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0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded

^{p} preliminary

^{r} revised

x suppressed to meet the confidentiality requirements of the *Statistics Act*

^{E} use with caution

F too unreliable to be published

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November estimate of production of principal field crops, Canada, 2007

Production of major field crops shows mixed results, with an increase in feed grains (oats, barley and dry peas) and a decline in the production of oilseeds (canola and flaxseed). A record grain corn harvest was reported in Ontario and Quebec.

Analysis section

November estimate of production of principal field crops, Canada, 2007

Production of major field crops shows mixed results, with an increase in feed grains (oats, barley and dry peas) and a decline in the production of oilseeds (canola and flaxseed). A record grain corn harvest was reported in Ontario and Quebec.

Data came from the annual November survey of 31,500 Canadian farmers conducted from October 26 to November 19. These estimates are final for this crop year.

The 2007 planting season started off with adequate to good soil moisture conditions in much of the Prairie provinces. Northern regions of all three provinces reported excess moisture conditions.

Planting conditions varied this spring, with mainly abundant to excessive levels of moisture reported. As a result, field crops in some areas were seeded near the end of the spring planting season. By mid-summer, hot, dry conditions reduced expectations for this crop year, especially in southern Saskatchewan and Alberta.

As the harvest got under way this fall, many central and northern regions experienced cool and wet conditions, slowing harvest operations and reducing crop quality. Quality is generally considered lower than 2006, but remains above average.

In Eastern Canada, early favourable conditions deteriorated as hot weather and uneven distribution of precipitation lowered expectations. However, a large harvested area and strong yield in both Quebec and Ontario resulted in record production of corn for grain.

Wheat excluding durum harvest down; big jump in durum production

Prairie wheat production excluding durum retreated from 2006 estimate. Prairie farmers reported an estimated 14.7 million tonnes, down 23.0% a result of declines in yield and harvested area. The five-year production average is 16.3 million tonnes.

The harvested area fell 16.8% to 15.6 million acres, and the yield was off by 2.8 bushels per acre to 34.6 bushels per acre. The five-year average yield is 35.1 bushels per acre.

Production is expected to fall in all three Prairie provinces, and remain below their five-year averages. Production declined 28.2% in Saskatchewan, 21.0% in Alberta and 15.4% in Manitoba.

On the other hand, durum wheat production rose 10.0% in the Prairie Provinces to an estimated 3.7 million tonnes. This increase was the result of a strong gain in the harvested area to 4.8 million acres.

Despite the increased harvested area, strong decreases in yield caused production to remain well below the five-year average of 4.4 million tonnes.

Provincially, durum production rose 12.0% in Saskatchewan to an estimated 3.0 million tonnes, and in Alberta by just 2.0% to 670,000 tonnes. The quality of the durum crop is considered as better than normal.

Oilseeds: canola, flaxseed production both off

Production of both canola and flaxseed on the Prairies fell from 2006, but for different reasons.

Prairie farmers report canola production declined 3.2% to 8.7 million tonnes, the result of a drop in yield to a below average 26.4 bushels per acre. The dip in production occurred despite a record harvest area of 14.5 million acres. The previous record was 14.2 million acres reported in 1994. Except for 2006, planted canola on the Prairies has been on the rise since 2001, when the area planted was just 9.4 million acres.

In Manitoba, production fell 6.0% to 1.7 million tonnes. This decline occurred despite a record 2.9 million acres planted.

In Saskatchewan, canola production rose 6.8% to 3.9 million tonnes, the result of a jump in harvested area to a record 7.2 million acres. The previous record harvested acreage of 6.6 million acres was set in 1999.

And in Alberta, farmers reported a decline in canola production of 12.6% to 3.0 million tonnes, the result of a 12.2% drop in yield to 29.6 bushels per acre. In all three Prairie provinces, production is above the five-year average.

Prairie flaxseed production tumbled 36.0% to 633,500 tonnes, the result of a comparable drop in harvested area. This is the lowest production estimate reported since 2004, and is well below the five-year average of 786,020 tonnes.

Production was off in all Prairie provinces and remained below the corresponding five-year averages. Declines ranged from 32.6% in Saskatchewan to a drop of 55.0% in Alberta.

Barley production jumps to above-average levels

Prairie barley production jumped to above-average levels. Farmers in all three Prairie provinces reported gains in production, with increases in harvest area more than offsetting declines in yield.

