Interpretation and Notes

- The intent of the cycling index is to monitor *relative* changes in cycling activity over time***. The index does not provide an indication of absolute activity levels or modal share***.

- ***The cycling index is calculated using 8-hour traffic count data.*** The 8-hour counts cover the period from 7:00 a.m. to 10:00 a.m., 11:30 a.m. to 1:30 p.m., and 3:00 p.m. to 6:00 p.m. The traffic counts typically take place on weekdays during the spring and summer. Since the counts do not provide data on evening or weekend travel, ***the cycling index primarily captures utilitarian cycling trips; recreational trips may be significantly under-represented***.

- ***The cycling index is based on traffic count data, and as such, is subject to uncertainty***. Traffic counts are influenced by a large number of factors, including economic conditions, weather, special events, traffic incidents, etc. A particular traffic count presents a snapshot of what occurred on one particular day of the year, and may therefore not be representative of overall conditions. While an attempt was made to mitigate the uncertainty inherent in traffic count data (i.e. by selecting an appropriate sample size and by calculating a condition rating to indicate the "quality" of the data with regards to weather and road closures), certain limitations remain.

- ***The cycling index for a particular two-year period should be viewed as part of a longer-term trend***. Given the uncertainty in traffic count data, it is generally not appropriate to examine the change in cycling activity from one period to the next. Instead, the change should be considered over a longer time interval to minimize the impact of anomalies.

- ***The cycling index is based on traffic count data that is primarily collected at signalized intersections,*** reflecting data availability considerations. Given this bias, the index may not provide a good indication of shorter cycling trips within residential neighbourhoods. Cycling activity on off-road paths may also be under-represented.

- ***The cycling index does not capture activity in rural areas***, due to a lack of traffic count data for these locations.

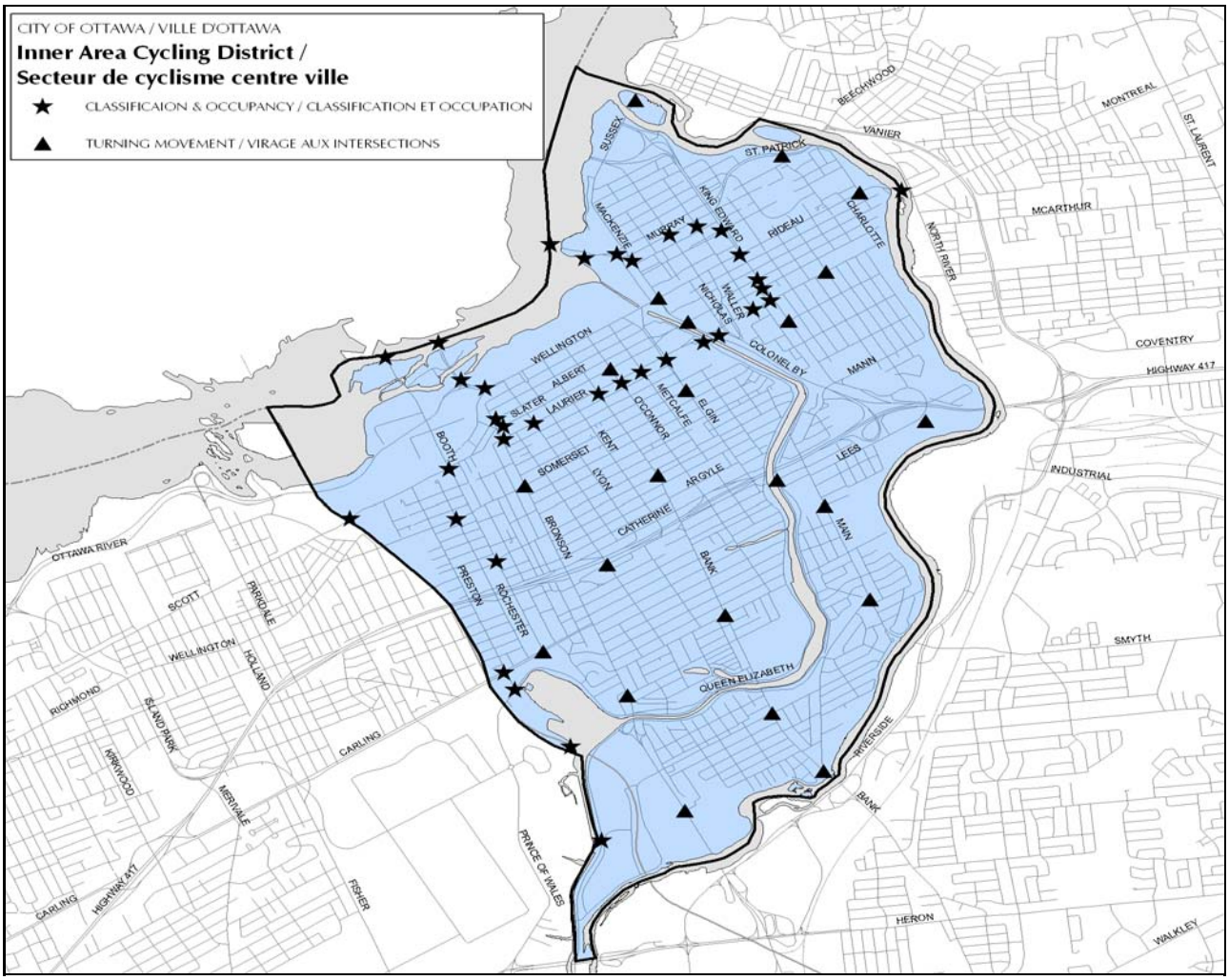
Calculation of the Cycling Index

The index calculation process essentially follows a few simple steps. For each count station included in the index:

1. The traffic count data for each unique count date is summarized and assigned a ranking from one to three based on the perceived quality of the data. For example, a count conducted in a good weather with no road closures or construction would receive a ranking of three. A count conducted in rainy weather with road closures and/or construction would receive a lower ranking.
2. The intersection count with the highest ranking for a given year is carried forward for calculating the cycling index.
3. The counts are grouped into overlapping two year intervals (i.e. 1998-1999, 1999-2000).
4. A representative cyclist and vehicle volume is computed for each two year interval. If only one traffic count is available for the two year period, the count is used with no modification. If more than one count is available, the most reliable count is selected based on the percentage change in volume from one year to the next. If the percentage change is small, implying that all counts are reasonably reliable, an average volume is computed.

The representative volumes developed in Step 4 are combined with data for the remaining count locations to form the district-wide cycling index. The index is calculated according to the following relationship:

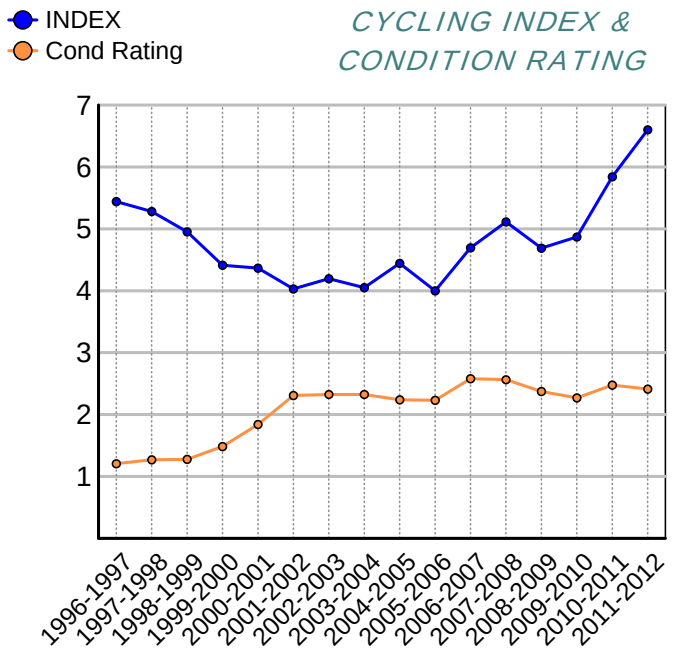
$$\text{Cycling Index} = \frac{\text{Total volume of cyclists observed at selected count stations}}{\text{Total volume of vehicles observed at selected count stations}} \times 100\%$$

