

Table 5: Non Event Arrival On Greens

Intersection	Scenario	AM PEAK				OFF PEAK				PM PEAK			
		EBT	NBT	SBT	WBT	EBT	NBT	SBT	WBT	EBT	NBT	SBT	WBT
103A Ave	Before	76.9%	47.5%	67.2%	37.3%	54.1%	41.8%	54.1%	39.3%	66.4%	37.0%	40.4%	40.9%
	After	49.1%	42.0%	44.7%	37.3%	48.8%	36.1%	40.0%	38.3%	47.4%	45.6%	41.1%	34.9%
105 Ave	Before	16.9%	59.8%	54.9%	-	15.4%	65.3%	76.5%	-	19.6%	73.1%	76.3%	-
	After	18.2%	76.9%	81.6%	-	11.2%	85.4%	85.9%	-	20.5%	75.9%	81.5%	-
105A Ave	Before	-	90.6%	86.3%	-	-	87.3%	87.8%	-	-	87.6%	92.1%	-
	After	-	95.0%	93.3%	-	-	93.4%	93.7%	-	-	88.7%	90.7%	-
106 Ave	Before	18.6%	63.3%	73.8%	18.9%	19.5%	61.9%	76.9%	23.9%	22.7%	81.3%	77.7%	18.5%
	After	18.5%	87.2%	75.5%	17.7%	16.2%	83.1%	76.0%	16.1%	17.8%	82.7%	75.5%	15.9%
107A Ave	Before	-	-	70.7%	62.2%	33.9%	71.0%	74.9%	38.5%	62.1%	54.6%	70.5%	29.0%
	After	56.3%	68.7%	68.4%	45.5%	55.5%	65.3%	67.5%	40.3%	68.6%	66.1%	66.5%	42.1%
108 Ave	Before	-	93.0%	90.6%	-	-	95.8%	95.3%	-	-	95.6%	92.9%	-
	After	-	94.0%	90.5%	-	-	96.5%	95.9%	-	-	96.5%	93.8%	-
Kingsway	Before	30.1%	70.9%	46.7%	24.6%	28.5%	73.1%	42.7%	26.9%	28.9%	70.7%	38.6%	28.2%
	After	27.7%	73.2%	61.8%	24.9%	24.2%	77.4%	60.0%	24.8%	25.2%	71.7%	48.6%	25.7%
110 Ave	Before	-	-	74.1%	-	-	88.9%	78.5%	-	-	71.9%	80.8%	-
	After	-	78.4%	80.6%	-	-	83.6%	85.8%	-	-	81.8%	82.8%	-

## Smart Traffic Signal Pilot Results

111 Ave	Before	46.3%	51.9%	26.3%	80.3%	58.7%	32.5%	20.5%	83.0%	52.3%	32.2%	22.2%	85.4%
	After	38.7%	37.9%	27.8%	67.1%	51.2%	34.9%	23.1%	66.9%	51.6%	41.7%	25.7%	70.3%
Increased arrivals on green Decreased arrivals on green													

Table 6: 1 Hour after Event Arrival On Greens

Intersection	Scenario	Major Event				Minor Event			
		EBT	NBT	SBT	WBT	EBT	NBT	SBT	WBT
103A Ave	Before	55.5%	34.3%	41.1%	43.0%	51.3%	46.2%	53.8%	50.2%
	After	44.9%	38.5%	44.3%	37.4%	46.3%	36.6%	37.6%	40.1%
105 Ave	Before	18.6%	76.1%	80.0%	-	18.8%	70.4%	79.8%	-
	After	18.7%	82.8%	79.2%	-	25.3%	82.1%	80.5%	-
105A Ave	Before	-	92.5%	96.8%	-	-	96.3%	98.4%	-
	After	-	92.6%	94.0%	-	-	97.7%	97.9%	-
106 Ave	Before	21.1%	74.0%	70.2%	21.3%	19.3%	65.6%	74.0%	19.8%
	After	18.4%	72.9%	69.2%	17.5%	16.2%	81.2%	72.6%	4.5%
107A Ave	Before	55.7%	61.1%	59.9%	40.4%	61.2%	67.9%	82.5%	32.6%
	After	53.6%	64.7%	72.9%	32.2%	45.1%	64.4%	54.7%	36.7%
108 Ave	Before	-	97.0%	98.0%	-	-	99.7%	99.5%	-

	After	-	96.5%	98.6%	-	-	96.4%	95.4%	-
Kingsway	Before	20.9%	69.5%	49.0%	17.5%	33.3%	79.5%	41.0%	12.3%
	After	17.8%	78.9%	53.9%	15.0%	24.2%	82.6%	70.5%	28.8%
110 Ave	Before	-	92.8%	91.9%	-	-	98.7%	98.7%	-
	After	-	94.4%	95.4%	-	-	96.8%	99.3%	-
111 Ave	Before	69.7%	34.9%	20.2%	86.4%	69.0%	30.0%	25.2%	84.8%
	After	38.7%	37.9%	27.8%	67.1%	51.2%	34.9%	23.1%	66.9%
Increased arrivals on green Decreased arrivals on green									

