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## Statistical Overview of the Canadian Field Vegetable and Mushroom Industry

**2020**

Prepared by:  
Crops and Horticulture Division  
Agriculture and Agri-Food Canada  
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## Overview

This report provides a statistical overview of the vegetable industry including the number of farms, total farm area, production, farm gate<sup>1</sup> value (FGV), consumption and trade in the sector. It focuses on field vegetables and mushrooms<sup>2</sup>. Separate reports for potatoes and greenhouse vegetables are prepared annually.

The COVID-19 pandemic highlighted existing vulnerabilities within Canada's horticulture sector, notably the amount of labour required for production and the limited ability to mechanize operations, as well as the high-degree of reliance on foreign workers. Due to travel restrictions, growers faced late-arriving or reduced levels of seasonal agricultural workers, as well as on-farm viral outbreaks. The impact of COVID-19 was significant on the production of some vegetables. For instance, asparagus, one of the first vegetables to be harvested in the spring, was the first crop affected by labour shortages resulting from travel restrictions in March and April, for which production fell by 24.3%. While production increases and decreases varied by commodity, overall, growers were able to adapt quickly in order to minimize production disruptions as the total production of field vegetables decreased by 2.6%. Similarly, due to reduced demand from the foodservice industry as a result of the COVID-19 pandemic, mushroom growers adjusted operations; donated surplus production to food banks; negotiated deep retail discounts to move surplus production; increased exports to the U.S.; and/or reduced or halted production as a whole.

Field vegetable planted area was 100 million hectares in 2020, down 1.9% from 2019. Canada's field vegetable production volume was down 2.6% to 2.2 million metric tonnes in 2020, due to the planted area decrease and lower yields. Field tomatoes topped the production of field vegetables (22%), followed by carrots (16%), and dry onions (10%). Ontario remained the largest producing province, accounting for 44% of Canada's total production of field vegetables, followed by Quebec with 37%.

Conversely, total farm gate value of field vegetables rose 2.5% to \$1.34 billion in 2020, with the increase attributable mainly to higher farm gate prices, while, for some commodities, yields were slightly above their respective five-year average yield. The sales increase was driven by higher sales of cabbage (+9.6%), sweet corn (+7.4%) and tomatoes (+6.4%).

Together, carrots, tomatoes, dry onions, cabbage, sweet corn, broccoli, peppers and lettuce represented over 58% of the total value of field vegetables grown in Canada. Carrots recorded the highest value (\$131.8 million), followed by tomatoes (\$116.9 million), dry onions (\$113.5 million), cabbage (\$96.4 million), sweet corn (\$84.1 million), broccoli (\$79.1 million), peppers (\$78.5 million) and lettuce (\$77.8 million).

Canadian mushroom growers produced 132,589 metric tons of mushrooms in 2020, up 0.4% compared with 2019 and showed the fifth consecutive year-over-year increase, mainly due to higher yields and exports. While harvested area decreased (-2.8%) in 2020, better yields contributed to higher production. Yields have been rising since 2016 due to better growing mediums, such as enriched sawdust and nutrient-rich soil. The total value of mushrooms sold rose 5.1% to \$619.7 million in 2020, due to higher prices for both fresh and processed mushrooms. Ontario and British Columbia are the leading producing provinces of mushrooms in Canada, together accounting for over 90% of total production.

Total Canadian field vegetable export value fell 5.0% to \$692.4 million in 2020 from the previous year. The decrease in exports was driven by lower exports of asparagus (-35.8%), cauliflowers and headed broccoli (-35.6%), cucumbers and gherkins (-13.9%), carrots (-6.3%) and lettuce (-6.2%). These export decreases may be associated with aforementioned decreases in production in 2020 along with increased domestic consumer demand for supporting locally-grown produce, which minimized the need to export surplus production. On the other hand, Canadian mushroom exports were valued at \$361.0 million in 2020, up

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<sup>1</sup> Farm gate value is the value received by producers at the point of first transaction, when ownership first changes hands. This value excludes any separately billed costs such as delivery, storage, marketing and administration.

<sup>2</sup> Although mushrooms are generally produced in indoors, they are grouped together with field vegetables in this report to allow comparison to farm receipts data which are grouped together by Statistics Canada.



12.7% from a year earlier. The United States remained Canada's largest purchaser, importing 96.0% of Canada's total field vegetable and mushroom exports.

Due to the seasonal nature of field vegetable production in Canada, imports are an integral component of the Canadian fresh vegetable market and are often necessary to complement Canadian greenhouse vegetable production in order to fulfill Canadian demand year-round. In 2020, Canada imported over \$3.5 billion in field vegetables and \$58 million in mushrooms, with approximately \$2.2 billion (62.5%) coming from the United States. Mexico was the second largest source of Canadian imports, with approximately \$860 million (24.0%) in import value. The top field vegetables in terms of value imported were lettuce (16.0%), cabbages (11.4%), tomatoes (7.4%), peppers (6.3%) and onions (6.0%). In terms of quantity, the top imported field vegetables consisted of lettuce (14.0%), onions (11.5%), cabbages (9.7%) and tomatoes (6.6%).



# 1. Production

Carrots are Canada's most important field vegetable crop in terms of value (over \$131 million in 2020), and are the third-most significant crop in terms of acreage (8,313 hectares) and total production volume (350,614 metric tonnes in 2020). Carrots are harvested in summer and fall in all provinces with most of the production taking place in Ontario (49%), Quebec (28%) and Nova Scotia (13%). Planted area decreased by 1.7% in 2020 compared to 2019, while average yields increased by 2.5% to 46,556 kilograms per hectare. Total production of carrots dropped by 3.4% due to a combination of labour shortages and dry weather while overall farm gate value decreased by 5.7%. However, average farm gate prices per kilogram in 2020 remained consistent with 2019 values (\$0.39 per kilogram).

Canada's most important field vegetable crop in terms of total production volume continues to be field tomatoes (492,211 metric tonnes in 2020), with yields of 82,836 kilograms per hectare. Field tomatoes are also the second-most important crop in terms of value (over \$116 million in 2020), with production largely concentrated in Ontario (98%). Most of Canada's production of field tomatoes (91%) are destined for the processing market. During the pandemic, demand was high for processed tomato products, and reported contracted tonnage for processing tomatoes rose marginally in 2020 over 2019 to 431,000 metric tonnes, but the actual harvest was slightly larger due to favourable weather conditions. In 2020, total acreage for field tomatoes increased by 1% over 2019, while total production increased by 0.4%,

Dry onions represent Canada's third-most important field vegetable crop in terms of value (\$113.5 million in 2020) and production volume (229,481 metric tonnes in 2020). In 2020, planted area for dry onions (5,708 hectares) remained fairly consistent as in previous years. Dry onions are mainly produced in Quebec (42%), Ontario (38%) and Nova Scotia (4%). Total production of dry onions had steadily increased since 2016 and peaked at 250,847 metric tonnes in 2019 before dropping to 229,481 metric tonnes in 2020. This was largely due to a combination of labour issues and drought conditions in early summer that resulted in lower yields (-9.2% over 2019). Although average farm gate values for dry onions increased by 8.5% to \$0.51 per kilogram in 2020, overall farm gate value only increased by 1.0% due to decreased production.

Cabbage (including regular cabbage, Chinese cabbage and kale) is Canada's fourth-most important field vegetable crop in terms of value (\$96.4 million) and the fifth-most important in terms of total production volume (165,070 metric tonnes). Quebec (54%) is the largest producer of cabbage, followed by Ontario (34%) and British Columbia (5%). Although planted area (5,163 hectares) decreased by 7.8% in 2020 compared to 2019, total production of cabbage increased marginally by 0.7%. Farm gate value for cabbage increased by 9.6% in 2020 over 2019 largely due to increased prices, which grew by 6.9% to an average value of \$0.62 per kilogram.

With 17,365 planted hectares, sweet corn is Canada's most important field vegetable crop in terms of acreage, and represents the fourth-most important crop in terms of total production (197,873 metric tonnes) and the fifth-most important crop in terms of farm gate value (\$84.2 million). Ontario produces the majority of sweet corn in Canada (57%), with other notable quantities produced in Quebec (32%) and British Columbia (3%). More than two-thirds of sweet corn production is destined for the processing market, while the remaining one-third is intended for the fresh market. While planted area for sweet corn continues on a slight downward trend, decreasing by 0.9% in 2020 compared to 2019, total production increased by 4.4%, reaching production levels not seen since 2017. Average yields for sweet corn increased by 2.5% over 2019 to 11,977 kilograms per hectare in 2020. As a result of increased production and slightly higher prices, the value of sweet corn rose by 7.4% in 2020.

While field vegetables are grown and harvested in an open field during the warmer months of the year, mushrooms are grown year-round in closed, dark climate-controlled facilities that maintain ideal temperatures and humidity, and are harvested on a 24/7-basis. In 2020, Canadian mushroom growers produced 132,589 metric tonnes of mushrooms, a small increase of 0.4% compared to 2019, which marked the fifth consecutive year-over-year increase in production. However, the total value of mushrooms rose 5.1% to \$619.7 million in 2020, due to increased prices. Harvested area (59.2 million square feet) fell by



2.5% in 2020, largely in response to foodservice closures – and a resulting drop in demand – as the COVID-19 pandemic began. Just over half of Canada’s mushrooms were produced in Ontario (50.4%) in 2020.





### 1.1. Planted area of field vegetables<sup>1</sup> by province (hectares)

	2016	2017	2018	2019	2020	2020 % Share
Newfoundland and Labrador	324	280	264	260	273	0.3%
Prince Edward Island	917	885	963	904	824	0.8%
Nova Scotia	2,350	2,254	2,159	2,223	2,248	2.2%
New Brunswick	691	649	592	556	503	0.5%
Quebec	38,082	37,286	37,472	37,862	36,544	36.4%
Ontario	54,212	50,362	50,945	49,295	49,382	49.2%
Manitoba	1,932	1,826	1,612	1,524	1,403	1.4%
Saskatchewan	372	381	332	326	339	0.3%
Alberta	4,185	4,160	3,776	3,762	3,756	3.7%
British Columbia	6,454	5,858	5,796	5,579	5,058	5.0%
<b>Canada<sup>2</sup></b>	<b>109,518</b>	<b>103,939</b>	<b>103,912</b>	<b>102,292</b>	<b>100,329</b>	<b>100.0%</b>

Notes:

1. Includes melons.

2. Totals may not add up as some data was suppressed to meet confidentiality requirements of the Statistics Act.

Source: Statistics Canada. Table 32-10-0365-01 Area, production and farm gate value of vegetables