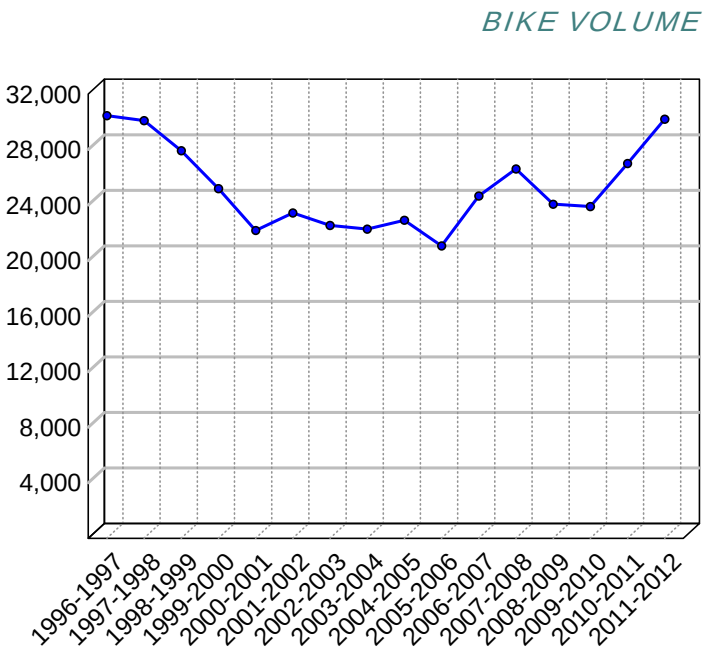


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

Inner Area

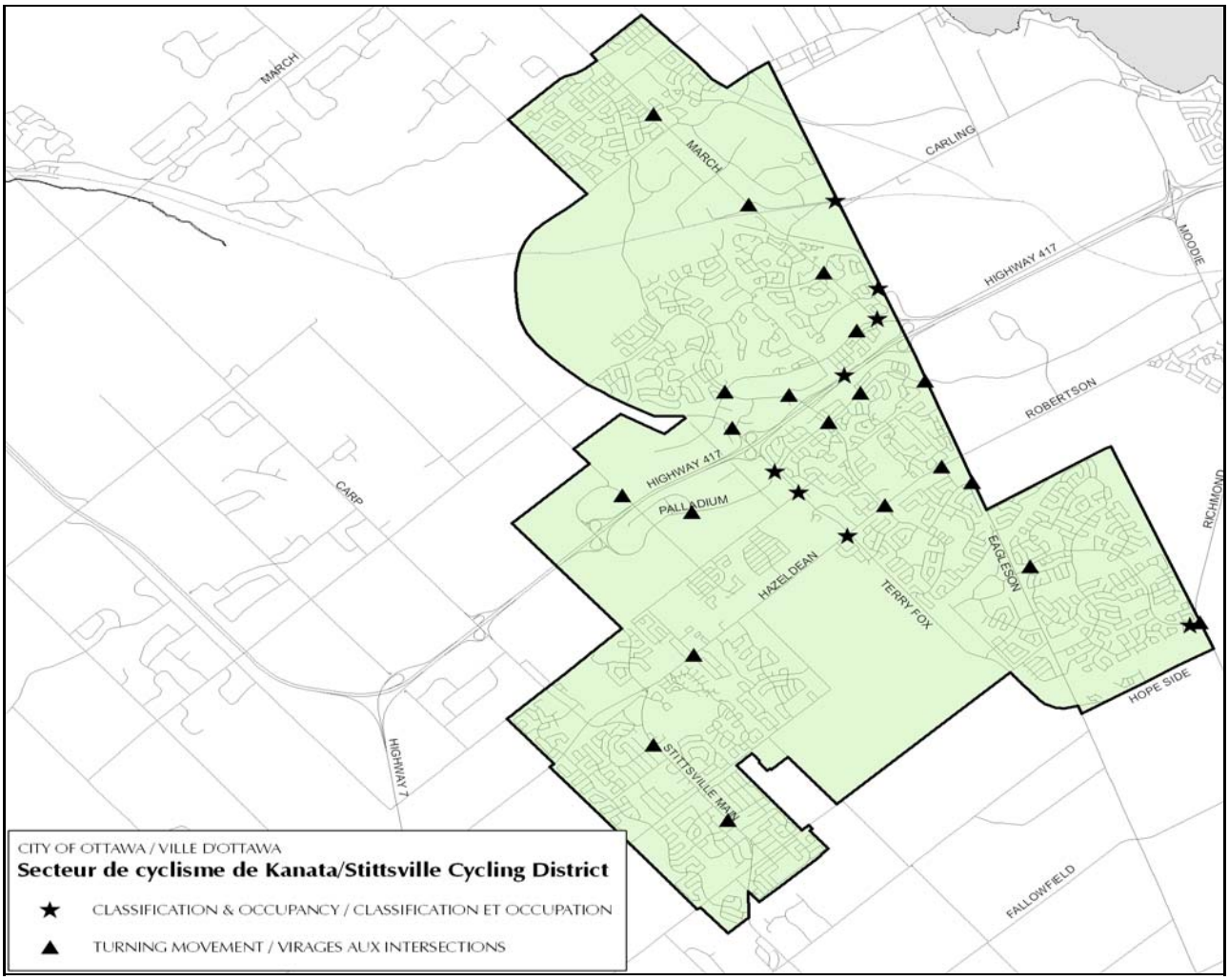
8 HOURS





Year	Total No of Locations: 63			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	46	22	50	457,600	30,190	2.4	6.60
2010-2011	19	46	50	462,300	27,000	2.5	5.84
2009-2010	45	19	53	490,900	23,900	2.3	4.87
2008-2009	33	45	55	513,400	24,070	2.4	4.69
2007-2008	50	33	57	520,300	26,610	2.6	5.11
2006-2007	29	50	56	525,300	24,660	2.6	4.69
2005-2006	46	29	53	526,800	21,070	2.2	4.00
2004-2005	27	46	52	515,700	22,920	2.2	4.44
2003-2004	52	27	53	550,100	22,280	2.3	4.05
2002-2003	34	52	51	537,200	22,540	2.3	4.20
2001-2002	43	34	54	581,600	23,440	2.3	4.03
2000-2001	55	43	53	507,900	22,180	1.8	4.37
1999-2000	54	55	57	571,000	25,190	1.5	4.41
1998-1999	57	54	58	563,800	27,920	1.3	4.95
1997-1998	50	57	58	569,800	30,090	1.3	5.28
1996-1997	55	50	56	559,600	30,450	1.2	5.44

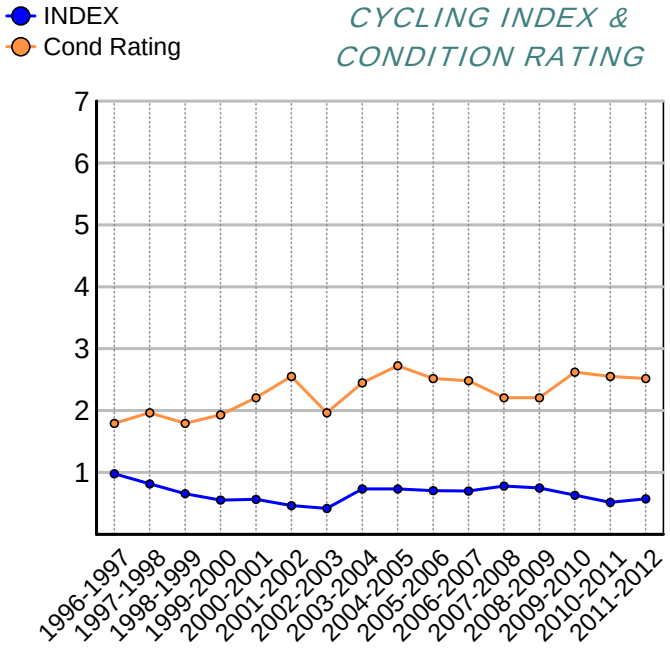
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

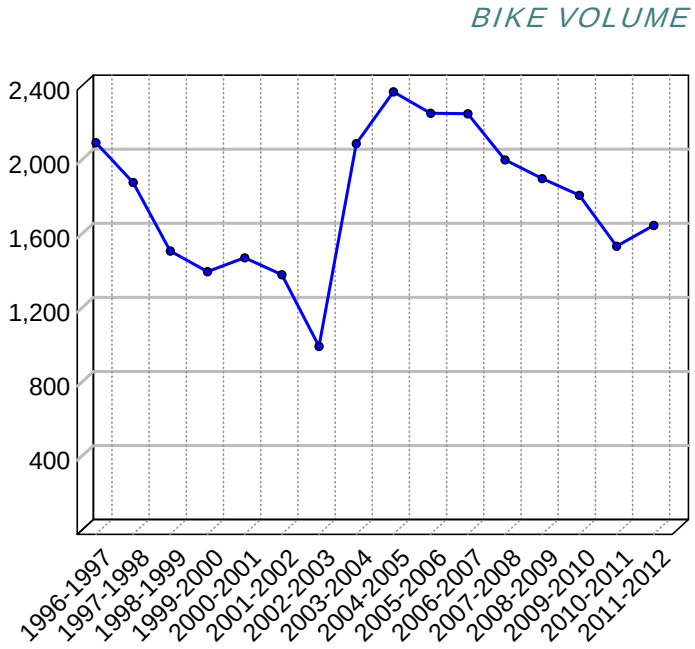


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

Kanata - Stittsville

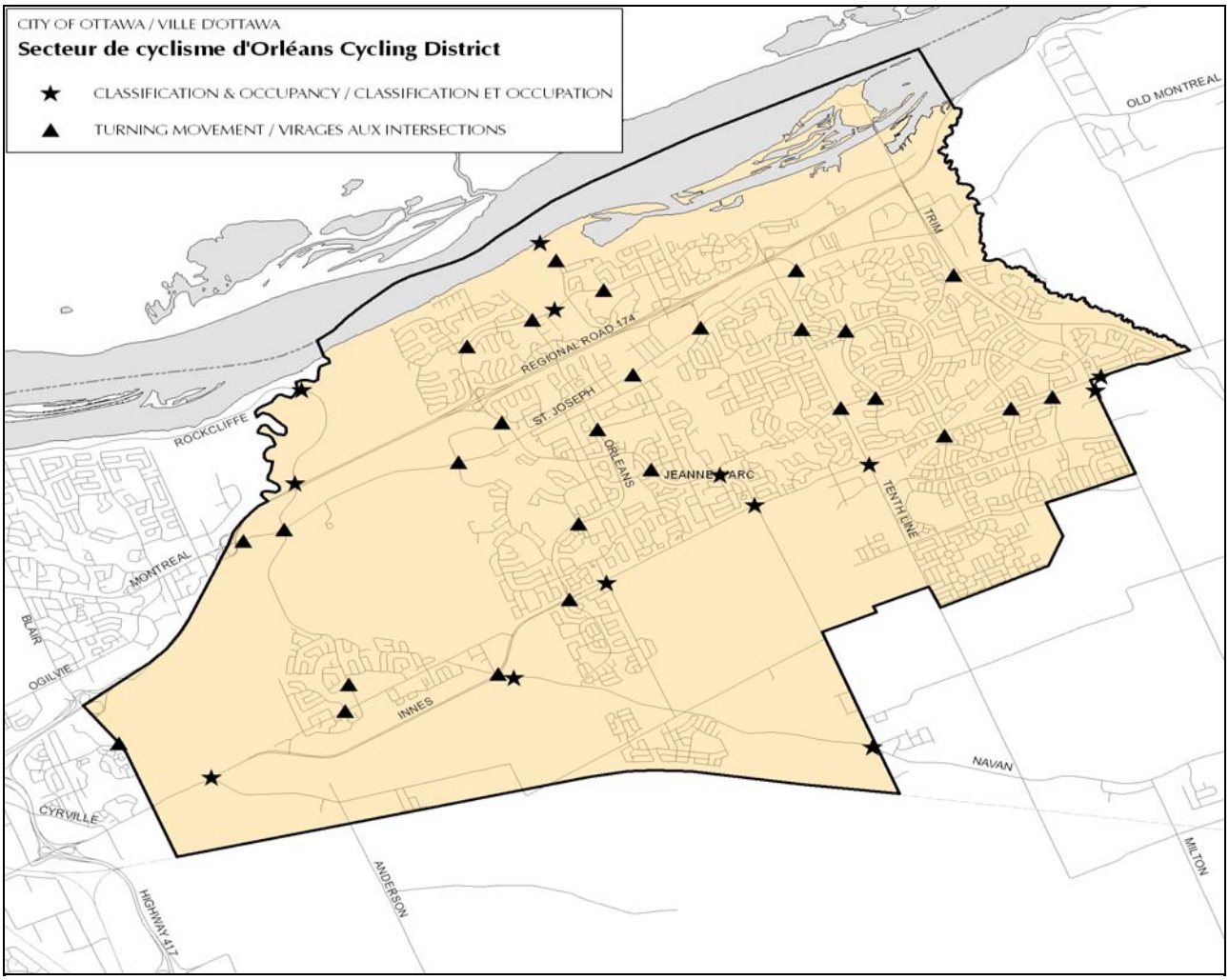
8 HOURS





Year	Total No of Locations: 29			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	14	19	24	290,600	1,670	2.5	0.57
2010-2011	21	14	25	301,200	1,560	2.6	0.52
2009-2010	13	21	24	289,500	1,830	2.6	0.63
2008-2009	18	13	21	256,300	1,920	2.2	0.75
2007-2008	11	18	20	258,900	2,020	2.2	0.78
2006-2007	27	11	26	324,100	2,270	2.5	0.70
2005-2006	6	27	26	321,700	2,280	2.5	0.71
2004-2005	25	6	26	325,300	2,390	2.7	0.73
2003-2004	9	25	24	287,600	2,110	2.4	0.73
2002-2003	16	9	20	242,100	1,020	2.0	0.42
2001-2002	17	16	25	301,700	1,400	2.6	0.46
2000-2001	14	17	23	264,000	1,490	2.2	0.57
1999-2000	17	14	23	255,800	1,420	1.9	0.55
1998-1999	20	17	22	232,600	1,530	1.8	0.66
1997-1998	14	20	22	232,900	1,900	2.0	0.82
1996-1997	17	14	24	215,700	2,120	1.8	0.98

