

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

### Ward 23 – Kanata-South

#### POPULATION\*

##### Total Ward Population

**43,315**

**+7.0%**

2006-2011



##### Total City of Ottawa Population

**883,390**

**+8.8%**

2006-2011



##### Population by Age Group

Age Group	Ward 23					City of Ottawa				
	2006		2011		06-11	2006		2011		06-11
	No.	%	No.	%	% Chg	No.	%	No.	%	% Chg
Less than 5	2,580	6.4	2,590	6.0	0.4	44,380	5.5	49,140	5.6	10.7
5-9	2,920	7.2	2,840	6.6	-2.7	46,235	5.7	48,765	5.5	5.5
10-14	3,310	8.2	3,145	7.3	-5.0	52,135	6.4	50,665	5.7	-2.8
15-19	3,190	7.9	3,295	7.6	3.3	54,595	6.7	58,305	6.6	6.8
20-24	2,360	5.8	2,665	6.2	12.9	58,490	7.2	65,960	7.5	12.8
25-29	2,135	5.3	2,480	5.7	16.2	53,390	6.6	61,230	6.9	14.7
30-34	2,755	6.8	2,710	6.3	-1.6	55,590	6.8	57,745	6.5	3.9
35-39	3,405	8.4	3,080	7.1	-9.5	59,750	7.4	60,360	6.8	1.0
40-44	3,955	9.8	3,510	8.1	-11.3	69,825	8.6	64,280	7.3	-7.9
45-49	3,745	9.3	4,020	9.3	7.3	67,535	8.3	73,190	8.3	8.4
50-54	2,960	7.3	3,530	8.1	19.3	59,275	7.3	69,015	7.8	16.4
55-59	2,465	6.1	2,810	6.5	14.0	52,545	6.5	57,735	6.5	9.9
60-64	1,605	4.0	2,295	5.3	43.0	37,510	4.6	50,415	5.7	34.4
65-69	1,130	2.8	1,565	3.6	38.5	28,100	3.5	35,860	4.1	27.6
70-74	740	1.8	1,090	2.5	47.3	23,850	2.9	26,810	3.0	12.4
75-79	550	1.4	725	1.7	31.8	19,870	2.4	21,275	2.4	7.1
80-84	405	1.0	490	1.1	21.0	15,765	1.9	16,305	1.8	3.4
85-89	185	0.5	315	0.7	70.3	8,695	1.1	10,650	1.2	22.5
90 years & over	95	0.2	175	0.4	84.2	4,595	0.6	5,685	0.6	23.7
<b>Total</b>	<b>40,480</b>	<b>100.0</b>	<b>43,315</b>	<b>100.0</b>	<b>7.0</b>	<b>812,130</b>	<b>100.0</b>	<b>883,390</b>	<b>100.0</b>	<b>8.8</b>

\*Note: Population count includes institutional residents and all usual residents of the City of Ottawa on Census day 2011. Not adjusted for undercounting.