## 1.2. Planted area of field vegetables by commodity (hectares)

	2016	2017	2018	2019	2020
Corn, sweet	19,248	17,968	17,551	17,516	17,365
Peas, green	12,782	11,176	11,387	11,493	12,268
Carrots <sup>1</sup>	8,940	8,662	8,344	8,461	8,313
Beans, green or wax	8,313	8,179	8,477	8,092	7,978
Tomatoes	6,938	6,557	6,559	6,216	6,279
Dry onions	5,734	5,776	5,624	5,702	5,708
Cabbage <sup>2</sup>	5,578	5,458	5,912	5,600	5,163
Broccoli	4,276	4,423	4,570	4,550	4,283
Pumpkins	3,708	3,427	3,197	3,275	3,515
Lettuce <sup>3</sup>	4,140	3,975	3,931	3,902	3,367
Squash and zucchinis	3,680	3,300	3,218	3,042	2,855
Cucumbers and gherkins	2,814	2,532	2,433	2,465	2,350
Asparagus	2,351	2,381	2,320	2,431	2,339
Peppers	2,771	2,556	2,514	2,262	2,239
Cauliflowers	1,844	1,860	1,921	1,882	1,823
Beets	1,882	1,928	1,758	1,817	1,778
Rutabagas and turnips	1,736	1,678	1,530	1,524	1,497
Radishes <sup>4</sup>	963	935	1,144	1,061	1,244
Sweet potatoes	..	..	726	811	807
Celery	904	870	802	781	755
Brussels sprouts	563	600	669	650	675
Watermelons	674	693	696	719	668
Shallots and green onions	756	793	754	806	621
Spinach	748	716	728	707	590
Garlic	697	658	641	566	572
Other melons	673	572	505	465	428
Leeks	314	321	337	350	352
Parsnips	364	391	367	349	350
Other fine herbs	..	..	295	337	322
Eggplants	..	..	223	241	213
Rhubarb	204	260	216	198	187
Parsley	149	159	153	134	127
Other vegetables	5,776	5,139	4,410	3,888	3,303
<b>Total<sup>5</sup></b>	<b>109,518</b>	<b>103,939</b>	<b>103,912</b>	<b>102,292</b>	<b>100,329</b>

Notes:

1. Includes baby carrots and regular carrots.

2. Includes Chinese cabbage, regular cabbage and kale.

3. Includes leaf lettuce, head lettuce and mixed lettuce.

4. Includes Asian radishes.

5. Totals may not add up as some data was suppressed to meet confidentiality requirements of the Statistics Act.

.. Not available for a specific reference period.

Source: Statistics Canada. Table 32-10-0365-01 Area, production and farm gate value of vegetables



### 1.3. Production volume<sup>1</sup> of field vegetables by province (metric tons)

	2016	2017	2018	2019	2020	2020 % Share
Newfoundland and Labrador	5,845	4,069	3,484	3,333	3,255	0.1%
Prince Edward Island	26,821	27,216	24,678	24,145	23,195	1.0%
Nova Scotia	57,052	67,402	56,297	57,655	68,419	3.1%
New Brunswick	6,775	6,305	6,437	7,800	6,582	0.3%
Quebec	725,746	702,535	698,481	704,491	649,147	29.3%
Ontario	1,269,977	1,253,287	1,300,680	1,306,839	1,302,254	58.9%
Manitoba	30,759	33,412	28,573	27,356	25,073	1.1%
Saskatchewan	3,063	3,383	3,416	3,972	3,534	0.2%
Alberta	54,872	60,617	59,124	54,645	55,575	2.5%
British Columbia	86,845	81,304	84,755	80,894	75,594	3.4%
<b>Canada<sup>2</sup></b>	<b>2,267,753</b>	<b>2,239,530</b>	<b>2,265,925</b>	<b>2,271,130</b>	<b>2,212,628</b>	<b>100.0%</b>

Notes:

1. Includes melons.

2. Totals may not add up as some data was suppressed to meet confidentiality requirements of the Statistics Act.

Source: Statistics Canada. Table 32-10-0365-01 Area, production and farm gate value of vegetables



#### 1.4. Production volume of field vegetables by commodity (metric tons)

	2016	2017	2018	2019	2020
Tomatoes	501,375	492,394	497,438	490,286	492,211
Carrots <sup>1</sup>	368,479	385,627	361,539	362,984	350,614
Dry onions	220,364	235,882	241,619	250,847	229,481
Corn, sweet	200,470	196,869	189,691	189,554	197,873
Cabbage <sup>2</sup>	183,146	162,034	170,141	163,881	165,070
Pumpkins	82,725	82,792	76,042	75,925	93,244
Lettuce <sup>3</sup>	91,471	86,603	85,755	84,902	66,813
Peppers	68,704	71,242	66,945	63,438	65,479
Cucumbers and gherkins	64,280	62,204	57,295	59,344	57,306
Beans, green or wax	56,768	52,196	56,268	58,417	51,281
Peas, green	57,275	46,111	45,531	48,662	50,169
Squash and zucchinis	54,693	50,371	56,064	53,877	48,090
Beets	41,034	40,716	43,298	46,325	43,779
Rutabagas and turnips	47,883	47,781	47,138	45,737	42,215
Broccoli	42,286	42,432	42,427	42,313	38,250
Watermelons	25,137	26,200	30,548	32,942	33,562
Celery	39,001	34,967	32,414	32,441	30,758
Cauliflowers	32,685	32,494	28,996	31,598	29,794
Radishes <sup>4</sup>	15,727	16,383	15,802	15,618	15,167
Shallots and green onions	17,467	18,410	15,592	16,269	13,716
Other melons	17,723	14,327	14,259	12,472	11,049
Sweet potatoes	..	..	12,935	13,690	10,909
Brussels sprouts	5,400	6,234	6,331	6,394	8,399
Asparagus	9,368	8,956	8,963	10,235	7,747
Leeks	5,608	5,459	6,127	6,413	6,713
Parsnips	7,450	8,321	7,137	6,264	6,078
Spinach	5,825	5,503	4,832	4,607	4,154
Eggplants	..	..	3,248	3,475	3,350
Other fine herbs	..	..	1,084	1,580	1,971
Parsley	2,373	2,936	2,507	1,898	1,814
Rhubarb	1,625	2,525	1,680	1,656	1,281
Garlic	1,410	1,563	1,490	1,248	1,256
Other vegetables	..	..	34,788	35,837	33,035
<b>Total<sup>5</sup></b>	<b>2,267,753</b>	<b>2,239,530</b>	<b>2,265,925</b>	<b>2,271,130</b>	<b>2,212,628</b>

Notes:

1. Includes baby carrots and regular carrots.

2. Includes Chinese cabbage, regular cabbage and kale.

3. Includes leaf lettuce, head lettuce and mixed lettuce.

4. Includes Asian radishes.

5. Totals may not add up as some data was suppressed to meet confidentiality requirements of the Statistics Act.

.. Not available for a specific reference period.

Source: Statistics Canada. Table 32-10-0365-01 Area, production and farm gate value of vegetables



### 1.5. Farm gate value<sup>1</sup> of field vegetables by province (CAN\$ '000)

	2016	2017	2018	2019	2020	2020 % Share
Newfoundland and Labrador	6,259	5,486	4,693	5,110	5,522	0.4%
Prince Edward Island	12,775	12,887	13,475	13,635	13,117	1.0%
Nova Scotia	36,540	39,192	32,748	28,986	30,799	2.3%
New Brunswick	8,180	7,665	7,593	7,836	7,457	0.6%
Quebec	447,473	438,579	456,603	490,124	500,308	37.4%
Ontario	506,131	527,179	551,929	567,328	582,107	43.5%
Manitoba	29,194	33,671	30,341	32,995	32,966	2.5%
Saskatchewan	4,624	5,383	5,628	6,801	6,242	0.5%
Alberta	35,983	39,840	47,927	46,798	49,230	3.7%
British Columbia	102,109	101,093	105,904	104,064	109,099	8.2%
<b>Canada<sup>2</sup></b>	<b>1,189,268</b>	<b>1,210,975</b>	<b>1,256,842</b>	<b>1,303,677</b>	<b>1,336,847</b>	<b>100.0%</b>

Notes:

1. Farm-gate value is the value received by producers at the point of first transaction, when ownership first changes hands. This value excludes any separately billed costs such as delivery, storage, marketing and administration.

2. Totals may not add up as some data was suppressed to meet confidentiality requirements of the Statistics Act.

Source: Statistics Canada. Table 32-10-0365-01 Area, production and farm gate value of vegetables



## 1.6. Farm gate value of field vegetables by commodity (CAN\$ '000)

	2016	2017	2018	2019	2020
Carrots <sup>1</sup>	128,650	132,805	129,170	139,818	131,783
Tomatoes	111,768	109,876	106,820	109,857	116,858
Dry onions	86,463	91,337	101,940	112,449	113,526
Cabbage <sup>2</sup>	80,678	72,924	91,237	87,945	96,373
Corn, sweet	75,997	75,879	76,193	78,373	84,163
Broccoli	59,369	72,010	75,850	79,364	79,106
Peppers	61,770	67,570	68,632	74,405	78,518
Lettuce <sup>3</sup>	84,336	78,997	81,844	82,370	77,775
Squash and zucchinis	39,670	38,163	40,538	42,164	43,957
Asparagus	38,544	39,711	38,094	45,130	41,640
Cucumbers and gherkins	40,082	35,485	33,771	37,491	38,960
Beans, green or wax	36,303	35,694	35,620	39,159	38,390
Pumpkins	26,653	28,747	27,944	32,101	36,720
Cauliflowers	30,816	29,236	32,475	36,670	36,658
Shallots and green onions	26,933	32,992	30,851	32,686	32,761
Rutabagas and turnips	27,153	27,010	28,872	31,297	30,464
Peas, green	25,178	23,225	22,127	23,969	24,941
Celery	22,102	19,197	17,816	19,896	22,151
Beets	20,156	21,435	18,734	19,037	19,738
Radishes <sup>4</sup>	13,783	14,865	16,473	19,135	19,553
Watermelons	10,342	8,401	11,847	13,649	15,559
Brussels sprouts	9,389	12,279	12,593	13,078	14,256
Garlic	15,682	15,667	15,135	14,245	14,208
Leeks	8,955	9,674	11,066	12,316	13,590
Sweet potatoes	..	..	12,734	13,507	12,382
Spinach	12,462	11,700	10,620	10,355	10,430
Other melons	10,344	8,611	9,057	8,737	8,866
Parsnips	8,447	9,509	8,875	8,179	8,416
Other fine herbs	..	..	3,602	5,368	6,410
Eggplants	..	..	2,927	4,789	5,786
Parsley	5,215	6,541	6,080	5,071	5,153
Rhubarb	2,581	3,654	2,728	2,809	2,322
Other vegetables	69,447	77,783	74,574	48,259	55,432
<b>Total<sup>5</sup></b>	<b>1,189,268</b>	<b>1,210,975</b>	<b>1,256,842</b>	<b>1,303,677</b>	<b>1,336,847</b>

Notes:

1. Includes baby carrots and regular carrots.

2. Includes Chinese cabbage, regular cabbage and kale.

3. Includes leaf lettuce, head lettuce and mixed lettuce.

4. Includes Asian radishes.

5. Totals may not add up as some data was suppressed to meet confidentiality requirements of the Statistics Act.

.. Not available for a specific reference period.