Barley production is estimated at 10.3 million tonnes, up 1.4 million tonnes from 2006, well above the five-year average of 9.7 million tonnes. Yields fell 8.4% to a below average 50.6 bushels per acre, and declined in all Prairie provinces.

Big increase in oat production

Oat production on the Prairies rose 24.4% to 4.2 million tonnes, an increase of 832,100 tonnes from 2006. The increase is the result of an above average yield and a 21.2% jump in harvested area. The five-year production average is 2.9 million tonnes.

Gains in oat production were reported in Manitoba (+24.6%) and in Saskatchewan (+39.0%), while an 11.2% decline was reported in Alberta.

Overall gains in dry field pea production

Dry field pea production on the Prairies rose 16.6% to 2.9 million tonnes, an increase of 417,200 tonnes from 2006. A comparable increase in harvested area to a record 3.6 million acres was responsible for the gain. The previous record was 3.2 million acres set in 2001.

Field pea production has risen considerably over the last decade. In 1997, production was pegged at just 1.8 million tonnes.

Provincially, the results were mixed. Saskatchewan farmers reported a 24.0% increase in production to 2.3 million tonnes, the result of a record harvest area of 2.9 million acres. The previous record area was 2.5 million acres set in 2005.

A decline in production was reported by farmers in Manitoba, where a decrease in yield led to a 5.6% drop in production to 97,700 tonnes. The five-year average production estimate is 126,940 tonnes.

Ontario, Quebec: Record grain corn harvest, fewer soybeans

Farmers in Ontario and Quebec produced a record harvest of corn for grain, despite the varied and unreliable growing conditions many faced. Farmers reported harvesting record or near-record areas of corn for grain, mainly at the expense of soybean acreage.

In Quebec, farmers reported producing a record 4.1 million tonnes of corn for grain, an increase of 51.8% or 1.4 million tonnes over 2006. The previous production record was 3.5 million tonnes made in 2003. Two factors contributed to the record production. First, yields hit a record 145.5 bushels per acre topping the previous record of 132.4 set in 2004. Secondly, farmers reported a record-matching harvested area of 1.1 million acres.

In Ontario, corn-for-grain production of 7.0 million tonnes exceeded the record 6.0 million tonnes set in 1998. This represents an increase of 19.0% from 2006. While yields of 133.8 bushels per acre were well below the 2006 level of 150.5 bushels per acre, it was the near-record area of 2.1 million acres that supported the new production mark.

Soybean production fell in both Quebec and Ontario.

The largest decline was reported by farmers in Ontario, where challenging weather conditions reduced yield by 13.0 bushels per acre from 2006. This trimmed production to 2.0 million tonnes from 2.7 million tonnes in 2006. The five-year average production estimate is 2.3 million tonnes.

In Quebec, farmers reported an 11.8% decline in production to 472,000 tonnes. This was the result of a 9.0% decline in harvested area and a drop in yield of 1.2 bushels an acre. The five-year average for Quebec soybean production is 453,000 tonnes.

Concepts and definitions

Definitions of the crop categories referenced in Report No. 8, Field Crop Reporting Series are listed below.

Major field crops: wheat, oats, barley, rye, flaxseed, canola, corn for grain and soybeans.

Coarse grains: oats, barley, rye, corn for grain and mixed grains.

Oilseeds: canola, flaxseed and soybeans.

Major special crops: dry field peas, lentils, mustard seed, canary seed and sunflower seed.

Fodder corn and hay

We are now asking respondents to report the percentage moisture of their harvested fodder corn and hay for silage. Estimates of production for fodder corn in this publication are calculated using a standard percentage moisture content of 70%. Production of total hay is reported at a standard dry matter content of 90%.

Table 1 Estimate of the production of principal field crops – Metric, Canada, November 2007