Table 7: Non Event Pedestrian Delays (s)

Movement	Scenario	EBT			NBT			SBT			WBT		
		AM	OFF	PM	AM	OFF	PM	AM	OFF	PM	AM	OFF	PM
103A Ave	Before	-	-	-	51.6	50.5	61.0	47.2	51.0	61.9	52.9	48.8	56.2
	After	55.4	41.4	57.9	64.0	-	64.6	58.4	-	63.5	56.1	50.3	61.6
105 Ave	Before	38.4	41.4	49.3	23.4	18.0	18.1	20.0	21.0	19.7	42.4	43.5	42.6
	After	48.3	49.6	49.3	26.4	-	19.7	17.5	-	15.9	50.0	52.1	45.5
105A Ave	Before	41.7	22.6	44.5	-	-	-	-	-	-	-	-	-
	After	56.2	49.6	52.2	-	-	-	-	-	-	-	-	-

# Smart Traffic Signal Pilot Results

106 Ave	Before	39.2	43.6	52.4	11.8	15.4	15.8	13.1	16.4	20.1	41.1	44.3	50.5
	After	51.4	51.4	50.8	11.4		12.4	18.7		19.8	48.9	51.2	53.1
107A Ave	Before	-	-	-	-	-	-	17.2	21.0	24.0	46.4	47.2	50.7
	After	-	-	-	-	-	-	19.7	-	27.9	46.8	49.3	51.2
108 Ave	Before	52.8	51.0	56.8	-	-	-	-	-	-	-	-	-
	After	62.4	58.8	63.5	-	-	-	-	-	-	-	-	-
Kingsway	Before	47.5	42.7	51.3	19.9	24.5	17.6	32.7	35.3	41.0	43.6	46.0	55.2
	After	51.6	50.2	45.9	18.9		15.6	33.0		34.3	51.9	54.4	53.9
110 Ave	Before	-	-	-	-	-	-	-	-	-	36.2	30.5	41.7
	After	-	-	-	-	-	-	-	-	-	54.0	48.2	49.4
111 Ave	Before	30.8	24.0	25.4	49.9	43.2	50.6	42.9	49.2	50.9	12.4	14.3	16.1
	After	34.3	31.1	28.1	57.1		51.7	50.5		56.6	17.8	19.6	16.4
Decreased delay Increased delay													

Table 8: Non Event Vehicle Delays (s)

Intersection	Scenario	AM PEAK								OFF PEAK								PM PEAK							
		EBLT	EBT	NBLT	NBT	SBLT	SBT	WBLT	WBT	EBLT	EBT	NBLT	NBT	SBLT	SBT	WBLT	WBT	EBLT	EBT	NBLT	NBT	SBLT	SBT	WBLT	WBT
103A Ave	Before	64.7	7.4	2.0	16.3	27.7	9.2	30.4	22.2	58.3	14.9	19.1	15.4	40.3	14.0	18.2	19.9	85.9	9.8	29.9	23.2	22.5	23.8	23.2	21.8

# Smart Traffic Signal Pilot Results

	After	59.0	21.1	17.8	21.1	38.8	18.1	33.6	29.1	56.4	16.5	21.1	22.6	40.1	20.4	18.8	23.7	75.7	19.6	23.6	20.0	21.1	20.9	31.4	32.7
105 Ave	Before	-	21.6	11.3	6.6	11.5	8.0	-	10.2	-	17.5	5.9	4.5	0.0	3.1	-	8.3	-	21.9	6.2	3.5	0.0	3.8	-	19.4
	After	-	26.1	6.4	3.9	10.1	3.0	-	17.1	-	22.7	1.1	2.6	0.1	2.5	-	8.3	-	24.2	2.8	3.9	0.0	3.4	-	20.2
105A Ave	Before	-	-	-	1.6	-	3.2	-	-	-	-	-	2.1	-	1.9	-	-	-	-	-	1.7	-	1.4	-	-
	After	-	-	-	0.8	-	1.0	-	-	-	-	-	1.1	-	1.1	-	-	-	-	-	1.8	-	1.7	-	-
106 Ave	Before	-	18.9	3.3	5.6	-	3.2	-	26.0	-	21.2	6.6	4.7	-	3.4	-	20.4	-	27.3	8.1	3.1	-	4.2	-	30.0
	After	-	20.5	5.8	1.7	-	4.4	-	29.8	-	22.4	5.7	2.3	-	4.5	-	31.4	-	32.3	7.3	2.2	-	5.2	-	37.4
107A Ave	Before	-	0.0	-	0.0	-	5.6	-	9.9	-	6.4	-	2.8	-	5.5	-	17.6	-	9.9	-	14.6	-	7.0	-	26.3
	After	-	15.3	-	7.9	-	7.0	-	19.0	-	14.4	-	8.4	-	7.7	-	24.4	-	11.5	-	10.1	-	8.1	-	25.2
108 Ave	Before	-	-	-	1.2	-	1.2	-	-	-	-	-	0.7	-	0.6	-	-	-	-	-	0.7	-	1.0	-	-
	After	-	-	-	1.0	-	1.2	-	-	-	-	-	0.8	-	0.5	-	-	-	-	-	0.8	-	1.1	-	-
Kingsway	Before	-	18.8	12.2	5.5	-	14.8	-	16.4	-	19.5	12.8	4.8	-	16.7	-	17.7	-	22.9	14.3	5.2	-	21.9	-	23.0
	After	-	30.5	12.8	4.6	-	9.9	-	20.0	-	29.4	13.4	4.3	-	11.7	-	20.6	-	33.5	16.4	5.7	-	16.4	-	21.7
110 Ave	Before	-	-	-	0.0	-	4.0	-	-	-	-	-	1.1	-	3.3	-	-	-	-	-	4.4	-	3.3	-	-
	After	-	-	-	5.0	-	2.7	-	-	-	-	-	3.6	-	2.4	-	-	-	-	-	4.2	-	3.0	-	-
111 Ave	Before	-	14.4	36.8	16.7	-	24.5	27.6	2.8	-	10.4	49.5	26.4	-	22.8	15.9	2.4	-	14.5	68.2	24.2	-	29.2	29.7	2.3
	After	-	20.8	36.9	23.6	-	26.2	21.7	7.7	-	14.7	37.7	24.7	-	27.6	16.2	7.3	-	20.3	40.7	24.9	-	30.5	32.9	7.4
Decreased delay Increased delay																									