Source: Statistics Canada. Table 32-10-0365-01 Area, production and farm gate value of vegetables



### 1.7. Number of field vegetable farms<sup>1,2,3</sup> by province

	2006	2011	2016
Newfoundland and Labrador	68	112	78
Prince Edward Island	54	299	250
Nova Scotia	125	140	177
New Brunswick	69	280	236
Quebec	857	974	1,172
Ontario	1,526	1,531	1,856
Manitoba	97	189	196
Saskatchewan	43	108	115
Alberta	124	277	299
British Columbia	669	912	1,135
<b>Canada</b>	<b>3,632</b>	<b>4,822</b>	<b>5,514</b>

Notes:

1. The last Census of Agriculture was conducted in 2016. The next Census of Agriculture will occur in May 2021.
2. Number of farms includes all farms reported to be growing field vegetables and on which field vegetable production represents 50% or more of total farm cash receipts.
3. Includes melons.

Source: Statistics Canada. Table 32-10-0403-01 Farms classified by farm type



## 1.8. Area, production and sales<sup>1</sup> of Canadian mushrooms

		2016	2017	2018	2019	2020
<b>Harvested area (thousands of square feet)</b>	Maritime provinces and Quebec	x	x	x	x	x
	Ontario	28,907	29,199	31,965	34,033	33,430
	Prairie provinces	x	x	x	x	x
	British Columbia	16,989	16,989	17,292	22,357	21,938
	<b>Canada<sup>2</sup></b>	<b>50,655</b>	<b>50,764</b>	<b>53,558</b>	<b>60,695</b>	<b>59,167</b>
<b>Production (metric tonnes)</b>	Maritime provinces and Quebec	x	x	x	x	x
	Ontario	61,083	63,103	69,196	66,687	66,787
	Prairie provinces	x	x	x	x	x
	British Columbia	46,894	47,325	47,352	56,424	x
	<b>Canada<sup>2</sup></b>	<b>118,711</b>	<b>120,253</b>	<b>125,565</b>	<b>132,114</b>	<b>132,589</b>
<b>Sales (CAN\$ '000)</b>	Maritime provinces and Quebec	x	x	x	x	x
	Ontario	287,959	311,346	338,350	339,329	369,977
	Prairie provinces	x	x	x	x	x
	British Columbia	171,358	173,785	173,790	207,592	x
	<b>Canada<sup>2</sup></b>	<b>506,650</b>	<b>527,570</b>	<b>553,320</b>	<b>589,468</b>	<b>619,691</b>

Notes:

1. Regional distribution shown as presented by Statistics Canada.

2. Totals may not add up as some data was suppressed to meet confidentiality requirements of the Statistics Act.

x : Suppressed to meet the confidentiality requirements of the Statistics Act.

Source: Statistics Canada. Table 32-10-0356-01 Area, production and sales of mushrooms





## 2. Trade

Given its geographical location and short growing season, Canada is highly dependent on imports to satisfy the steady domestic demand for vegetables throughout the year. As a result, Canada's field vegetable and mushroom trade deficit of \$2.5 billion in 2020 has remained nearly consistent with that in 2019 (-\$2.6 billion).

Canada's field vegetable exports (fresh and frozen) have grown by nearly 9% over the last five years to reach more than \$692 million in 2020, while the country's field vegetable imports (fresh and frozen) have increased by more than 15% during the same time to reach \$3.5 billion in 2020. In comparison to 2019, however, exports of field vegetables dropped by 5%, while imports decreased by 0.7%. Nearly all field vegetable exports are destined for the U.S. market (96%).

Consistent with field vegetables, the U.S. is also the top export destination for fresh mushrooms, accounting for 97% of export values. As Canadian mushroom production has been increasing – especially over the last five years – industry has been actively pursuing export development activities to increase exports to existing markets and to explore new export markets. In 2020, in the early months of the COVID-19 pandemic, despite impacts to operations and production, Canadian mushroom producers increased mushroom exports to capitalize on short-term mushroom shortages in the U.S. based on a surge in retail demand. With an export value of \$361 million, mushrooms accounted for 14.7% of vegetables (field vegetables, greenhouse vegetables and mushroom) exports in 2020, and recorded a positive trade surplus for mushrooms of \$302.7 million, an increase of 16.1% over the previous year.

Following mushrooms, cabbages accounted for 6.5% of the field vegetable export value in 2020, followed by carrots (6.4%), lettuce (6.3%), and onions and shallots (5.4%). In 2020, import values were highest for lettuce (16.0%), cabbages (11.4%), tomatoes (7.4%), peppers (6.3%) and onions and shallots (6.0%).

Cabbages are a significant export crop, accounting for \$68.2 million in export value – an increase of merely 0.2% over 2019. However, cabbages also represent Canada's second-most important import crop in terms of value, accounting for \$407.0 million in value in 2020, a decrease of 2.3% over the previous year.

Behind mushrooms and cabbages, carrots represent Canada's third-most important export crop. Consistent with noted decreases in planted area, total production and farm gate value, Canadian exports of carrots decreased by 6.3% compared to 2019, with export values of \$66.9 million in 2020. Imports of carrots rose by 1.3% over 2019 to \$149.8 million.

As Canada's fourth-most important field vegetable/mushroom crop, lettuce export values (\$66.4 million) decreased by 6.2% compared to 2019, largely due to a more than 20% drop in domestic production as a result of labour shortages associated with the COVID-19 pandemic. Lettuce remained Canada's most important field vegetable import in 2020, with \$575.0 million in imports, despite increased import requirements specifically for romaine lettuce originating from certain parts of the U.S. in the latter part of the year.

Onions and shallots represent Canada's fifth most important export crop among field vegetables and mushrooms, accounting for \$57.1 million in value. Compared to 2019, exports of onions and shallots grew by 2.8% in 2020. Canada also imported \$215.3 million worth of onions and shallots in 2020, down 9.2% over the previous year.



## 2.1. Canadian vegetable trade balance – by value (CAN\$ '000)

		2016	2017	2018	2019	2020
<b>Exports</b>	Field vegetables <sup>1,2</sup>	637,549	639,112	689,780	729,062	692,573
	Mushrooms	213,762	210,003	262,745	320,337	360,963
	<b>Total exports</b>	<b>851,310</b>	<b>849,114</b>	<b>952,525</b>	<b>1,049,398</b>	<b>1,053,536</b>
<b>Imports</b>	Field vegetables <sup>1,2</sup>	3,050,730	3,124,625	3,219,526	3,551,975	3,525,720
	Mushrooms	39,649	43,694	59,342	59,536	58,273
	<b>Total imports</b>	<b>3,090,380</b>	<b>3,168,319</b>	<b>3,278,869</b>	<b>3,611,511</b>	<b>3,583,993</b>
<b>Trade balance (exports - imports)</b>	Field vegetables <sup>1,2</sup>	-2,413,182	-2,485,513	-2,529,746	-2,822,913	-2,833,147
	Mushrooms	174,112	166,309	203,402	260,801	302,690
	<b>Overall trade balance</b>	<b>-2,239,069</b>	<b>-2,319,205</b>	<b>-2,326,344</b>	<b>-2,562,112</b>	<b>-2,530,457</b>

Notes:

1. Includes frozen vegetables.

2. Excludes potatoes.

Source: Statistics Canada (CATSNET, May 2021)



## 2.2. Exports

### 2.2.1. Canada's vegetable<sup>1</sup> exports by commodity – by value (CAN\$ '000)

	2016	2017	2018	2019	2020
Mushrooms	213,762	210,003	262,745	320,337	360,963
Cabbages <sup>2</sup>	57,332	49,100	79,292	68,056	68,179
Carrots	53,170	64,836	72,067	71,446	66,918
Lettuce <sup>3</sup>	54,798	56,217	60,274	70,857	66,435
Onions and shallots	54,503	54,033	58,831	55,525	57,073
Beans <sup>4</sup>	60,504	66,621	58,373	57,205	56,079
Peppers	42,123	34,100	38,449	38,952	42,666
Sweet potatoes	17,057	21,917	26,763	30,175	31,230
Pumpkins, squash and gourds	18,981	19,499	23,978	27,452	30,707
Tomatoes	30,753	25,454	23,500	29,230	28,457
Cucumbers and gherkins	36,198	27,305	25,232	32,309	27,807
Sweet corn <sup>4</sup>	29,627	30,593	27,376	23,285	22,969
Peas <sup>4</sup>	27,873	20,493	19,737	24,074	20,947
Cauliflowers and headed broccoli	17,398	19,888	16,608	30,498	19,655
Aubergines (egg-plants)	6,216	5,926	6,157	7,527	11,611
Spinach <sup>4</sup>	9,238	7,286	7,744	7,113	8,874
Asparagus	8,115	7,922	8,348	11,973	7,691
Brussels sprouts	1,533	4,794	3,556	4,054	4,066
Celery	2,514	2,948	4,042	4,842	3,339
Leeks <sup>5</sup>	2,208	1,988	1,884	1,914	2,609
Garlic	483	742	695	525	829
Turnips	545	1,282	732	784	479
Other vegetables <sup>4</sup>	106,377	116,168	126,143	131,265	113,951
<b>Total</b>	<b>851,310</b>	<b>849,114</b>	<b>952,525</b>	<b>1,049,398</b>	<b>1,053,536</b>

Notes:

1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.

2. Includes kohlrabi and kale and similar edible brassicas.

3. Includes cabbage lettuce (head lettuce).

4. Includes frozen.

5. Includes other alliaceae vegetables.

Source: Statistics Canada. (CATSNET, May 2021)



## 2.2.2. Canada's vegetable<sup>1</sup> exports by commodity – by volume (metric tons)

	2016	2017	2018	2019	2020
Carrots	78,925	96,754	93,935	100,824	86,420
Cabbages <sup>2</sup>	68,624	64,622	83,760	71,608	73,215
Onions and shallots	62,220	65,029	66,872	61,485	63,070
Mushrooms	37,559	38,172	46,004	52,177	57,286
Pumpkins, squash and gourds	27,188	26,706	32,584	36,836	44,806
Sweet potatoes	22,860	30,286	36,870	42,236	42,982
Peppers	50,152	41,248	39,695	40,734	40,131
Beans <sup>3</sup>	34,281	39,672	35,200	34,264	34,304
Lettuce <sup>4</sup>	39,670	38,849	37,744	40,306	32,205
Cucumbers and gherkins	41,641	37,214	30,849	38,763	32,201
Sweet corn <sup>3</sup>	19,770	21,476	19,517	17,297	17,583
Cauliflowers and headed broccoli	16,200	19,786	14,625	23,768	15,493
Peas <sup>3</sup>	19,483	12,274	11,530	13,645	11,508
Tomatoes	15,553	14,596	13,703	13,356	8,499
Celery	4,126	4,571	5,506	7,910	4,523
Aubergines (egg-plants)	1,874	1,675	2,028	2,399	2,893
Spinach <sup>3</sup>	2,546	1,768	1,886	1,445	1,465
Brussels sprouts	663	1,850	1,315	1,346	1,428
Asparagus	1,495	1,421	1,648	2,087	1,289
Leeks <sup>5</sup>	738	706	671	701	957
Turnips	1,265	1,643	661	558	362
Garlic	169	226	189	107	147
Other vegetables <sup>3</sup>	82,810	87,655	93,022	91,825	84,262
<b>Total</b>	<b>629,811</b>	<b>648,197</b>	<b>669,813</b>	<b>695,675</b>	<b>657,028</b>

Notes:

1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.

