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Guide to the Job Vacancy and Wage Survey, 2023

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Guide to the Job Vacancy and Wage Survey, 2023

1 Survey description

The Job Vacancy and Wage Survey (JVWS) collects data on the number of job vacancies by industrial sector and detailed occupation for Canada and the provinces, territories and economic regions. Additional information is also available by occupation, such as the average hourly wage offered, the proportion of job vacancies for full-time and part-time positions, the duration of job vacancies, the levels of education and experience sought for the job, and other characteristics. Data from the JVWS are available on both a monthly and a quarterly basis, as well as both seasonally adjusted and unadjusted.

Data from the JVWS is used for identifying labour market pressures in certain regions, industries, and occupations in Canada. Detailed information is collected about each vacancy to get a comprehensive picture of the unmet labour demand across Canada. The JVWS adds to the labour market information available to support decision making by employers, job seekers, students, policy makers, etc.

JVWS also released annual data on wages by occupation for 2016 and 2017. The collection of wage data has been terminated, and alternative methods to create estimates of wages by occupation and economic region have been developed. Information about the concepts and definitions of the Wage Component can be found in the JVWS guide for [2017](#) and [2018](#).

Starting in January 2020, a new electronic questionnaire was introduced to make it more efficient for respondents to complete the survey and for processing the data. Few modifications were made to the content, apart from the removal of the question on professional certification and from changes to the question on the duration of the vacancy. The option of constantly recruiting is no longer included as a response to the question on the duration of the vacancy, while a new question was added to assess whether the recruitment for the position is expected to be ongoing. As such, vacancy duration data from 2015-2019 is not comparable with vacancy duration data from 2020 onwards.

Beginning with the release of October 2020 data, monthly estimates from the JVWS are published. These estimates are available for the reference months starting from April 2015.

Data collection for the JVWS is done on a quarterly basis. The quarterly sample of business locations is allocated to the three collection months of the quarter, approximately balanced by province and by industrial sector across each of the three months. This allows both quarterly and monthly estimates to be produced. Quarterly data offers more detailed estimates, including breakdowns by occupation and data on offered hourly wages and job vacancy characteristics, while monthly data offers more timely high-level estimates.

2 Concepts and definitions

2.1 Concepts and definitions of the Job Vacancy and Wage Survey

This section provides users with definitions of the terms and variables associated with the survey.

Average offered hourly wage: The average offered hourly wage by employers for vacant positions **excludes** overtime, tips, commissions and bonuses. Salaries are converted to hourly wages based on information regarding the salary frequency and the expected average number of hours worked per week. The offered wage may be different from the actual wage paid once the position is filled.

If the salaries among the job vacancies for the same occupation vary, the respondent is asked to report the lowest wage or salary. When the compensation advertised for the job vacancy is in the form of a salary range or an hourly pay range, the respondent is asked to report the lowest value of the range. If the work will be paid based on, for example, the number of parts produced, mileage or the number of times a task is performed, the respondent is asked to report the expected minimum salary.

Constantly recruiting: Recruitment is expected to continue after the current vacancies are filled. This question was added on January 1st, 2020.

Duration of job vacancy: Number of days the job has been vacant at the time of the survey. In the context of the JVWS, it refers to the number of days of active recruitment.

Economic region: An economic region (ER) is a grouping of complete census divisions (with one exception in Ontario) created as a standard geographic unit for analysis of regional economic activity. ERs are classified in accordance with the [Standard Geographical Classification 2016](#). Several ERs are combined to ensure consistency with the ERs available in the Labour Force Survey. Estimates are released for 69 ERs and combined ERs. A list of ERs and Standard Geographical Classification codes by province is available in **Appendix A**.

Employees or payroll employees: The 'employee' concept used in the JVWS is comprised of full-time employees, part-time employees, as well as permanent, casual, temporary, and seasonal employees. It also includes working owners, directors, partners, and other officers of incorporated businesses, as well as employees who work off site (e.g., at home or on the road) but report to the location, and those employees on paid leave.