Table 9: 1 Hour After Event Vehicle Delays (s)

Intersection	Scenario	Major Event								Minor Event							
		EBLT	EBT	NBLT	NBT	SBLT	SBT	WBLT	WBT	EBLT	EBT	NBLT	NBT	SBLT	SBT	WBLT	WBT
103A Ave	Before	50.3	11.9	21.9	18.1	21.4	26.0	34.8	18.3	44.5	12.7	13.5	14.1	21.7	17.2	7.9	16.2
	After	49.8	14.6	26.1	11.8	28.3	23.5	23.6	18.0	40.1	16.0	16.7	12.1	32.7	28.7	32.2	22.0
105 Ave	Before	-	29.4	27.1	5.3	18.6	5.9	-	19.1	-	22.0	0.0	3.8	0.0	1.6	-	8.9
	After	-	37.8	12.1	3.1	18.7	3.7	-	17.7	-	46.4	11.8	4.1	3.1	4.8	-	24.6
105A Ave	Before	-	-	-	1.0	-	1.4	-	-	-	-	-	0.8	-	0.7	-	-
	After	-	-	-	0.6	-	1.5	-	-	-	-	-	0.8	-	1.0	-	-
106 Ave	Before	-	27.6	7.5	3.7	-	4.7	-	20.1	-	19.0	4.4	3.0	-	3.9	-	19.3
	After	-	18.3	8.0	3.6	-	6.3	-	26.1	-	21.9	8.0	4.0	-	6.4	-	28.0
107A Ave	Before	-	10.4	-	9.0	-	6.9	-	19.4	-	8.7	-	8.8	-	4.9	-	19.0
	After	-	15.7	-	9.0	-	6.0	-	21.7	-	8.5	-	12.5	-	8.4	-	20.3
108 Ave	Before	-	-	-	0.5	-	0.4	-	-	-	-	-	0.0	-	0.8	-	-
	After	-	-	-	0.0	-	0.0	-	-	-	-	-	0.0	-	0.0	-	-
Kingsway	Before	-	42.6	5.6	3.6	-	11.0	-	33.8	-	14.3	4.2	4.0	-	11.0	-	10.2
	After	-	18.2	4.5	2.5	-	11.9	-	18.5	-	19.5	4.4	2.4	-	15.9	-	18.1
110 Ave	Before	-	-	-	1.2	-	2.1	-	-	-	-	-	1.3	-	2.2	-	-
	After	-	-	-	0.7	-	0.6	-	-	-	-	-	0.0	-	0.0	-	-

## Smart Traffic Signal Pilot Results

111 Ave	Before	-	9.7	69.5	21.8	-	26.1	26.3	2.6	-	6.4	2.8	10.4	-	15.7	7.9	2.1
	After	-	9.5	38.9	28.5	-	20.3	13.9	6.0	-	11.8	38.6	31.3	-	19.8	15.1	7.3
Decreased delay Increased delay																	

### Analysis Dates

#### Non-Event Dates

Before: Sept 9, 10,11, 12, 13

After: Nov 22, Dec 02, 09, Jan 21,30

AM-Peak: 6:30-9:00

PM-Peak:15:30-18:30

Off-Peak: 9:00-15:30 and 18:30-23:00

#### Event Dates

Before: Major Event: Oct 24 (Thursday), Sept 20 (Friday)

Minor Event: Nov 1 (Friday)

After: Major Event: Jan 29 (Wednesday), Dec 6 (Friday)

Minor Event: Dec 13 (Friday)