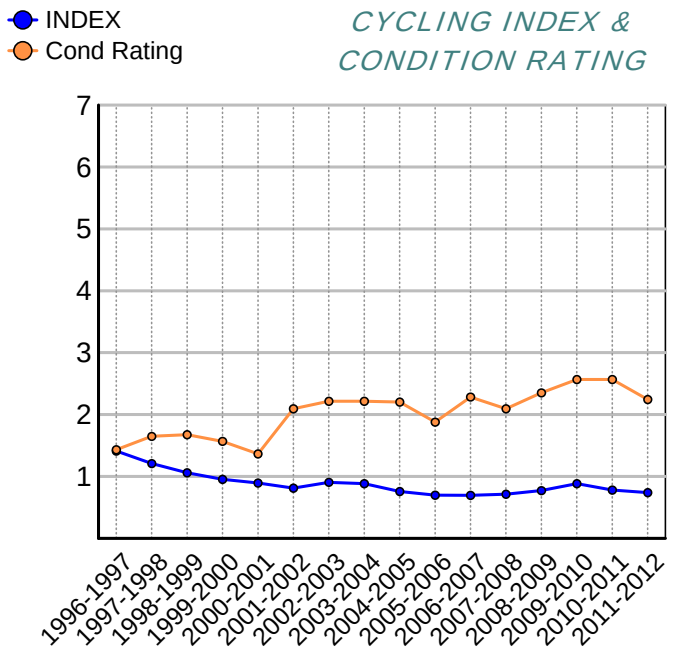
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

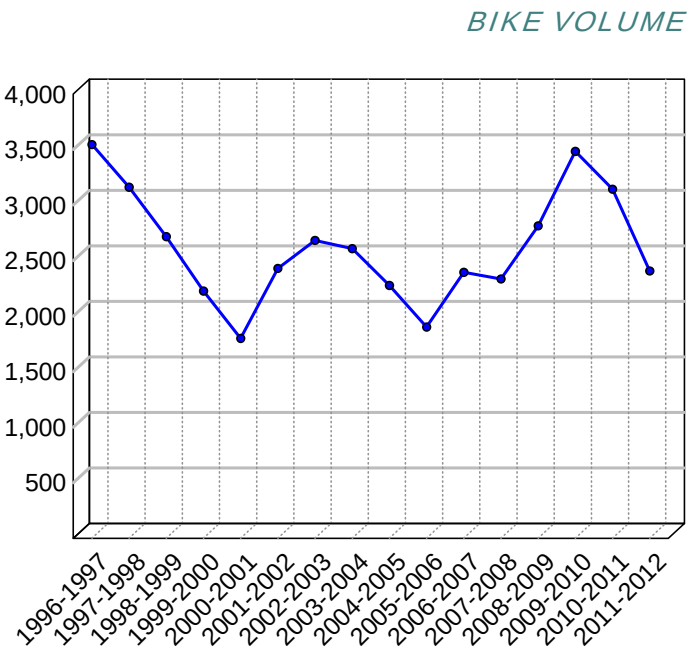


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

Orleans

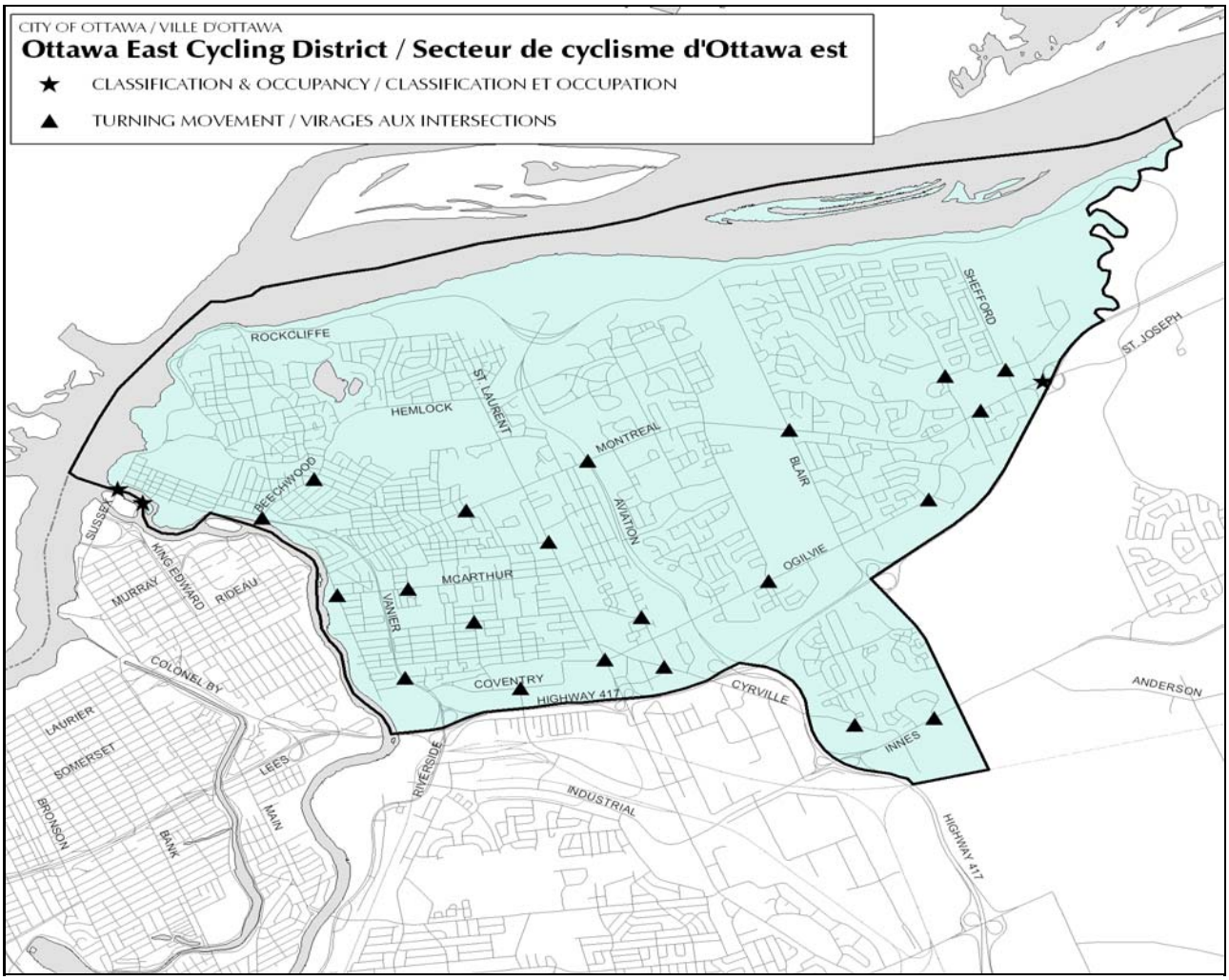
8 HOURS





Year	Total No of Locations: 37			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	21	14	27	325,800	2,410	2.2	0.74
2010-2011	24	21	32	402,400	3,140	2.6	0.78
2009-2010	22	24	32	393,600	3,490	2.6	0.89
2008-2009	20	22	31	364,300	2,810	2.4	0.77
2007-2008	19	20	28	327,000	2,340	2.1	0.71
2006-2007	29	19	32	344,000	2,400	2.3	0.70
2005-2006	15	29	27	272,400	1,900	1.9	0.70
2004-2005	26	15	30	300,900	2,280	2.2	0.76
2003-2004	22	26	29	294,800	2,610	2.2	0.88
2002-2003	19	22	28	296,100	2,680	2.2	0.91
2001-2002	14	19	27	299,500	2,430	2.1	0.81
2000-2001	15	14	20	201,200	1,800	1.4	0.90
1999-2000	20	15	24	233,500	2,230	1.6	0.95
1998-1999	22	20	25	256,300	2,720	1.7	1.06
1997-1998	20	22	25	261,500	3,160	1.6	1.21
1996-1997	29	20	30	251,300	3,550	1.4	1.41

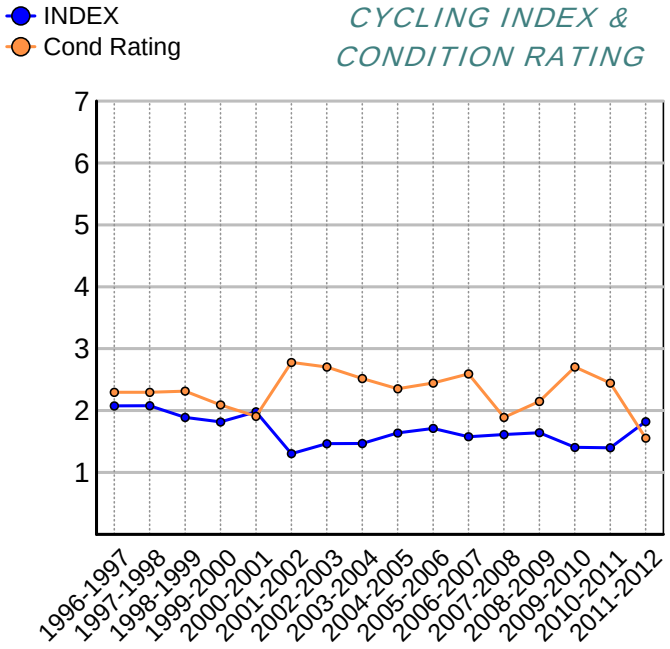
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

