Alberta Spatial Price Index Program – 2016 Reference Year

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1 Introduction

In collaboration with the Government of Alberta, The Centre for Innovation Studies (THECiS) requested the Government Allowances and Spatial Price Indexes (GovAll) section of the Consumer Prices Division (CPD) at Statistics Canada to conduct the Alberta Spatial Price Index (ASPI) survey in 2016. Information gathered through this survey would be used to estimate various spatial consumer price indexes for 35 communities located throughout Alberta, including Edmonton as the reference location (see Appendix 1 for a complete list of communities surveyed). The 2016 iteration of the ASPI marked the first time GovAll conducted such a survey for Alberta; previous survey iterations were conducted by the Government of Alberta.

This report is comprised of five sections:

- 1. Introduction
- 2. Sampling
- 3. Data collection
- 4. Data processing
- 5. Concept and methodology
- 6. Limitations of results.

2 Sampling

The original list of products (both goods and services) considered for the 2016 iteration of the ASPI survey was derived from the list of products selected for the survey in 2010. Many of the products selected for the 2010 iteration were chosen again for the 2016 reference year (see Appendix 2 for the full product list used in 2016); however, there were 39 products – belonging to 12 of the 17 product categories – that were included in 2010 but not in 2016 (see Appendix 3 for the exclusion list).

Knowledge of the retail outlets present in each community, based on Internet research, was the basis for outlet selection. The sampling method can be described as a judgmental sampling approach.

The 2016 ASPI survey was conducted at the same time as Statistics Canada's Living Cost Differential (LCD) Survey in Alberta Isolated Posts. The LCD survey is conducted every 4 years in support of the Isolated Post and Government Housing Directive of the National Joint Council. In 2016, 21 Isolated Posts in Alberta were included in the LCD Survey, ten (10) of which were also included in the ASPI survey sample (see Appendix 1).

Not all of the products included in the LCD Survey were included in the ASPI survey. Likewise, the ASPI survey included some products not included in the LCD Survey. The ASPI survey included a total of 389 varieties of among 172 products (see Appendix 2), constituting a subset of the basket of goods and services used for Statistics Canada's Consumer Price Index (CPI) program.

3 Data collection

Price collection for the ASPI series employed two pricing schedules: the main and the supplementary pricing schedules. The former is essentially the same pricing schedule used by the GovAll section of CPD to collect prices for its "Isolated Posts Price Indexes" program. The supplementary pricing schedule was designed for household equipment products not included in the main pricing schedule but deemed necessary to ensure adequate coverage for the ASPI survey.

Prices were collected by Statistics Canada field interviewers through: personal visits to retail outlets in each community; from secondary data sources available on the Internet or over the telephone by staff in the GovAll section of CPD; or from the Government of Alberta. These secondary data sources are described below.

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3.1 House purchase

The Government of Alberta's Office of Statistics and Information (OSI) provided house price data by community (including Edmonton), compiled by a realtor deemed to have substantial experience in residential real estate. House prices of bungalows and multi-level building structures in each community were matched to house prices in Edmonton based on criteria such as age of the house, square footage, number of bedrooms, whether there was an attached or unattached garage, and whether the basement was finished. In some cases, however, matching of homes between the community and Edmonton was limited as the pool of real estate transactions was restricted to those that took place in the three (3) months immediately prior to the main field data collection in March. Ultimately, homes in 30 of the communities met all matching criteria to homes in Edmonton, with four communities matching some but not all criteria.

3.2 Property tax

Property taxes were estimated using mill rates collected from each community's municipal government website. These mill rates were applied to the selling prices of comparable houses in a given community and Edmonton before property tax differentials were estimated. In cases where a satisfactory match for houses between the community and Edmonton was difficult to obtain, differentials in property taxes will reflect, to some extent, this limitation.

3.3 Rent

OSI provided the GovAll section 2016 data for tenant-occupied rental units in the smaller communities surveyed. The data were collected by the Alberta Ministry of Seniors between May and August 2016 as part of its annual Rural Apartment Vacancy and Rental Cost survey program. For the larger communities, rents were projected for 2016 based on Canada Mortgage and Housing Corporation (CHMC) outlook data. Rental cost ratios between Edmonton and each community were calculated for comparable building structures.

