

Image courtesy of BC Ministry of Transportation and Infrastructure

The project included widening Mount Lehman Road from two lanes to four, adding new bike lanes and sidewalk, enhancing lighting and improving the Simpson Road, Marshall Road and Marshall Road Extension intersections.

Total cost of the project: \$27.5 million (\$8.3 million from Government of Canada, \$17.1 million from Province of B.C. and \$2 million from the City of Abbotsford)

BRITISH COLUMBIA MAJOR PROJECTS INVENTORY

FIRST QUARTER 2020



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British Columbia Major Projects Inventory

First Quarter 2020

Major Projects Inventory as of March 31, 2020.

Publisher: Workforce Innovation and Division Responsible for Skills Training, Ministry of Advanced Education, Skills and Training.

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Report prepared by Workforce Innovation and Division Responsible for Skills Training staff.

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About this Report

The objectives of this report are to analyze the updates to the Major Projects Inventory and to provide additional context on changes to economic conditions and construction activities. These snapshots of current economic activities are provided to help readers form expectations of the construction activities into the next quarter. This report was prepared with the most current data from economic indicators.

Detailed project listings are available in a searchable Excel database: www.majorprojectsinventory.com

Please address report feedback to Man Wang, Labour Market Insights, Evaluation and Outreach Branch at: Man.Wang@gov.bc.ca

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The B.C. Major Projects Inventory (MPI), published quarterly, provides summary information on major projects in the Province of British Columbia. The MPI includes a listing of private and public sector construction projects in B.C. with an estimated capital cost of \$15 million (CAD) or greater (\$20 million or greater within the Lower Mainland–Vancouver area).

Since 2019 Quarter 1, about 75% of all the existing projects received an update each quarter. New projects are added to the list every quarter. Projects on hold for longer than two years are removed from the inventory. Completed projects are removed from the list in the following quarter.

Information collected in the MPI includes:

Project identification	Project name, description, specific and regional location, geographic coordinates, developer, contact information, project type, and project category
Project status	 Proposed, under construction, completed, or on hold Proposed stages Start and completion dates (if available) Update activity on project status Environmental assessment stage
Project size	Estimated capital cost (if available)
Other project characteristics	Construction type, construction subtype, public sector projects, clean energy projects and/or green (i.e. LEED) building projects, Indigenous peoples' agreements, the number of construction jobs and operating jobs.

While every effort is made to maintain a comprehensive project list that includes the most current publicly available information, it is important to note that projects are constantly added and re-evaluated by industry. Not all major projects are included in the MPI since projects need to be publicly announced in order to be included and some project information is not published due to confidentiality requirements.

Sources of MPI Information

Information sources include print and electronic media, developers, architects, general contractors, and government agencies (provincial, regional, municipal) as well as occasional site visits. Projects that are under consideration or proposed to be funded by the provincial government may be listed where there is public information about such projects. The description may indicate the status of provincial funding applications if such information is publicly available.

Project Location

Projects are listed within the eight economic development regions: Vancouver Island/Coast, Mainland/Southwest (Vancouver area), Thompson-Okanagan, Kootenay, Cariboo, North Coast, Nechako, and Northeast. A map showing the location of the regions and main population centres is included in the regional sections of the MPI. Projects are also listed according to the nearest population centre, which could be an unincorporated centre or a local government (e.g., a municipality).

Estimated Cost

Cost estimates are general estimates from the information sources used and are not necessarily produced in a consistent manner. The estimated costs are revised when new information is available. All estimates are recorded in millions of dollars. All capital costs in this report are estimates and therefore subject to change. This is particularly applicable in the early stages of a project proposal. Some capital costs are not included because they were not available at press time or the developer or owner requested that no capital cost be shown.

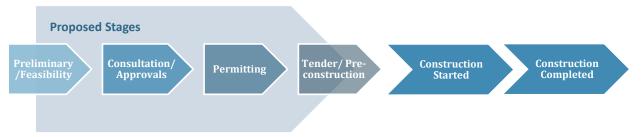
Start and Finish Dates

Start and finish dates for proposed projects are based on estimates from the sources used, or in some cases, reasonable assumptions. These dates are revised as new information becomes available.

Project Status

Projects are listed by status: proposed, under construction, completed, or on hold. Projects that are on hold for longer than two years are normally removed from the publication (although retained in our database). Cancelled projects are identified in the project description as "cancelled" and noted in a new field. Update Activity is identified as "cancelled-removing next issue". Cancelled projects and completed projects in this quarter will be removed from the next issue of the MPI. Changes to project status are based on public information releases and/or information supplied by project proponents. Cancelled projects are not included in reported totals in this report.

The following diagram illustrates the project stages listed in the database.



Technically, projects can have their status moved to "cancelled" at any stage except at the construction completed stage.

Proposed

Any major projects in the public realm with an intention to proceed on the part of a credible proponent are added to the database. Often major projects with an official news release or funding confirmed are added to the inventory. Projects released on the official websites may be included but are subject to approval for inclusion by the proponent. A review process for public projects is obtained by the project manager where the respective ministry can decide to include or remove the proposed projects based on feasibility or funding available for the project.

Proposed projects usually go through four stages prior to reaching the construction stage.

At the **Preliminary/Feasibility** stage, the feasibility of the project has been reviewed and the project's design and planning are in process.

The Consultation/Approvals stage includes approvals for the zoning, environmental assessment, Indigenous peoples and other public open house processes.

A proposed project will enter the **Permitting** stage after obtaining the required approvals (i.e. environmental assessment certificate, if indicated). This stage includes development and building permits, mines, water licenses and other additional information required before moving into pre-construction stage.

The Tender/Pre-construction stage includes construction tenders and building site preparation such as preloading, demolition, and excavation. The pre-construction work such as excavation or site work may begin in preparation for the construction permit.

Sustainable Building Design

Information on sustainable building designs and construction projects that are registered and certified under a recognized green building rating system are identified. Examples of green building rating system include Leadership in Energy and Environmental Design (LEED®) and Green Globes. LEED buildings provide an environmentally responsible standard for energy efficiency at home and in the workplace. This designation has been added to the project description to promote awareness of the benefits of green buildings.

Indigenous Affiliation

Information related to Indigenous peoples' involvement in projects is based on news releases and published project information that is publicly available. The information is consistent with the information maintained in the Indigenous Business and Investment Council Database (BCIBIC: www.bcibic.ca).

Project Category

Project Category lists the seven industrial categories:

- a.) manufacturing;
- b.) mining, oil and gas extraction;
- c.) other services;
- d.) public services;
- e.) residential or commercial;
- f.) transportation and warehousing; and,
- g.) utilities (including sewage treatment).

Note: Liquefied Natural Gas (LNG) projects are classified under mining, oil and gas extraction. This is different from the North American Industry Classification System in which LNG liquefaction is classified as being in the transportation industry.

Environmental Assessment Stage

The stages of environmental assessment for each project undergoing review under the *B.C. Environmental Assessment Act* are added to this issue.

Latitude and Longitude

Field latitude and longitude are noted in the Degrees Minutes Seconds (DMS) format.

Telephone

Contact number of the project developer or representative.

Update Activity

Readers can search for and select projects based on the following seven criteria:

- a.) new proposed projects
- b.) project started construction
- c.) cancelled-removing next issue
- d.) project added-under construction
- e.) project completed-removing next issue
- f.) project placed on hold; and,
- g.) project removed from hold.

1. B.C. Major Projects Highlights –Q1 2020

The estimated capital cost of all 983 major projects in the first quarter of 2020 has increased from \$363.40 billion (B) in the fourth quarter of 2019 to \$367.80 B. Note that the total capital cost is the combined estimated value of projects identified as proposed, construction started, completed, and on hold excluding cancelled projects.

There are 28 new proposed projects over \$15 million (M) with available capital cost estimates totaling \$4.3 B if all the projects were to proceed. The potential capital investment for new projects has decreased from \$11.3 B in the fourth quarter of 2019.

There are 25 projects that have started construction in B.C., representing an estimated capital cost of \$1.46 B, up from the \$1.32 B reported in the fourth quarter of 2019. Twenty-six projects completed construction in the first quarter of 2020, with an estimated capital cost of \$3.81 B compared to \$1.13B in the fourth quarter of 2019.

There are 248 projects with public funding contributions with a total capital cost of \$44.90 B. Funding for these projects is allocated through municipal, provincial and/or federal levels of government, crown corporations, public institutions and may include private partnerships. Of these, 152 projects worth a total of \$24.47 B have provincial government funding contributions.

There are 61 projects with a total estimated cost of \$126.66 B involving Indigenous communities in capacities such as project owners, project partners or benefit agreements.

Major projects currently under construction in B.C. totaled \$112.27 B, down from the \$115.07 B in the fourth quarter of 2019. Proposed projects totaled \$220.46 B, increased from \$215.98 B in the previous quarter. Many major project proposals listed are in very preliminary stages and are not approved for construction, therefore capital cost estimates should be viewed with caution. Approximately \$31.26 B of projects are judged to be 'on hold' for the time being, slightly higher than the previous quarter.

All capital costs in this report are estimates and therefore subject to change. Some capital costs are not included because they were not available at press time or the developer or owner requested that no capital cost be shown.