Province and crop	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
Canada				
Winter wheat [1]	642.1	623.9	4 000	2,499.2
Spring wheat	6,157.2	6,086.1	2 300	13,873.4
Durum wheat	1,948.6	1,926.3	1 900	3,681.4
All wheat	**8,747.9**	**8,636.3**	**2 300**	**20,054.0**
Oats	2,188.4	1,815.7	2 600	4,696.3
Barley	4,396.8	3,997.7	2 700	10,983.9
Fall rye [1]	123.4	109.3	2 100	233.0
Mixed grains	170.7	96.1	2 700	262.6
Flaxseed [2]	528.0	524.0	1 200	633.5
Canola	5,959.5	5,910.8	1 500	8,750.7
Corn for grain	1,391.5	1,368.7	8 500	11,648.7
Dry peas	1,469.0	1,442.7	2 000	2,934.8
Soybeans	1,180.1	1,171.5	2 300	2,695.7
Dry white beans	60.7	60.7	1 700	105.2
Dry coloured beans	92.5	91.8	1 900	171.6
Lentils	540.2	534.2	1 260	673.9
Mustard seed	176.0	176.0	650	114.3
Sunflower seed	80.9	78.9	1 580	124.8
Canary seed	178.1	174.0	930	162.0
Chick peas	174.0	174.0	1 290	224.8
Fodder corn [3]	246.4	229.7	35 420	8,136.6
Tame hay [3]	8,239.2	7,468.3	4 050	30,244.6
Summerfallow	3,120.0	…	…	…
Newfoundland and Labrador				
Tame hay [3]	6.3	6.1	4 460	27.2
Prince Edward Island				
Winter wheat [1]	3.0	3.0	3 300	9.8
Spring wheat	7.7	7.5	3 100	23.2
All wheat	**10.7**	**10.5**	**3 100**	**33.0**
Oats	4.9	4.7	2 600	12.1
Barley	34.4	32.8	2 900	93.5
Mixed grains	4.0	3.8	2 300	8.8
Soybeans	4.5	4.5	2 500	11.1
Fodder corn [3]	2.4	2.4	29 500	70.8
Tame hay [3]	63.1	61.1	4 930	301.2
Nova Scotia				
Winter wheat [1]	0.8	0.8	4 300	3.4
Spring wheat	0.8	0.7	2 300	1.6
All wheat	**1.6**	**1.5**	**3 300**	**5.0**
Oats	2.2	2.0	2 300	4.5
Barley	2.8	2.6	2 700	6.9
Corn for grain	4.0	3.8	7 300	27.8
Fodder corn [3]	4.0	4.0	18 150	72.6
Tame hay [3]	74.9	72.8	5 160	375.6

See footnotes at end of table 2.

Table 1 Estimate of the production of principal field crops – Metric, Canada, November 2007 (continued)

Province and crop	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
New Brunswick				
Winter wheat [1]	0.2	0.2	4 000	0.8
Spring wheat	1.6	1.6	2 900	4.6
All wheat	**1.8**	**1.8**	**3 000**	**5.4**
Oats	8.5	8.5	2 800	24.0
Barley	13.4	13.2	3 400	45.3
Corn for grain	2.8	2.6	7 400	19.2
Fodder corn [3]	2.8	2.8	20 750	58.1
Tame hay [3]	83.0	80.9	4 710	381.0
Quebec				
Winter wheat [1]	2.7	2.7	3 200	8.7
Spring wheat	53.8	53.5	3 100	165.0
All wheat	**56.5**	**56.2**	**3 100**	**173.7**
Oats	115.0	109.0	2 600	280.0
Barley	95.0	94.5	3 300	308.0
Mixed grains	25.0	23.5	3 000	70.0
Canola	8.5	8.5	2 200	18.5
Corn for grain	450.0	449.0	9 100	4,100.0
Corn for grain GM	234.0	234.0	9 150	2,140.0
Soybeans	176.0	175.5	2 700	472.0
Soybeans GM	84.5	84.0	2 690	226.0
Total dry beans	6.5	6.2	2 000	12.5
Fodder corn [3]	47.0	46.5	40 420	1,879.7
Tame hay [3]	857.0	833.0	4 850	4,039.7
Ontario				
Winter wheat [1]	240.8	240.8	5 000	1,192.0
Spring wheat	72.8	72.8	3 400	250.4
All wheat	**313.6**	**313.6**	**4 600**	**1,442.4**
Oats	40.5	36.4	2 400	87.9
Barley	68.8	66.8	3 300	217.7
Fall rye [1]	20.2	20.2	2 100	43.2
Mixed grains	56.7	50.6	2 900	147.0
Canola	14.2	14.2	2 000	27.8
Corn for grain	849.8	831.6	8 400	6,985.3
Corn for grain GM	402.7	398.6	8 540	3,403.8
Soybeans	906.5	900.4	2 200	2,000.3
Soybeans GM	445.2	439.1	2 220	974.3
Dry white beans	34.4	34.4	1 800	62.1
Dry coloured beans	30.3	29.9	1 500	45.5
Fodder corn [3]	121.4	121.4	32 880	3,991.6
Tame hay [3]	1,042.1	1,015.8	5 140	5,216.3

See footnotes at end of table 2.