3.4 Electricity, water, sewer and gas rates

Prices for electricity, water, sewers and gas vary by location according to the local service provider. Monthly electricity bills (flat, variable rates, rider fees) were calculated and compared for an identical consumption rate.

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Water consumption and sewer fees were collected from each community's website by employees in the GovAll section. The rate assigned to specific consumption amounts in each community were matched to identical consumption amounts and corresponding rates in Edmonton to compute price ratios between Edmonton and the community.

3.5 Mortgage interest

Geographical cost differentials of owned accommodation (for the consumption part of owning and living in a house as opposed to its investment/savings part) were calculated using a monthly mortgage interest payment and the first-month amortized segment of a mortgage loan for selling prices of comparable houses between Edmonton and each community. For the ASPI survey, the amortization period of the mortgage loans was set at 25 years and the down payment of the loan was assumed to be 10 per cent of the house selling price.

Mortgage interest rates were calculated in each community by taking an average of posted regular interest rates for a 5-year fixed-term mortgage of financial institutions with physical presence in the community. Special rates or introductory offers, targeted at first-time home buyers, were excluded. Regular mortgage interest rates varied across communities from a low of 4.04 per cent to a high of 4.77 per cent, with the base city, Edmonton, at 4.33 per cent.

3.6 Daycare

Prices for child daycare centres were collected, for the most part by telephone and to some extent via the Internet by GovAll section staff. In most of the communities, daycare fees were monthly; however, some provided daily fees. The fees used in this project are those for a 4-year old child. Both daily and monthly daycare fees were collected in Edmonton to enable matching between Edmonton and a community.

3.7 Car rental

Rental car fees at major car rental companies were collected from the Internet by GovAll section staff for communities where the service was available. For communities that did not have rental car outlets, prices were imputed from the nearest location.

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3.8 Driving lessons

Driving lesson fees for 15 hours of in-class training and 10 hours of in-car training were collected from the Internet from driving schools with certified drivers' training programs.

3.9 Medical services

Chiropractic service rates were collected by telephone by GovAll section staff. The price pertained to a visit following an initial assessment for a lower back adjustment.

Dental services were for a standard service and an amalgam filling or equivalent white filling listed under a specific dental service number.

For veterinary services, prices were collected over the phone by GovAll section staff for an annual health examination of a dog, plus standard vaccines.

3.10 Vehicle and home insurance

Vehicle and home insurance premiums were extracted from a database of insurance service provider rates. A model-pricing approach was applied with home insurance premiums collected for both homeowners and tenants, and vehicle insurance premiums collected for three different vehicles, each with two different personal profiles, i.e., male and female drivers.

3.11 Cable, Internet and telephone services

Cable television, Internet and telephone services fees were collected directly from major service providers' websites by GovAll section staff. Each community had at least one service available provider for Internet and telephone services, while some communities had a choice of two or more service providers for cable television services.

3.12 Fitness membership fees

Monthly membership fees to fitness centres were collected from the Internet and through telephone calls by GovAll section staff. For communities for which data could not be collected, fees were imputed from similar services in proximate locations.

3.13 Clothing

Garments and other items of clothing are highly heterogeneous, rendering it impossible to match identical varieties among the surveyed communities. As a result, price imputations were based on the results of the 2010 iteration of the ASPI survey.

3.14 Vehicle purchase and lease

Prices for purchase of vehicles and car lease rates could not be collected from the Internet. Therefore, ratios were imputed directly from the 2010 iteration of the ASPI survey.

4 Data processing

Collected data were keyed into a Microsoft Excel spreadsheet for data cleaning, verification and analysis.

Each product variety with a valid price in each community was matched to an identical or nearidentical product variety in the reference location, Edmonton. Product price data for Edmonton were supplemented with data from the CPI database and from the Internet in order to improve the match rate with products in each community.

Extreme values (outliers) were identified using the computer language SAS, and were verified and analyzed against the collected raw data. True outliers were replaced with data from the CPI database or from the Internet (imputation).