Figure 1 B.C. MPI Highlights

	Number of total major projects
	Value of all projects
	Number of total proposed projects
\$220.46 B	Value of proposed projects
	Number of projects under construction
\$112.27 B	Value of projects under construction
	Number of projects completed
	Value of projects completed
28	Number of new proposed projects
\$4.30 B	Value of newly proposed projects

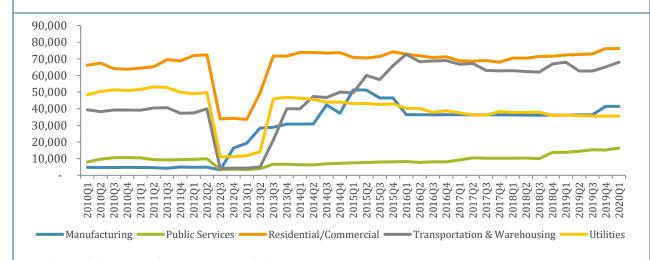
2. B.C. Major Projects Inventory – Q1 2020

By Project Category, Construction Type or Subtype

Exhibit 2.1 Estimated Cost Trends in B.C. Major Projects, by Project Category (\$ M)

Project Category	2019Q1	2019Q2	2019Q3	2019Q4	2020Q1	Change from the previous quarter	Change from the previous year
Mining & Oil & Gas Extraction	117,125	116,530	118,200	118,204	118,264	0.1%	1.0%
Residential/Commercial	72,382	72,614	72,994	76,163	76,232	0.1%	5.3%
Transportation & Warehousing	68,001	62,701	62,732	65,102	68,014	4.5%	0.0%
Manufacturing	36,195	36,337	36,337	41,497	41,497	0.0%	14.6%
Utilities (incl sewage treatment)	36,237	35,916	35,692	35,610	35,639	0.1%	-1.7%
Public Services	13,818	14,403	15,354	15,243	16,405	7.6%	18.7%
Other Services	11,539	11,641	11,637	11,585	11,746	1.4%	1.8%
Grand Total	355,297	350,142	352,946	363,404	367,797	1.2%	3.5%

Note: Liquefied Natural Gas (LNG) projects are classified under mining, oil and gas extraction. This is different from the North American Industry Classification System in which LNG liquefaction is classified as being in the transportation industry.



Note: chart excludes mining oil & gas extraction and other services projects

The total estimated capital cost of major projects in B.C was up in the first quarter of 2020 (Q1), totalling \$367.80 B, representing a 1.2% increase over the previous quarter and up 3.5% compared to last year.



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- In the first quarter of 2020, Oil and Gas projects (including LNG) represent 32.2% of the total estimated capital cost in the MPI.
- Residential and Commercial development projects comprise 544 of the 983 projects listed in the first quarter of 2020, representing a total estimated capital cost of \$76.2 B.
- Residential projects are concentrated in the Mainland/Southwest region (73.5%), Vancouver Island (16.8%), and Thompson-Okanagan (9%).
- Utility projects continue to be a significant driver for the province. The total cost of utilities projects is nearly \$35.6 B while the total cost of projects which are currently underway is over \$16.0 B.
- There are 53 mining projects listed in the MPI with a total estimated value of \$35.3 B.
- The top categories for new projects added to the MPI are Transportation & Warehousing (\$2.37 B). and Commercial (\$827 M).
- Public Infrastructure The value of public funding contributions was \$44.90 B for 248 projects across all levels of government. Of these, 152 projects worth a total of \$24.47 B have provincial government funding contributions. It is important to note that this figure reflects the total cost, not just the provincial contribution.

Exhibit 2.3 Estimated Cost of Regional Major Projects, by Construction Type and Subtype (\$ M)

Construction	Vancouve r	Mainland/	Thompson	Kootenay	Cariboo	North	Nechako	Northeast	Total
Type & Subtype	Island/Co ast	Southwest	Okanagan	Rootemay	Carnoco	Coast	rreemano	Hortifeast	. 0101
Residential Subtotal	12,145	32,491	9,540	80	0	0	100	20	54,376
Primarily residential - Single use	8,345	22,716	8,090	80	0	0	100	20	39,351
Residential Mixed Use	3,800	9,775	1,450	0	0	0	0	0	15,025
Commercial Subtotal	3,627	17,697	5,729	4,902	1,322	30	0	540	33,847
Commercial Mixed Use	100	2,730	0	0	0	0	0	0	2,830
Accommodation	2,266	4,867	3,299	2,302	940	0	0	0	13,674
Recreation	303	6,523	2,300	2,600	0	0	0	0	11,726
Retail	848	1,960	115	0	0	0	0	500	3,423
Office	70	472	0	0	0	0	0	0	542
Warehousing	0	265	0	0	0	0	0	0	265
Other Commercial	40	880	15	0	382	30	0	40	1,387
Industrial Subtotal	2,130	2,537	1,069	2,940	12,431	158,831	6,328	22,810	209,076
Mining	130	160	1,039	2,940	2,646	17,991	6,328	4,101	35,335
Oil & Gas	2,000	2,185	0	0	4,570	108,780	0	14,709	132,244
Manufacturing - Wood Products	0	0	30	0	0	60	0	0	90
Manufacturing - Petrochemical	0	0	0	0	5,200	32,000	0	4,000	41,200
Other Manufacturing	0	192	0	0	15	0	0	0	207
Institutional & Government Subtotal	4,485	9,407	1,234	77	361	468	148	125	16,305
Education	2,143	3,538	505	19	116	20	32	31	6,404
Health	690	5,656	729	58	245	448	116	50	7,992
Government buildings	1,632	213	0	0	0	0	0	44	1,889
Other Institutional & Government	20	0	0	0	0	0	0	0	20
Infrastructure Subtotal	8,757	17,388	2,930	1438	1,256	5,397	551	16,476	54,193
Utilities	6,760	4,524	1,071	1,383	1,110	3,939	506	16,346	35,639
Roads & Highways	306	7,197	1,709	55	146	273	45	130	9,861
Other Transportation	1,691	5,667	150	0	0	1,185	0	0	8,693
Grand Total	31,144	79,520	20,502	9,437	15,370	164,726	7,127	39,971	367,797

Exhibit 2.4 Estimated Cost Trends in B.C. Major Projects, by Project Status (\$ M)

Status	2019Q1	2019Q2	2019Q3	2019Q4	2020Q1	Change from the previous quarter	Change from the previous year
Proposed	205,769	205,635	205,140	215,984	220,459	2.1%	7.1%
Construction started	114,825	115,165	114,768	115,067	112,265	-2.4%	-2.2%
Completed	2,393	1,452	1,818	1,133	3,813	236.5%	59.3%
On hold	32,310	27,890	31,220	31,220	31,260	0.1%	-3.2%
Grand Total	355,297	350,142	352,946	363,404	367,797	1.2%	3.5%

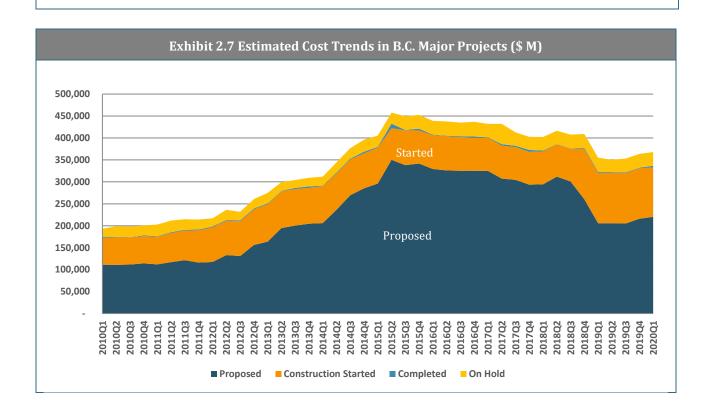
The value of completed projects increased to \$3.81 B in Q1 2020. Notable projects completed were The Rise Resort and Residential Development (\$1 B) in Vernon, Red Mountain Ski Resort Expansion (\$900 M) in Rossland and Fremont Village Mixed Use Development (\$500 M) in Port Coquitlam.

Exhibit 2.5 Summary of B.C. Major Projects (by Project Status)

	Estimated Capital Cost (\$M)	Percentage of Total	Number of Projects	Average Project Value (\$ M)	Average Years in Inventory
Proposed	220,459	60%	513	474	5.7
Preliminary/Feasibility	60,473	16%	124	581	4.4
Consultation/Approvals	71,693	19%	217	357	6.7
Permitting	43,468	12%	43	1,060	3.8
Tender/Preconstruction	26,777	7%	75	377	3.9
Stage Unknown	18,048	5%	54	376	9.0
On hold	31,260	8%	57	590	12.0
Construction started	112,265	31%	387	299	6.2
Completed	3,813	1%	26	147	7.2
Total	367,797	100%	983	400	6.3

Note: Average project value is the average of those projects for which there is a cost estimate. An average year in inventory is the average time span between the projects as first recorded in the MPI and the current period. Regional detail is provided in Exhibit 2.6.

Development Region	Proposed	Started	Completed	On Hold		Change from the previous quarter	Chang from tl previou ye
1. Vancouver Island/Coast	13,559	11,878	214	5,493	31,144	0.2%	0.0
2. Mainland/Southwest	48,052	29,547	1,529	392	79,520	3.8%	1.9
3. Thompson-Okanagan	4,680	13,357	1,127	1,338	20,502	0.9%	-0.
4. Kootenay	3,048	3,069	900	2,420	9,437	4.0%	5.4
5. Cariboo	14,916	111	43	300	15,370	0.9%	51.3
5. North Coast	116,535	36,210	0	11,981	164,726	0.0%	1.5
7. Nechako	4,591	201	0	2,335	7,127	0.0%	1.0
3. Northeast	15,078	17,892	0	7,001	39,971	1.6%	7.5
Total	220,459	112,265	3813	31,260	367,797	1.2%	3.5



3. B.C. Economy

Exhibit 3.1 Economic Activity

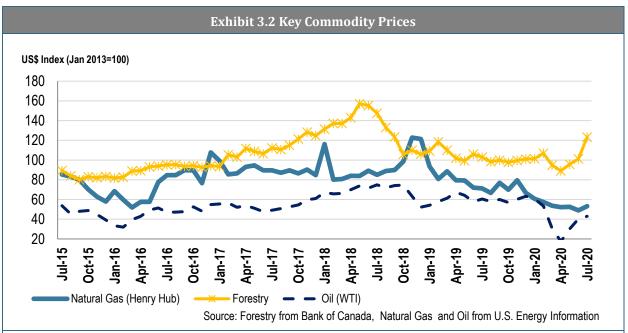
	2020	2021	2022	2023	2024
Real GDP	+2.0 %	+1.9 %	+1.9 %	+1.9 %	+2.2 %

