53.8	