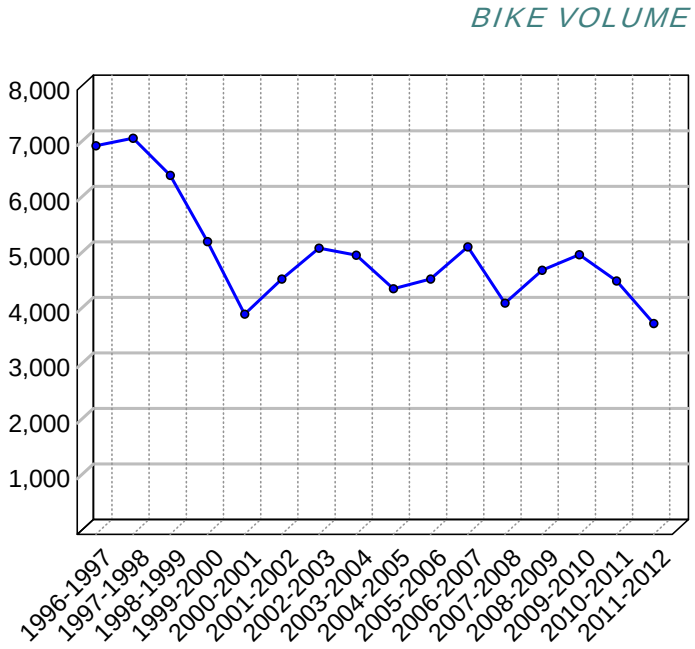


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

Ottawa East

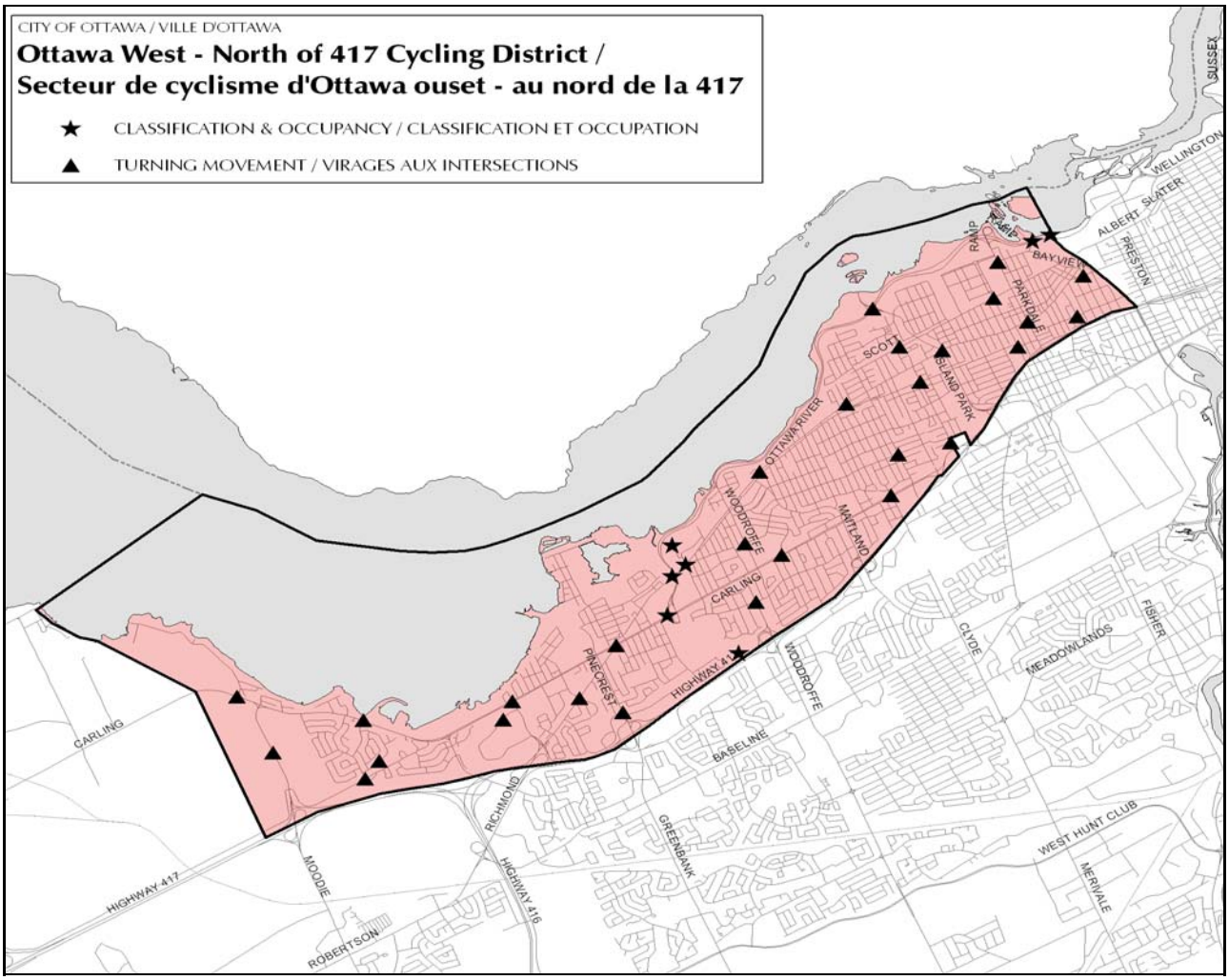
8 HOURS





Year	Total No of Locations: 27			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	13	6	14	208,500	3,800	1.6	1.82
2010-2011	18	13	24	326,000	4,560	2.4	1.40
2009-2010	16	18	27	358,300	5,040	2.7	1.41
2008-2009	12	16	20	289,600	4,760	2.1	1.64
2007-2008	10	12	17	258,000	4,170	1.9	1.61
2006-2007	23	10	25	328,000	5,180	2.6	1.58
2005-2006	18	23	23	268,500	4,600	2.4	1.71
2004-2005	13	18	23	270,100	4,420	2.4	1.64
2003-2004	20	13	24	342,500	5,030	2.5	1.47
2002-2003	14	20	25	351,900	5,160	2.7	1.46
2001-2002	16	14	26	352,600	4,600	2.8	1.30
2000-2001	10	16	19	200,200	3,970	1.9	1.98
1999-2000	20	10	22	290,300	5,270	2.1	1.82
1998-1999	24	20	26	342,000	6,470	2.3	1.89
1997-1998	20	24	27	343,200	7,130	2.3	2.08
1996-1997	19	20	27	337,200	7,000	2.3	2.08

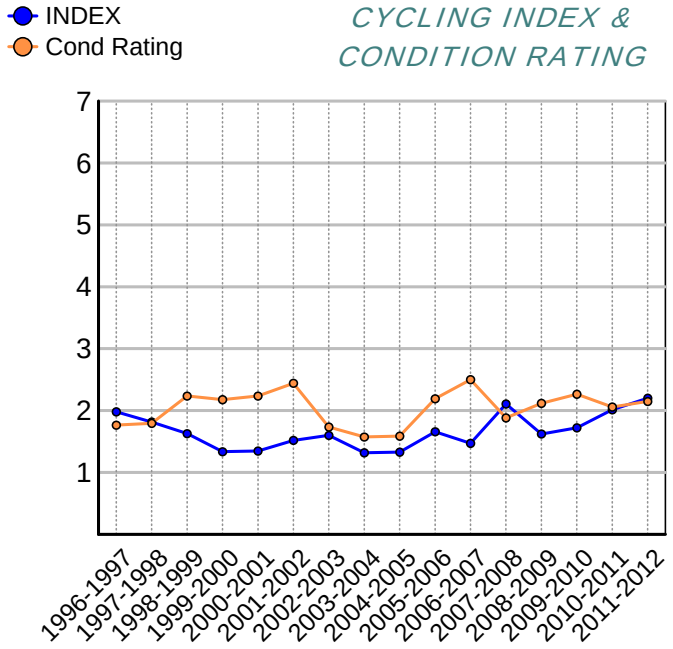
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