Source: B.C. Budget and Fiscal Plan 2020/21 – 2022/23

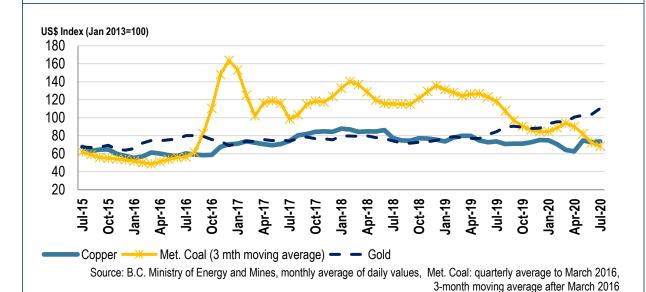
	Most Recent Period	Amount	Change from previous month	Change from previous year	Data Type
Retail trade (\$ M)	Jun-20	7,371	12.7%	3.8%	seasonally adjusted
Manufacturing sales (\$ M)	Jun-20	3,938	2.2%	-11.5%	seasonally adjusted
Residential - building permits (\$ M)	Jun-20	1,286	20.4%	34.9%	seasonally adjusted
Residential - housing starts (units)	Jul-20	39,978	10.9%	-18.4%	seasonally adjusted at annual rates
Non-Residential building permits (\$ M)	Jun-20	533	93.3%	39.8%	seasonally adjusted
Exports - all merchandise (\$ M)	Jun-20	3,146	-3%	-16.0%	seasonally adjusted
	Pi	rices			
B.C. Consumer price index (2002=100)	Jul-20	132.6	0.8%	2.1%	not seasonally adjusted
Exchange rate	Jul-20	US 0.74	0.4%	-2.9%	not seasonally adjusted
Average 5-year residential mortgage rate	Jul-20	3.64%	-0.13p.p.	-0.50p.p.	not seasonally adjusted
	Labou	r Market			
Employment	Jul-20	2,374,200	3.0%	-7.5%	seasonally adjusted
Unemployment rate	Jul-20	11.1%	4.3p.p.	6.9p.p.	seasonally adjusted
Participation rate	Jul-20	63.9%	0.3p.p.	-1.6p.p.	seasonally adjusted
Average weekly earnings	Jul-20	1045.78	-3.6%	3.9%	seasonally adjusted

Source: Statistics Canada & Bank of Canada

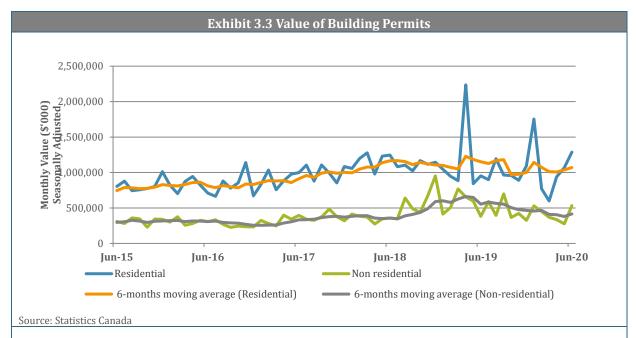
Note: p.p. is percentage point, used here to show the difference between two percentage rates.



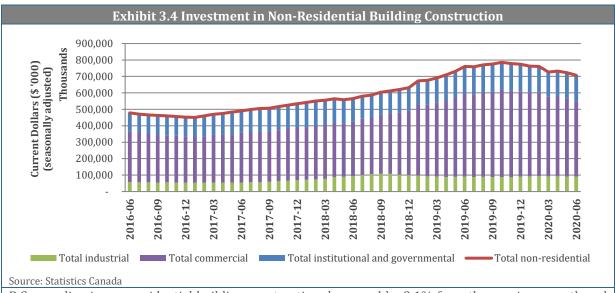
- The forestry price index increased by 21.8% in July 2020 and it is 19.7% higher than a year ago.
- Natural gas dropped to US\$1.77/mm BTU, 25.3 per cent decrease from the previous year.
- Oil (WTI) increased 6% to US\$40.71/bbl in July, while down by 29% from a year ago.



- Copper returned to the same level (US\$2.69 per lb) as July 2019 and up by 1.1% from previous month.
- Gold increased (6.4%) from previous month and up greatly by 30.5% from a year ago.
- Metallurgical coal (3-month moving average) decreased by 5.1% in July, and down 42.2% from the previous year.

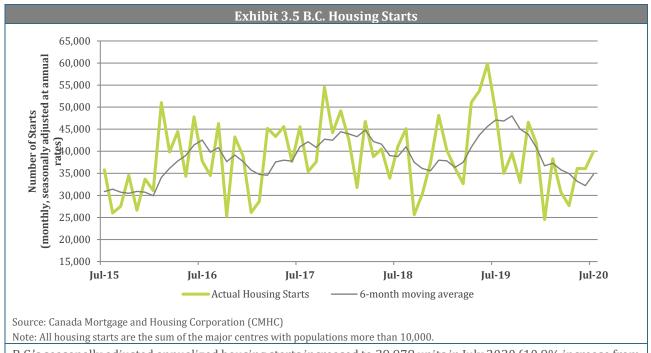


In June 2020, an average of nearly \$1.5 billion worth of building permits was issued in B.C. (based on 6-month moving average, 4.7% increase compared to the previous month while 12.9% decrease compared to the same month in the previous year.)

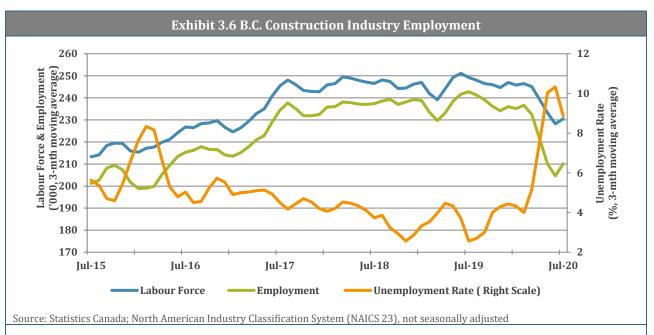


B.C. spending in non-residential building construction decreased by 2.1% from the previous month and down 7.1% from the previous year. The current level of non-residential building investment in June 2020 was \$707M.

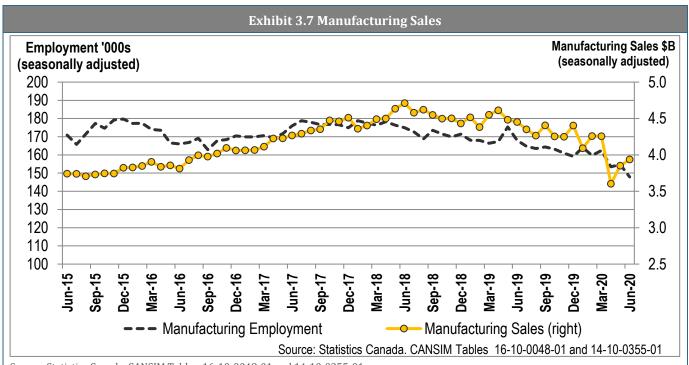
Note that this is the building investment only and does not include infrastructure investment.



B.C.'s seasonally adjusted annualized housing starts increased to 39,978 units in July 2020 (10.9% increase from June). The 6-month moving average of the series was up by 7.9% from the previous month while declined by 26.1% from the previous year.



Employment in the construction sector in July 2020 decreased 13.4% and the labour force experienced a 7.5% decline compared with the previous year. The unemployment rate in B.C.'s construction industry increased 6.3 percentage points compared to July 2019.

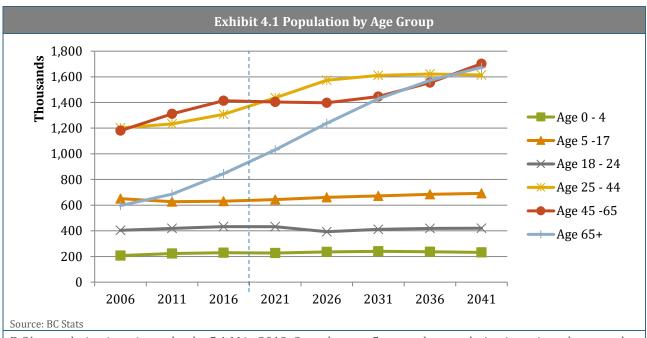


Source: Statistics Canada. CANSIM Tables 16-10-0048-01 and 14-10-0355-01

In June 2020, B.C.'s manufacturing sales was up 2.2% to \$3.94 B from the previous month. In comparison to June 2019, sales declined 11.5%. Manufacturing employment has been on a downward trend since early 2018 and reached 147,900 in June.

B.C. DEMOGRAPHICS

4. B.C. Demographics

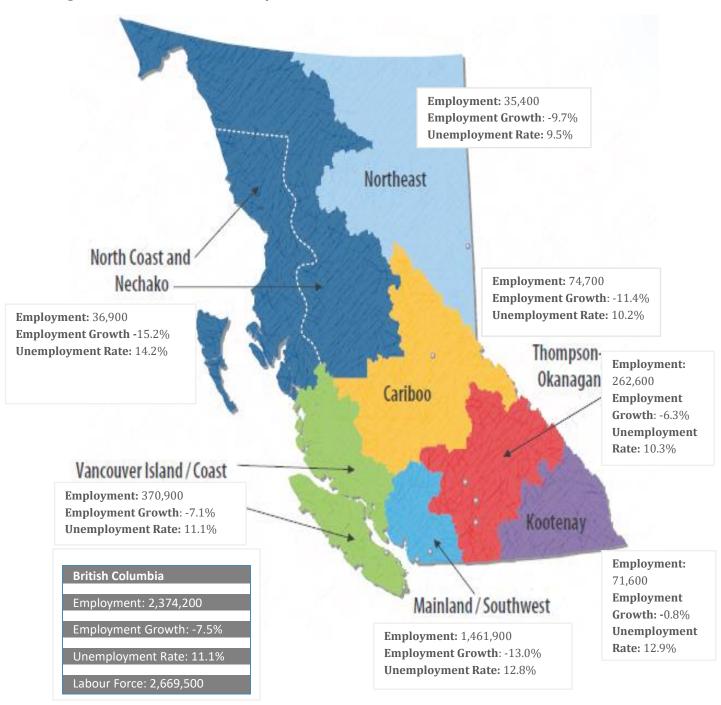


B.C.'s population is estimated to be 5.1 M in 2019. Over the next 5 years, the population is projected to grow by 1.2% per year.