The 'employee' concept used in the JVWS is meant to exclude owners or partners of unincorporated businesses and professional practices, the self-employed, subcontractors, external consultants, unpaid family workers, persons working outside Canada, and military personnel. It also excludes employees on unpaid leave, such as those on extended sick leave who are receiving insurance benefits. JVWS employment estimates are calibrated to correspond to the employment estimates from the [Survey of Employment, Payrolls and Hours \(SEPH\)](#).

Industry: General nature of the activity carried out by the location. Industries are classified in accordance with the [North American Industry Classification System \(NAICS\) 2017 version 3.0](#). This information is taken from the Business Register, a database containing the complete list of all active businesses in Canada that have a Canadian income tax account, are employers, or have a Goods and Services Tax account. Survey respondents are also asked to confirm the industry in which their business operates during the survey.

Job vacancies: A job is vacant if it meets all of the following conditions:

- it is vacant on the reference date (first day of the month) or will become vacant during the month
- there are tasks to be carried out during the month for the job in question
- the employer is actively recruiting outside the organization to fill the job.

The jobs could be full-time, part-time, permanent, temporary, casual, or seasonal. Jobs reserved for subcontractors, external consultants, or other workers who are not considered employees, are excluded (see **Employees or payroll employees**).

Job vacancy rate: The number of job vacancies expressed as a proportion of total labour demand (the sum of filled and vacant positions).

Labour demand: The sum of employed individuals (met labour demand) and the number of job vacancies (unmet labour demand).

Level of education sought: Minimum level of education sought for the job vacancies. It includes a category that covers vacancies for which there is no educational requirement.

Level of experience sought: Minimum number of years of experience sought for the job vacancies.

Location: Refers to the lowest level of the [Business Register](#) statistical hierarchy. The location, as a statistical unit, is defined as a production unit at a single geographical location at which or from which economic activity is conducted and for which, at a minimum, employment data are available.

Monthly estimates: The JVWS collects quarterly data from a sample of 100,000 locations each quarter, with approximately one-third of this sample being collected each month. Monthly estimates are created using the third of the sample collected in the relevant month.

Occupation: Designates the type of work that must be carried out, based on the job title and on the key activities or functions associated with the job vacancies. Occupations are classified according to the [National Occupational Classification \(NOC\) 2016](#).

Professional certification: Designation granted that attests to the person's ability to perform a job or task. Usually, certification is granted if the candidate passes an exam that tests the required knowledge and skills for a job. A certification is generally granted by a certifying agency or a professional association. This question is no longer asked as of January 1st, 2020.

Quarterly estimates: The JVWS collects quarterly data from a sample of 100,000 locations. The number of job vacancies and the number of payroll employees are stocks (or counts) of distinct vacancies and jobs over three months and are not weighted averages of monthly estimates.

Recruitment strategies: Methods used by the employer to fill a job vacancy.

Type of position: Vacant jobs are classified as permanent, temporary or seasonal.

- A **permanent** job is one that is expected to last as long as the employee wants it, given that business conditions permit. That is, there is no pre-determined termination date.
- A **temporary** job has a predetermined end date, or will end as soon as a specified project is completed. Some temporary jobs are **seasonal** when they are linked to a recurring event (e.g., public holidays) or time of the year (e.g., summertime).

Type of work: A **full-time** job or vacancy requires 30 or more hours of work per week, while a part-time job or vacancy requires less than 30 hours of work per week.

2.2 Questionnaire development

The content and concepts of the original JVWS questionnaire were developed through consultations with Employment and Social Development Canada. Qualitative testing took place through a series of interviews in both English and French conducted by Statistics Canada's Questionnaire Design Resource Centre. In these interviews, participants were asked for their comments about the terminology, the concepts, the appearance of the electronic questionnaire screens, and the ease of providing information. The same process was followed to test the new questionnaire implemented in January 2020.

