

Friday, 19 March 2010

Waimakariri District Council
Private Bag 1005
RANGIORA 7440

Attention: Simon Markham

TRANSMITTAL: **EMAIL**
simon.markham@wmk.govt.nz

Dear Simon

RANGIORA TOWN CENTRE 2020 PROJECT
PEDESTRIAN SURVEY: HIGH STREET

As per your instructions, Abley Transportation Consultants Limited (Abley) organised a survey of pedestrian activity on High Street in Rangiora. This letter provides a summary of the key observations. The raw survey data is attached to allow for further interrogation by Council and other parties.

Survey Method

The pedestrian activity survey was conducted on Wednesday 10 March 2010 by five surveyors positioned along High Street between the hours of 10:00am and 2:00pm, with levels of pedestrian activity recorded in blocks of 30 minutes. The survey period is acknowledged to capture the typical peak pedestrian activity time within the town centre.

Surveyors recorded the directional movement of all pedestrians crossing cordons at specified locations as well as all movements into and out of side streets and laneways. A pedestrian cordon is an imaginary line drawn perpendicular to High Street. Any pedestrian crossing the cordon was recorded, including their direction and the side of the street on which they were walking. The pedestrian cordon provides a measure of pedestrian activity along High Street.

Road crossings at formal pedestrian facilities and other locations was also recorded. Mobility impaired pedestrians and people with prams were noted separately.

Each surveyor was located near the following intersections on High Street:

- ✓ The intersection of High Street and Durham Street;
- ✓ The intersection of High Street and Percival Street;
- ✓ The intersection of High Street and the Good Street laneway;
- ✓ The intersection of High Street and Victoria Street; and
- ✓ Red Lion Corner.

Survey Findings

Some key findings and observations from the survey include:

- ✓ The peak level of pedestrian activity occurs near Good Street with over 2,000 pedestrian movements recorded crossing the cordon during the 4 hour survey.
- ✓ The level of pedestrian activity at Durham Street and Red Lion Corner is less than half that in the centre of High Street (Percival Street to Victoria Street).
- ✓ There were nearly 3,000 pedestrian crossings of High Street recorded during the 4 hour survey (excluding the crossings of Ashley Street and Ivory Street at Red Lion Corner).
- ✓ Around 12% of all pedestrian crossings occur away from formal pedestrian facilities.
- ✓ Over 5% of all pedestrian movements are made by people with mobility impairments or people with prams.
- ✓ Pedestrian activity is evenly distributed between the north and south side of High Street.
- ✓ Many pedestrians were observed to climb over the chain and bollard type pedestrian fencing at Red Lion Corner. The solid pedestrian fencing is more effective at directing people to cross at safer locations.
- ✓ The seating along High Street receives good levels use and provides pleasant resting locations for pedestrians especially older persons.

If you have any questions regarding the survey methodology or results then please do not hesitate to contact us

Regards,

Abley Transportation Consultants Limited



Paul Durdin

Director

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Cordon Locations



Results Summary for Pedestrian Survey
Wednesday, 10 March 2010, 10am - 2pm

Location 1 High / Durham intersection

Time	Cordon North		Cordon South		Durham St		Zebra Crossing 1 *		Other
	Westbound	Eastbound	Westbound	Eastbound	In	Out	Northbound	Southbound	
	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	
10:00	14 1	14 1	37 1 1	33 3	14 1	32 1	11	14 1 1	7
10:30	16	14	34 1	32 1	22	26	11	16 1	
11:00	37 2 1	35 1 1	34	48 1 1	18 1	29 2	14 2	18 1 1	5
11:30	22 2	36 3	38 3 2	33 2	29 1	30 1	27 1 1	19 2	14
12:00	45 1 1	27 1	46	53	45	48	23	37	8
12:30	30 1 1	24 1	38 1 3	33 3	28	41 1	30 2	24 2	6
13:00	24 1	18 1	32 2	27 3 2	27 1	35 1	18 1	31 1	9
13:30	19	16 1	28 1 3	29	26 1	34 1	11 1	24 2	8
Total	207	184	287	288	209	275	145	183	57

Location 2 High / Percival intersection

Time	Cordon North		Cordon South		Zebra Crossing 2 *		Laneway 1 *		Laneway 2 *		Percival St		Other
	Westbound	Eastbound	Westbound	Eastbound	Northbound	Southbound	In	Out	In	Out	In	Out	
	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	
10:00	47 1 6	73 2	44 1	50 2 2	25	35 2	4	6	1	7	14 1 1	38	14
10:30	34 2	44 4 1	59 1 1	68 1 2	38 2 4	38 2 3	4 1	6	2	3	37 1 3	68 3 4	15
11:00	68 4 1	70 3 1	65 1 2	51 3 2	36 3 1	26 3 1	2	6 1	1	5	21 2 1	36 3 1	16
11:30	60 3	60 3	60 1 3	70 2 5	51 2	27	4	5	6	7	21 1	42 1 2	29
12:00	68 1 2	91 1 1	67 3 1	74 1 1	47 1	36 1	2	1	5	10	21	33 1 1	1
12:30	67 2 2	72 1 3	69 2 5	77 1 5	42 1	24 1	2	9	5	10	35 2	54 3	3
13:00	92 1	57 4	43 1 2	53 3 2	34 2 2	48 1	4	5	5	3	39 1	38 3 3	5
13:30	67 2	46 1 1	58 2 2	84 5 4	33 1	42 1 5	2	9	1	2	30 2	25 1 1	3
Total	503	513	465	527	306	276	24	47	26	47	218	334	86