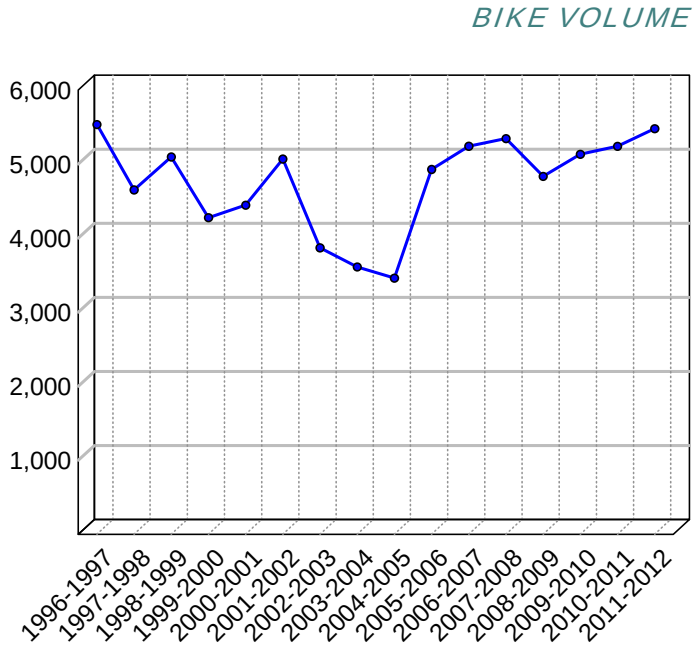


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

Ottawa West - North of 417

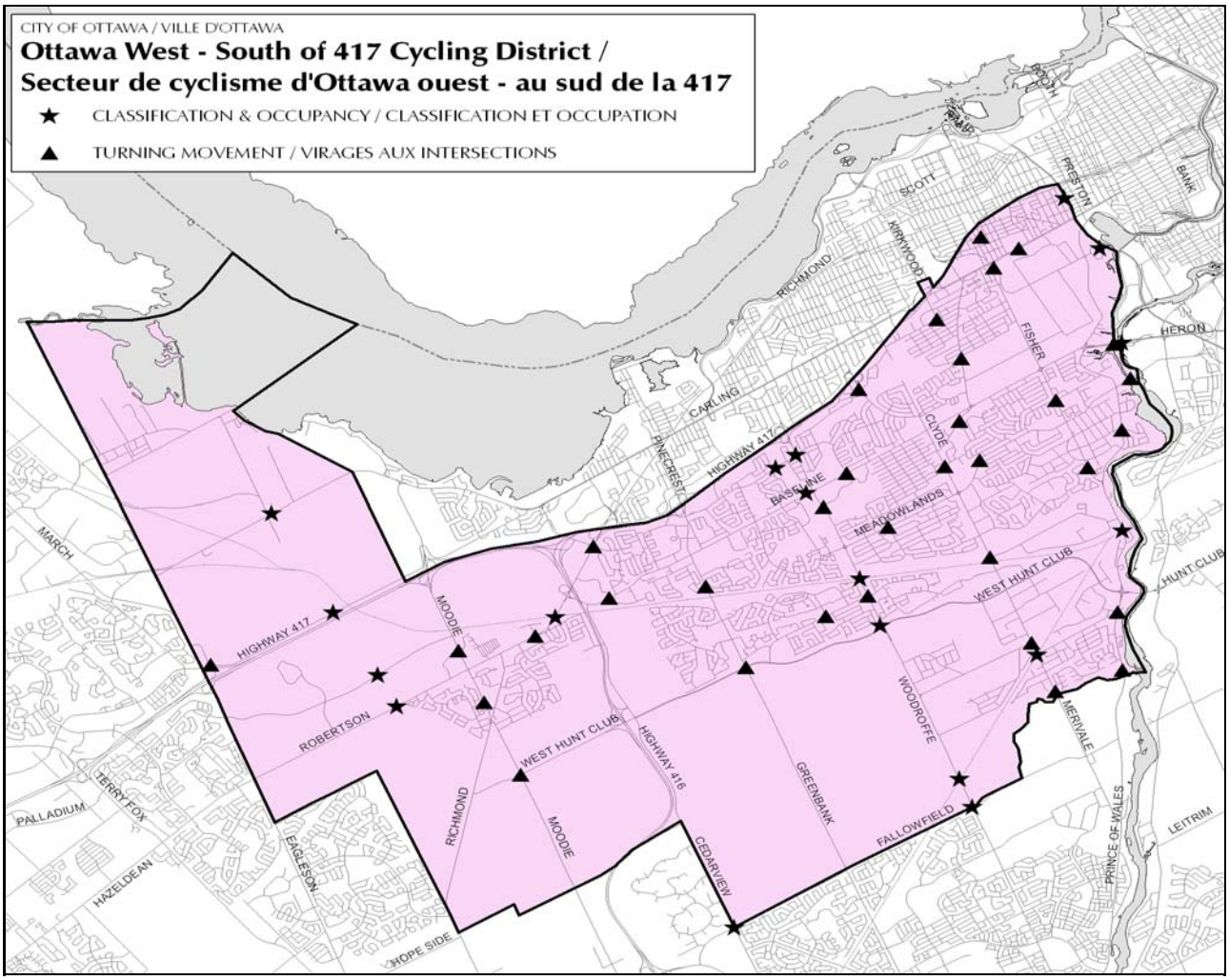
8 HOURS





Year	Total No of Locations: 34			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	14	18	22	248,900	5,480	2.1	2.20
2010-2011	18	14	20	260,400	5,240	2.1	2.01
2009-2010	19	18	23	298,100	5,130	2.3	1.72
2008-2009	17	19	23	298,000	4,840	2.1	1.62
2007-2008	17	17	19	253,700	5,350	1.9	2.11
2006-2007	24	17	29	356,400	5,240	2.5	1.47
2005-2006	12	24	24	297,100	4,930	2.2	1.66
2004-2005	14	12	19	260,500	3,460	1.6	1.33
2003-2004	15	14	19	273,900	3,610	1.6	1.32
2002-2003	12	15	18	241,900	3,870	1.7	1.60
2001-2002	24	12	27	333,800	5,070	2.4	1.52
2000-2001	19	24	26	330,000	4,450	2.2	1.35
1999-2000	19	19	26	320,200	4,280	2.2	1.34
1998-1999	19	19	28	313,200	5,100	2.2	1.63
1997-1998	16	19	23	256,300	4,650	1.8	1.81
1996-1997	25	16	24	279,500	5,540	1.8	1.98

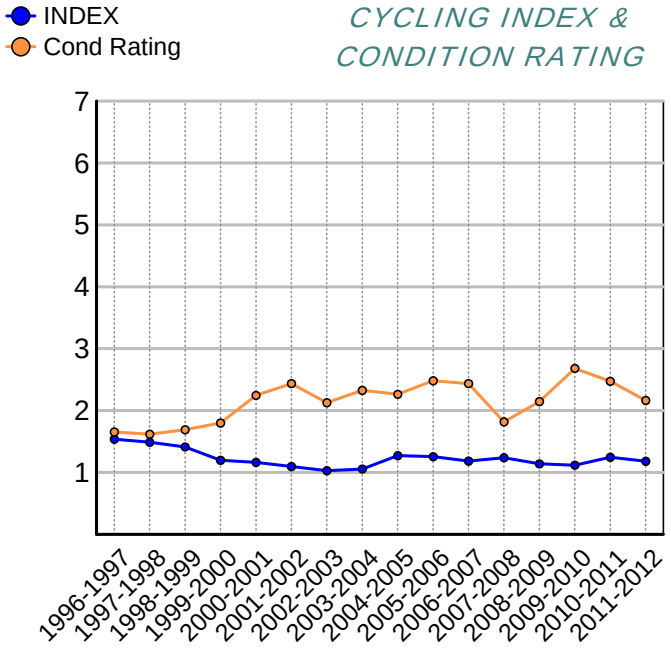
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

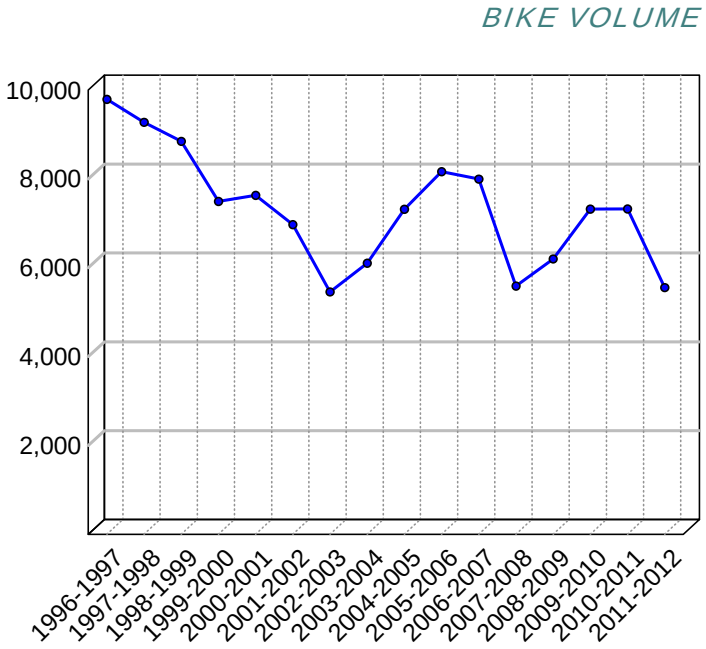


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

Ottawa West - South of 417

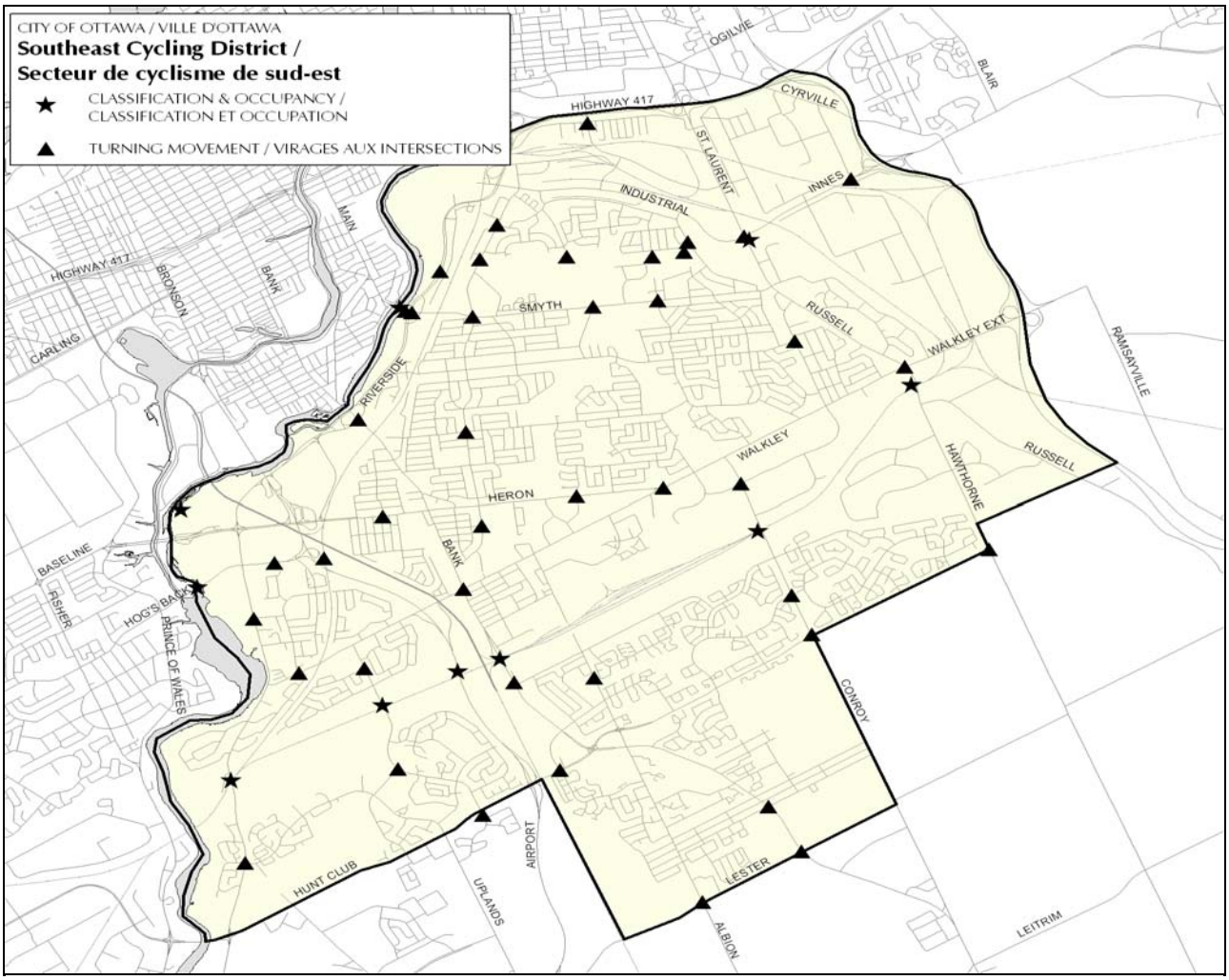
8 HOURS





Year	Total No of Locations: 55			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	29	28	36	470,300	5,560	2.2	1.18
2010-2011	41	29	45	587,600	7,330	2.5	1.25
2009-2010	33	41	49	654,900	7,320	2.7	1.12
2008-2009	28	33	40	544,200	6,200	2.1	1.14
2007-2008	25	28	36	451,600	5,590	1.8	1.24
2006-2007	45	25	48	675,100	8,000	2.4	1.18
2005-2006	30	45	47	650,100	8,160	2.5	1.26
2004-2005	33	30	42	575,300	7,320	2.3	1.27
2003-2004	38	33	42	577,900	6,100	2.3	1.06
2002-2003	26	38	39	530,200	5,460	2.1	1.03
2001-2002	41	26	46	636,100	6,970	2.4	1.10
2000-2001	38	41	48	656,200	7,630	2.2	1.16
1999-2000	38	38	46	625,400	7,490	1.8	1.20
1998-1999	39	38	47	626,100	8,850	1.7	1.41
1997-1998	41	39	47	622,700	9,280	1.6	1.49
1996-1997	48	41	50	636,700	9,790	1.7	1.54

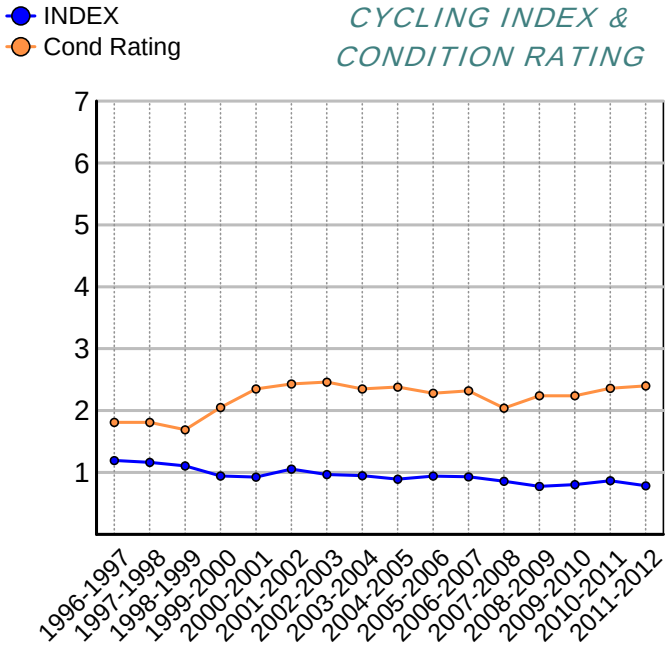
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