Statistics Canada's Business Payrolls Survey and job vacancy surveys used in other countries were also used as information sources in developing the survey content.

3 Survey methodology

3.1 Target and survey population

The JVWS target population includes all business locations in Canada, excluding religious organizations (NAICS 8131), private households (NAICS 814), and federal, provincial and territorial, as well as international and other extra-territorial public administrations (NAICS 911, 912 and 919).

The JVWS survey population comes from the [Business Register](#) (BR) of the Data Integration Infrastructure Division at Statistics Canada. The BR is updated continuously using data from various surveys, business profiling and administrative data.

In addition to the industry exclusions mentioned earlier, the survey population also excludes locations that have not reported any payroll deductions for a period of more than 17 months and new locations for which the industry or economic region is missing in the BR. In addition, locations with only one employee have been excluded from the survey population to reduce the response burden on small businesses. However, estimates are weighted to be representative of all businesses with one employee or more.

Given that the Survey of Employment, Payrolls and Hours (SEPH) and the JVWS target populations are very similar, employment estimates produced from the JVWS survey population data have been calibrated to ensure they correspond to those from the SEPH. Data calibration improves the reliability of the estimates and consistency of estimates across surveys (see the sub-section entitled **Estimation**).

3.2 Sample

The JVWS is a sample survey with a cross-sectional design. The sample is selected from a survey population of approximately 900,000 locations.

The survey is conducted on a sample of approximately 100,000 locations.¹ Since the beginning of 2017, about 1/8 of the sample is rotated out each quarter. With the exception of certain locations that are in the sample on a permanent basis due to their unique characteristics, most sampled locations will remain in the sample for two years, or eight quarters. Note that locations that were part of the 2015 and 2016 sample may have remained in the sample for over two years, as the rotating out of locations is done gradually. Every three months, the JVWS sampling frame is updated to reflect new locations added to the Business Register and to eliminate those that no longer exist.

The JVWS sample is stratified by industry (at the two-digit NAICS level), geography (economic region) and size (number of employees per location). A power allocation method is used to determine the sample size in each stratum. The stratification and the power allocation method ensure the quality of the estimates for large and small regions and industries, as well as a better representation of all occupations.

4 Data collection

The JVWS is a mandatory survey. Data are obtained directly from respondents using an electronic questionnaire. An invitation to complete the electronic questionnaire is sent by email to respondents with an electronic address on file. Selected businesses with no electronic address on file receive a letter inviting them to complete the electronic questionnaire. Alternate modes of collection, such as electronic spreadsheets, may be used to accommodate respondents with a large number of locations or occupations. Each quarterly sample is divided into three distinct monthly groups, each of which have the first day of the month as the reference period. This allows a better measure of the job vacancies throughout the quarter, and makes it possible to produce monthly estimates in addition to quarterly estimates. Respondents are asked to provide the information based on the situation in effect at their location on the first day of the month (the reference date).

During collection, follow-up is made by computer-assisted telephone interview (CATI) in cases of non-response, and with locations that have reported being out of scope for the survey. During the collection period, reminders are sent to locations that have not yet completed the questionnaire, and, after three electronic reminders, follow-up calls are made to collect the data.

The questionnaire can be found on the [Integrated Metadatabase \(IMDB\)](#).

The following information is confirmed by the respondent:

- legal and operating name of the location
- name and contact information of the contact person
- location's main activity sector (NAICS).

The following information is collected from the respondent at the location level:

- number of employees
- number of job vacancies for each occupation
- full-time/part-time distribution of the vacant jobs in each occupation
- permanent/temporary distribution of the vacant jobs in each occupation
- number of seasonal job vacancies in each occupation
- wage offered for full-time and part-time vacant jobs in each occupation
- number of days that the jobs have been vacant
- constantly recruiting for the vacant jobs (added in January 2020)
- minimum level of education sought for the vacant jobs
- professional certification required for the vacant jobs (terminated)
- minimum level of experience sought for the vacant jobs
- recruitment strategies used to fill the vacant jobs.