2. Includes kohlrabi and kale and similar edible brassicas.

3. Includes frozen.

4. Includes cabbage lettuce (head lettuce).

5. Includes other alliaceous vegetables.

Source: Statistics Canada. (CATSNET, May 2021)



### 2.2.3. Top 10 vegetable<sup>1,2</sup> export destinations – by value (CAN\$ '000)

	2016	2017	2018	2019	2020	2020 % Share
United States	807,782	816,080	916,816	996,201	1,005,544	95.4%
Netherlands	13,988	18,876	21,305	24,581	24,518	2.3%
Japan	16,939	4,284	4,767	15,976	10,640	1.0%
Israel	717	1,307	2,159	2,696	2,728	0.3%
Norway	0	166	1,633	1,735	2,192	0.2%
France	1,618	1,969	1,480	1,803	1,309	0.1%
China	3,890	1,108	178	1,737	864	0.1%
South Korea	0	2	0	56	659	0.1%
Egypt	406	172	0	0	640	0.1%
Saint Pierre and Miquelon	629	615	608	560	561	0.1%
Others	5,341	4,536	3,579	4,055	3,880	0.4%
<b>Total</b>	<b>851,310</b>	<b>849,114</b>	<b>952,525</b>	<b>1,049,398</b>	<b>1,053,536</b>	<b>100.0%</b>

Notes:

1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.

2. Includes frozen.

Source: Statistics Canada. (CATSNET, May 2021)

### 2.2.4. Top 10 vegetable<sup>1,2</sup> export destinations – by volume (metric tons)

	2016	2017	2018	2019	2020	2020 % Share
United States	598,624	614,758	630,916	648,287	608,391	92.6%
Netherlands	18,353	25,101	29,619	34,077	34,021	5.2%
Japan	741	642	526	2,306	1,385	0.2%
Israel	1,029	1,870	3,080	3,851	3,925	0.6%
Norway	0	210	2,325	2,485	3,129	0.5%
France	839	890	256	176	280	0.0%
China	5,153	1,077	210	1,187	914	0.1%
South Korea	0	3	0	60	608	0.1%
Egypt	296	159	0	0	576	0.1%
Saint Pierre and Miquelon	445	414	405	389	424	0.1%
Others	4,330	3,073	2,476	2,857	3,376	0.5%
<b>Total</b>	<b>629,811</b>	<b>648,197</b>	<b>669,813</b>	<b>695,675</b>	<b>657,028</b>	<b>100.0%</b>

Notes:

1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.

2. Includes frozen.

Source: Statistics Canada. (CATSNET, May 2021)



## 2.2.5. Destinations of top 5 Canadian vegetable<sup>1</sup> exports – by value (CAN\$ '000)

		2016	2017	2018	2019	2020
Mushrooms	United States	194,274	202,175	255,719	304,147	350,091
	Japan	16,380	3,379	4,106	11,958	8,637
	France	915	1,316	1,218	1,667	1,038
	Netherlands	1,286	1,390	442	816	715
	Germany	82	173	64	197	299
Cabbages <sup>2</sup>	United States	57,210	48,888	79,029	67,802	67,899
	Trinidad and Tobago	82	144	132	186	263
	Barbados	29	39	119	60	9
	France	10	9	9	6	5
	Saint Pierre and Miquelon	1	1	2	1	2
Carrots	United States	53,086	64,760	71,930	71,381	66,899
	Barbados	41	71	132	61	9
	France	4	4	4	3	5
	Saint Pierre and Miquelon	0	1	1	1	2
	Jamaica	0	0	0	0	2
Lettuce <sup>3</sup>	United States	54,765	56,118	60,145	70,849	66,338
	Japan	0	0	0	0	70
	Saint Pierre and Miquelon	6	2	3	3	18
	France	12	10	10	5	4
	Trinidad and Tobago	0	0	0	0	3
Onions and shallots	United States	53,989	53,745	58,688	55,289	56,918
	Netherlands	0	0	0	0	76
	Poland	0	0	0	0	45
	Dominica Republic	0	0	9	0	19
	Saint Pierre and Miquelon	1	1	1	1	6

Notes:

1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.

2. Includes kohlrabi and kale and similar edible brassicas.

3. Includes cabbage lettuce (head lettuce).

Source: Statistics Canada. (CATSnet, May 2021)



## 2.2.6. Destinations of top 5 Canadian vegetable<sup>1</sup> exports – by volume (metric tons)

		2016	2017	2018	2019	2020
Carrots	United States	78,749	96,575	93,614	100,690	86,378
	Barbados	99	168	309	124	22
	France	9	9	10	8	12
	Saint Pierre and Miquelon	1	1	1	1	5
	Jamaica	0	0	0	0	3
Cabbages <sup>2</sup>	United States	68,483	64,347	83,506	71,298	72,824
	Trinidad and Tobago	113	217	152	246	378
	Barbados	21	24	94	60	8
	France	7	6	6	4	3
	Saint Pierre and Miquelon	0	1	1	1	2
Onions and shallots	United States	61,679	64,676	66,650	61,217	62,858
	Netherlands	0	0	0	0	105
	Poland	0	0	0	0	70
	Dominica Republic	0	0	9	0	19
	France	2	1	2	6	6
Mushrooms	United States	37,169	37,966	45,846	51,804	56,927
	Japan	298	52	85	228	271
	France	30	51	39	70	40
	Netherlands	37	50	18	29	28
	Germany	2	7	2	8	12
Pumpkins, squash and gourds	United States	27,184	26,698	32,581	36,833	44,801
	France	2	3	2	2	3
	Saint Pierre and Miquelon	0	0	1	1	2

**Notes:**

1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.

2. Includes kohlrabi and kale and similar edible brassicas.

Source: Statistics Canada. (CATSNET, May 2021)



## 2.3 Imports

### 2.3.1. Canada's vegetable<sup>1</sup> imports by commodity – by value (CAN\$ '000)

	2016	2017	2018	2019	2020
Lettuce <sup>2</sup>	510,146	551,042	539,261	581,442	575,026
Cabbages <sup>3</sup>	384,075	374,847	380,289	416,705	407,043
Tomatoes	224,140	234,159	266,115	270,649	265,443
Peppers	201,189	182,789	206,548	232,755	226,911
Onions and shallots	202,016	178,611	193,406	237,092	215,328
Cauliflowers and headed broccoli	149,790	189,110	188,498	200,775	199,549
Spinach <sup>4</sup>	157,799	161,440	161,820	159,576	166,789
Carrots	152,097	139,341	150,872	147,857	149,804
Asparagus	104,213	111,090	110,175	110,174	116,323
Beans <sup>4</sup>	94,222	94,277	101,285	107,997	111,532
Celery	89,861	91,787	85,828	145,122	94,898
Pumpkins, squash and gourds	67,686	74,870	74,239	74,499	89,610
Peas <sup>4</sup>	83,113	85,693	90,375	89,317	88,585
Sweet potatoes	62,736	60,359	66,581	75,091	86,700
Sweet corn <sup>4</sup>	66,406	75,121	68,333	70,552	78,777
Garlic	68,727	62,931	48,607	60,491	73,148
Mushrooms	33,744	37,738	52,357	53,411	52,600
Eggplants (aubergines)	36,757	37,362	35,362	41,238	48,518
Yams <sup>4</sup>	34,714	35,413	31,054	39,841	47,273
Cucumbers and gherkins	37,487	43,157	44,622	41,821	40,675
Brussels sprouts	24,191	28,067	27,331	33,688	35,187
Bamboo shoots and cactus leaves	21,904	26,582	28,102	29,617	29,611
Okra	18,636	21,528	20,468	23,852	27,167
Radishes	16,337	16,077	16,763	19,229	20,585
Parsely	14,931	17,892	18,036	19,561	19,167
Other vegetables <sup>4</sup>	233,464	237,038	272,542	329,159	317,742
<b>Total</b>	<b>3,090,380</b>	<b>3,168,319</b>	<b>3,278,869</b>	<b>3,611,511</b>	<b>3,583,993</b>

Notes:

1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.

2. Includes cabbage lettuce (head lettuce).

3. Includes kohlrabi and kale and similar edible brassicas.

4. Includes frozen.

Source: Statistics Canada. (CATSNET, May 2021)





### 2.3.2. Canada's vegetable<sup>1</sup> imports by commodity – by volume (metric tons)

	2016	2017	2018	2019	2020
Lettuce <sup>2</sup>	279,021	278,990	271,831	278,474	256,910
Onions and shallots	196,947	179,212	187,087	206,785	210,739
Cabbages <sup>3</sup>	182,595	169,557	176,504	188,402	178,594
Tomatoes	133,931	137,017	158,823	151,987	121,452
Cauliflowers and headed broccoli	98,517	105,024	110,080	110,565	109,016
Carrots	119,526	112,982	115,073	109,785	107,887
Celery	87,975	86,871	88,271	81,687	92,606
Peppers	88,621	89,891	91,695	98,744	89,978
Sweet potatoes	62,734	66,242	72,402	68,568	76,276
Pumpkins, squash and gourds	54,723	56,589	55,580	57,611	60,011
Sweet corn <sup>4</sup>	56,407	64,505	58,542	59,995	51,684
Spinach <sup>4</sup>	44,193	46,588	46,620	45,936	47,955
Beans <sup>4</sup>	36,270	38,450	40,530	42,531	41,448
Cucumbers and gherkins	29,349	30,934	30,566	28,664	29,107
Eggplants (aubergines)	24,950	25,095	25,253	26,214	27,381
Asparagus	19,224	20,118	24,015	23,418	24,847
Garlic	18,352	18,648	21,391	20,684	24,240
Peas <sup>4</sup>	19,122	19,414	21,643	21,310	22,635
Yams <sup>4</sup>	19,986	20,296	17,128	19,437	20,222
Radishes	14,253	14,922	15,773	17,723	18,211
Bamboo shoots and cactus leaves	10,820	12,701	12,985	13,473	14,155
Brussels sprouts	7,617	9,318	10,466	10,475	11,900
Mushrooms	7,347	8,805	11,450	11,295	11,400
Parsley	8,779	9,716	9,596	10,042	9,166
Okra	6,599	6,776	7,049	7,709	7,535
Other vegetables <sup>4</sup>	131,111	136,325	151,907	183,487	167,813
<b>Total</b>	<b>1,758,970</b>	<b>1,764,985</b>	<b>1,832,263</b>	<b>1,895,002</b>	<b>1,833,168</b>

Notes:

1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.