Source: Statistics Canada, 2011 Census

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

### Ward 23 – Kanata-South

## POPULATION

### Male Population by Age Group

Age Group	Ward 23					City of Ottawa				
	2006		2011		06-11	2006		2011		06-11
	No.	%	No.	%	% Chg	No.	%	No.	%	% Chg
Less than 5	1,320	6.7	1,350	6.4	2.3	22,515	5.7	24,930	5.8	10.7
5-9	1,455	7.3	1,420	6.7	-2.4	23,460	6.0	24,660	5.8	5.1
10-14	1,720	8.7	1,550	7.4	-9.9	26,650	6.8	25,690	6.0	-3.6
15-19	1,670	8.4	1,710	8.1	2.4	27,650	7.0	29,675	6.9	7.3
20-24	1,200	6.1	1,380	6.6	15.0	29,140	7.4	33,095	7.7	13.6
25-29	1,050	5.3	1,225	5.8	16.7	25,930	6.6	30,185	7.0	16.4
30-34	1,260	6.4	1,265	6.0	0.4	26,755	6.8	27,675	6.5	3.4
35-39	1,630	8.2	1,410	6.7	-13.5	29,140	7.4	28,765	6.7	-1.3
40-44	1,955	9.9	1,655	7.9	-15.3	34,290	8.7	31,215	7.3	-9.0
45-49	1,755	8.9	2,005	9.5	14.2	32,650	8.3	35,935	8.4	10.1
50-54	1,435	7.2	1,675	8.0	16.7	28,675	7.3	33,595	7.8	17.2
55-59	1,210	6.1	1,355	6.4	12.0	25,620	6.5	28,035	6.5	9.4
60-64	805	4.1	1,100	5.2	36.6	18,050	4.6	24,385	5.7	35.1
65-69	535	2.7	775	3.7	44.9	13,190	3.4	16,930	4.0	28.4
70-74	355	1.8	515	2.4	45.1	11,025	2.8	12,360	2.9	12.1
75-79	235	1.2	330	1.6	40.4	8,420	2.1	9,545	2.2	13.4
80-84	155	0.8	200	0.9	29.0	5,930	1.5	6,600	1.5	11.3
85-89	60	0.3	105	0.5	75.0	2,785	0.7	3,685	0.9	32.3
90 years & over	30	0.2	35	0.2	16.7	1,130	0.3	1,500	0.4	32.7
<b>Total</b>	<b>19,820</b>	<b>100.0</b>	<b>21,055</b>	<b>100.0</b>	<b>6.2</b>	<b>393,000</b>	<b>100.0</b>	<b>428,455</b>	<b>100.0</b>	<b>9.0</b>

Source: Statistics Canada, 2011 Census

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

# Ward 23 – Kanata-South

## POPULATION

### Female Population by Age Group

Age Group	Ward 23					City of Ottawa				
	2006		2011		06-11	2006		2011		06-11
	No.	%	No.	%	% Chg	No.	%	No.	%	% Chg
Less than 5	1,260	6.1	1,240	5.6	-1.6	21,865	5.2	24,215	5.3	10.7
5-9	1,465	7.1	1,420	6.4	-3.1	22,775	5.4	24,100	5.3	5.8
10-14	1,590	7.7	1,595	7.2	0.3	25,485	6.1	24,980	5.5	-2.0
15-19	1,520	7.4	1,580	7.1	3.9	26,945	6.4	28,630	6.3	6.3
20-24	1,160	5.6	1,285	5.8	10.8	29,350	7.0	32,865	7.2	12.0
25-29	1,085	5.3	1,255	5.6	15.7	27,460	6.6	31,050	6.8	13.1
30-34	1,490	7.2	1,440	6.5	-3.4	28,835	6.9	30,070	6.6	4.3
35-39	1,775	8.6	1,675	7.5	-5.6	30,610	7.3	31,600	6.9	3.2
40-44	2,000	9.7	1,850	8.3	-7.5	35,535	8.5	33,070	7.3	-6.9
45-49	1,990	9.6	2,015	9.1	1.3	34,885	8.3	37,255	8.2	6.8
50-54	1,525	7.4	1,860	8.4	22.0	30,600	7.3	35,415	7.8	15.7
55-59	1,260	6.1	1,455	6.5	15.5	26,925	6.4	29,700	6.5	10.3
60-64	800	3.9	1,190	5.3	48.8	19,460	4.6	26,025	5.7	33.7
65-69	590	2.9	790	3.5	33.9	14,910	3.6	18,930	4.2	27.0
70-74	390	1.9	575	2.6	47.4	12,825	3.1	14,450	3.2	12.7
75-79	310	1.5	395	1.8	27.4	11,450	2.7	11,730	2.6	2.4
80-84	245	1.2	295	1.3	20.4	9,835	2.3	9,710	2.1	-1.3
85-89	125	0.6	210	0.9	68.0	5,925	1.4	6,960	1.5	17.5
90 years & over	70	0.3	135	0.6	92.9	3,465	0.8	4,195	0.9	21.1
<b>Total</b>	<b>20,660</b>	<b>100.0</b>	<b>22,260</b>	<b>100.0</b>	<b>7.7</b>	<b>419,130</b>	<b>100.0</b>	<b>454,935</b>	<b>100.0</b>	<b>8.5</b>