Table 1 Estimate of the production of principal field crops – Metric, Canada, November 2007 (continued)

Province and crop	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
Manitoba				
Winter wheat [1]	178.1	178.1	4 200	741.6
Spring wheat	1,005.6	995.4	2 500	2,469.8
All wheat	**1,183.7**	**1,173.5**	**2 700**	**3,211.4**
Oats	424.9	398.6	3 000	1,204.5
Barley	412.8	380.4	3 100	1,195.3
Fall rye [1]	22.3	22.3	2 400	53.9
Mixed grains	8.1	4.0	1 100	4.3
Flaxseed [2]	80.9	78.9	1 300	105.4
Canola	1,153.4	1,141.2	1 500	1,714.6
Corn for grain	80.9	78.9	6 300	493.5
Dry peas	38.5	38.5	2 500	97.7
Soybeans	93.1	91.1	2 300	212.3
Buckwheat	2.0	2.0	1 200	2.3
Dry white beans	26.3	26.3	1 600	43.1
Dry coloured beans	34.3	34.3	1 700	59.0
Fababeans	6.1	5.7	1 900	10.9
Sunflower seed	76.9	74.9	1 600	119.8
Canary seed	6.1	6.1	1 030	6.3
Borage seed	2.0	1.6	130	0.2
Fodder corn [3]	30.4	24.3	33 600	816.5
Tame hay [3]	1,001.6	959.1	3 690	3,538.0
Summerfallow	107.0	…	…	…
Saskatchewan				
Winter wheat [1]	151.8	141.6	2 600	367.4
Spring wheat	3,029.1	3,002.0	1 900	5,679.6
Durum wheat	1,639.0	1,618.7	1 900	3,011.4
All wheat	**4,819.9**	**4,762.3**	**1 900**	**9,058.4**
Oats	1,133.1	985.4	2 400	2,401.2
Barley	1,780.6	1,659.2	2 400	3,945.2
Fall rye [1]	52.6	50.6	2 000	99.1
Mixed grains	16.2	6.1	1 400	8.4
Flaxseed [2]	435.0	433.0	1 200	511.8
Canola	2,934.0	2,913.7	1 400	3,948.5
Dry peas	1,183.7	1,163.5	2 000	2,309.6
Triticale	32.4	12.9	2 300	29.2
Lentils	540.2	534.2	1 260	673.9
Mustard seed	141.6	141.6	620	87.3
Canary seed	172.0	167.9	930	155.7
Sunflower seed	4.0	4.0	1 250	5.0
Chick peas	153.8	153.8	1 290	198.1
Tame hay [3]	2,165.1	1,784.7	3 090	5,511.1
Summerfallow	2,145.0	…	…	…

See footnotes at end of table 2.

Table 1 Estimate of the production of principal field crops – Metric, Canada, November 2007 (concluded)

Province and crop	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
Alberta				
Winter wheat [1]	64.7	56.7	3 100	175.5
Spring wheat	1,969.6	1,936.4	2 700	5,230.6
Durum wheat	309.6	307.6	2 200	670.0
All wheat	**2,343.9**	**2,300.7**	**2 600**	**6,076.1**
Oats	424.9	250.9	2 500	627.4
Barley	1,962.7	1,728.0	3 000	5,114.3
Fall rye [1]	28.3	16.2	2 300	36.8
Mixed grains	56.7	8.1	3 000	24.1
Flaxseed [2]	12.1	12.1	1 300	16.3
Canola	1,821.1	1,804.9	1 700	2,993.7
Corn for grain	4.0	2.8	8 200	22.9
Dry peas	246.8	240.7	2 200	527.5
Triticale	16.2	7.3	2 400	17.8
Dry coloured beans	21.4	21.4	2 500	54.4
Mustard seed	34.4	34.4	780	27.0
Chick peas	20.2	20.2	1 320	26.7
Sugar beets	13.8	13.8	55 220	762.0
Fodder corn [3]	28.3	20.2	41 540	839.1
Tame hay [3]	2,525.2	2,260.2	4 100	9,276.0
Summerfallow	850.0	…	…	…
British Columbia				
Spring wheat	16.2	16.2	3 000	48.6
Oats	34.4	20.2	2 700	54.7
Barley	26.3	20.2	2 900	57.7
Canola	28.3	28.3	1 700	47.6
Fodder corn [3]	10.1	8.1	50 400	408.2
Tame hay [3]	420.9	394.6	4 000	1,578.5
Summerfallow	18.0	…	…	…
Western Canada				
Winter wheat [1]	394.6	376.4	3 400	1,284.5
Spring wheat	6,020.5	5,950.0	2 300	13,428.6
Durum wheat	1,948.6	1,926.3	1 900	3,681.4
All wheat	**8,363.7**	**8,252.7**	**2 200**	**18,394.5**
Oats	2,017.3	1,655.1	2 600	4,287.8
Barley	4,182.4	3,787.8	2 700	10,312.5
Fall rye [1]	103.2	89.1	2 100	189.8
Flaxseed [2]	528.0	524.0	1 200	633.5
Canola	5,936.8	5,888.1	1 500	8,704.4
Dry peas	1,469.0	1,442.7	2 000	2,934.8
Summerfallow	3,120.0	…	…	…