REGIONAL SUMMARIES

5. Regional Summaries

Regional Labour Market Statistics - April 2020

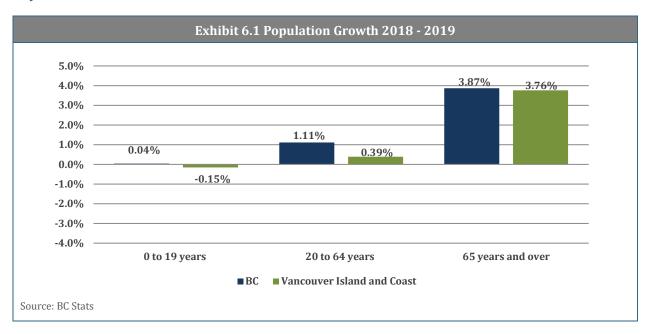


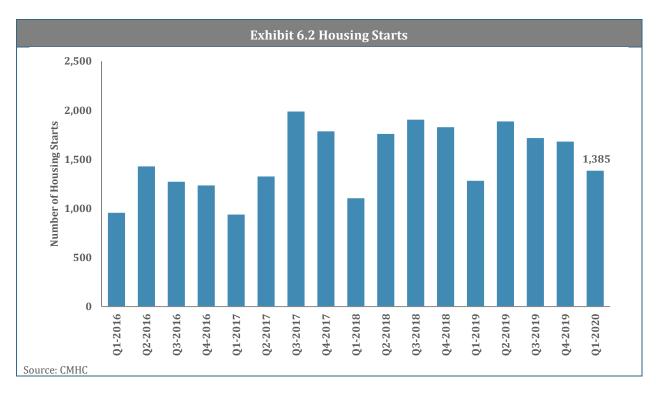
Note: Employment growth is over the previous 12 months. Data for B.C. at the provincial level is seasonally adjusted. Data for the regions is not seasonally adjusted and is based on 3-month moving averages. This means that the data at the provincial level is not directly comparable to the regional data, but the data for each region is directly comparable with the other regions. Source: Statistics Canada

VANCOUVER ISLAND/COAST REGION

6. Vancouver Island/Coast Region

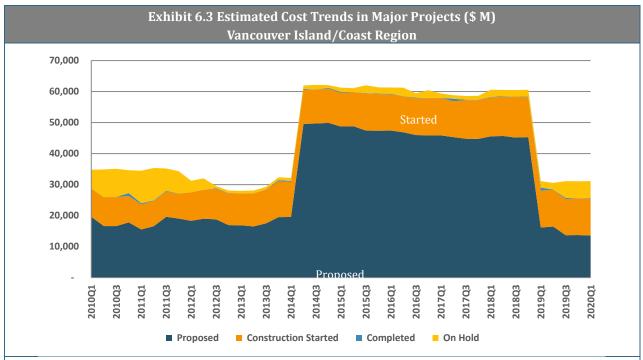
Key Economic Indicators





VANCOUVER ISLAND/COAST REGION

Trends in Major Projects



- In Q1 2020, the Vancouver Island/Coast region has a total of 148 major projects with a combined value of \$31.1B.
- Pacific Maritime Museum and Conference Centre (\$87 M) in Langford is the newly proposed project added to the MPI this quarter.
- Three major projects were completed in this quarter: Pacific Landing at Havenwood in Victoria (\$108 M), Nanaimo Sewage Plant Upgrades (\$86 M) in Nanaimo and West Shore Village in Colwood (\$20 M).
- There are 2 projects that began construction in this quarter: University of Victoria Student Housing (\$232 M) and Riverstone Place in Nanaimo (\$20 M).

Exhibit 6.4 Estimated Cost Trends in Major Projects, by Project Status (\$M) Vancouver Island/Coast Region												
Status	2019Q1	2019Q2	2019Q3	2019Q4	2020Q1	Change from the previous quarter	Change from the previous year					
Proposed	16,152	16,449	13,665	13,733	13,559	-1.3%	-16.1%					
Construction started	11,923	11,838	11,693	11,807	11,878	0.6%	-0.4%					
Completed	985	100	337	75	214	185.3%	-78.3%					
On hold	2,073	2,153	5,453	5,453	5,493	0.7%	165.0%					
Grand Total	31,133	30,540	31,148	31,068	31,144	0.2%	0.0%					

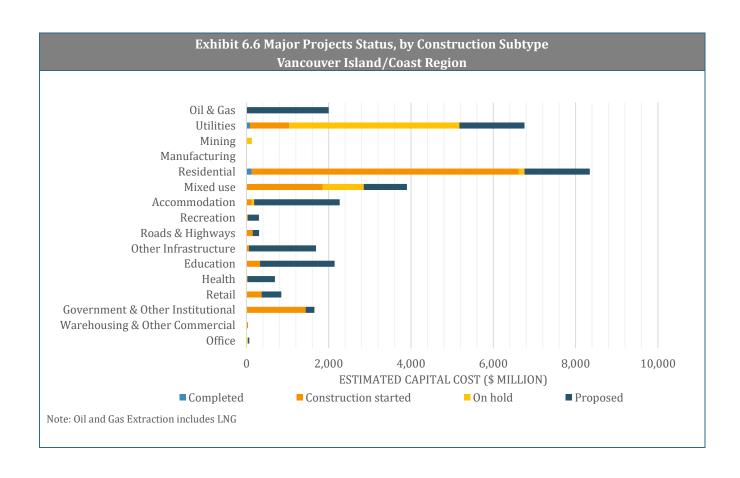
VANCOUVER ISLAND/COAST REGION

Exhibit 6.5 Summary of Major Projects (by Project Status)

Vancouver Island/Coast Region

	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	13,559	44%	75	188	6.6
Preliminary/Feasibility	3,984	13%	21	199	5.2
Consultation/Approvals	5,604	18%	34	175	6.9
Permitting	533	2%	4	133	5.6
Tender/Preconstruction	172	1%	7	25	3.1
Stage Unknown	3,266	10%	9	363	12.0
On hold	5,493	18%	13	458	11.6
Construction started	11,878	38%	57	212	7.8
Completed	214	1%	3	71	6.8
Total	31,144	100%	148	218	7.5

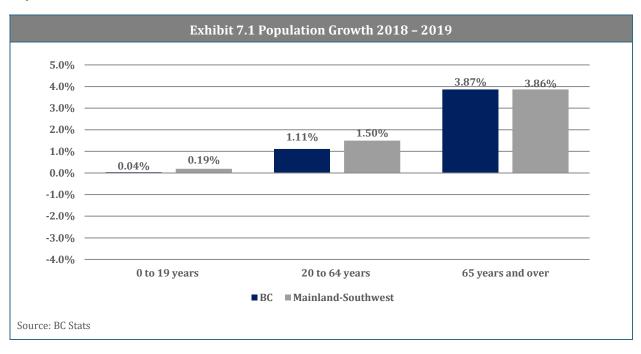
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.



MAINLAND/SOUTHWEST REGION

7. Mainland/Southwest Region

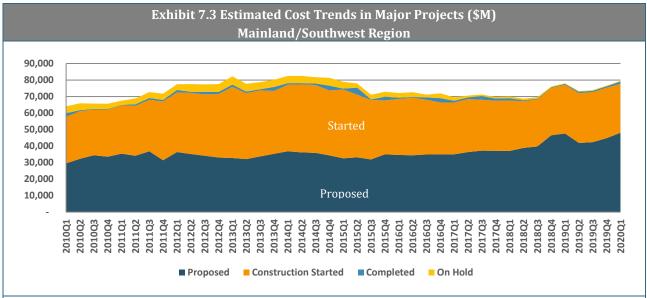
Key Economic Indicators





MAINLAND/SOUTHWEST REGION

Trends in Major Projects



- In Q1 2020, the Mainland/Southwest region has a total of 544 major projects with a combined value of \$79.5 B, representing a 3.8% increase from the previous quarter and a 1.9% increase compared to the previous year.
- There are 20 newly proposed projects added to the MPI this quarter. The top three largest projects are Expo and Millennium Upgrade Program (\$1 B) in Vancouver, Thind Towers in Surrey (\$500 M) and Burnaby Rail Corridor Improvements Project / Holdom Overpass in Burnaby (\$214 M). See more new projects in Appendix 1.
- Seventeen major projects were completed in this quarter, such as Fremont Village Mixed Use Development in Port Coquitlam (\$500 M), Rainbow Residential Development in Whistler (\$400 M) and Valleyview Project in Coquitlam (\$75 M). See more completed projects in Appendix 3.
- Nineteen major projects began construction in this quarter with total capital costs of \$1.12 B. The top three largest projects are Richmond Industrial Centre in Richmond (\$300 M), Eric Hamber Secondary School Replacement in Vancouver (\$105 M) and Galleria Condominiums in Richmond (\$100 M). See more projects underway in Appendix 2.