2. Includes cabbage lettuce (head lettuce).

3. Includes kohlrabi and kale and similar edible brassicas.

4. Includes frozen.

Source: Statistics Canada. (CATSNET, May 2021)



### 2.3.3. Top 10 vegetable<sup>1</sup> import sources – by value (CAN\$ '000)

	2016	2017	2018	2019	2020	2020 % Share
United States	2,092,887	2,129,752	2,137,598	2,290,462	2,239,894	62.5%
Mexico	631,304	676,156	756,962	854,428	859,781	24.0%
China	107,928	108,497	100,124	121,426	123,785	3.5%
Guatemala	22,792	28,233	38,578	48,821	57,932	1.6%
Peru	48,336	46,502	42,016	41,223	47,353	1.3%
Spain	32,802	27,167	32,208	48,142	42,076	1.2%
Honduras	19,295	19,934	21,072	27,627	31,697	0.9%
Belgium	7,694	7,038	11,366	18,840	19,635	0.5%
Ecuador	4,166	5,581	7,731	15,544	18,685	0.5%
India	8,176	9,739	11,473	15,473	16,702	0.5%
Others	115,000	109,720	119,741	129,524	126,453	3.5%
<b>Total</b>	<b>3,090,380</b>	<b>3,168,319</b>	<b>3,278,869</b>	<b>3,611,511</b>	<b>3,583,993</b>	<b>100.0%</b>
Note:						
1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.						
Source: Statistics Canada. (CATSNET, May 2021)						

### 2.3.4. Top 10 vegetable<sup>1</sup> import sources – by volume (metric tons)

	2016	2017	2018	2019	2020	2020 % Share
United States	1,254,092	1,223,693	1,234,232	1,242,155	1,200,017	65.5%
Mexico	333,156	368,554	406,376	428,017	413,589	22.6%
China	57,534	62,941	67,586	76,602	73,821	4.0%
Spain	10,771	11,670	15,065	21,401	19,583	1.1%
Peru	11,843	11,155	11,701	11,858	13,599	0.7%
Belgium	4,087	3,894	7,549	12,931	12,806	0.7%
Guatemala	5,826	7,480	10,960	12,830	12,445	0.7%
Honduras	8,292	8,857	9,623	12,001	12,152	0.7%
Ecuador	1,939	2,615	3,631	7,366	8,845	0.5%
Costa Rica	7,544	7,639	7,805	7,692	8,128	0.4%
Others	63,886	56,488	57,734	62,149	58,183	3.2%
<b>Total</b>	<b>1,758,970</b>	<b>1,764,985</b>	<b>1,832,263</b>	<b>1,895,002</b>	<b>1,833,168</b>	<b>100.0%</b>
Note:						
1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.						
Source: Statistics Canada. (CATSNET, May 2021)						



### 2.3.5. Sources of top 5 Canadian vegetable<sup>1</sup> imports – by value (CAN\$ '000)

		2016	2017	2018	2019	2020
Lettuce <sup>2</sup>	United States	503,543	538,905	524,049	559,489	552,891
	Mexico	5,516	9,702	13,376	19,638	20,262
	China	531	614	684	1,128	1,038
	Guatemala	11	6	213	323	271
	Spain	194	1,126	379	366	157
Cabbages <sup>3</sup>	United States	323,162	314,193	314,624	329,379	311,777
	Mexico	55,024	55,540	58,571	76,173	84,215
	Guatemala	242	59	16	957	4,940
	China	3,569	2,551	2,802	3,185	3,078
	Spain	905	1,530	3,185	5,206	1,745
Tomatoes	Mexico	125,838	133,111	171,119	172,055	160,516
	United States	93,418	98,134	93,246	94,447	101,212
	Guatemala	209	554	857	2,522	2,869
	New Zealand	796	518	450	484	746
	Dominican Republic	571	526	255	27	56
Peppers	Mexico	92,336	85,148	104,384	119,593	113,021
	United States	72,839	71,818	72,077	73,880	78,540
	Spain	14,970	7,888	10,356	16,844	12,311
	Honduras	8,231	7,331	7,159	10,313	11,551
	Dominican Republic	4,008	5,457	4,546	4,094	5,785
Onions and shallots	United States	137,552	117,023	122,495	157,970	140,271
	Mexico	50,688	49,095	55,506	63,150	57,825
	Peru	7,346	6,699	7,060	7,596	9,601
	Netherlands	2,268	1,326	2,377	959	1,732
	China	1,224	1,138	1,517	1,629	1,618
Notes:						
1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.						
2. Includes cabbage lettuce (head lettuce).						
3. Includes kohlrabi and kale and similar edible brassicas.						
Source: Statistics Canada. (CATSNET, May 2021)						



### 2.3.6. Sources of top 5 Canadian vegetable<sup>1</sup> imports – by volume (metric tons)

		2016	2017	2018	2019	2020
Lettuce <sup>2</sup>	United States	275,522	271,701	263,431	267,963	246,767
	Mexico	2,980	6,270	7,623	9,493	9,379
	China	279	334	393	668	536
	Guatemala	4	1	53	70	50
	Spain	94	455	136	116	48
Onions and shallots	United States	162,046	145,643	148,853	168,513	171,343
	Mexico	24,687	23,996	27,041	27,195	26,914
	Peru	4,794	4,386	4,555	4,708	5,943
	Netherlands	2,201	1,633	2,102	591	1,543
	China	794	790	1,031	1,179	1,138
Cabbages <sup>3</sup>	United States	137,582	126,373	127,123	131,208	121,340
	Mexico	38,038	37,346	42,043	46,277	49,993
	Guatemala	84	25	5	167	863
	China	4,722	3,945	4,116	5,117	3,944
	Spain	465	868	1,928	3,438	1,302
Tomatoes	Mexico	68,764	73,769	94,386	92,408	72,420
	United States	63,302	62,029	63,644	57,770	47,772
	Guatemala	114	259	336	1,045	947
	New Zealand	463	288	240	169	252
	Dominican Republic	249	253	128	9	38
Cauliflowers and headed broccoli	United States	91,700	89,224	96,307	91,896	89,095
	Mexico	6,322	14,720	12,987	17,045	18,669
	Spain	272	603	496	1,231	809
	Guatemala	1	3	0	56	249
	China	98	241	159	262	162

**Notes:**

1. Includes field vegetables and mushrooms, excludes greenhouse vegetables and potatoes.

2. Includes cabbage lettuce (head lettuce).

3. Includes kohlrabi and kale and similar edible brassicas.

Source: Statistics Canada. (CATSNET, May 2021)



### 3. Availability for consumption

The total amount of fresh vegetables available, including greenhouse vegetables, decreased 5.6% over 2016 values to 67.61 kilograms per person in 2020. The availability of fresh vegetables decreased slightly (-2.7%) compared with 2019, fueled by the decline in field vegetable production (-2.6%) and imports (-3.3%) over the same time period.

#### 3.1. Fresh vegetable available<sup>1</sup> for consumption<sup>2</sup> in Canada (kilograms per person)

	2016	2017	2018	2019	2020
Onions and shallots fresh	8.77	8.68	8.44	8.86	9.47
Lettuce fresh <sup>3</sup>	8.65	8.48	8.20	8.29	7.44
Tomatoes fresh <sup>3</sup>	8.15	7.88	8.39	7.87	7.06
Carrots fresh	7.75	7.19	7.27	6.47	6.47
Cabbage fresh	4.31	4.00	4.26	4.50	4.24
Peppers fresh <sup>3</sup>	4.09	4.36	4.33	4.31	3.90
Pumpkins and squash fresh	3.35	3.44	3.20	3.17	3.33
Cucumbers fresh <sup>3</sup>	3.00	3.18	3.56	3.24	3.19
Cauliflower fresh	2.87	2.88	3.01	2.80	2.87
Celery fresh	3.07	2.80	2.69	2.43	2.77
Corn fresh	3.12	3.01	2.84	2.78	2.60
Broccoli fresh	2.70	2.31	2.45	2.38	2.29
Mushrooms fresh	2.15	2.16	2.13	2.10	1.80
Chinese cabbage fresh <sup>4</sup>	0.96	0.94	1.62	1.69	1.62
Spinach fresh	0.93	0.97	0.94	0.92	0.93
Rutabagas and turnips fresh	1.08	0.98	1.17	0.91	0.92
Beans green and wax fresh	0.91	0.86	0.89	0.92	0.87
Beets fresh	0.91	0.98	0.97	0.95	0.81
Asparagus fresh	0.68	0.68	0.75	0.75	0.74

Notes:

1. Food available per person is calculated by dividing the domestic disappearance by the Canadian population as of July 1st of the reference year, at the retail level.

Domestic disappearance represents the total food available for human consumption from the Canadian food supply chain.

Total Supply = Beginning stocks + Production + Imports

Domestic Disappearance = Total supply – Exports – Manufacturing - Waste - Ending stocks

2. Does not adjust for losses (such as waste and/or spoilage in stores, households, private institutions, restaurants) or losses

3. Includes greenhouse vegetables.

4. "Chinese cabbage fresh" is included in cabbage.

Source: Statistics Canada. Table 32-10-0054-01 Food available in Canada

...cont'd



### 3.1. Fresh vegetable available<sup>1</sup> for consumption<sup>2</sup> in Canada (kilograms per person) – cont'd

	2016	2017	2018	2019	2020
Kale fresh <sup>3</sup>	..	..	0.79	0.77	0.68
Eggplants fresh	0.57	0.58	0.62	0.63	0.63
Garlic fresh	0.44	0.44	0.49	0.47	0.54
Radishes fresh	0.43	0.44	0.35	0.37	0.43
Brussels sprouts fresh	0.29	0.29	0.34	0.33	0.42
Leeks fresh	0.28	0.27	0.27	0.30	0.31
Parsley fresh	0.29	0.32	0.30	0.30	0.27
Peas fresh	0.19	0.31	0.32	0.26	0.25
Okra fresh	0.16	0.16	0.17	0.18	0.17
Rappini fresh	0.18	0.21	0.18	0.18	0.17
Manioc fresh	0.10	0.11	0.12	0.13	0.16
Parsnips fresh	0.20	0.23	0.19	0.16	0.16
Other edible roots fresh	0.12	0.06	0.05	0.06	0.05
Artichokes fresh	0.03	0.03	0.04	0.03	0.04
Olives fresh	0.00	0.01	0.00	0.01	0.01
Kohlrabi fresh	0.91	0.88	..	..	..
<b>Total</b>	<b>71.64</b>	<b>70.12</b>	<b>71.34</b>	<b>69.52</b>	<b>67.61</b>

Notes:

1. Food available per person is calculated by dividing the domestic disappearance by the Canadian population as of July 1st of the reference year, at the retail level.

Domestic disappearance represents the total food available for human consumption from the Canadian food supply chain.

Total Supply = Beginning stocks + Production + Imports

Domestic Disappearance = Total supply – Exports – Manufacturing - Waste - Ending stocks

2. Does not adjust for losses (such as waste and/or spoilage in stores, households, private institutions, restaurants) or losses during preparation.

3. "Kale fresh" is included in cabbage.

.. Data not available for a specific period.