Source: Statistics Canada, 2011 Census

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

### Ward 23 – Kanata-South

#### HOUSEHOLDS/DWELLINGS

##### Total Ward Occupied Dwellings

15,055

+10.8%

2006-2011



##### City of Ottawa Occupied Dwellings

353,240

+10.1%

2006-2011



##### Occupied Private Dwellings by Structural Type

Occupied private dwellings by structural type	Ward 23		City of Ottawa	
	No.	%	No.	%
Single-detached house	7,830	52.0	151,495	42.9
Semi-detached house	1,420	9.4	19,305	5.5
Row house	5,270	35.0	72,540	20.5
Apartment, duplex	5	0.0	6,845	1.9
Apt. building that has 5 or more storeys	50	0.3	65,495	18.5
Apt. building that has less than 5 storeys	480	3.2	36,190	10.2
Other single-attached house	5	0.0	440	0.1
Moveable dwelling	0	0.0	935	0.3
<b>Total number of dwellings</b>	<b>15,055</b>	<b>100.0</b>	<b>353,240</b>	<b>100.0</b>

Source: Statistics Canada, 2011 Census

##### Private Households by Type

Private households by type	Ward 23		City of Ottawa	
	No.	%	No.	%
One-family only households	11,340	75.3	215,335	61.0
One-family households with persons not in a census family	700	4.6	13,995	4.0
Two-or-more-family households	280	1.9	4,985	1.4
Non-census family households	2,735	18.2	118,930	33.7
<b>Total number of households</b>	<b>15,055</b>	<b>100.0</b>	<b>353,240</b>	<b>100.0</b>

Source: Statistics Canada, 2011 Census

##### Private Households by Size

Private households by size	Ward 23		City of Ottawa	
	No.	%	No.	%
1 person	2,305	15.3	99,900	28.3
2 persons	4,765	31.7	116,390	32.9
3 persons	3,145	20.9	55,635	15.7
4-5 persons	4,395	29.2	72,065	20.4
6 or more persons	440	2.9	9,250	2.6
<b>Total number of private households</b>	<b>15,055</b>	<b>100.0</b>	<b>353,240</b>	<b>100.0</b>
Avg. number of persons per household	2.8		2.5	

Source: Statistics Canada, 2011 Census

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

# Ward 23 – Kanata-South

## FAMILIES

### Families by Type

	Ward 23		City of Ottawa	
	No.	%	No.	%
<b>All Families</b>				
Couples with Children at Home	6,800	53.9	109,340	45.7
Couples without Children at Home	4,050	32.1	91,595	38.2
Lone-Parent	1,765	14.0	38,545	16.1
<b>Total</b>	<b>12,615</b>	<b>100.0</b>	<b>239,480</b>	<b>100.0</b>
<b>Couples with Children at Home</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>
1 Child	2,555	37.6	41,245	37.7
2 Children	3,095	45.5	47,910	43.8
3+ Children	1,155	17.0	20,180	18.5
<b>Total</b>	<b>6,800</b>	<b>100.0</b>	<b>109,335</b>	<b>100.0</b>
<b>Lone-Parent</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>
1 Child	1,005	56.9	22,645	58.7
2 Children	590	33.4	11,340	29.4
3+ Children	175	9.9	4,560	11.8
<b>Total</b>	<b>1,765</b>	<b>100.0</b>	<b>38,545</b>	<b>100.0</b>
<b>Number of Children at Home by Age</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>
Under 6 years of age	3,115	20.4	58,365	22.0
6-14 years	5,415	35.5	89,325	33.6
15-17 years	1,960	12.9	32,695	12.3
18-24 years	3,385	22.2	57,570	21.7
25 years and more	1,365	9.0	27,885	10.5
<b>Total number of children at home</b>	<b>15,240</b>	<b>100.0</b>	<b>265,835</b>	<b>100.0</b>
Avg. number of children at home per census family	1.2		1.1	