Prices were imputed for products that could not be matched to Edmonton, or when a price observation had not been collected in a community. Prices were imputed using donor data from neighbouring communities, and in some cases data from the 2010 iteration of the ASPI survey.

Among communities that required imputation, the imputation rates varied from a low of 2 per cent for Red Deer to a maximum of 10 per cent for Grande Cache (see Appendix 4 for list of imputation rates). This did not include imputation rates for clothing, purchase of vehicles and leasing of vehicles; in these cases, prices were imputed from the 2010 iteration of the ASPI survey, assuming price differences between the comparison and reference locations had the same proportions as in 2010.

5 Concept and methodology

This section presents the "spatial price index" concept and the price index methodology used for this project.

5.1 Spatial price index

A spatial price index is a number which expresses the cost of an identical market basket of products (goods and/or services) at a location (comparison location) relative to another location (reference location) at a given point of time. Comparing like-for-like products ensures that price differentials between the locations are due to pure price differences and not owing to the attributes of a product such as brand name, size or quantity. The following describes how a spatial price index is calculated.

Spatial price index for location A = Cost of basket at location A Cost of same basket at reference location X 100

Price index convention sets the value of the spatial price index of the reference (base) location to 100.0 with the spatial price index of each of the comparison location expressed as percentage of this value. For example, a spatial price index of 110 for a comparison location means that the average cost of a given basket of consumer goods and/or services is ten (10) per cent higher compared with its cost at the reference (base) location.

In contrast, a temporal consumer price index, CPI is a number that compares the cost of a basket of consumer goods and services between two **time periods** for a given location, whereas for a spatial price index the comparison is between two locations at one point in time. Consequently, comparing two sets of spatial price indexes that belong to two different time periods is inappropriate.

Strictly speaking, a spatial price index is not a "true" cost of living index. The concept of a standard of living connotes well-being or utility, which is not considered in the construction of a spatial price index.

5.2 Price index methodology

5.2.1 Aggregation structure

There are twenty (20) aggregate price indexes estimated for each community (see diagram on next page). Of these, three (3) are major aggregates and the rest are sub-aggregate spatial price indexes. The major aggregate price indexes are the following:

- 1. All-items;
- 2. Food; and
- 3. Non-food.

The food and non-food aggregate price indexes are further decomposed into seventeen (17) sub-aggregates by commodity group, based on the same commodity classification used in the 2010 iteration of the ASPI survey.



Price indexes are constructed through successive phases of aggregation from the lower level towards the higher level price aggregation. Lower level aggregation is at the level of uniquely defined products (goods and services), whose prices are sampled from retail outlets. Individual price relatives for product varieties in the community and Edmonton were aggregated using a geometric mean formula to arrive at an unweighted price index for the elementary aggregate of the product.

Higher level price indexes were produced by aggregating lower level price indexes and weighting them with the relevant consumption expenditures of the average consumer (CPI basket weights). The rule of aggregation is the weighted sum of the lower level price indexes of products.

5.2.2 Price index methodology

The following sections present the price index methodology used for constructing the spatial price indexes in this project.

5.2.2.1 Spatial price relative for each product variety

Once product varieties have been matched between locations, price relatives are calculated for each product variety.

Hence, given a comparison location (A), reference location (B), product variety (i) and price (p), the price relative of the product variety (p_i) between the two locations is:

$$p_i = \frac{p_{Ai}}{p_{Bi}}$$

The ratio describes how much the price of product variety (i) at location A differs from location B.

5.2.2.2 Elementary aggregation of spatial price relatives

The computed spatial price relatives for a set of similar products are used to calculate an unweighted price index for the given set of similar products using the geometric mean formulae. Given a comparison location (A), reference location (B), product variety (i), price (p) and 'M' number of similar products for which an unweighted price index needs to be calculated, the geometric mean ratio of the price relatives related to product (N), which is comprised of the similar product varieties, would be:

$$P_N = \prod_{i=1}^M \left(\frac{p_{Ai}}{p_{Bi}}\right)^{1/M}$$

5.2.2.3 Higher level price aggregation

Individual price indexes are aggregated to the next level higher in the classification structure, that is, the commodity group (e.g., from fresh milk to "Dairy products"). The different commodity group indexes are in turn aggregated to produce the all-items price index.