1. For the first quarter of 2015, information was collected on 67,000 locations obtained from the regular quarterly sample of 100,000 locations. See **Appendix B** for more information regarding the estimates for the first quarter of 2015.

5 Data processing

5.1 Treatment of non-response

There are two types of non-response, each of which is treated differently for this survey:

- total (or unit) non-response – when the respondent does not respond to any of the survey questions
- partial (or item) non-response – when the respondent only responds to certain survey questions.

Total non-response is handled by imputing the data of certain influential non-responding units. The data of these units are imputed based on a combination of data that the units have provided in the past, administrative data and data of other units contributing to the same estimation domain. Then, an adjustment is performed on the weights (or reweighting) of the responding units and of those for which the data were imputed to account for the remaining non-responding units.

In the case of partial non-response, imputation is used to fill in information not provided by the respondent. Imputation makes it possible to have a complete set of data if one cannot collect it during the collection period. Depending on the type of missing variables, a mix of regression and donor imputation methods is used. Most continuous variables, such as wage variables, are imputed by regression imputation. For donor imputation, the auxiliary information on the sampling frame is used to identify a donor (a responding unit) that has characteristics similar to that of the location with partial data. The missing data for the respondents with partial information are then replaced by the donor's data.

5.2 Occupation coding

Occupation codes are assigned to each job vacancy using the job title and job description reported in the questionnaire. From 2015 Q1 to 2019 Q4, coding has been performed manually and assisted by a computerized procedure. As of 2020 Q1, certain common job titles are being coded by an automated system and the rest are coded manually. Assigned codes are based on the National Occupational Classification (NOC) 2016.

5.3 Estimation

Estimating the characteristics of a population from a survey is based on the assumption that each sampled location represents a certain number of non-sampled locations in the population. An initial design weight is assigned to each location to indicate the number of units in the population represented by that location in the sample. Large or otherwise unique locations are assigned a weight of "one" to ensure that they only represent themselves.

Two adjustments are made to the initial weights to improve the reliability of the estimates. First, the initial weights are adjusted to compensate for total or almost total non-response. The non-response adjusted weights are then modified so that the weighted employment totals are calibrated to the employment totals of the SEPH. This calibration process ensures coherence between the JVWS and SEPH employment totals by province and industrial sector (two-digit NAICS) combined, with the exception of Prince Edward Island, where the calibration is done at the provincial level only. Similarly, the calibration for the territories is done at the territorial level only.

Monthly estimates are produced for job vacancies, job vacancy rates, and payroll employment using a similar process, and using available responses from business locations sampled in the corresponding reference month. Adjustments to the weights are done independently for the monthly and quarterly estimates. For this reason, and due to differences in calibration groups, the quarterly estimates are not expected to be equal to an average of the monthly estimates for the corresponding quarter.

5.4 Revisions and seasonal adjustment

5.4.1 Seasonal Adjustment

Some of the data series are seasonally adjusted to facilitate month-to-month or quarter-to-quarter comparisons and to show trends from which seasonal movements have been eliminated. A seasonally adjusted time series is a time series that has been adjusted to eliminate sub-annual seasonal and calendar effects. These variations result from the composite effects of climatic events, institutional decisions or modes of operation, which occur repeatedly with some regularity within the year. Calendar effects are related to the composition of the calendar and include trading-day effects, moving holiday effects associated with non-fixed date holidays such as Easter, and other predictable events. The seasonal adjustments are based on the well-established X-12-ARIMA method.

As part of this process, seasonally adjusted estimates are then further adjusted through a process known as raking or reconciliation to ensure coherence across levels of aggregation, e.g., that job vacancy totals for the provinces and territories add up to the national job vacancy total. Monthly and quarterly seasonally adjusted estimates are also benchmarked to ensure that the annual averages are the same for seasonally adjusted and unadjusted estimates.

For more information on seasonal adjustment, see [Seasonally adjusted data – Frequently asked questions](#). Seasonal adjustment is performed according to [Statistics Canada's Quality Guidelines](#).