Source: Statistics Canada, 2011 Census

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

### Ward 23 – Kanata-South

## LANGUAGE

### Total Population by Mother Tongue

Mother Tongue	Ward 23			City of Ottawa		
	2006	2011	% Chg	2006	2011	% Chg
English	30,010	30,785	2.6	521,445	544,045	4.3
French	2,345	2,820	20.3	114,415	123,925	8.3
Non-Official Language	6,865	8,155	18.8	141,160	178,120	26.2
<b>Total Population</b>	<b>40,480</b>	<b>43,315</b>	<b>7.0</b>	<b>812,130</b>	<b>883,390</b>	<b>8.8</b>

Source: Statistics Canada, 2011 Census

## MOBILITY

### Mobility status – 1 year ago\*

Mobility – 1 year ago	Ward 23		City of Ottawa	
	No.	%	No.	%
<b>Non-movers</b>	<b>37,970</b>	<b>89.8</b>	<b>741,545</b>	<b>86.5</b>
<b>Movers</b>	<b>4,335</b>	<b>10.2</b>	<b>115,955</b>	<b>13.5</b>
Non-migrants	3,350	7.9	83,410	9.7
Migrants	980	2.3	32,540	3.8
Internal Migrants	725	1.7	22,520	2.6
Intraprovincial Migrants	415	1.0	13,495	1.6
Interprovincial Migrants	305	0.7	9,020	1.1
External Migrants	260	0.6	10,015	1.2
<b>Total</b>	<b>42,305</b>	<b>100.0</b>	<b>857,495</b>	<b>100.0</b>

Source: Statistics Canada, 2011 National Household Survey

### Mobility status – 5 years ago\*

Mobility – 5 years ago	Ward 23		City of Ottawa	
	No.	%	No.	%
<b>Non-movers</b>	<b>25,925</b>	<b>64.5</b>	<b>475,180</b>	<b>58.1</b>
<b>Movers</b>	<b>14,250</b>	<b>35.5</b>	<b>342,775</b>	<b>41.9</b>
Non-migrants	10,290	25.6	222,785	27.2
Migrants	3,965	9.9	119,985	14.7
Internal Migrants	2,930	7.3	82,300	10.1
Intraprovincial Migrants	1,555	3.9	46,255	5.7
Interprovincial Migrants	1,380	3.4	36,045	4.4
External Migrants	1,035	2.6	37,685	4.6
<b>Total</b>	<b>40,175</b>	<b>100.0</b>	<b>817,950</b>	<b>100.0</b>

\*Sums of number and percentage add to more than stated totals.

Source: Statistics Canada, 2011 National Household Survey

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

### Ward 23 – Kanata-South

#### IMMIGRATION/ETHNICITY

##### Population by Immigrant Status and Top Ten Places of Birth

Immigrant status by top ten place of birth	Ward 23		Immigrant status by top ten place of birth	City of Ottawa	
	No.	%		No.	%
United Kingdom	1,210	2.8	United Kingdom	17,780	2.1
China	1,020	2.4	China	16,125	1.9
India	580	1.4	Lebanon	9,800	1.1
Viet Nam	455	1.1	India	9,120	1.1
United States	405	0.9	United States	8,820	1.0
Philippines	340	0.8	Philippines	7,390	0.9
Hong Kong S.A.R.	250	0.6	Viet Nam	6,115	0.7
Lebanon	245	0.6	Haiti	5,990	0.7
Sri Lanka	235	0.5	Italy	5,465	0.6
Iran	235	0.5	Iran	4,180	0.5
All Others	4,135	9.7	All Others	111,825	12.9
<b>Total Immigrants</b>	<b>9,110</b>	<b>21.3</b>	<b>Total Immigrants</b>	<b>202,610</b>	<b>23.4</b>
<b>Non-immigrants</b>	<b>33,485</b>	<b>78.3</b>	<b>Non-immigrants</b>	<b>653,140</b>	<b>75.3</b>
<b>Non-permanent residents</b>	<b>175</b>	<b>0.4</b>	<b>Non-permanent residents</b>	<b>11,340</b>	<b>1.3</b>
<b>Total</b>	<b>42,770</b>	<b>100.0</b>	<b>Total</b>	<b>867,085</b>	<b>100.0</b>