Source: Statistics Canada. Table 32-10-0054-01 Food available in Canada



### 3.2. Fresh vegetable available<sup>1</sup> for consumption adjusted for losses<sup>2</sup> in Canada (kilograms per person)

	2016	2017	2018	2019	2020
Tomatoes fresh <sup>3</sup>	5.90	5.71	6.08	5.70	5.12
Onions and shallots fresh	4.20	4.16	4.05	4.25	4.54
Lettuce fresh <sup>3</sup>	4.62	4.53	4.38	4.43	3.98
Carrots fresh	4.22	3.92	3.96	3.52	3.53
Cabbage fresh	2.42	2.25	2.40	2.53	2.39
Peppers fresh <sup>3</sup>	1.83	1.95	1.94	1.92	1.74
Cucumbers fresh <sup>3</sup>	1.31	1.39	1.55	1.41	1.39
Celery fresh	1.52	1.39	1.34	1.21	1.37
Broccoli fresh	1.35	1.16	1.23	1.19	1.15
Mushrooms fresh	1.36	1.37	1.35	1.33	1.14
Chinese cabbage fresh <sup>4</sup>	0.54	0.53	0.91	0.95	0.91
Cauliflower fresh	0.84	0.85	0.88	0.82	0.84
Corn fresh	0.75	0.72	0.68	0.67	0.62
Pumpkins and squash fresh	0.60	0.61	0.57	0.56	0.59
Spinach fresh	0.50	0.52	0.50	0.49	0.50
Beans green and wax fresh	0.48	0.45	0.47	0.48	0.45
Beets fresh	0.50	0.54	0.53	0.52	0.44
Brussels sprouts fresh	0.22	0.22	0.25	0.25	0.31
Eggplants fresh	0.27	0.27	0.30	0.30	0.30
Asparagus fresh	0.25	0.25	0.28	0.27	0.27
Garlic fresh	0.21	0.21	0.23	0.22	0.25

**Notes:**

1. Food available per person is calculated by dividing the domestic disappearance by the Canadian population as of July 1st of the reference year, at the retail level.

Domestic disappearance represents the total food available for human consumption from the Canadian food supply chain.

Total Supply = Beginning stocks + Production + Imports

Domestic Disappearance = Total supply – Exports – Manufacturing - Waste - Ending stocks

2. Experimental, use with caution. The data have been adjusted for retail, household, cooking and plate loss.

3. Includes greenhouse vegetables.

4. "Chinese cabbage fresh" is included in cabbage.

Source: Statistics Canada. Table 32-10-0054-01 Food available in Canada

...cont'd



### 3.2. Fresh vegetable available<sup>1</sup> for consumption adjusted for losses<sup>2</sup> in Canada (kilograms per person) - cont'd

	2016	2017	2018	2019	2020
Kale fresh <sup>3</sup>	..	..	0.22	0.21	0.19
Radishes fresh	0.16	0.16	0.13	0.13	0.16
Leeks fresh	0.13	0.13	0.13	0.14	0.15
Rutabagas and turnips fresh	0.17	0.16	0.19	0.15	0.15
Parsley fresh	0.15	0.16	0.15	0.15	0.14
Peas fresh	0.10	0.16	0.17	0.14	0.13
Manioc fresh	0.07	0.07	0.08	0.09	0.11
Parsnips fresh	0.11	0.13	0.10	0.09	0.09
Rappini fresh	0.10	0.11	0.09	0.10	0.09
Okra fresh	0.07	0.07	0.07	0.07	0.07
Other edible roots fresh	0.09	0.04	0.03	0.05	0.04
Artichokes fresh	0.01	0.01	0.01	0.01	0.01
Kohlrabi fresh	0.64	0.62	..	..	..
<b>Total</b>	<b>35.69</b>	<b>34.82</b>	<b>35.25</b>	<b>34.35</b>	<b>33.16</b>

Notes:

1. Food available per person is calculated by dividing the domestic disappearance by the Canadian population as of July 1st of the reference year, at the retail level.

Domestic disappearance represents the total food available for human consumption from the Canadian food supply chain.

Total Supply = Beginning stocks + Production + Imports

Domestic Disappearance = Total supply – Exports – Manufacturing - Waste - Ending stocks

2. Experimental, use with caution. The data have been adjusted for retail, household, cooking and plate loss.

3. "Kale fresh" is included in cabbage.

.. Data not available a specific reference period.

Source: Statistics Canada. Table 32-10-0054-01 Food available in Canada





## 4. World data

Canada accounts for only 0.2% of global vegetable production. China is by far the leading producer of vegetables with 42.1% of world production, followed by India with 14.3% and Nigeria with 7.3%. Globally, tomatoes are the most produced vegetables in terms of volume, followed by dry onions, cucumbers and gherkins, cabbages and other brassicas and eggplants.

The United States is the largest importer of vegetables in terms of value and volume, while Canada ranks as the fourth largest importer of vegetables in terms of value, and fifth in terms of volume. Worldwide, the top imported vegetable crops in terms of value include tomatoes, peppers, onions and shallots, cucumbers and gherkins and garlic.

Mexico is the largest exporter of vegetables globally in terms of value and volume. Canada ranks sixth in terms of value and twelfth in terms of volume of vegetable exports. Across the world, tomatoes, peppers, onions and shallots, garlic and cucumbers and gherkins rank in the top five in terms of value of exported vegetable crops.



## 4.1. World production

### 4.1.1. World fresh vegetable<sup>1</sup> production by commodity – by volume (metric tons)

	2015	2016	2017	2018	2019
Tomatoes	176,467,071	176,857,813	177,816,529	179,897,928	180,766,329
Onions, dry	91,342,444	95,082,411	97,324,071	98,070,716	99,968,016
Cucumbers and gherkins	78,344,450	80,095,241	81,890,576	84,832,296	87,805,086
Cabbages and other brassicas	70,312,824	69,888,294	70,527,921	69,260,147	70,150,406
Eggplants (aubergines)	50,757,930	51,513,313	52,809,783	54,101,724	55,197,878
Carrots and turnips	40,265,109	41,395,127	42,464,814	41,904,105	44,762,859
Chillies and peppers, green	33,379,014	34,831,440	36,505,915	37,341,843	38,027,164
Garlic	26,947,557	27,099,050	27,929,665	28,811,344	30,708,243
Spinach	25,572,352	26,634,232	27,770,438	28,951,667	30,107,231
Lettuce and chicory	26,375,002	27,730,748	28,153,614	28,581,526	29,134,653
Beans, green	23,882,124	24,426,006	25,198,877	26,269,262	26,981,784
Cauliflowers and broccoli	24,322,669	25,046,216	25,964,423	26,210,885	26,918,570
Pumpkins, squash and gourds	25,677,755	26,500,173	27,678,883	22,739,602	22,900,826
Peas, green	19,360,732	19,799,220	20,685,440	21,152,870	21,766,060
Mushrooms and truffles	10,668,163	10,459,903	10,894,957	11,277,323	11,898,399
Okra	9,265,213	8,826,654	9,174,357	9,533,328	9,953,537
Asparagus	8,683,800	8,879,916	9,097,963	9,275,581	9,432,062
Maize, green	11,626,411	11,465,098	11,409,076	9,007,151	8,299,885
Onions, shallots, green	4,461,521	4,649,548	4,742,066	4,657,962	4,491,246
Leeks, other alliaceous vegetables	2,117,707	2,143,979	2,192,395	2,147,394	2,192,476
Artichokes	1,454,121	1,418,195	1,668,034	1,625,742	1,594,385
Vegetables, leguminous nes <sup>2</sup>	1,481,390	1,544,066	1,542,725	1,646,295	1,566,331
String beans	1,857,604	1,923,324	1,938,125	1,457,244	1,387,667
Vegetables, fresh nes <sup>2</sup>	292,097,509	298,332,117	301,749,403	304,954,567	311,818,565
<b>Total</b>	<b>1,056,720,472</b>	<b>1,076,542,084</b>	<b>1,097,130,050</b>	<b>1,103,708,502</b>	<b>1,127,829,658</b>

Notes:

1. Includes greenhouse vegetables.

2. Nes: Not elsewhere specified.

Source: FAOSTAT (May 2021)



#### 4.1.2. World fresh vegetable<sup>1</sup> production by country – by volume (metric tons)

	2015	2016	2017	2018	2019
China	535,009,927	544,731,604	559,242,514	573,753,309	588,264,053
India	119,983,010	125,895,058	131,623,271	130,110,549	132,026,555
United	34,474,393	34,137,750	32,083,314	31,737,592	29,999,514
Turkey	23,696,207	24,421,408	24,923,427	24,130,023	25,338,974
Viet Nam	14,598,413	15,221,974	15,754,137	16,310,145	16,966,279
Nigeria	16,187,140	14,495,945	15,068,458	16,058,522	16,670,642
Egypt	16,396,416	15,305,699	15,522,647	15,387,430	15,419,841
Mexico	13,219,509	14,299,146	15,494,630	16,154,509	15,226,085
Russia	16,120,150	13,190,558	13,628,739	13,716,319	14,153,617
Spain	12,513,475	13,136,700	13,146,752	12,633,316	13,259,340
Iran	13,669,831	13,716,700	11,115,357	10,769,523	11,827,191
Indonesia	10,237,085	10,800,118	11,172,548	11,499,330	11,772,048
Japan	10,361,754	10,216,335	10,241,904	10,098,273	10,204,458
South Korea	9,250,321	9,029,139	9,528,412	10,074,174	10,024,761
Uzbekistan	10,129,923	11,238,256	10,108,659	9,131,691	9,984,635
Italy	12,807,840	13,046,726	12,487,354	10,138,270	9,911,660
Ukraine	9,354,914	9,498,843	9,304,866	9,458,565	9,707,260
Brazil	8,777,355	9,043,312	9,103,958	8,981,096	8,854,139
Algeria	5,985,283	6,447,471	6,524,875	6,910,318	7,295,378
Philippines	6,520,185	6,581,725	6,748,167	6,826,774	6,977,857
Bangladesh	5,058,058	5,204,172	5,823,913	5,759,325	6,300,864
Pakistan	4,784,710	4,936,720	5,048,616	5,456,219	5,462,905
Poland	5,070,030	5,896,363	6,001,996	5,503,800	5,402,394
Myanmar	5,095,662	5,021,382	4,952,823	5,016,444	5,097,338
Netherlands	5,091,869	4,973,340	5,431,081	4,680,980	4,844,600
...					
<b>Canada<sup>2</sup></b>	<b>2,283,861</b>	<b>2,361,558</b>	<b>2,336,901</b>	<b>2,305,505</b>	<b>2,307,120</b>
<b>Total</b>	<b>1,056,720,472</b>	<b>1,076,542,084</b>	<b>1,097,130,050</b>	<b>1,103,708,502</b>	<b>1,127,829,658</b>

Notes:

1. Includes greenhouse vegetables

2. In 2019, Canada ranked 47th globally producer of vegetables.

Source: FAOSTAT (May 2021)