5.4.2 Revisions of unadjusted data

From 2017 to 2019, the JWVS has produced revised estimates on an annual basis for all previously released unadjusted cycles.

Regular revisions are done to calibrate JWVS employment to revised SEPH employment numbers. Occasionally, revisions may also include changes related to concepts, new data sources, revised industrial, occupational or geographical classifications, as well as methodology.

Monthly estimates which are unadjusted for seasonality are preliminary until the quarterly estimates for the corresponding quarter are released, at which point the monthly estimates are revised.

5.4.3 Revisions of seasonally adjusted data

When seasonally adjusted estimates are released, estimates for the previous four quarters (for quarterly estimates) or six months (for monthly estimates) are revised using updated seasonal patterns. The entire seasonally adjusted series is also revised annually.

However, due to this revision schedule, the annual averages for the seasonally adjusted series may not be the same as the unadjusted series in years that have at least one quarter (for quarterly estimates) or one month (for monthly estimates) within the five-quarter or seven-month revision period. For this reason, data users who seek to create an annual series from monthly or quarterly data should use the unadjusted series.

6 Data quality

The estimates obtained from sample surveys are subject to both sampling and non-sampling errors.

6.1 Non-sampling errors

Non-sampling errors may occur throughout a survey for reasons such as non-response, coverage and classification errors (see the sub-section entitled **Undercoverage**), differences in the interpretation of the question, incorrect information from respondents, as well as errors during data capture, coding, and processing. Efforts to reduce non-sampling errors include careful design of questionnaires, editing of data, follow-up, imputation for non-responding units, and thorough control of processing operations.

The JWVS has a quality control program that is applied to data capture, business structure updating and data editing stages to minimize non-sampling errors. This program monitors and controls the completeness, accuracy and consistency of the reported data. Follow-up procedures are in place for non-response.

6.1.1 Undercoverage

The use of sampling frames results in coverage errors, notably undercoverage. Undercoverage occurs when the information on a location is incomplete in the Business Register. This normally happens in the case of new locations that have not yet filed payroll deduction forms with the Canada Revenue Agency.

6.2 Sampling errors

Sampling errors occur because observations are obtained from a sample rather than from the entire population. Estimates based on a sample can differ from statistics that would have been obtained if a complete census had been taken using the same instructions, interviewers and processing techniques. This difference is called the sampling error of the estimate.

6.3 Data quality indicators

The true sampling error is unknown. However, it can be estimated from the sample itself by using a statistical measure called the standard error. The standard error can be used to build a confidence interval for the estimate. When the standard error is expressed as a percentage of the estimate, it is known as the relative standard error or the coefficient of variation (CV).

Most of the JWWS data points have their own data quality indicator. Estimates are assigned a letter to indicate their quality level. The indicators consider various factors that affect the quality of the data, notably the CV, the non-response errors, the imputation errors and subject matter expertise. These indicators are updated each quarter to reflect the most recent data quality estimates.

The overall national response rate usually varies between 75% and 85%.

Users are encouraged to consider the quality indicators when using the JWWS data.

As shown in Table 1, the quality indicators are:

- A. — excellent
- B. — very good
- C. — good
- D. — acceptable
- E. — use with caution
- f. — too unreliable to publish.

Users are encouraged to consider the quality indicators when using the JWWS data.

Table 1
Quality indicators for JWWS estimates^{1,2,3}

Quality indicator	Coefficient of variation
A	0% to 4.99%
B	5% to 9.99%
C	10% to 14.99%
D	15% to 24.99%
E	25% to 34.99%
F	35% or more, or when there is an insufficient number of contributors

1. Except for estimates from the first quarter of 2015. See **Appendix B** for quality indicators by variable for data from the first quarter of 2015.

2. Estimates of employment and number of vacancies can have a large spread (e.g., a large difference between the maximum and minimum value) relative to other variables in the JWWS. Variables with a large spread tend to have lower quality.