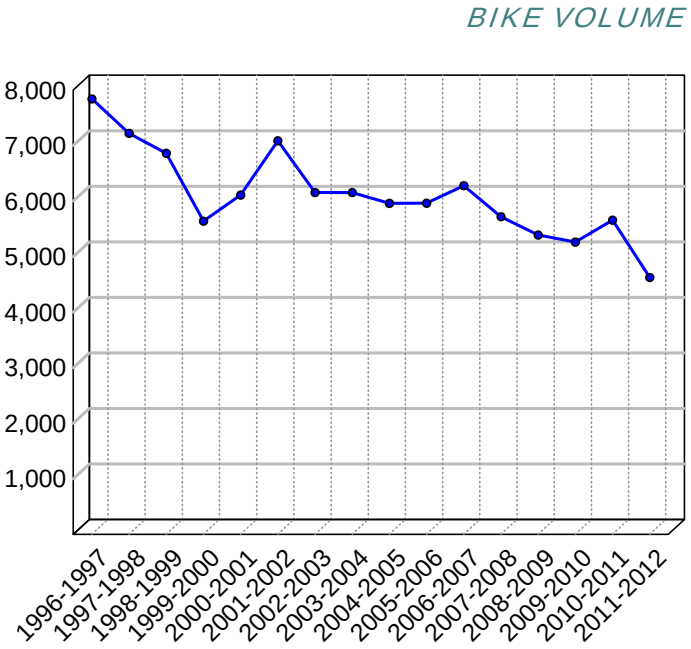


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

Southeast

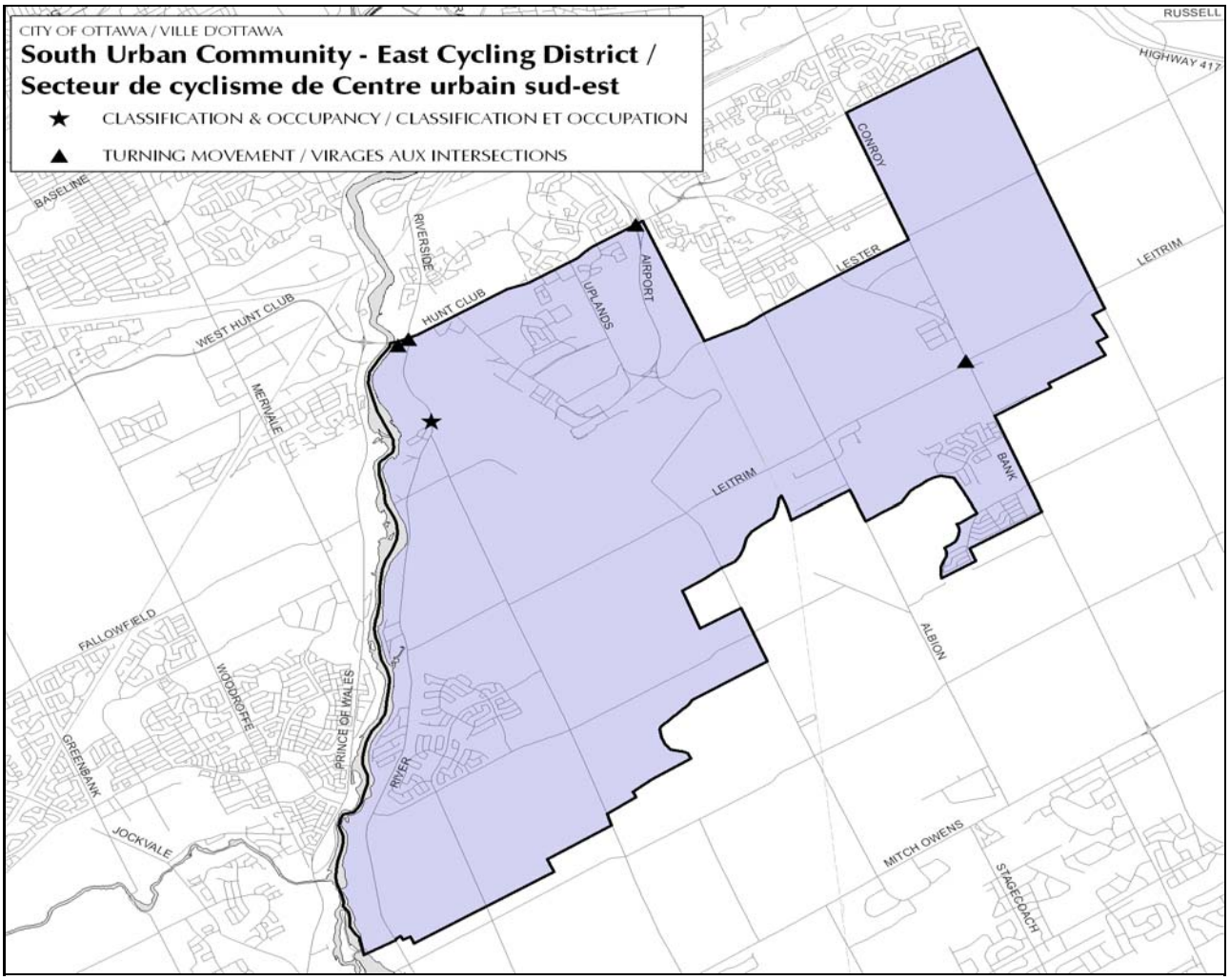
8 HOURS





Year	Total No of Locations: 50			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	28	23	38	589,000	4,630	2.4	0.79
2010-2011	27	28	40	652,400	5,660	2.4	0.87
2009-2010	29	27	40	654,300	5,270	2.2	0.80
2008-2009	33	29	42	694,300	5,390	2.2	0.78
2007-2008	27	33	39	665,800	5,720	2.0	0.86
2006-2007	37	27	42	675,100	6,280	2.3	0.93
2005-2006	24	37	40	633,000	5,960	2.3	0.94
2004-2005	36	24	40	667,800	5,960	2.4	0.89
2003-2004	37	36	40	649,300	6,160	2.4	0.95
2002-2003	27	37	41	636,300	6,160	2.5	0.97
2001-2002	29	27	42	671,200	7,090	2.4	1.06
2000-2001	32	29	42	659,600	6,110	2.4	0.93
1999-2000	31	32	41	597,800	5,640	2.1	0.94
1998-1999	36	31	41	619,900	6,860	1.7	1.11
1997-1998	40	36	42	620,900	7,220	1.8	1.16
1996-1997	44	40	47	656,900	7,840	1.8	1.19

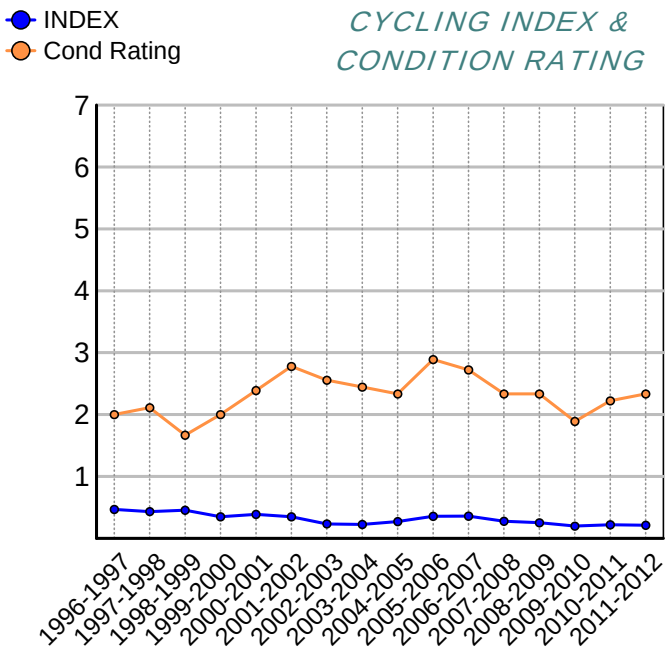
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