See footnotes at end of table 2.

Table 2 Estimate of the production of principal field crops – Imperial, Canada, November 2007

Province and crop	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 acres		bushels per acre	'000 bushels
Canada				
Winter wheat [1]	1,586.7	1,541.7	59.6	91,832
Spring wheat	15,214.9	15,039.5	33.9	509,755
Durum wheat	4,815.0	4,760.0	28.4	135,270
All wheat	**21,616.6**	**21,341.2**	**34.5**	**736,856**
Oats	5,407.7	4,486.8	67.9	304,512
Barley	10,864.8	9,878.5	51.1	504,488
Fall rye [1]	305.0	270.0	34.0	9,170
Mixed grains	421.8	237.6	58.1	13,814
Flaxseed [2]	1,305.0	1,295.0	19.3	24,940
Canola	14,726.0	14,606.0	26.4	385,841
Corn for grain	3,439.0	3,382.5	135.6	458,587
Dry peas	3,630.0	3,565.0	30.2	107,830
Soybeans	2,915.9	2,894.7	34.2	99,050
	'000 acres		hundred weight per acre	'000 hundred weight
Dry white beans	150.0	150.0	15.5	2,320
Dry coloured beans	229.1	227.3	16.6	3,781
	'000 acres		pounds per acre	'000 pounds
Lentils	1,335.0	1,320.0	1 125	1,485,650
Mustard seed	435.0	435.0	580	252,150
Sunflower seed	200.0	195.0	1 411	275,100
Canary seed	440.0	430.0	830	357,100
Chick peas	430.0	430.0	1 152	495,450
	'000 acres		tons per acre	'000 tons
Fodder corn [3]	609.1	567.9	15.8	8,969
Tame hay [3]	20,359.2	18,454.4	1.8	33,339
Summerfallow	7,710.0	…	…	…
Newfoundland and Labrador				
Tame hay [3]	15.5	15.0	2.0	30
Prince Edward Island				
	'000 acres		bushels per acre	'000 bushels
Winter wheat [1]	7.5	7.5	48.0	360
Spring wheat	19.0	18.5	46.0	851
All wheat	**26.5**	**26.0**	**46.6**	**1,211**
Oats	12.0	11.5	68.0	782
Barley	85.0	81.0	53.0	4,293
Mixed grains	10.0	9.5	51.0	485
Soybeans	11.0	11.0	37.0	407
	'000 acres		tons per acre	'000 tons
Fodder corn [3]	6.0	6.0	13.0	78
Tame hay [3]	156.0	151.0	2.2	332
Nova Scotia				
	'000 acres		bushels per acre	'000 bushels
Winter wheat [1]	2.0	2.0	62.0	124
Spring wheat	2.0	1.8	32.0	58
All wheat	**4.0**	**3.8**	**47.8**	**182**
Oats	5.5	5.0	58.0	290
Barley	7.0	6.5	49.0	319
Corn for grain	10.0	9.5	115.0	1,093

See footnotes at end of table 2.