#### 4.1.3. World fresh vegetable<sup>1</sup> production by commodity – by area (hectares)

	2015	2016	2017	2018	2019
Onions, dry	4,834,022	5,082,930	5,170,672	5,184,792	5,192,651
Tomatoes	4,823,351	4,850,243	4,876,264	4,924,941	5,030,545
Peas, green	2,485,629	2,562,258	2,640,432	2,713,930	2,781,632
Okra	2,722,432	2,163,945	2,147,134	2,349,356	2,729,811
Cabbages and other brassicas	2,485,056	2,448,893	2,458,206	2,421,774	2,446,294
Cucumbers and gherkins	2,160,161	2,188,543	2,167,124	2,153,254	2,231,402
Chillies and peppers, green	1,889,649	1,946,257	1,991,064	1,991,850	1,990,926
Eggplants (aubergines)	1,789,765	1,775,698	1,844,471	1,843,349	1,847,787
Beans, green	1,562,360	1,590,223	1,601,434	1,632,581	1,649,711
Garlic	1,497,306	1,505,077	1,556,452	1,588,643	1,634,634
Asparagus	1,528,380	1,561,019	1,584,740	1,606,778	1,623,741
Pumpkins, squash and gourds	1,943,944	1,975,536	2,070,832	1,526,112	1,539,023
Cauliflowers and broccoli	1,299,227	1,343,606	1,400,722	1,409,236	1,436,815
Lettuce and chicory	1,223,238	1,260,992	1,283,135	1,298,906	1,316,028
Carrots and turnips	1,169,123	1,160,677	1,161,151	1,100,330	1,128,695
Maize, green	1,117,135	1,169,036	1,174,533	1,101,160	1,016,516
Spinach	895,725	906,168	916,244	922,111	930,791
Vegetables, leguminous nes <sup>2</sup>	238,167	237,948	238,904	245,978	249,857
Onions, shallots, green	215,281	224,324	230,151	227,288	220,246
String beans	194,623	200,169	192,041	158,172	146,438
Leeks, other alliaceous vegetables	127,588	133,106	137,941	138,268	136,103
Artichokes	116,870	122,055	129,078	124,406	122,644
Mushrooms and truffles	28,518	42,893	54,141	79,247	104,342
Vegetables, fresh nes <sup>2</sup>	20,314,135	20,769,298	21,082,174	21,449,124	21,942,719
<b>Total</b>	<b>56,661,685</b>	<b>57,220,894</b>	<b>58,109,040</b>	<b>58,191,586</b>	<b>59,449,351</b>
Notes:					
1. Includes greenhouse vegetables.					
2. Nes: Not elsewhere specified.					
Source: FAOSTAT (May 2021)					



#### 4.1.4. World fresh vegetable<sup>1</sup> production by country – by area (hectares)

	2015	2016	2017	2018	2019
China	23,394,278	23,712,970	24,154,205	24,595,132	25,035,991
India	8,248,289	8,573,858	8,820,915	8,419,776	8,483,717
Nigeria	3,934,811	3,559,314	3,655,102	3,894,902	4,350,890
Indonesia	1,012,050	1,068,763	1,153,175	1,147,863	1,102,338
Viet Nam	935,974	954,542	985,270	1,009,363	1,020,612
United States	934,200	992,661	962,168	935,038	849,758
Philippines	742,685	757,231	775,780	787,764	801,861
Cameroon	659,384	715,064	756,023	735,347	764,725
Turkey	688,476	718,405	742,198	727,822	747,417
Mexico	672,735	711,186	702,994	703,734	681,630
Bangladesh	566,771	572,895	616,549	616,749	651,132
Egypt	662,922	626,065	626,210	630,535	636,001
Russia	679,727	552,971	550,015	559,920	575,034
Tanzania	435,566	460,527	484,662	509,128	534,027
Ukraine	453,890	451,619	446,638	440,513	452,736
Pakistan	402,297	405,630	407,346	421,370	411,980
Myanmar	378,260	376,119	379,657	385,100	391,418
Iran	455,841	465,469	364,378	354,935	383,048
Japan	375,487	375,181	374,125	372,946	370,179
Brazil	370,976	375,156	368,570	362,946	363,667
Thailand	355,021	361,904	357,765	356,183	349,816
Italy	467,396	476,762	463,926	323,390	329,740
Sudan	246,068	277,287	262,424	291,742	325,576
Spain	313,455	327,119	330,669	324,749	323,960
Algeria	291,120	295,859	295,738	299,310	304,361
..					
<b>Canada<sup>2</sup></b>	<b>97,787</b>	<b>98,387</b>	<b>92,477</b>	<b>91,348</b>	<b>89,396</b>
<b>Total</b>	<b>56,661,685</b>	<b>57,220,894</b>	<b>58,109,040</b>	<b>58,191,586</b>	<b>59,449,351</b>

Notes:

1. Includes greenhouse vegetables

2. In 2019, Canada ranked 64th globally producer of vegetables.

Source: FAOSTAT (May 2021)



## 4.2. World trade

### 4.2.1. Top importers of fresh vegetables<sup>1,2</sup> worldwide – by value (CAN\$ '000)

	2016	2017	2018	2019	2020
United States	10,847,154	10,507,922	11,073,962	12,157,291	13,682,395
Germany	6,323,700	6,644,541	6,891,988	6,944,456	7,663,895
United Kingdom	4,183,710	4,030,214	4,286,384	4,320,309	4,335,119
<b>Canada</b>	<b>3,279,970</b>	<b>3,278,247</b>	<b>3,310,156</b>	<b>3,582,958</b>	<b>3,567,095</b>
France	3,147,200	3,226,818	3,216,064	3,263,324	3,481,275
Netherlands	2,270,485	2,436,070	2,426,831	2,542,472	2,586,722
Russia	1,528,619	1,846,241	1,858,720	1,998,078	1,640,317
Belgium	1,345,654	1,324,487	1,231,592	1,255,909	1,322,219
Poland	770,854	892,603	972,364	1,141,041	1,188,637
Italy	921,491	1,040,880	1,045,036	1,234,674	1,079,044
Japan	1,211,572	1,089,244	1,181,194	1,053,748	972,608
Spain	762,502	825,542	926,634	945,186	948,354
Hong Kong	597,345	592,635	545,081	673,303	934,201
Indonesia	730,731	856,993	747,838	804,985	903,565
Puerto Rico	155,153	208,791	190,086	184,467	878,741
<b>Total</b>	<b>51,107,557</b>	<b>51,574,899</b>	<b>52,547,337</b>	<b>55,625,684</b>	<b>58,997,701</b>
Notes:					
1. Does not include potatoes.					
2. Includes greenhouse vegetables.					
Source: Global Trade Tracker. (May 2021)					



#### 4.2.2. Top importers of fresh vegetables<sup>1,2</sup> worldwide – by volume (metric tons)

	2016	2017	2018	2019	2020
United States	6,654,417	6,854,776	7,183,619	7,475,785	7,626,458
Germany	3,301,213	3,281,295	3,307,256	3,374,409	3,479,545
United Kingdom	2,373,964	2,188,916	2,272,553	2,310,233	2,179,513
France	1,954,242	1,877,919	1,947,215	1,909,910	1,888,280
<b>Canada</b>	<b>1,719,209</b>	<b>1,699,506</b>	<b>1,752,649</b>	<b>1,782,549</b>	<b>1,724,860</b>
Netherlands	1,259,615	1,319,181	1,407,602	1,503,377	1,404,638
Russian Federation	1,355,039	1,710,313	1,662,228	1,666,663	1,371,473
Belgium	1,191,546	1,202,216	1,103,391	1,121,359	1,165,964
Malaysia	1,138,572	1,190,546	1,189,796	1,102,400	1,079,029
Saudi Arabia	754,325	762,427	771,703	1,011,353	954,770
Hong Kong	827,454	853,928	780,378	804,569	909,812
Poland	551,036	562,521	616,817	830,814	773,459
Pakistan	348,006	192,058	339,182	478,940	745,770
Indonesia	600,181	715,866	716,714	591,427	735,244
Spain	559,069	545,599	655,785	679,604	648,451
<b>Total</b>	<b>35,991,004</b>	<b>36,280,543</b>	<b>37,419,881</b>	<b>38,619,397</b>	<b>38,397,660</b>

Note:

1. Does not include potatoes.

2. Includes greenhouse vegetables.

Source: Global Trade Tracker. (May 2021)



#### 4.2.3. Top selected fresh vegetable<sup>1,2</sup> imports worldwide – by value (CAN\$ '000)

	2016	2017	2018	2019	2020
Tomatoes	11,226,696	11,503,589	11,741,525	11,819,616	12,805,766
Peppers	6,961,652	6,823,142	7,103,876	7,519,302	8,172,040
Onions and shallots	3,685,128	3,534,077	3,675,115	4,550,701	4,039,624
Cucumbers and gherkins	3,236,263	3,274,033	3,585,869	3,566,920	3,846,707
Garlic	3,647,881	3,382,512	2,537,785	2,977,920	3,664,181
Cabbages, kohlrabi and kale <sup>3</sup>	2,335,717	2,356,785	2,287,749	2,565,550	2,680,104
Lettuce <sup>4</sup>	3,085,558	3,240,777	3,278,946	3,436,596	3,458,228
Pumpkins, squash and gourds	1,700,189	1,792,256	1,788,854	1,858,941	2,227,422
Asparagus	1,983,522	2,011,021	1,983,953	2,062,052	1,998,643
Cauliflowers and headed broccoli	1,345,426	1,464,897	1,534,237	1,675,884	1,779,220
Mushrooms	2,297,926	2,376,530	2,526,693	2,637,450	2,645,142
Carrots and turnips	1,565,086	1,383,144	1,746,351	1,623,624	1,568,352
Beans	1,301,900	1,302,604	1,420,431	1,338,594	1,438,229
Aubergines "eggplants"	623,587	658,947	643,671	667,864	735,031
Peas	513,988	523,300	564,591	567,262	607,664
Spinach	406,388	436,992	446,456	519,010	587,800
Leeks <sup>5</sup>	551,866	538,997	535,313	519,020	491,268
Celery	350,386	366,010	356,230	523,567	475,796
Brussels sprouts	223,376	249,958	247,560	273,726	304,270
Chicory and witloof chicory	330,764	346,629	350,506	332,529	319,192
Leguminous vegetables, nes	99,066	108,185	115,639	115,395	103,042
Olives	96,652	85,183	87,200	121,879	96,596
Globe artichokes	86,801	100,456	86,778	98,575	88,883
Other vegetables, nes	3,451,739	3,714,874	3,902,012	4,253,705	4,864,504
<b>Total</b>	<b>51,107,557</b>	<b>51,574,899</b>	<b>52,547,337</b>	<b>55,625,684</b>	<b>58,997,701</b>

Notes:

1. Only "fresh or chilled" vegetables were considered in calculations for this table.
2. Includes greenhouse vegetables.
3. Includes similar brassicas but excludes cauliflowers, headed broccoli and brussels sprouts.
4. Includes cabbage lettuce.
5. Includes other alliaceous vegetables.

Nes: Not elsewhere specified.