Since not all products have the same level of importance in the consumption basket of a consumer, higher level price aggregates for a commodity group price index are constructed by weighting each price index by the relevant expenditure weight of the specific product.

For example, given "K" number of products in a commodity group, a price index of a product (P_N) and an expenditure weight of " W_N " for product (N), the aggregate spatial price index (PI) for the "J" commodity group under reference equals:

$$PI_{J} = \frac{\left[\sum_{N=1}^{K} (P_{N} \times W_{N})\right]}{\sum_{N=1}^{K} W_{N}}$$

In other words, the all-items index is the weighted sum of the price indexes of all the products in the consumption basket.

5.2.3 Expenditure weights

Expenditure weights used for constructing the spatial price indexes were derived from the spending patterns of consumers in Edmonton, as reported by the 2014 edition of the Survey of

Household Spending (SHS). The data were normalized to account for the size and composition of the selected products used in the analysis. Expenditure weights by product category are included in Appendix 2.

5.3 Quality assurance of estimates

All estimates were independently produced by two analysts with outputs matched at each stage of estimation. The methodology, final estimates and this report underwent peer review within Statistics Canada.

6 Limitations of results

The indexes for the ASPI survey were estimated using a standard and accepted methodology for compiling spatial indexes. The products (goods and services) and the retail outlets visited were selected using a judgmental sampling approach. Since it is a sample survey, some sampling errors will characterize the results; however, this error is not quantifiable given the judgmental sample approach. Users should be aware of this possible limitation when interpreting the indexes.

	Community	ASPI	Alberta LCD
1	Athabasca	Х	
2	Atikameg		Х
3	Barrhead	Х	
4	Bonnyville	Х	
5	Brooks	Х	
6	Calgary	Х	
7	Camrose	Х	
8	Canmore	Х	
9	Cold Lake	Х	
10	Desmarais (incl. Wabasca)		Х
11	Drayton Valley	Х	
12	Drumheller	Х	
13	Edmonton (Base City = 100)	Х	X
14	Fort Chipewyan		Х
15	Fort McMurray	Х	Х
16	Fort Vermilion		Х
17	Fox Lake Reserve		X
18	Garden Rr. (Garden Creek)		Х
19	Grande Cache	Х	Х
20	Grande Prairie Stettler	Х	Х
21	Hay Lake Reserve		Х
22	High Level	Х	Х
23	High Prairie	Х	Х
24	High River	Х	
25	Hinton	Х	X
26	Jasper	Х	Х
27	John d'Or Prairie		Х
28	Lethbridge	X	
29	Little Buffalo		X
30	Lloydminster	X	
31	Manning		X
32	McLennan		X
33	Medicine Hat	Х	
34	Olds	X	
35	Peace River	Х	X

Alberta communities and survey coverage (ASPI and/or LCD).

	Community	ASPI	Alberta LCD
36	Pincher Creek	Х	
37	Ponoka	X	
38	Red Deer	X	
39	Red Earth Creek		X
40	Rocky Mountain House	Х	
41	Slave Lake	X	X
42	St. Paul	X	
43	Stettler	Х	
44	Taber	X	
45	Vegreville	X	
46	Wainwright	Х	
47	Whitecourt	Х	

Expenditure weights for Edmonton (reference location) and the comparison locations, by product/commodity category.

	Product	E>	(%) (%) (%)
All items			100.0
1. Dairy p	roducts		0.9
	Milk		
	Homog	genized ($3^1/_2$ %) and 2%	
	UHT		
	Cannee	d evaporated milk	
	Instant	powdered skim milk	
	Butter		
	lce cream		
	Cheese		
	Chedda	ar cheese	
	Cream	cheese	
	Cheese	e slices/spread	
2. Fats &	oils		0.1
	Cooking oil		
	Margarine, hard/sof	ft	
	Vegetable shortenir	Ig	
3. Cereal	& breads		1.1
	Bread		
	Breakfast cereal		
	Cookies, plain/crear	n	
	Soda crackers		
	Enriched white flou	r	
	Cake mix		
	Pasta		
	Macaroni and chees	se	
	Rice		
	Oatmeal		
4. Proces	sed fruits & vegetable	S	0.4
	Fruit - Canned or bo	ttled	
	Peache	es	
	Pears		
	Pineap	ple	
	Manda	irin oranges	
	Fruit co	ocktail	
	Apples	sauce	
	Fruit juice - Canned		
	Apple		
	Orange	9	