Source: Statistics Canada, 2011 National Household Survey

##### Total Population by Ethnic Origins and Top Ten Places of Birth\*

Population by top ten ethnic origins**	Ward 23		Population by top ten ethnic origins**	City of Ottawa	
	No.	%		No.	%
English	11,315	26.5	English	195,270	22.5
Irish	10,750	25.1	Irish	191,320	22.1
Scottish	9,540	22.3	French	177,890	20.5
French	8,070	18.9	Scottish	163,550	18.9
German	4,295	10.0	German	72,515	8.4
Chinese	2,870	6.7	Italian	41,005	4.7
Italian	1,805	4.2	Chinese	40,070	4.6
Polish	1,705	4.0	Aboriginal	35,155	4.1
Aboriginal	1,700	4.0	Polish	28,715	3.3
Dutch	1,315	3.1	Dutch	26,795	3.1
Other Ethnic Origins	17,325	40.5	Other Ethnic Origins	405,795	46.8
<b>Total Ethnic Origins Reported</b>	<b>42,770</b>	<b>100.0</b>	<b>Total Ethnic Origins Reported</b>	<b>867,085</b>	<b>100.0</b>

\*Sums of number and percentage add to more than stated totals.

\*\*Note: does not include "Canadian"

Source: Statistics Canada, 2011 National Household Survey

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

### Ward 23 – Kanata-South

## EDUCATION

### Population 15 years and over by highest certificate, diploma or degree\*

Population by highest certificate, diploma or degree	Ward 23		City of Ottawa	
	No.	%	No.	%
No certificate, diploma or degree	3,825	11.2	92,930	12.9
Postsecondary certificate, diploma or degree	22,110	64.6	457,640	63.7
High school diploma or equivalent	8,275	24.2	168,390	23.4
Apprenticeship or trades certificate or diploma	1,740	5.1	37,285	5.2
College, CEGEP or other non-university certificate or diploma	7,815	22.8	136,845	19.0
University certificate, diploma or degree at bachelor level or above	11,195	32.7	254,575	35.4
University certificate or diploma below bachelor level	1,360	4.0	28,935	4.0
Bachelor's degree	7,020	20.5	149,470	20.8
University certificate, diploma or degree above bachelor level	4,180	12.2	105,110	14.6
<b>Total population 15 years and over</b>	<b>34,210</b>	<b>100.0</b>	<b>718,960</b>	<b>100.0</b>

\*Sums of number and percentage add to more than stated totals.

Source: Statistics Canada, 2011 National Household Survey

## LABOUR FORCE AND EMPLOYMENT

### Total Population 15 years and over by Labour Force Activity

Population by Labour Force Activity	Ward 23		City of Ottawa	
	No.	%	No.	%
In the labour force	25,350	74.1	498,370	69.3
Employed	23,795	69.6	463,625	64.5
Unemployed	1,550	4.5	34,745	4.8
Not in the labour force	8,855	25.9	220,590	30.7
Participation rate (%)		74.1		69.3
Employment rate (%)		69.6		64.5
Unemployment rate (%)		6.1		7.0
<b>Total population 15 years and over</b>	<b>34,210</b>	<b>100.0</b>	<b>718,960</b>	<b>100.0</b>

\*Sums of number and percentage add to more than stated totals.

Source: Statistics Canada, 2011 National Household Survey



# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

# Ward 23 – Kanata-South

## EMPLOYMENT

### Total Population 15 years and over by Occupation

Population by Occupation	Ward 23		City of Ottawa	
	No.	%	No.	%
Occupation – Not applicable	425	1.7	10,250	2.1
All occupations	24,925	98.3	488,115	97.9
Management occupations	3,155	12.4	61,200	12.3
Business, finance and administration occupations	4,860	19.2	94,835	19.0
Natural and applied sciences and related occupations	4,155	16.4	62,015	12.4
Health occupations	1,330	5.2	28,820	5.8
Occupations in education, law and social, community and government services	3,360	13.3	76,930	15.4
Occupations in art, culture, recreation and sport	750	3.0	18,195	3.7
Sales and service occupations	5,190	20.5	101,610	20.4
Trades, transport and equipment operators and related occupations	1,585	6.3	34,895	7.0
Natural resources, agriculture and related production occupations	85	0.3	3,990	0.8
Occupations in manufacturing and utilities	455	1.8	5,620	1.1
<b>Labour force 15 years and over</b>	<b>25,350</b>	<b>100.0</b>	<b>498,370</b>	<b>100.0</b>