Location 3 High / Good intersection

Time	Cordon North		Cordon South		Good St		Laneway 3 *		Zebra Crossing 3 *		Other
	Westbound	Eastbound	Westbound	Eastbound	In	Out	In	Out	Northbound	Southbound	
	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	Total M P	
10:00	40 2 2	54 1	39 1 2	64 2 4	24 1	46 1	4	2	17 1 1	22 1	3
10:30	54 1	44 3	59 3 2	103 2 1	44	41 1	0	3	41 1 1	37 1 2	5
11:00	38 1 1	63 3 4	47 1 1	84 5 1	45 1 3	53 2 2	0	1	26 2 1	31 4 1	6
11:30	54 2	76 2	62 1 4	77 3 3	44 3	58 2	2	2	34 2 3	38 1 1	3
12:00	67 2	78 1 3	62 2	88 1 2	59 2	46 2	0	1	30	34 1 1	4
12:30	54 1 1	62 1	76 1 3	80 1 3	61 1	71 4	0	0	45 1 2	59 1 4	3
13:00	72 2	49 1	63 6	77 1 1	39 1 1	69 2	0	0	48 1 2	38 3	2
13:30	64 2 2	38 1	63 1	88 3 5	51 1	57 1 1	3	2	41 3 2	44 1 2	5
Total	443	464	471	661	367	441	9	11	282	303	31

Results Summary for Pedestrian Survey
Wednesday, 10 March 2010, 10am - 2pm

Location 4 High / Victoria intersection

Time	Cordon North			Cordon South			Victoria St		Zebra Crossing 4 *		Other														
	Westbound	Eastbound		Westbound	Eastbound		In	Out	Northbound	Southbound															
	Total	M	P	Total	M	P	Total	M	P	Total		M	P												
10:00	48	2		64	1	3	33	1		58	1		63	2	3	48	3	4	34	1	2	27	1		5
10:30	48	1		55			49	3	1	49	4	1	40	4	3	36	2	2	32	1	1	22	1		7
11:00	39	1		86	2	3	39	1		57	4		38	3		32	2	1	51	2	1	35	1		7
11:30	62			92	1	3	40	1	1	48	1		22	1		34	2	1	43	1		52	2	3	6
12:00	78	1		92	1	2	44	3	1	58	2		45			47	1		70	2		56	1		7
12:30	49	1	1	85	3		48	2		89	4		31			34			40			43			6
13:00	73	1		79	3		60	4		53			25	1		31	1		42			51	1		5
13:30	59	1		85	2	1	40	2		64	5		16			26			44			45	1	1	3
Total	456			638			353			476			280			288			356			331			46

Location 5 Red Lion Corner

Time	Cordon North			Cordon South			A *		B *		C *		D *		Other																	
	Westbound	Eastbound		Westbound	Eastbound		Westbound	Eastbound	Westbound	Eastbound	Westbound	Eastbound	Northbound	Southbound																		
	Total	M	P	Total	M	P	Total	M	P	Total	M	P	Total	M		P																
10:00	38	2		43	1	4	7	1	2	17	1		18	3	1	3	5	2		2			6	1	1	6	15	3	12	1	11	
10:30	20			34	2		28	2	2	20	2	1	20	1		15			20	2	1	17	1		3	3	1	1	8	1	7	
11:00	22	1		33	1	2	15	1		25	3		14	2		26	1	2	14			8	1		5	6	1	1	11	10	1	13
11:30	23	3	2	25	1		35	1		31	1	1	15	1	1	17	1		19	1		11	1		6	8			10	12	2	19
12:00	28	1		38	1		22	2		18	1		20	2	2	24	1		20	1	1	7			8	1	9	1	9	14	12	
12:30	30			38	1	2	28	1		29	1		22	1		28	2		20	1		8			5	6	1	1	10	1	12	17
13:00	19			25			25	1	1	25	1	1	13	2		16			10			12	1		5	5			7	20	4	11
13:30	31	1	1	37	1		28	1	3	35	3		21	1	1	27			22	1	1	13			9	2	17	1	17	18	1	7
Total	211			273			188			200			143			188			130			78			47	60			87	105		102

NB. "In" is into the lane/street and "out" is out of the lane/st onto High St

"Other" refers to other crossings of High Street which did not occur at formal crossing points.

'M' refers to mobility impaired pedestrians.

'P' refers to people with prams

* Refer to map for exact locations