Table 2 Estimate of the production of principal field crops – Imperial, Canada, November 2007 (continued)

Province and crop	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 acres		tons per acre	'000 tons
Nova Scotia				
Fodder corn [3]	10.0	10.0	8.0	80
Tame hay [3]	185.0	180.0	2.3	414
New Brunswick				
	'000 acres		bushels per acre	'000 bushels
Winter wheat [1]	0.5	0.5	56.0	28
Spring wheat	4.0	4.0	42.0	168
All wheat	**4.5**	**4.5**	**43.6**	**196**
Oats	21.0	21.0	74.0	1,554
Barley	33.0	32.5	64.0	2,080
Corn for grain	7.0	6.5	116.0	754
	'000 acres		tons per acre	'000 tons
Fodder corn [3]	7.0	7.0	9.2	64
Tame hay [3]	205.0	200.0	2.1	420
Quebec				
	'000 acres		bushels per acre	'000 bushels
Winter wheat [1]	6.7	6.7	47.9	320
Spring wheat	132.9	132.2	45.9	6,063
All wheat	**139.6**	**138.9**	**46.0**	**6,382**
Oats	284.2	269.3	67.4	18,156
Barley	234.8	233.5	60.6	14,146
Mixed grains	61.8	58.1	59.1	3,429
Canola	21.0	21.0	38.8	816
Corn for grain	1,112.0	1,109.5	145.5	161,410
Corn for grain GM	578.2	578.2	145.7	84,248
Soybeans	434.9	433.7	40.0	17,343
Soybeans GM	208.8	207.6	40.0	8,304
	'000 acres		hundred weight per acre	'000 hundred weight
Total dry beans	16.1	15.3	18.0	276
	'000 acres		tons per acre	'000 tons
Fodder corn [3]	116.1	114.9	18.0	2,072
Tame hay [3]	2,117.7	2,058.4	2.2	4,453
Ontario				
	'000 acres		bushels per acre	'000 bushels
Winter wheat [1]	595.0	595.0	73.6	43,800
Spring wheat	180.0	180.0	51.1	9,200
All wheat	**775.0**	**775.0**	**68.4**	**53,000**
Oats	100.0	90.0	63.3	5,700
Barley	170.0	165.0	60.6	10,000
Fall rye [1]	50.0	50.0	34.0	1,700
Mixed grains	140.0	125.0	64.8	8,100
Canola	35.0	35.0	35.0	1,225
Corn for grain	2,100.0	2,055.0	133.8	275,000
Corn for grain GM	995.0	985.0	136.0	134,000
Soybeans	2,240.0	2,225.0	33.0	73,500
Soybeans GM	1,100.0	1,085.0	33.0	35,800
	'000 acres		hundred weight per acre	'000 hundred weight
Dry white beans	85.0	85.0	16.1	1,370
Dry coloured beans	75.0	74.0	13.6	1,005
	'000 acres		tons per acre	'000 tons
Fodder corn [3]	300.0	300.0	14.7	4,400
Tame hay [3]	2,575.0	2,510.0	2.3	5,750

See footnotes at end of table 2.

Table 2 Estimate of the production of principal field crops – Imperial, Canada, November 2007 (continued)