Exhibit 7.4 Estimated Cost Trends in Major Projec	cts, by Project Status (\$ M)
Mainland/Southwest Regi	on

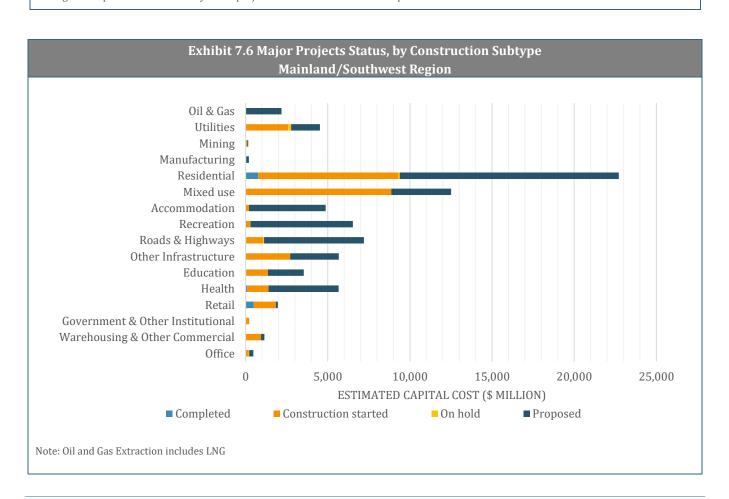
Status	2019Q1	2019Q2	2019Q3	2019Q4	2020Q1	Change from the previous quarter	Change from the previous year
Proposed	47,607	41,898	42,324	44,804	48,052	7.2%	0.9%
Construction started	29,415	30,098	30,335	30,474	29,547	-3.0%	0.4%
Completed	643	933	812	932	1,529	64.1%	137.8%
On hold	362	362	392	392	392	0.0%	8.3%
Grand Total	78,027	73,291	73,863	76,602	79,520	3.8%	1.9%

MAINLAND/SOUTHWEST REGION

Exhibit 7.5 Summary of Major Projects (by Project Status) Mainland/Southwest Region

	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	48,052	60%	277	191	4.6
Preliminary/Feasibility	11,394	14%	65	207	3.8
Consultation/Approvals	18,202	23%	116	175	5.5
Permitting	2,506	3%	26	96	2.1
Tender/Preconstruction	8,397	11%	48	187	3.3
Stage Unknown	7,553	9%	22	360	8.2
On Hold	392	0%	10	49	9.9
Construction Started	29,547	37%	240	128	4.8
Completed	1,529	2%	17	90	6.1
Total	79,520	100%	544	157	4.8

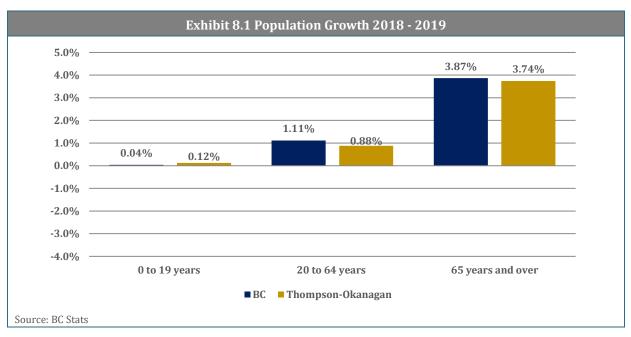
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.



THOMPSON - OKANAGAN REGION

8. Thompson - Okanagan Region

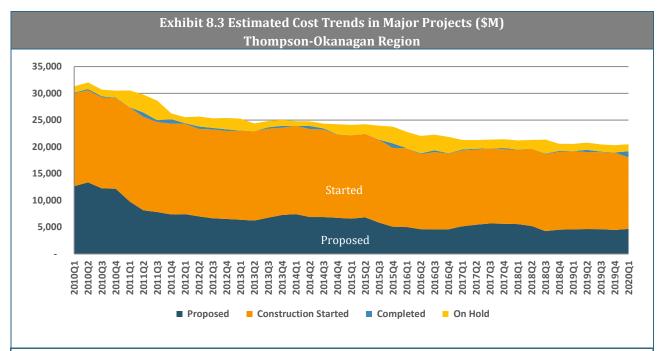
Key Economic Indicators





THOMPSON - OKANAGAN REGION

Trends in Major Projects



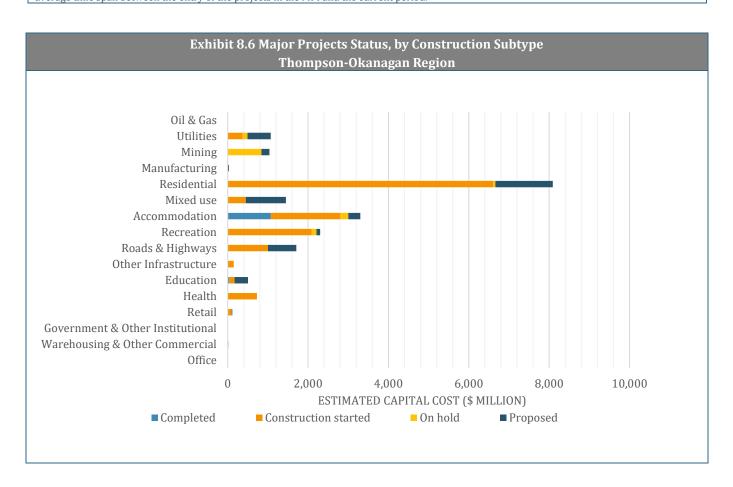
- In Q1 2020, the Thompson-Okanagan region has a total of 107 major projects with a combined value of \$20.5B, a 0.9% increase from previous quarter while a 0.3% decline compared to the previous year.
- UBC Okanagan Interdisciplinary Collaboration and Innovation (ICI) Building (\$109 M) in Kelowna, Vernon Active Living Centre (\$90 M) in Vernon and Okanagan Capacity Upgrade in Penticton are the new proposed projects added to the MPI this quarter.
- There are four projects were completed in this quarter: The Rise Resort and Residential Development (\$1 B) in Vernon, The NK'MIP Resort/Spirit Ridge Resort (\$75 M) in Osoyoos, Nursing and Population Health Facility (\$37 M) in Kamloops and IntraUrban Enterprise Industrial Park (\$15 M) in Kelowna.

Exhibit 8.4 Estimated Cost Trends in Major Projects, by Project Status (\$ M) Thompson-Okanagan Region								
Status	2019Q1	2019Q2	2019Q3	2019Q4	2020Q1	Change from the previous quarter	Change from the previous year	
Proposed	4,581	4,648	4,628	4,480	4,680	4.5%	2.2%	
Construction started	14,641	14,383	14,358	14,447	13,357	-7.5%	-8.8%	
Completed	0	419	139	52	1,127	2067.3%	0.0%	
On hold	1,338	1,338	1,338	1,338	1,338	0.0%	0.0%	
Grand Total	20,560	20,788	20,463	20,317	20,502	0.9%	-0.3%	

THOMPSON - OKANAGAN REGION

Exhibit 8.5 Summary of Major Projects (by Project Status) Thompson-Okanagan Region									
	Estimated Capital Percentage of Total Number of Projects Average Project Cost (\$ million) Percentage of Total Number of Projects Value (\$ million)								
Proposed	4,680	23%	41	126	6.7				
Preliminary/Feasibility	1,004	5%	14	91	3.2				
Consultation/Approvals	2,538	12%	12	212	10.0				
Permitting	444	2%	5	89	10.2				
Tender/Preconstruction	400	2%	4	100	2.0				
Stage Unknown	294	1%	6	59	8.3				
On hold	1,338	7%	6	223	13.3				
Construction started	13,357	65%	56	243	9.4				
Completed	1,127	5%	4	282	10.7				
Total	20,502	100%	107	201	8.6				

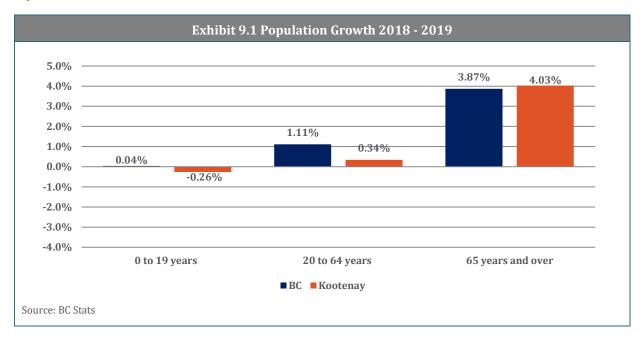
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

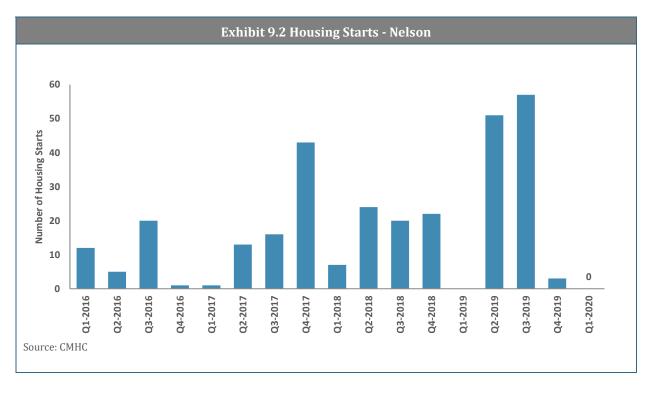


KOOTENAY REGION

9. Kootenay Region

Key Economic Indicators

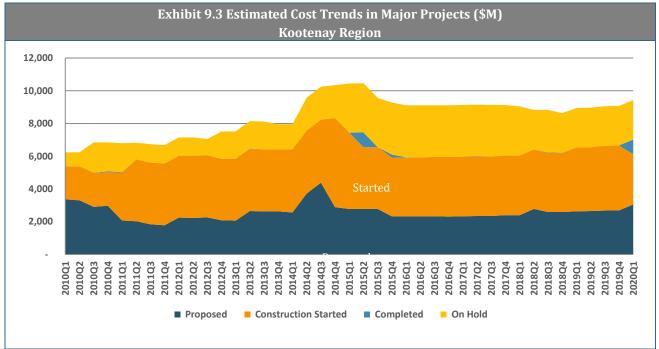




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KOOTENAY REGION

Trends in Major Projects



- In Q1 2020, the Kootenay region has a total of 32 major projects with nearly \$9.4 B combined value, with a 4.0% increase compared to the previous quarter, which represents a 5.4% increase compared to the previous year.
- Inland Gas Upgrades (\$360 M) in Cranbrook/Sparwood is the new proposed project added to the MPI this quarter
- Red Mountain Ski Resort Expansion (\$900 M) in Rossland was completed this quarter.