Source: Statistics Canada, 2011 National Household Survey

### Total employed labour force 15 years and over with usual place of work or no fixed workplace address by mode of transportation

Total employed labour force 15 years and over by mode of transportation	Ward 23		City of Ottawa	
	No.	%	No.	%
Car, truck, van, as driver	15,640	70.0	260,655	60.3
Car, truck, van, as passenger	1,580	7.1	27,575	6.4
Public transit	3,950	17.7	97,125	22.5
Walked	700	3.1	31,350	7.3
Bicycle	250	1.1	10,800	2.5
Other method	230	1.0	4,470	1.0
<b>Total employed labour force 15 years and over</b>	<b>22,355</b>	<b>100.0</b>	<b>431,975</b>	<b>100.0</b>

Source: Statistics Canada, 2011 National Household Survey

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

# Ward 23 – Kanata-South

## EMPLOYMENT

### Total employment within ward by major sectors\*

Total employment within ward by major sectors	Ward 23		City of Ottawa	
	No.	%	No.	%
Primary	0	0.0	1,617	0.3
Utilities	88	0.7	1,817	0.3
Construction	529	4.4	24,429	4.3
Manufacturing	1,435	11.8	25,270	4.5
Wholesale	289	2.4	8,333	1.5
Retail	2,306	19.0	58,582	10.4
Transportation and Warehousing	204	1.7	20,735	3.7
Information and Cultural	263	2.2	15,226	2.7
Finance and Insurance	285	2.4	14,908	2.6
Real Estate and Rental Leasing	153	1.3	9,718	1.7
Professional, Scientific and Technical Services	1,898	15.7	55,745	9.8
Management of Companies and Enterprises	1	0.0	484	0.1
Administrative and Support, Waste Management & Remediation Services	221	1.8	22,609	4.0
Education Services	920	7.6	35,308	6.2
Health Care and Social Assistance	1,215	10.0	55,865	9.9
Arts, Entertainment and Recreation	378	3.1	11,127	2.0
Accommodation and Food Services	952	7.9	36,019	6.4
Other Services	702	5.8	29,871	5.3
Federal Public Administration	0	0.0	121,888	21.5
Provincial Public Administration	10	0.1	2,140	0.4
Local Public Administration	266	2.2	11,838	2.1
Other Public Administration	0	0.0	2,468	0.4
<b>Total 2012 Employment</b>	<b>12,115</b>	<b>100.0</b>	<b>565,997</b>	<b>100.0</b>

\*Source: Ottawa Employment Survey 2012, City of Ottawa

# City of Ottawa Ward Profiles

## 2011 Census and National Household Survey

### Ward 23 – Kanata-South

## INCOME

### Income in 2010

Total Income in 2010 of population 15 years and over	Ward 23	City of Ottawa
Median income \$	42,364	39,530
Average income \$	50,274	49,826
Median after-tax income \$	37,437	35,123
Average after-tax income \$	41,355	40,849
<b>Total income in 2010 of males 15 years and over</b>		
Median income \$	53,595	46,513
Average income \$	60,700	58,318
Median after-tax income \$	46,003	40,633
Average after-tax income \$	49,001	46,934
<b>Total income in 2010 of females 15 years and over</b>		
Median income \$	33,985	33,728
Average income \$	40,329	41,857
Median after-tax income \$	30,563	30,427
Average after-tax income \$	34,058	35,136

Source: Statistics Canada, 2011 National Household Survey

### Household income in 2010 of private households

Household income in 2010 of private households	Ward 23	City of Ottawa
Median household income \$	97,462	79,634
Average household income \$	109,019	96,815
Median after-tax household income \$	81,930	68,160
Average after-tax household income \$	89,660	79,356
Households spending 30% or more of household income on shelter-related expenses	2,325	80,040
% of Households spending 30% or more of household income on shelter-related expenses	15.5	22.7

Source: Statistics Canada, 2011 National Household Survey