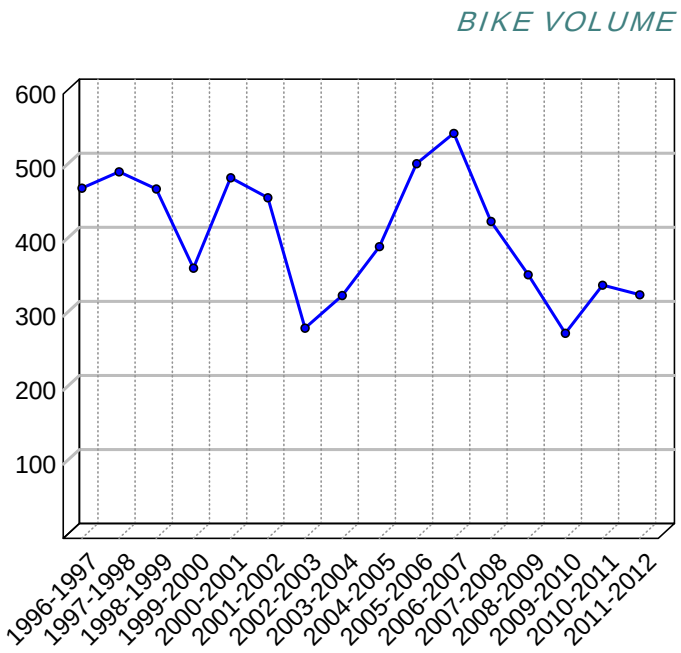


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

SUC - East

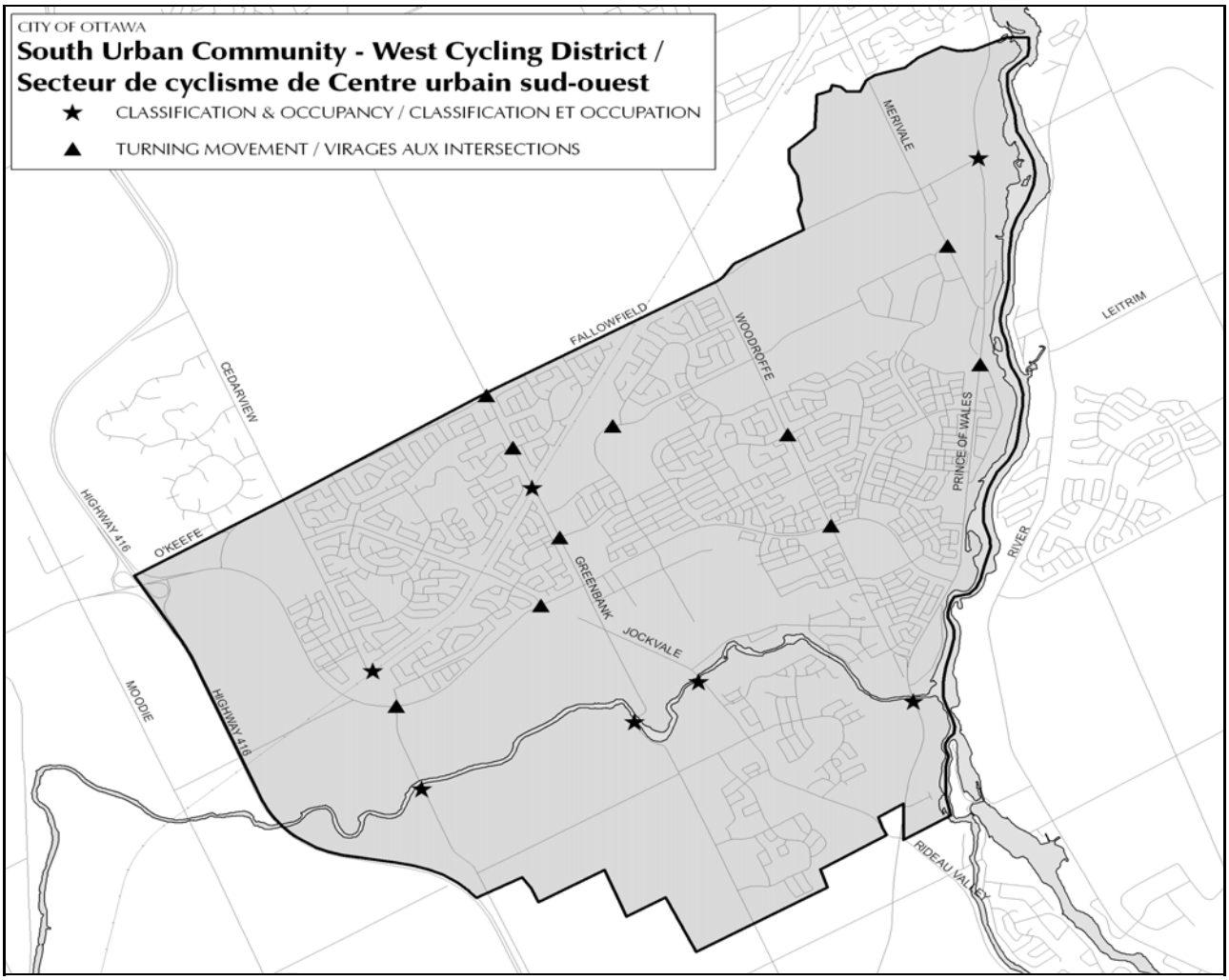
8 HOURS





Year	Total No of Locations: 10			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	9	6	9	155,300	330	2.3	0.21
2010-2011	6	9	9	155,300	340	2.2	0.22
2009-2010	8	6	8	139,400	280	1.9	0.20
2008-2009	8	8	8	140,700	360	2.3	0.25
2007-2008	9	8	9	154,700	430	2.3	0.28
2006-2007	8	9	9	152,200	550	2.7	0.36
2005-2006	6	8	9	141,900	510	2.9	0.36
2004-2005	8	6	9	145,100	390	2.3	0.27
2003-2004	6	8	9	145,900	330	2.4	0.22
2002-2003	6	6	8	121,200	280	2.6	0.23
2001-2002	6	6	9	131,700	460	2.8	0.35
2000-2001	8	6	9	125,200	490	2.4	0.39
1999-2000	5	8	8	104,700	370	2.0	0.35
1998-1999	8	5	8	103,800	470	1.7	0.45
1997-1998	7	8	9	114,300	500	2.1	0.43
1996-1997	7	7	8	101,100	470	2.0	0.47

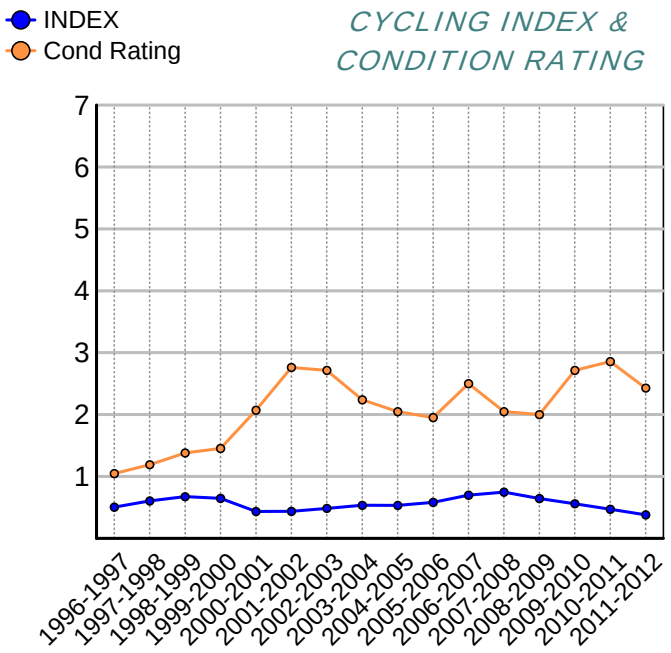
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

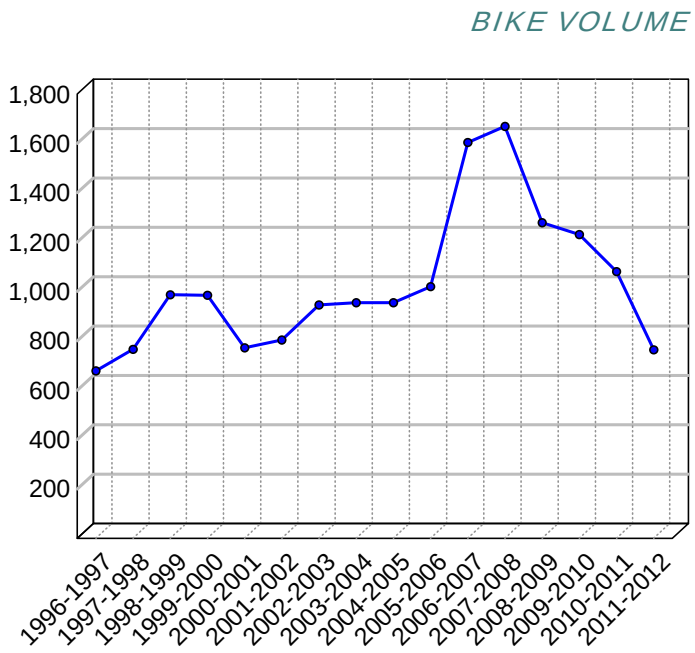


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

SUC - West

8 HOURS



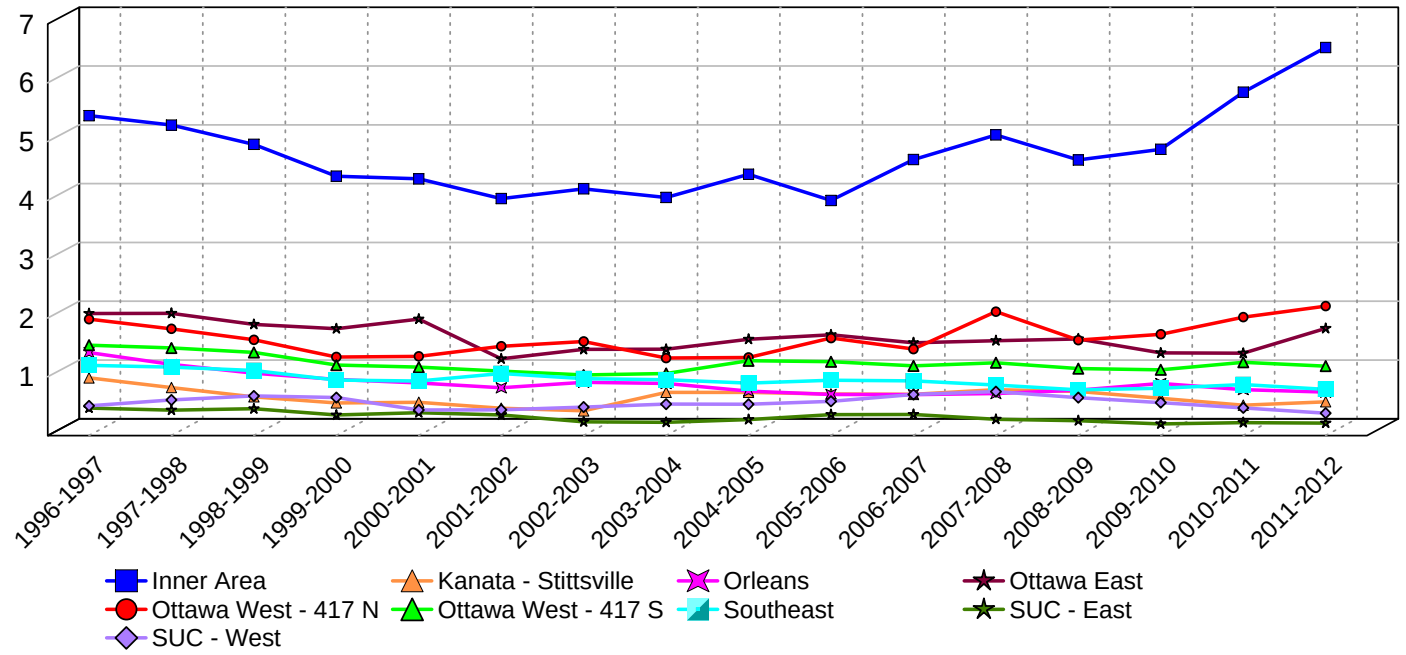


Year	Total No of Locations: 21			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	13	12	17	200,900	760	2.4	0.38
2010-2011	15	13	20	229,800	1,080	2.9	0.47
2009-2010	12	15	19	219,900	1,230	2.7	0.56
2008-2009	13	12	17	198,500	1,280	2.0	0.64
2007-2008	16	13	19	223,500	1,670	2.0	0.75
2006-2007	15	16	21	229,800	1,600	2.5	0.70
2005-2006	11	15	17	175,200	1,020	2.0	0.58
2004-2005	12	11	17	179,400	960	2.0	0.53
2003-2004	17	12	17	178,700	960	2.2	0.53
2002-2003	12	17	20	195,100	950	2.7	0.48
2001-2002	17	12	20	183,900	800	2.8	0.44
2000-2001	15	17	19	177,400	770	2.1	0.44
1999-2000	17	15	18	152,300	990	1.5	0.65
1998-1999	11	17	18	146,400	990	1.4	0.67
1997-1998	11	11	13	126,400	770	1.2	0.61
1996-1997	15	11	16	134,700	680	1.0	0.50