	Product	Expenditure Weight (%)
	Pineapple/grapefruit	
	Tomato	
	Fruit juice - Frozen orange	
	Vegetable juices	
	Jam	
	Raisins	
	Dried	
	peas	
	Vegetables - Canned	
	Peas	
	Corn, cream/niblets	
	Green beans	
	Baked beans	
	Tomatoes	
	Vegetables - Frozen	
	Peas	
	Corn	
	Frozen French fries	
	Instant notatoes	
5 Eroch	fruits & vogetables	1 3
5.110311	Annles	110
	Bananas	
	Bananas Broccoli	
	Cabbaga	
	Cabbage	
	Carriete	
	Carrots	
	Celery	
	Cucumber	
	Grapes	
	Lettuce	
	Onions	
	Oranges/grapefruit	
	Potatoes	
	Tomatoes	
	Turnips	
6. Meat,	fish, poultry & other	3.0
	Eggs	
	Beef - Various cuts	
	Ham	
	Pork	
	Chicken - Various cuts	
	Local fish/frozen fish	
	Prepared frozen fish	

Product	Expenditure Weight (%)
Turkey	
Canned fish	
Sockeye/pink	salmon
Tuna	
Sardines	
Canned meat	
Canned lunch	eon meat
Corned beef	
Canned ham	
Deli and deli-style meat	
sliced ham	
sliced bologna	3
Sausage	
Bacon	
Wieners	
7. Frozen & packaged foods	2.0
Baby food	
Coffee	
Ground	
Instant	
Chocolate bars	
Chocolate drink mix	
Fruit drink crystals	
Frozen dinners and snacks	
Frozen desserts	
Jelly powder	
Peanut butter	
Syrup	
Pickles	
Potato chips	
Prepared mustard	
Tomato ketchup	
Salad dressing	
Food seasonings	
Table salt	
Black pepper,	ground
Soft	
drinks	
Canned soup	
Canned stew	
Dried soup	
Spaghetti sauce	
C	

Product	Expenditure Weight (%)
Tea bags	
8. Restaurant meals	3.6
Breakfast	
Lunch	
Dinner	
Take-out pizza	
9. Personal care products	3.4
Non-prescribed medicines	
Pain relievers	
Anti-acids	
Vitamin "C"/multivitamins	
Allergy, cough cold and flu	remedies
Oral hygiene products	
Mouthwash	
Toothpaste	
Bar soaps	
Contact lens solution	
Deodorant/antiperspirant	
Disposable diapers	
Feminine hygiene	
Sanitary napkins	
Tampons	
Prescription medication	
Antihyperlipidemic	
ACE inhibitor	
Gastroesophageal reflux dis	sease
hair care products	
Shampoo	
Hair tint	
Hair spray	
Makeup, skin care, and manicure produc	cts
Liquid make-up	
Nail polish	
Nail polish remover	
Hand lotion	
Baby powder	
Face cream	
Razor blades/shaving cream	
After shave lotion	
10. Household supplies	1.7
Detergent and other soaps	
All-purpose cleaner	

Liquid bleach

	Product	Expenditure Weight (%)
	Dishwasher de	tergent, powder
	Dish detergent	
	Laundry deterg	ent
	Fabric softener	, liquid/dryer sheets
Dog fo	od	
	Canned dog fo	bd
	Dry dog food	
Food v	vrap	
	Plastic wrap	
	Foil wrap	
Floor	wax	
Other	household supplies	
	Garbage bags	
	Toilet bowl clea	aner
	Light bulbs	
	Paper towels	
	Dry cell batteri	es
Scouri	ng powder/soap pads	
Other	paper supplies	
	Facial tissues	
	Toilet tissues	
11. Household ser	vices	8.6
Baby-s	sitting	
Chirop	oractic services	
Coin o	perated laundry	
Dayca	re	
Dry cle	eaning	
Hair ca	are services	
Intern	et Service	
Telepł	one services	
Denta	l services	
Veteri	nary services	
12. Household equ	Jipment	4
Other	non-electric kitchen a	nd cooking equipment
	stainless steel	cookware
Mattre	ess and box spring	
Microv	wave oven	
Refrig	erator	
Small	electric food preparat	ion appliances
	hand mixer	
	electric kettle	
Vacuu	m cleaner, upright	