3. Other factors can influence the quality indicators in addition to the coefficient of variation.

Source: Job Vacancy and Wage Survey ([5217](#)).

6.4 Confidentiality

Statistics Canada is prohibited, by law, from releasing any data that would divulge information obtained under the *Statistics Act*, which relates to any identifiable person, business or organization without their prior knowledge or written consent. Various confidentiality rules are applied to all data that are released or published to prevent the publication or disclosure of any information deemed confidential. If necessary, estimates are suppressed to prevent direct or residual disclosure of identifiable data.

The results of the JWWS are reviewed using the appropriate security measures complying with the *Statistics Act* to assure the safeguarding of the respondent’s information and to ensure that no enterprise may be identified through the release of the estimates.

7 Comparing the JWWS and the former Job Vacancy Statistics

From 2015 to 2019, Statistics Canada had two measures of job vacancy levels and rates: the JWWS and the Job Vacancy Statistics (JVS), the latter of which is based primarily on data from the Business Payrolls Survey.² Given the similarity of the two, Statistics Canada discontinued JVS in the fall of 2019.

Some methodological differences exist between the JWWS and the JVS. The main methodological differences are described in Table 2. Users are encouraged to take these into account when comparing data from the two sources.

Table 2
Comparison of the Job Vacancy and Wage Survey (JWWS) and the Job Vacancy Statistics (JVS)

	JWWS	JVS
Population	All businesses with one employee or more, excluding: <ul style="list-style-type: none"> • private household services • religious organizations • provincial, territorial and federal public administration • international and other extraterritorial public administration. 	All businesses, excluding: <ul style="list-style-type: none"> • private household services • religious organizations • provincial, territorial and federal public administration • international and other extraterritorial public administration • businesses primarily involved in agriculture, fishing and trapping.
Sample size	The JWWS surveys approximately 100,000 locations quarterly (about 33,000 per month).	The JVS uses the Business Payrolls Survey (BPS) as its main data collection vehicle. The BPS surveys approximately 15,000 establishments monthly.
Sampling unit	Location level: <ul style="list-style-type: none"> • e.g., the individual business location (store or restaurant) is generally surveyed. 	Establishment level (an establishment can represent a group of locations): <ul style="list-style-type: none"> • e.g., for a large retailer or restaurant chain, the head office is generally surveyed.
Respondents	JWWS respondents are more likely to be directly responsible for human resources.	BPS respondents are more likely to be responsible for the payroll of the company.
Job vacancy concept	The number of vacant jobs on the first day of the month and those that will become vacant during the month. A job is vacant if it meets all three of the following conditions: <ul style="list-style-type: none"> • it is vacant on the reference date (first day of the month) or will become vacant during the month • there are tasks to be carried out during the month for the job in question • the employer is actively recruiting outside the organization to fill the job. 	The number of vacant jobs on the last day of the month, since this is the reference period of the supplementary questions on vacant positions of the Business Payrolls Survey. A job is vacant if it meets all three of the following conditions: <ul style="list-style-type: none"> • a specific position exists • work could start within 30 days • the employer is actively seeking a worker from outside the organization to fill the position.

Sources: Job Vacancy and Wage Survey ([5217](#)) and Job Vacancy Statistics ([6202](#)).

2. The Business Payrolls Survey (BPS) is the collection instrument for the Survey of Employment, Payrolls and Hours (SEPH, record number [2612](#)). The results of the BPS and administrative data are combined to produce the SEPH estimates.

8 Products and services

8.1 General inquiries

For inquiries on available data tables, contact Statistics Canada's Statistical Information Service (toll-free: 1-800-263-1136; 514-283-8300; infostats@statcan.gc.ca).