Source: Global Trade Tracker. (May 2021)





#### 4.2.4. Top selected fresh vegetable<sup>1,2</sup> imports worldwide – by volume (metric tons)

	2016	2017	2018	2019	2020
Tomatoes	6,886,025	6,666,945	6,936,538	7,047,211	6,975,548
Onions and shallots	6,295,042	6,327,341	6,387,063	7,047,294	6,403,883
Peppers	3,224,562	3,320,422	3,538,850	3,570,779	3,642,674
Cucumbers and gherkins	2,559,427	2,623,844	2,729,243	2,795,748	2,817,743
Cabbages, kohlrabi and kale <sup>3</sup>	2,629,229	2,684,086	2,655,237	2,791,211	2,778,730
Carrots and turnips	2,393,724	2,319,922	2,457,283	2,438,249	2,394,042
Garlic	1,648,950	1,718,155	1,818,469	1,720,916	2,029,021
Lettuce <sup>4</sup>	1,899,496	1,944,928	1,967,388	2,068,229	2,028,181
Pumpkins, squash and gourds	1,448,086	1,422,291	1,515,497	1,568,964	1,620,962
Cauliflowers and headed broccoli	960,320	1,059,602	1,032,669	1,077,707	1,065,357
Mushrooms	667,354	670,846	680,199	702,890	691,039
Beans	613,717	612,943	647,566	602,589	649,045
Aubergines "eggplants"	423,895	421,844	440,074	435,422	446,550
Asparagus	373,350	388,738	431,805	434,045	427,139
Celery	386,476	385,328	361,159	406,443	420,407
Peas	274,808	275,654	277,077	273,218	293,624
Leeks <sup>5</sup>	325,517	327,025	306,793	297,610	289,540
Spinach	174,388	192,372	195,632	212,608	209,983
Brussels sprouts	172,118	170,718	170,482	171,035	190,654
Chicory and witloof chicory	186,765	187,516	175,880	166,295	148,722
Leguminous vegetables, nes	87,298	94,564	109,895	95,114	70,950
Olives	61,008	49,863	55,236	88,295	64,701
Globe artichokes	45,806	53,412	44,120	52,049	44,964
Other vegetables, nes	2,253,643	2,362,183	2,485,724	2,555,476	2,694,200
<b>Total</b>	<b>35,991,004</b>	<b>36,280,543</b>	<b>37,419,881</b>	<b>38,619,397</b>	<b>38,397,660</b>

Notes:

1. Only "fresh or chilled" vegetables were considered in calculations for this table.
2. Includes greenhouse vegetables.
3. Includes similar brassicas but excludes cauliflowers, headed broccoli and brussels sprouts.
4. Includes cabbage lettuce.
5. Includes other alliaceous vegetables.

Nes: Not elsewhere specified.

Source: Global Trade Tracker. (May 2021)



#### 4.2.5. Top exporters of fresh vegetables<sup>1,2</sup> worldwide – by value (CAN\$ '000)

	2016	2017	2018	2019	2020
Mexico	8,017,016	7,744,417	8,308,149	9,341,973	10,392,851
Spain	7,487,737	7,558,015	7,957,116	8,430,365	8,993,622
Netherlands	7,657,782	7,855,803	8,344,392	8,649,723	8,889,278
China	6,630,770	6,268,402	5,421,175	6,590,802	7,115,788
United States	2,728,023	2,733,831	2,780,397	2,948,787	2,844,746
<b>Canada</b>	<b>1,514,634</b>	<b>1,596,555</b>	<b>1,736,653</b>	<b>1,940,511</b>	<b>2,244,590</b>
Italy	1,880,405	1,888,416	2,031,750	2,030,948	2,048,278
Morocco	1,103,398	1,397,424	1,368,536	1,521,436	1,662,319
France	1,585,353	1,605,201	1,521,924	1,594,886	1,651,663
Belgium	1,211,271	1,225,856	1,100,116	1,185,205	1,273,925
Poland	917,706	938,275	1,062,663	1,125,640	1,080,487
Turkey	592,920	705,389	726,431	821,961	909,114
India	830,803	805,718	784,701	739,083	730,420
Peru	719,781	678,261	672,520	731,463	725,829
Germany	534,976	549,458	602,501	631,338	609,073
<b>Total</b>	<b>51,014,861</b>	<b>51,308,935</b>	<b>52,521,796</b>	<b>56,647,089</b>	<b>58,836,922</b>

Notes:

1. Does not include potatoes.

2. Includes greenhouse vegetables.

Source: Global Trade Tracker. (May 2021)



#### 4.2.6. Top exporters of fresh vegetables<sup>1,2</sup> worldwide – by volume (metric tons)

	2016	2017	2018	2019	2020
Mexico	5,739,863	6,080,552	6,171,728	12,010,119	8,623,319
China	4,833,899	5,542,841	5,680,896	5,854,067	6,340,278
Spain	5,063,451	4,869,972	5,109,846	5,396,939	5,378,457
Netherlands	4,960,616	5,019,362	5,036,973	5,123,686	5,170,111
India	2,292,268	1,893,146	1,966,366	1,734,717	1,773,465
Egypt	697,440	816,496	811,833	1,104,529	1,632,297
United States	1,693,259	1,600,894	1,627,834	1,614,399	1,547,340
Turkey	917,927	1,084,209	1,035,225	1,141,156	1,186,045
Morocco	888,525	879,827	981,222	934,992	1,068,955
France	1,056,885	1,068,454	998,329	1,024,899	1,005,734
Belgium	848,537	951,584	832,883	977,640	976,414
<b>Canada</b>	<b>804,362</b>	<b>827,988</b>	<b>841,278</b>	<b>882,050</b>	<b>879,578</b>
Italy	932,099	829,464	867,298	844,845	829,023
Poland	716,758	737,278	768,334	703,688	685,611
Uzbekistan	211,711	215,953	448,291	573,260	455,210
<b>Total</b>	<b>39,754,724</b>	<b>42,484,401</b>	<b>41,660,712</b>	<b>47,625,666</b>	<b>44,420,578</b>

Notes:

1. Does not include potatoes.

2. Includes greenhouse vegetables.

Source: Global Trade Tracker. (May 2021)



#### 4.2.7. Top selected fresh vegetable<sup>1,2</sup> exports worldwide – by value (CAN\$ '000)

	2016	2017	2018	2019	2020
Tomatoes	11,016,743	11,197,459	11,566,072	11,641,228	12,566,002
Peppers	6,245,461	6,251,238	6,575,712	7,097,346	7,699,001
Onions and shallots	4,334,325	4,054,601	4,429,574	5,324,127	4,991,809
Garlic	4,817,586	4,080,794	2,728,587	3,694,530	4,212,103
Cucumbers and gherkins	3,117,269	3,067,202	3,388,628	3,386,635	3,682,720
Lettuce <sup>3</sup>	2,829,348	3,055,010	3,266,484	3,457,252	3,480,151
Mushrooms	2,233,671	2,323,685	2,575,797	2,729,095	2,834,157
Cabbages, kohlrabi and kale <sup>4</sup>	1,809,530	1,857,713	1,983,319	2,284,690	2,165,376
Cauliflowers and headed broccoli	1,645,300	1,759,586	1,845,424	2,389,862	2,127,306
Pumpkins, squash and gourds	1,544,053	1,601,191	1,652,050	1,701,708	2,065,208
Carrots and turnips	1,692,956	1,619,013	1,974,544	1,916,604	1,820,754
Asparagus	1,585,358	1,730,612	1,614,365	1,702,237	1,604,456
Beans	939,564	1,037,440	1,093,033	1,093,631	1,295,948
Spinach	389,601	412,343	447,840	527,367	753,651
Aubergines "eggplants"	588,584	639,298	641,459	649,819	706,882
Peas	401,539	485,921	489,045	474,589	484,173
Celery	310,741	361,083	360,828	454,242	437,280
Leeks <sup>5</sup>	386,222	385,990	389,383	422,332	409,527
Chicory and witloof chicory	368,255	384,376	383,061	401,538	371,789
Brussels sprouts	222,625	230,811	223,649	253,742	290,222
Leguminous vegetables, nes	173,875	164,209	159,392	206,792	200,710
Olives	81,815	95,280	105,884	95,769	93,570
Globe artichokes	69,616	82,610	65,921	77,009	70,153
Other vegetables, nes	4,210,822	4,431,166	4,561,438	4,664,945	4,473,974
<b>Total</b>	<b>51,014,861</b>	<b>51,308,631</b>	<b>52,521,488</b>	<b>56,647,089</b>	<b>58,836,922</b>

Notes:

1. Only "fresh or chilled" vegetables were considered in calculations for this table.
2. Includes greenhouse vegetables.
3. Includes cabbage lettuce.
4. Includes similar brassicas but excludes cauliflowers, headed broccoli and brussels sprouts.
5. Includes other alliacious vegetables.

Nes: Not elsewhere specified.

Source: Global Trade Tracker. (May 2021)



#### 4.2.8. Top selected fresh vegetable<sup>1,2</sup> exports worldwide – by volume (metric tons)

	2016	2017	2018	2019	2020
Onions and shallots	7,843,316	7,817,420	7,956,262	8,605,176	8,754,188
Tomatoes	7,974,850	7,560,524	7,765,480	7,531,112	7,208,961
Peppers	3,185,744	3,313,109	3,429,313	3,496,830	3,688,561
Lettuce <sup>3</sup>	2,030,362	2,053,938	2,121,201	7,042,025	3,609,887
Cucumbers and gherkins	2,808,105	2,893,258	2,903,768	2,913,856	2,805,654
Carrots and turnips	2,649,002	2,673,798	2,838,639	2,900,796	2,788,628
Garlic	1,966,530	2,170,337	2,307,679	2,222,317	2,784,616
Cabbages, kohlrabi and kale <sup>4</sup>	2,095,467	2,261,907	2,324,831	2,856,605	2,363,259
Pumpkins, squash and gourds	1,442,758	1,446,413	1,579,034	1,628,872	1,741,883
Cauliflowers and headed broccoli	1,272,650	1,351,558	1,364,990	1,533,854	1,622,576
Beans	582,029	553,965	577,527	541,205	950,787
Mushrooms	664,791	673,611	705,393	731,248	745,481
Aubergines "eggplants"	496,400	564,134	589,584	541,650	490,437
Asparagus	361,284	380,764	415,693	420,173	396,375
Celery	329,847	349,340	341,587	352,097	357,906
Leeks <sup>5</sup>	282,455	317,313	288,381	295,679	295,530
Peas	239,764	479,539	448,965	318,761	278,118
Spinach	145,201	158,348	164,277	205,725	272,785
Chicory and witloof chicory	228,095	216,546	204,000	217,844	192,942
Brussels sprouts	163,016	155,404	153,622	155,298	177,220
Leguminous vegetables, nes	178,346	177,473	163,409	134,584	123,607
Olives	59,819	69,133	78,583	78,386	63,277
Globe artichokes	33,648	42,136	35,049	40,961	33,778
Other vegetables, nes	2,721,245	4,804,303	2,903,316	2,860,612	2,674,123
<b>Total</b>	<b>39,754,724</b>	<b>42,484,272</b>	<b>41,660,584</b>	<b>47,625,666</b>	<b>44,420,578</b>

Notes:

1. Only "fresh or chilled" vegetables were considered in calculations for this table.
2. Includes greenhouse vegetables.
3. Includes cabbage lettuce.
4. Includes similar brassicas but excludes cauliflowers, headed broccoli and brussels sprouts.
5. Includes other alliacious vegetables.

Nes: Not elsewhere specified.

Source: Global Trade Tracker. (May 2021)



## 5. Key resources

FAOSTAT

Global Trade Tracker

Statistics Canada. Table 32-10-0403-01 Farms classified by farm type

Statistics Canada. Table 32-10-0365-01 Area, production and farm gate value of vegetables

Statistics Canada. Table 32-10-0356-01 Area, production and sales of mushrooms

Statistics Canada. Table 32-10-0054-01 Food available in Canada

Statistics Canada. CATSNET