	Product	Expenditure Weight (%)
13. Recreation & le	isure	8.6
Beer, lic	quor and wine	
	Canadian beer	
	Wine/liquor	
Beer, lic	quor, wine - Served	
	beer, in a bar or lour	nge
	highball, in a bar or l	ounge
	house wine in a resta	aurant
Cable te	elevision	
CD/DVE	Oprerecorded/recordable	discs
Cigarett	tes	
Camera	accessories	
	Film	
	Film processing	
Fitness	centre membership	
Movie/v	video game rental	
Newspa	apers	
Magaziı	nes	
Books		
Televisi	on	
Toys		
	Board game	
	Doll	
	Construction set	
Supplie	s and parts for recreationa	al equipment
14. Transportation		23.6
Tires, ba	atteries and other auto pa	rts and supplies
	Antifreeze/Coolant	
	Oil Filter	
	Motor Oil	
	Automotive/truck ba	atteries
	Truck tires	
	Spark plugs (1/2 ton	truck)
	Headlight bulb	
Vehicle	insurance	
Vehicle	rental	
Driving	lessons	
Gasolin	e	
Local Tr	ansit Fee	
Vehicle	leasing	
New ve	hicle purchase	
Mainter	nance and repair of vehicle	es
	Oil change, filter and	lubrication

	Product	Expenditure Weight (%)
	labour rate	
	Wheel alignment	
	Taxi fare	
15. Clothin	B	5.9
	Women and girls' wear (4 years and over)	
	Men and boys' wear (4 years and over)	
	Children's wear (under 4 years)	
16. Shelter		26.2
	Housing costs	
	Mortgage interest	
	Property taxes	
	Rental costs	
	Tenant's Insurance	
	Homeowner's insurance	
17. Utilitie	S	5.6
	Electricity	
	Natural gas	
	Water and sewage	

Product varieties included in 2010 but not in the 2016 ASPI.

Product variety Dairy products Cottage cheese Cream Yogurt **Cereals & Breads** Doughnuts Muffins Fresh fruits & vegetables Green pepper Meat, fish, poultry & other Peanuts Frozen & packaged foods Formula **Restaurant meals** Snack, Restaurant Personal care products Bandages Lipstick Women's spray cologne **Household Supplies** Cut/potted flowers Envelopes Sewing thread Solid broadcloth Table napkins - Paper **Household Services** House cleaning service Shoe repairs **Household Equipment** Bath towel Bed linens Comforter/Blanket Dinnerware Entertainment center Flatware Glass pie plate Hand tools Paint Power Tools Shingles - Roof

Stove

Product variety

Window blinds Recreation & Leisure Camera – Digital/Video DVD player Sports equipment Motion picture admission MP3 player Piano lesson Transportation Automobile paint job

Imputation rates by community, ASPI.

Community	Imputation rate
Athabasca	4%
Barrhead	5%
Bonnyville	4%
Brooks	2%
Camrose	4%
Canmore	5%
Cold Lake	6%
Drayton Valley	4%
Drumheller	4%
Fort McMurray	3%
Grande Cache	10%
Grande Prairie	2%
High Level	4%
High Prairie	9%
High River	6%
Hinton	5%
Jasper	9%
Lethbridge	2%
Lloydminster	2%
Medicine Hat	2%
Olds	3%
Peace River	5%
Pincher Creek	4%
Ponoka	4%
Red Deer	2%
Rocky Mountain House	3%
Slave Lake	4%
St Paul	3%
Stettler	4%
Taber	5%
Vegreville	5%
Wainwright	4%
Whitecourt	2%