Exhibit 9.4 Estimated Cost Trends in Major Projects, by Project Status (\$M) Kootenay Region								
	2019Q1	2019Q2	2019Q3	2019Q4	2020Q1	Change from the previous quarter	Change from the previous year	
Proposed	2,629	2,647	2,684	2,688	3,048	13.4%	15.9%	
Construction started	3,901	3,901	3,951	3,969	3,069	-22.7%	-21.3%	
Completed	-	-	-	-	900			
On hold	2,420	2,420	2,420	2,420	2,420	0.0%	0.0%	
Grand Total	8,950	8,968	9,055	9,077	9,437	4.0%	5.4%	

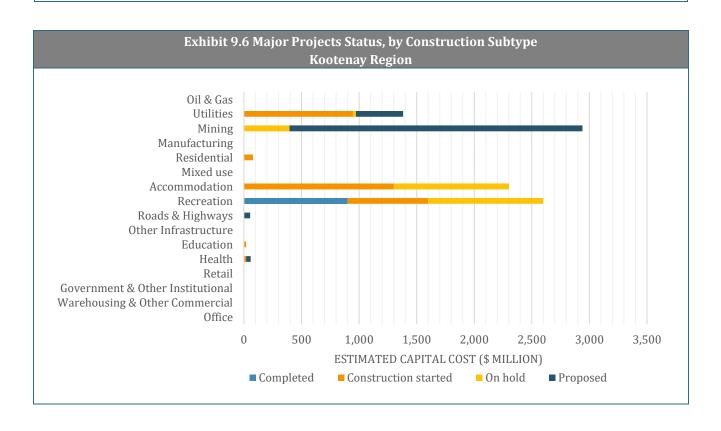
KOOTENAY REGION

Exhibit 9.5 Summary of Major Projects (by Project Status)

Kootenay Region

	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	3,048	32%	11	339	5.7
Preliminary/Feasibility	39	0%	3	39	3.4
Consultation/Approvals	2,520	27%	4	630	9.5
Permitting	0	0%	0	0	0.0
Tender/Preconstruction	384	4%	2	192	1.6
Stage Unknown	105	1%	2	53	5.7
On hold	2,420	26%	4	605	15.9
Construction started	3,069	33%	16	192	13.1
Completed	900	10%	1	900	15.3
Total	9,437	100%	32	315	11.0

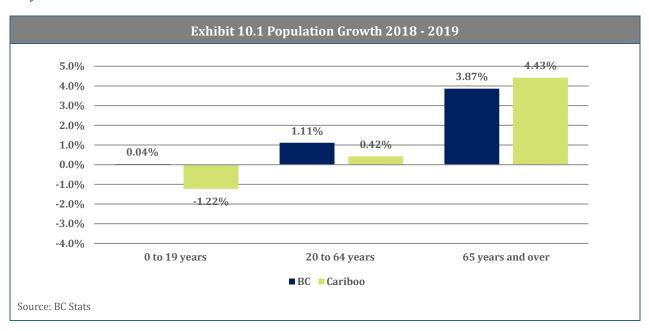
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

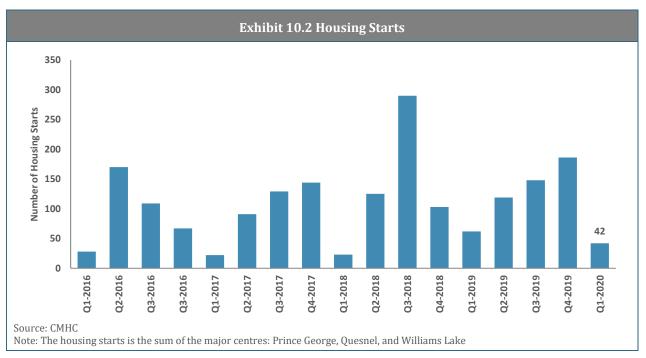


CARIBOO REGION

10. Cariboo Region

Key Economic Indicators

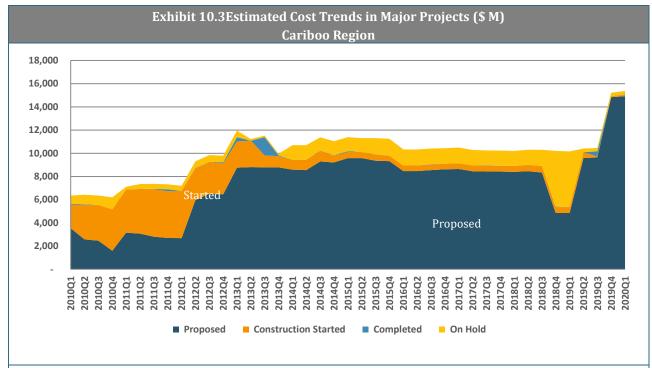




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CARIBOO REGION

Trends in Major Projects



- In Q1 2020, the Cariboo region has a total of 31 major projects with a combined value of \$15.4 B, an increase (0.9%) from the previous quarter and up 51.3% compared to the same quarter last year.
- West Fraser Road Realignment (\$103 M) in Quesnel is newly proposed project in this quarter.
- Highway 97 Parsnip River Bridge Replacement (\$43 M) in Prince George was completed in this quarter.
- Three major projects began construction in this quarter: GR Baker Memorial Hospital Upgrades (\$27 M) in Quesnel, Hundred Mile House T1/T2 End of Life (EOL) Replacement project (\$20 M) in 100 Mile House and University of Northern British Columbia Student Housing (\$20 M) in Prince George.

	Cariboo Region								
	2019Q1	2019Q2	2019Q3	2019Q4	2020Q1	Change from the previous quarter	Change from the previous yea		
Proposed	4,843	9,588	9,640	14,840	14,916	0.5%	208.0%		
Construction started	514	514	74	87	111	27.6%	-78.49		
Completed	0	0	440	0	43	0.0%	0.0%		
On hold	4,800	300	300	300	300	0.0%	-93.89		
Grand Total	10,157	10,402	10,454	15,227	15,370	0.9%	51.39		

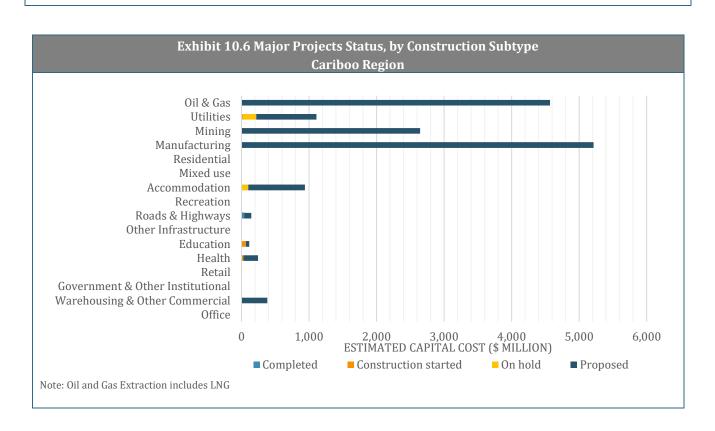
CARIBOO REGION

Exhibit 10.5 Summary of Major Projects (by Project Status)

Cariboo Region

	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	14,916	97%	24	710	7.8
Preliminary/Feasibility	6,192	40%	8	1,238	4.2
Consultation/Approvals	3,991	26%	10	399	8.5
Permitting	0	0%	0	0	0.0
Tender/Preconstruction	4,663	30%	3	1,554	12.3
Stage Unknown	70	0%	3	23	11.0
On hold	300	2%	2	150	16.0
Construction started	111	1%	4	28	1.0
Completed	43	0%	1	43	3.3
Total	15,370	100%	31	549	7.3

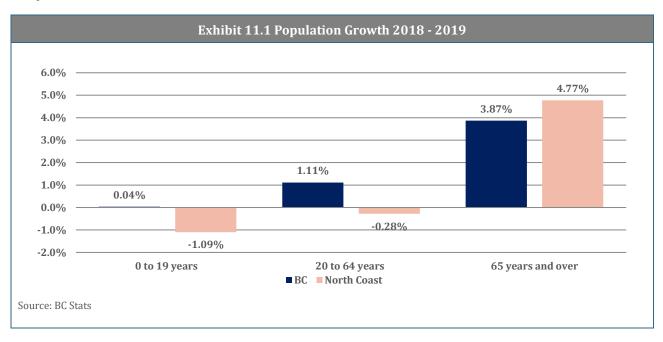
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

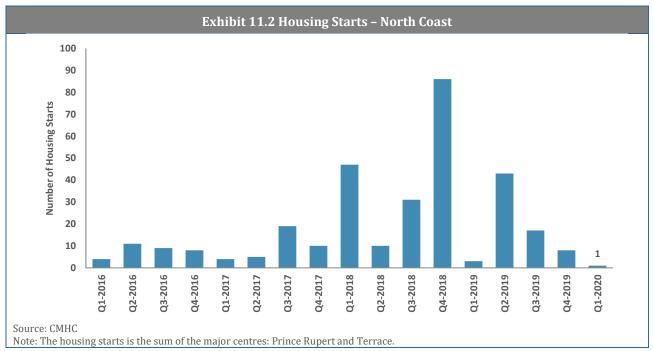


NORTH COAST REGION

11. North Coast Region

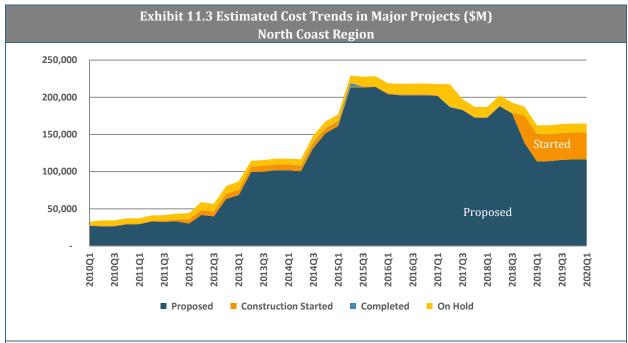
Key Economic Indicators





NORTH COAST REGION

Trends in Major Projects



- In Q1 2020, the North Coast region has a total of 54 major projects with a combined value of \$164.7 B, stayed the same level as previous quarter and 1.5% increase compared to the previous year
- Fairview -Ridley Connector Corridor (\$115 M) in Prince Rupert was newly proposed in this quarter.
- Coast Mountain College Student Housing (\$20 M) in Terrace started construction in this quarter