Appendix A - List of economic regions and Standard Geographical Classification (SGC) codes by province and territory

Table A.1

List of economic regions and Standard Geographical Classification (SGC) codes by province and territory

Economic regions by province and territory	Codes
Newfoundland and Labrador	10
Avalon Peninsula	1010
South Coast–Burin Peninsula and Notre Dame–Central Bonavista Bay	1020, 1040
West Coast–Northern Peninsula–Labrador	1030
Prince Edward Island	11
Prince Edward Island	1110
Nova Scotia	12
Cape Breton	1210
North Shore	1220
Annapolis Valley	1230
Southern	1240
Halifax	1250
New Brunswick	13
Campbellton–Miramichi	1310
Moncton–Richibucto	1320
Saint John–St. Stephen	1330
Fredericton–Oromocto	1340
Edmundston–Woodstock	1350
Quebec	24
Gaspésie–Îles-de-la-Madeleine	2410
Bas-Saint-Laurent	2415
Capitale-Nationale	2420
Chaudière-Appalaches	2425
Estrie	2430
Centre-du-Québec	2433
Montérégie	2435
Montréal	2440
Laval	2445
Lanaudière	2450
Laurentides	2455
Outaouais	2460

Table A.1
List of economic regions and Standard Geographical Classification (SGC) codes by province and territory

Economic regions by province and territory	Codes
Abitibi-Témiscamingue	2465
Mauricie	2470
Saguenay-Lac-Saint-Jean	2475
Côte-Nord and Nord-du-Québec	2480, 2490
Ontario	35
Ottawa	3510
Kingston-Pembroke	3515
Muskoka-Kawarthas	3520
Toronto	3530
Kitchener-Waterloo-Barrie	3540
Hamilton-Niagara Peninsula	3550
London	3560
Windsor-Sarnia	3570
Stratford-Bruce Peninsula	3580
Northeast	3590
Northwest	3595
Manitoba	46
Southeast	4610
South Central and North Central	4620, 4640
Southwest	4630
Winnipeg	4650
Interlake	4660
Parklands and North	4670, 4680
Saskatchewan	47
Regina-Moose Mountain	4710
Swift Current-Moose Jaw	4720
Saskatoon-Biggar	4730
Yorkton-Melville	4740
Prince Albert and Northern	4750, 4760
Alberta	48
Lethbridge-Medicine Hat	4810
Camrose-Drumheller	4820
Calgary	4830
Banff-Jasper-Rocky Mountain House and Athabasca-Grande Prairie-Peace River	4840, 4870
Red Deer	4850
Edmonton	4860
Wood Buffalo-Cold Lake	4880
British Columbia	59
Vancouver Island and Coast	5910

Table A.1**List of economic regions and Standard Geographical Classification (SGC) codes by province and territory**

Economic regions by province and territory	Codes
Lower Mainland–Southwest	5920
Thompson–Okanagan	5930
Kootenay	5940
Cariboo	5950
North Coast and Nechako	5960, 5970
Northeast	5980
Yukon	60
Yukon	6010
Northwest Territories	61
Northwest Territories	6110
Nunavut	62
Nunavut	6210

Source: [Standard Geographical Classification 2016](#).

Appendix B – Note regarding the estimates of the JWWS for the first quarter of 2015

For the first quarter of 2015, information was collected on 67,000 locations obtained from the regular quarterly sample, or two-thirds of the regular sample. Since only two-thirds of the sample, corresponding to February and March, were collected, estimates for the first quarter of 2015 are subject to higher sampling variability. As a result, comparisons of the first quarter of 2015 data with data from subsequent quarters should be made with caution.

The response rate for the two collection months of the first quarter of 2015 was 66.8%. However, since only two-thirds of the sample was collected, the effective response rate is 44.1%. The effective response rate has an impact on data accuracy and, consequently, on the quality indicators of the first quarter of 2015 data.

To account for the missing sample units, the quality indicators for all variables, with the exception of payroll employment, have been lowered.

Appendix C – Note regarding the estimates of the JWWS for the second and third quarter of 2020

Data collection was suspended for the second and third quarter of 2020, due to the COVID-19 pandemic. As such, quarterly data is not available for the second and third quarter of 2020, and monthly data is not available for the months that make up these quarters (April–September 2020).