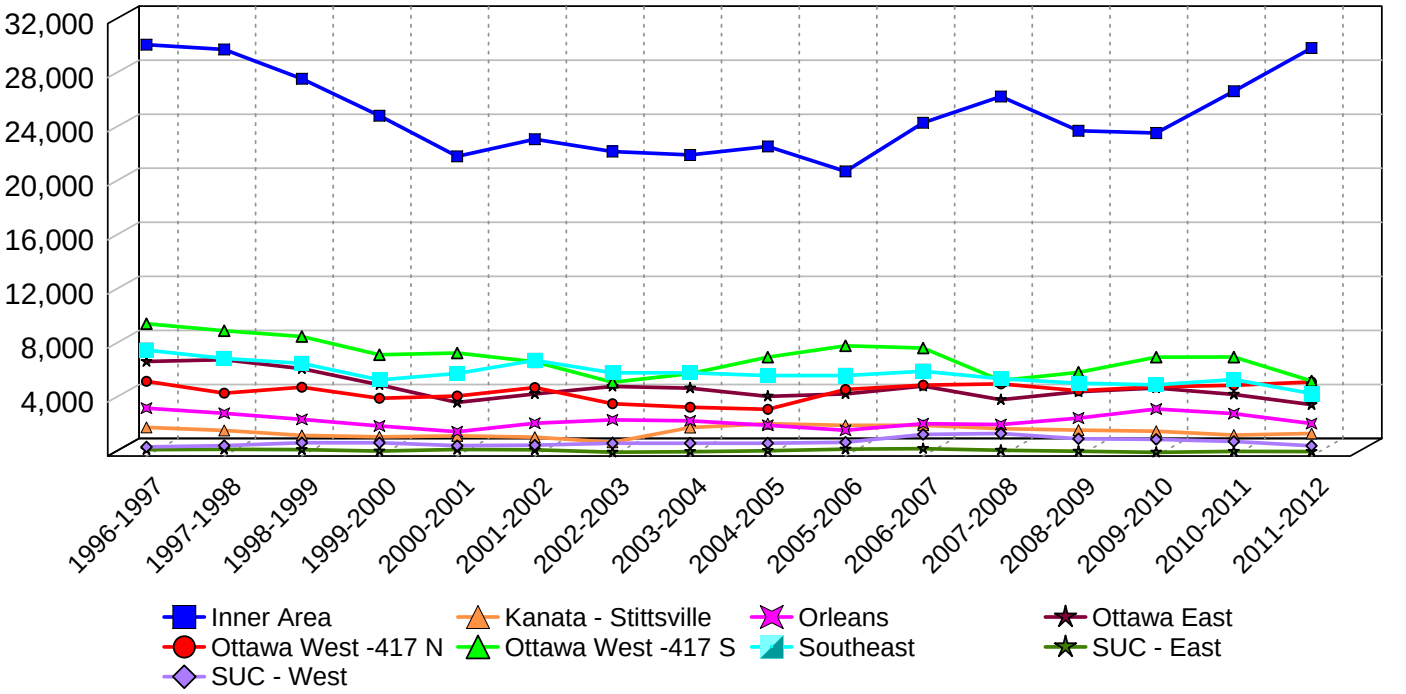
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

Cycling Activity Relative to Motor Vehicle Activity

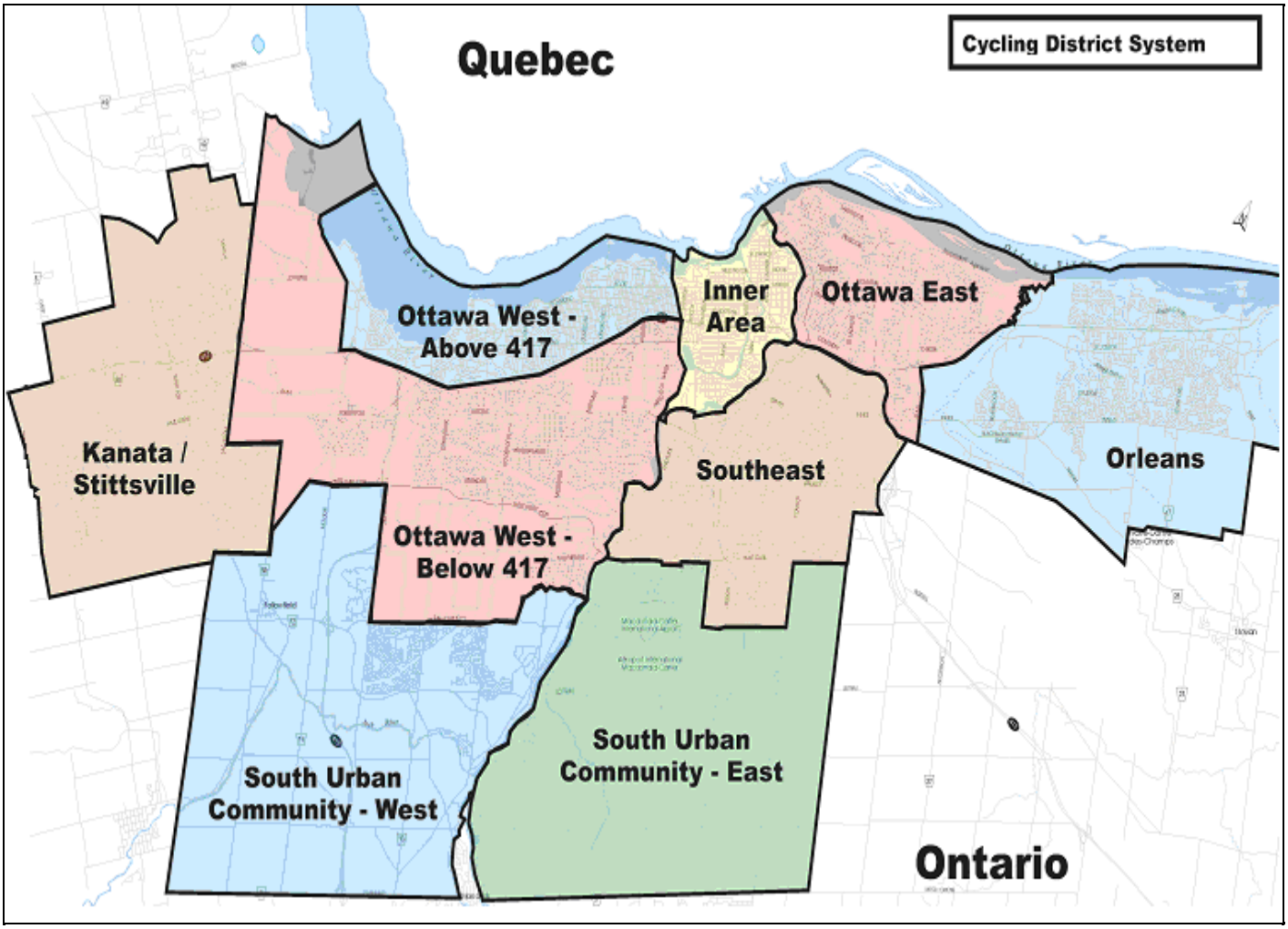
CYCLING INDEX BY DISTRICT



CYCLING VOLUME BY DISTRICT



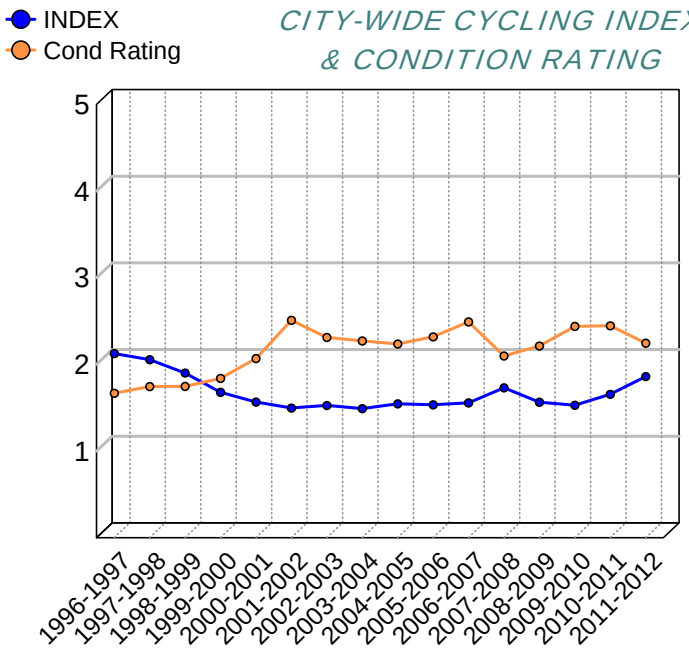
CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

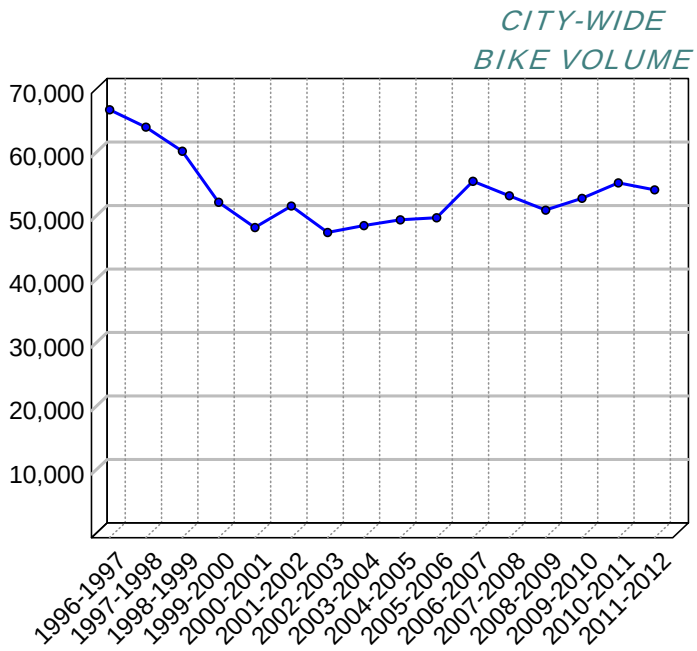


CONDITION RATING - Average of all locations (Max 3.0 No adverse factors - i.e. rain, road construction / restrictions.)

COMPOSITE CITY-WIDE CYCLING INDEX

8 HOURS





Year	Total No of Locations: 326			AUTO	BIKE	Condition Rating	Cycling Index
	Year 1	Year 2	Total				
2011-2012	187	148	237	2,947,000	54,820	2.2	1.86
2010-2011	189	187	265	3,377,500	55,910	2.4	1.66
2009-2010	197	189	275	3,498,800	53,480	2.4	1.53
2008-2009	182	197	257	3,299,200	51,620	2.2	1.56
2007-2008	184	182	244	3,113,600	53,880	2.1	1.73
2006-2007	237	184	288	3,610,100	56,180	2.5	1.56
2005-2006	168	237	266	3,286,800	50,420	2.3	1.53
2004-2005	194	168	258	3,240,100	50,100	2.2	1.55
2003-2004	216	194	257	3,300,700	49,180	2.3	1.49
2002-2003	166	216	250	3,152,000	48,110	2.3	1.53
2001-2002	207	166	276	3,492,100	52,270	2.5	1.50
2000-2001	206	207	259	3,121,700	48,880	2.1	1.57
1999-2000	221	206	265	3,151,000	52,870	1.8	1.68
1998-1999	236	221	273	3,204,100	60,900	1.7	1.90
1997-1998	219	236	266	3,148,100	64,700	1.7	2.06
1996-1997	259	219	282	3,172,800	67,430	1.7	2.13