Exhibit 11.4 Estimated Cost Trends in Major Projects, by Project Status (\$M) North Coast Region										
Change Status 2019Q1 2019Q2 2019Q3 2019Q4 2020Q1 from the find the previous quarter										
Proposed	113,548	113,996	115,770	116,440	116,535	0.1%	2.6%			
Construction started	36,221	36,221	36,237	36,190	36,210	0.1%	0.0%			
Completed	475	0	0	47	0	0.0%	0.0%			
On hold	11,981	11,981	11,981	11,981	11,981	0.0%	0.0%			
Grand Total	162,225	162,198	163,988	164,658	164,726	0.0%	1.5%			

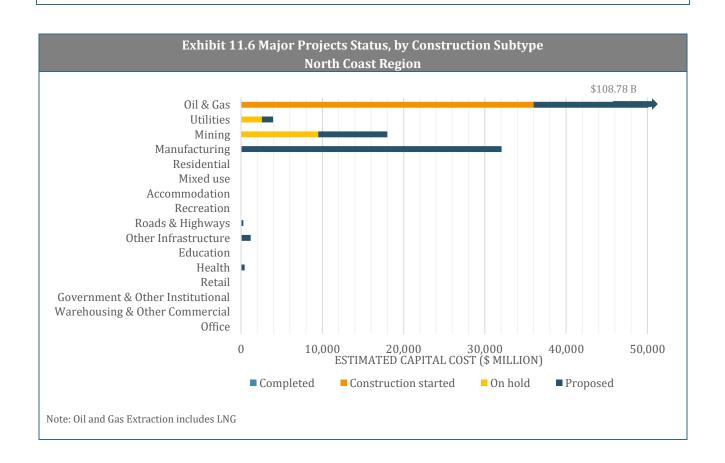
NORTH COAST REGION

Exhibit 11.5 Summary of Major Projects (by Project Status)

North Coast Region

	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	116,535	71%	41	3,330	7.4
Preliminary/Feasibility	34,485	21%	10	3,832	6.7
Consultation/Approvals	28,930	18%	16	1,808	7.4
Permitting	35,400	21%	3	17,700	5.7
Tender/Preconstruction	12,515	8%	6	2,503	8.2
Stage Unknown	5,205	3%	6	1,735	8.8
On hold	11,981	7%	8	1,712	12.7
Construction started	36,210	22%	5	7,242	4.2
Completed	0	0%	0	0	0.0
Total	164,726	100%	54	3,505	7.9

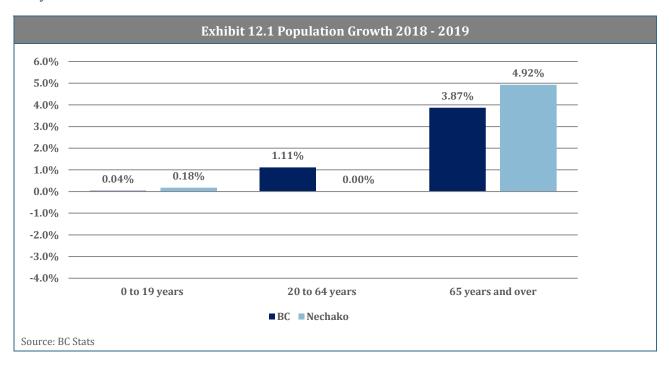
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.



NECHAKO REGION

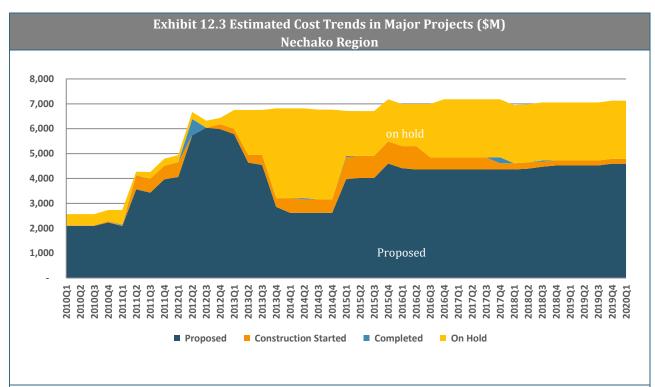
12. Nechako Region

Key Economic Indicators



NECHAKO REGION

Trends in Major Projects



In Q1 2020, the Nechako region has a total of 20 major projects with a combined value of $$7.1\ B$, with 1.0% increase from the previous year.

Exhibit 12.4 Estimated Cost Trends in Major Projects, by Project Status (\$M) Nechako Region										
Status	2019Q1	2019Q2	2019Q3	2019Q4	2020Q1	Change from the previous quarter	Change from the previous year			
Proposed	4,522	4,522	4,522	4,591	4,591	0.0%	1.5%			
Construction started	201	201	201	201	201	0.0%	0.0%			
Completed	0	0	0	0	0	0.0%	0.0%			
On hold	2,335	2,335	2,335	2,335	2,335	0.0%	0.0%			
Grand Total	7,058	7,058	7,058	7,127	7,127	0.0%	1.0%			

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NECHAKO REGION

Exhibit 12.5 Summary of Major Projects (by Project Status) **Nechako Region** Proposed 64% 4,591 14 353 9.9 Preliminary/Feasibility 875 12% 2 438 13.3 9 Consultation/Approvals 9.8 2,384 33% 265 0 0% 0 0 0.0 Permitting Tender/Preconstruction 32 0% 1 32 1.8 2 Stage Unknown 1,300 18% 1,300 10.6 5 On hold 2,335 33% 467 14.4 **Construction started** 201 3% 1 201 8.3 Completed 0% 0 0 0.0

Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

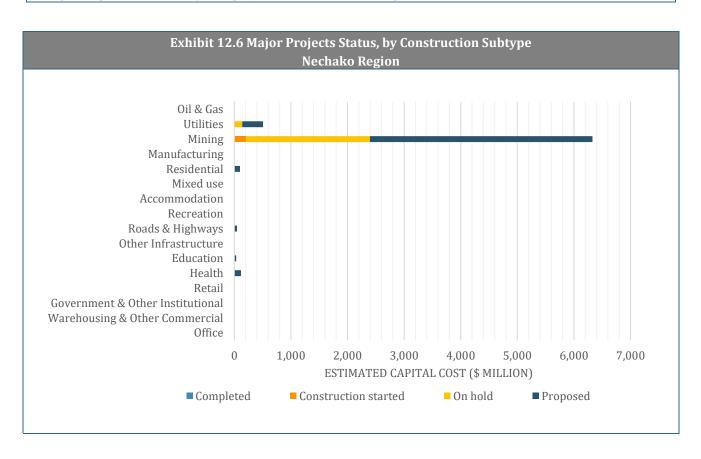
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375

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7,127

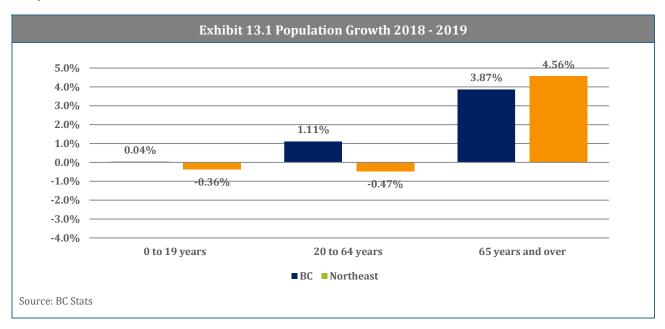


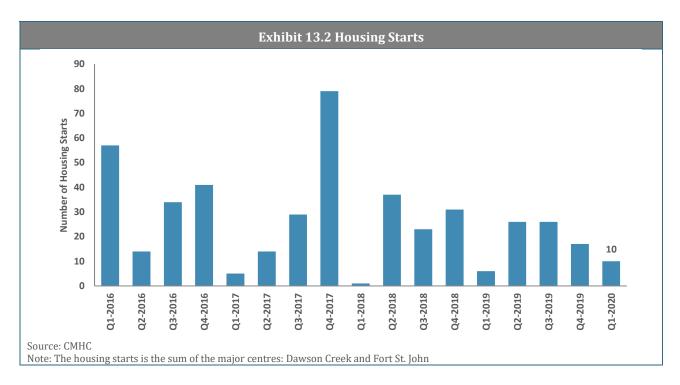
Total

NORTHEAST REGION

13. Northeast Region

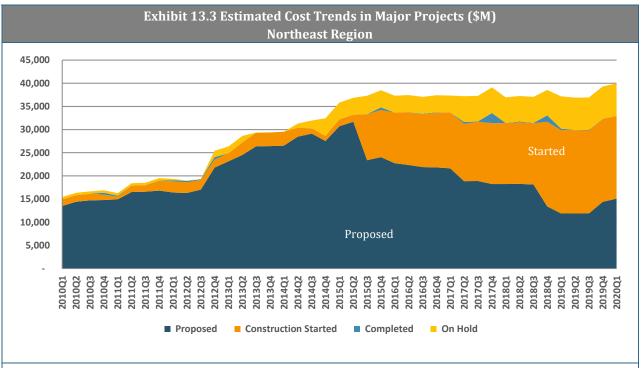
Key Economic Indicators





NORTHEAST REGION

Trends in Major Projects



- In Q1 2020, the Northeast region has a total of 47 major projects with a combined value of \$40.0 B, 1.6% up from the previous quarter and a 7.5% increase compared to the previous year.
- Highway 29 Halfway River Bridge Replacement (\$105 M) in Fort St. John was newly proposed this quarter.