As the reference date for the JWWS is the first of the month, quarterly estimates for the first quarter of 2020 and monthly estimates for March 2020 are not affected by the COVID-19 pandemic and associated public health restrictions, which for the most part were implemented in Canada later in the month.

Related products

Tables

14-10-0325-01 (formerly CANSIM table 285-0001)	Job vacancies, payroll employees, job vacancy rate, and average offered hourly wage by provinces and territories, quarterly, unadjusted for seasonality
14-10-0325-02 (formerly CANSIM table 285-0001)	Job vacancies, payroll employees, job vacancy rate, and average offered hourly wage by economic regions, quarterly, unadjusted for seasonality
14-10-0326-01 (formerly CANSIM table 285-0002)	Job vacancies, payroll employees, job vacancy rate, and average offered hourly wage by industry sector, quarterly, unadjusted for seasonality
14-10-0326-02 (formerly CANSIM table 285-0002)	Job vacancies, payroll employees, job vacancy rate, and average offered hourly wage by industry sub-sector, quarterly, unadjusted for seasonality
14-10-0356-01 (formerly CANSIM table 285-0003)	Job vacancies and average offered hourly wage by occupation (broad occupational category), quarterly, unadjusted for seasonality
14-10-0356-02 (formerly CANSIM table 285-0003)	Job vacancies and average offered hourly wage by occupation (minor group), quarterly, unadjusted for seasonality
14-10-0328-01 (formerly CANSIM table 285-0004)	Job vacancies, proportion of job vacancies and average offered hourly wage by selected characteristics, quarterly, unadjusted for seasonality
14-10-0328-02 (formerly CANSIM table 285-0004)	Job vacancies, proportion of job vacancies and average offered hourly wage by occupation and type of work, quarterly, unadjusted for seasonality
14-10-0328-03 (formerly CANSIM table 285-0004)	Job vacancies, proportion of job vacancies and average offered hourly wage by occupation and duration of job vacancy, quarterly, unadjusted for seasonality
14-10-0328-04 (formerly CANSIM table 285-0004)	Job vacancies, proportion of job vacancies and average offered hourly wage by occupation and type of position, quarterly, unadjusted for seasonality
14-10-0328-05 (formerly CANSIM table 285-0004)	Job vacancies, proportion of job vacancies and average offered hourly wage by occupation and minimum level of education sought, quarterly, unadjusted for seasonality
14-10-0328-06 (Archived) (formerly CANSIM table 285-0004)	Job vacancies, proportion of job vacancies and average offered hourly wage by occupation and certification requirement, quarterly, unadjusted for seasonality
14-10-0328-07 (formerly CANSIM table 285-0004)	Job vacancies, proportion of job vacancies and average offered hourly wage by occupation and minimum experience level sought, quarterly, unadjusted for seasonality
14-10-0328-08 (formerly CANSIM table 285-0004)	Job vacancies and proportion of job vacancies by occupation and recruitment strategies, quarterly, unadjusted for seasonality
14-10-0371-01	Job vacancies, payroll employees, and job vacancy rate by provinces and territories, monthly, unadjusted for seasonality
14-10-0372-01	Job vacancies, payroll employees, and job vacancy rate by industry sector, monthly, unadjusted for seasonality
14-10-0398-01	Job vacancies, payroll employees, and job vacancy rate, by economic regions, quarterly, adjusted for seasonality
14-10-0399-01	Job vacancies by occupation (broad occupational category), by type of work and position, quarterly, adjusted for seasonality
14-10-0400-01	Job vacancies, payroll employees, and job vacancy rate by industry sector, quarterly, adjusted for seasonality
14-10-0406-01	Job vacancies, payroll employees, and job vacancy rate by industry sector, monthly, adjusted for seasonality
14-10-0432-01	Job vacancies, payroll employees, and job vacancy rate by provinces and territories, monthly, adjusted for seasonality

Surveys

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