Exhibit 13.4 Estimated Cost Trends in Major Projects, by Project Status (\$M) Northeast Region										
	2019Q1	2019Q2	2019Q3	2019Q4	2020Q1	Change from the previous quarter	Change from the previous year			
Proposed	11,887	11,887	11,907	14,408	15,078	4.7%	26.8%			
Construction started	18,009	18,009	17,919	17,892	17,892	0.0%	-0.6%			
Completed	290	0	90	27	0	0.0%	0.0%			
On hold	7,001	7,001	7,001	7,001	7,001	0.0%	0.0%			
Grand Total	37,187	36,897	36,917	39,328	39,971	1.6%	7.5%			

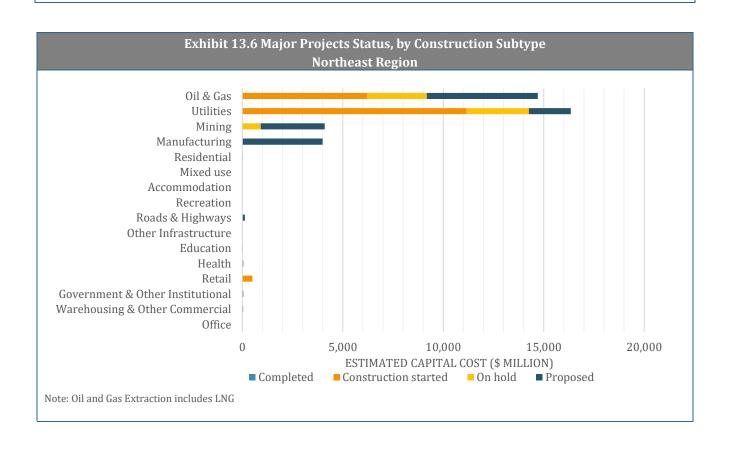
NORTHEAST REGION

Exhibit 13.5 Summary of Major Projects (by Project Status)

Northeast Region

	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	15,078	38%	30	558	6.5
Preliminary/Feasibility	2,500	6%	1	2,500	0.3
Consultation/Approvals	7,524	19%	16	537	8.6
Permitting	4,585	11%	5	1,146	3.7
Tender/Preconstruction	214	1%	4	54	2.7
Stage Unknown	255	1%	4	64	7.2
On hold	7,001	18%	9	778	9.6
Construction started	17,892	45%	8	2,237	6.1
Completed	0	0%	0	0	0.0
Total	39,971	100%	47	908	7.0

Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.



Appendices

	Hew 110p	oosed Projects (January - March 2020)	
Region	Municipality	Project	Estimated Cost
vegion	Municipanty	Floject	(\$ million)
Vancouver sland/Coast	Langford	Pacific Maritime Museum and Conference Centre	87
		Business and Creative Technologies Facility	110
	Burnaby	Pattullo Gas Line Replacement	
	Баттабу	Burnaby Rail Corridor Improvements Project / Holdom Overpass	214
	Chilliwack	G.W. Graham Secondary School	24
	Delta	Tilbury Phase 1 LNG Expansion Project	60
	Della	Tilbury Phase 2 LNG expansion project	
	Pitt Meadows	Pitt Meadows Road and Rail Improvements Project	141
	Richmond	Portside/Blundell Road Improvements Project	110
Mainland/Southwest		Ta'talu Elementary (Site 207) (former Sunnyside Elementary)	44
	Surrey	Thind Towers	500
		One Central at West Village	80
		Apartment Complex - 8560 156 Street	160
		UBC - Macleod Building Renewal	40
	Vancouver	Mount Pleasant Lions Manor Redevelopment	22
		Affordable Rental Housing	20
		Gateway Building (Nursing, Kinesiology, UBC Health & Integrated Student Health Services)	190
		1880 Main Street Apartments	25
		Commissioner Street Road and Rail Improvements	84
		Expo and Millennium Upgrade Program	1,500
	West Vancouver	Inglewood Care Centre Redevelopment	20
	Kelowna	UBC Okanagan - Interdisciplinary Collaboration and Innovation (ICI) Building	109
hompson-Okanagan	Penticton	Okanagan Capacity Upgrade	
	Vernon	Vernon Active Living Centre	90
Cootenay	Cranbrook, Sparwood	Inland Gas Upgrades	360
Cariboo	Quesnel	West Fraser Road Realignment	103
lorth Coast	Prince Rupert	Fairview -Ridley Connector Corridor	115
Northeast	Fort St. John	Highway 29 - Halfway River Bridge Replacement	105

	Constructi	on Started (January - March 2020)		
Region	Municipality	Project	Completion Date	Estimated Cost (\$ million)
Vancouver	Nanaimo	Riverstone Place	2021-Q2	20
Island/Coast	Victoria	Student Housing	2023-Q4	232
	Langlary	South-West Yorkson Elementary	2021-Q3	32
	Langley	Alexander Square	2021-Q4	48
	New Westminster	Richard McBride Elementary School Replacement	2022-Q1	35
	North Vancouver	Handsworth Secondary School Replacement	2022-Q3	69
		Fiorella Condominiums	2022-Q3	34
	Richmond	Galleria Condominiums	2023-Q4	100
		Richmond Industrial Centre	2038-Q4	300
Mainland/Southwest		Wood & Water Townhomes	2022-Q4	62
	Surrey	Headwaters Club Condominium	2021-Q1	20
	Surrey	Sullivan Heights Secondary School Expansion	2021-Q4	40
,		Affordable Housing Development	2021-Q1	71
		General Wolfe Elementary School Seismic Upgrade	2021-Q3	20
	Vancouver	Eric Hamber Secondary School Replacement	2023-Q3	105
		The Post on Georgia Mixed Use Development	2023-Q3	40
	vancouver	Bayview Community Elementary	2022-Q1	24
		Sir Matthew Begbie Elementary	2022-Q1	22
		Mirabel Condominium	2020-Q4	25
		Residential Development - 33 W Cordova St.	2021-Q4	30
		Bosa Waterfront Centre	2021-Q4	40
	100 Mile House	Hundred Mile House T1/T2 End of Life (EOL) Replacement project	2022-Q2	20
Cariboo	Prince George	Student Housing	2021-Q3	20
	Quesnel	GR Baker Memorial Hospital Upgrades	2021-Q4	27
North Coast	Terrace	Student Housing	2021-Q4	20
Total				1,456

	Construction Com	pleted (January - March 2020)	
Region	Municipality	Project	Estimated Cost (\$ million)
	Colwood	West Shore Village	20
Vancouver Island/Coast	Nanaimo	Nanaimo Sewage Plant Upgrades	86
	Victoria	Pacific Landing at Havenwood	108
	Abbotsford	Mount Lehman Road 4-laning	27.5
	Durnohu	Escala Condominium	40
	Burnaby Chilliwack Coquitlam North Vancouver Port Coquitlam Richmond	Kings Crossing by Cressey	60
		Chilliwack Business Estates	50
	Coquitlam	Valleyview Project	75
	North Vancouver	Lions Gate Hospital Power Plant Replacement	26
	Port Coquitlam	Minnekhada Middle School Replacement	33
Mainland/Southwest	Port Coquitiani	Fremont Village Mixed Use Development	500
	Richmond	Trafalgar Square	42
	Surrey	Prime on the Plaza Condominium	60
		Spectator Arena	52
		Evolve in West Village	60
		Basalt Condominiums	20
		1188 Bidwell Condominium Tower	22
	Vancouver	Belpark Condominiums	22
		Cardero Condominium Development - 1575 West Georgia St	35
	Abbotsford Burnaby Chilliwack Coquitlam North Vancouver Port Coquitlam Richmond Surrey	Rainbow Residential Development	400
	Kamloops	Nursing and Population Health Facility	37
	Kelowna	IntraUrban Enterprise Industrial Park	15
Thompson-Okanagan	Osoyoos	The NK'MIP Resort/Spirit Ridge Resort	75
	Vernon	The Rise Resort and Residential Development	1,000
Kootenay	Rossland	Red Mountain Ski Resort Expansion	900
Cariboo	Prince George	Highway 97 Parsnip River Bridge Replacement	43
Total			3,813

Project Value and Project Status for each Industry Sector - (January - March 2020)								
Industry Sector	Proposed	Construction started	Completed	On hold	Total			
Oil & Gas	87,060	42,200	0	2,984	132,244			
Manufacturing	41,447	0	50	0	41,497			
Primarily residential - Single use	16,472	21,696	889	294	39,351			
Utilities	9,038	16,121	86	10,394	35,639			
Mining	21,067	301	0	13,967	35,335			
Mixed use	5,687	11,168	0	1,000	17,855			
Accommodation	7,878	3,365	1,075	1,356	13,674			
Recreation	6,578	3,071	952	1,125	11,726			
Roads & Highways	7,505	2,221	75	60	9,861			
Other Infrastructure	5,699	2,994	0	0	8,693			
Health	5,799	2,092	101	0	7,992			
Education	4,411	1,923	70	0	6,404			
Retail	615	2,308	500	0	3,423			
Government & Other Institutional	259	1,650	0	0	1,909			
Warehousing & Other Commercial	662	975	15	0	1,652			
Office	282	180	0	80	542			
Total	220,459	112,265	3,813	31,260	367,797			

Appendix 5

Number of Regional Major Projects Excluding Completed Projects (by Project Category)

Development Region	Residential /Commercial	Transportation & Warehousing	Mining & Oil & Gas Extraction	Utilities	Manufacturing	Public Services	Other Services	Total
1. Vancouver Island/Coast	87	10	4	16	0	19	9	145
2. Mainland/ Southwest	367	41	6	31	2	67	13	527
3. Thompson- Okanagan	53	10	3	19	1	11	6	103
4. Kootenay	10	1	7	6	0	3	4	31
5. Cariboo	5	2	7	8	3	5	0	30
6. North Coast	2	12	22	10	5	3	0	54
7. Nechako	1	1	12	4	0	2	0	20
8. Northeast	3	8	15	16	2	3	0	47
Total	528	85	76	110	13	113	32	957

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