Province and crop	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 acres		bushels per acre	'000 bushels
Manitoba				
Winter wheat [1]	440.0	440.0	61.9	27,250
Spring wheat	2,485.0	2,460.0	36.9	90,750
All wheat	**2,925.0**	**2,900.0**	**40.7**	**118,000**
Oats	1,050.0	985.0	79.3	78,100
Barley	1,020.0	940.0	58.4	54,900
Fall rye [1]	55.0	55.0	38.5	2,120
Mixed grains	20.0	10.0	21.0	210
Flaxseed [2]	200.0	195.0	21.3	4,150
Canola	2,850.0	2,820.0	26.8	75,600
Corn for grain	200.0	195.0	99.6	19,430
Dry peas	95.0	95.0	37.8	3,590
Soybeans	230.0	225.0	34.7	7,800
Buckwheat	5.0	5.0	21.0	105
	'000 acres		hundred weight per acre	'000 hundred weight
Dry white beans	65.0	65.0	14.6	950
Dry coloured beans	85.0	85.0	15.3	1,300
Fababeans	15.0	14.0	17.1	240
	'000 acres		pounds per acre	'000 pounds
Sunflower seed	190.0	185.0	1 428	264,100
Canary seed	15.0	15.0	927	13,900
Borage seed	5.0	4.0	125	500
	'000 acres		tons per acre	'000 tons
Fodder corn [3]	75.0	60.0	15.0	900
Tame hay [3]	2,475.0	2,370.0	1.6	3,900
Summerfallow	265.0	…	…	…
Saskatchewan				
	'000 acres		bushels per acre	'000 bushels
Winter wheat [1]	375.0	350.0	38.6	13,500
Spring wheat	7,485.0	7,418.0	28.1	208,690
Durum wheat	4,050.0	4,000.0	27.7	110,650
All wheat	**11,910.0**	**11,768.0**	**28.3**	**332,840**
Oats	2,800.0	2,435.0	63.9	155,700
Barley	4,400.0	4,100.0	44.2	181,200
Fall rye [1]	130.0	125.0	31.2	3,900
Mixed grains	40.0	15.0	27.3	410
Flaxseed [2]	1,075.0	1,070.0	18.8	20,150
Canola	7,250.0	7,200.0	24.2	174,100
Dry peas	2,925.0	2,875.0	29.5	84,860
Triticale	80.0	32.0	35.9	1,150
	'000 acres		pounds per acre	'000 pounds
Lentils	1,335.0	1,320.0	1 126	1,485,650
Mustard seed	350.0	350.0	550	192,500
Canary seed	425.0	415.0	827	343,200
Sunflower seed	10.0	10.0	1 100	11,000
Chick peas	380.0	380.0	1 149	436,650
	'000 acres		tons per acre	'000 tons
Tame hay [3]	5,350.0	4,410.0	1.4	6,075
Summerfallow	5,300.0	…	…	…

See footnotes at end of table 2.

Table 2 Estimate of the production of principal field crops – Imperial, Canada, November 2007 (concluded)

Province and crop	Area seeded	harvested	Yield on harvested area	Production
	'000 acres		bushels per acre	'000 bushels
Alberta				
Winter wheat [1]	160.0	140.0	46.1	6,450
Spring wheat	4,867.0	4,785.0	40.2	192,190
Durum wheat	765.0	760.0	32.4	24,620
All wheat - Tout blé	**5,792.0**	**5,685.0**	**39.3**	**223,260**
Oats	1,050.0	620.0	65.6	40,680
Barley	4,850.0	4,270.0	55.0	234,900
Fall rye [1]	70.0	40.0	36.3	1,450
Mixed grains	140.0	20.0	59.0	1,180
Flaxseed [2]	30.0	30.0	21.3	640
Canola	4,500.0	4,460.0	29.6	132,000
Corn for grain	10.0	7.0	128.6	900
Dry peas	610.0	595.0	32.6	19,380
Triticale	40.0	18.0	38.9	700
	'000 acres		hundred weight per acre	'000 hundred weight
Dry coloured beans	53.0	53.0	22.6	1,200.0
	'000 acres		pounds per acre	'000 pounds
Mustard seed	85.0	85.0	702	59,650
Chick peas	50.0	50.0	1 176	58,800
	'000 acres		tons per acre	'000 tons
Sugar beets	34.0	34.0	24.7	840
Fodder corn [3]	70.0	50.0	18.5	925
Tame hay [3]	6,240.0	5,585.0	1.8	10,225
Summerfallow	2,100.0	…	…	…
British Columbia				
	'000 acres		bushels per acre	'000 bushels
Spring wheat	40.0	40.0	44.6	1,785
Oats	85.0	50.0	71.0	3,550
Barley	65.0	50.0	53.0	2,650
Canola	70.0	70.0	30.0	2,100
	'000 acres		tons per acre	'000 tons
Fodder corn [3]	25.0	20.0	22.5	450
Tame hay [3]	1,040.0	975.0	1.8	1,740
Summerfallow	45.0	…	…	…
Western Canada				
	'000 acres		bushels per acre	'000 bushels
Winter wheat [1]	975.0	930.0	50.8	47,200
Spring wheat	14,877.0	14,703.0	33.6	493,415
Durum wheat	4,815.0	4,760.0	28.4	135,270
All wheat	**20,667.0**	**20,393.0**	**33.1**	**675,885**
Oats	4,985.0	4,090.0	68.0	278,030
Barley	10,335.0	9,360.0	50.6	473,650
Fall rye [1]	255.0	220.0	34.0	7,470
Flaxseed [2]	1,305.0	1,295.0	19.3	24,940
Canola	14,670.0	14,550.0	26.4	383,800
Dry peas	3,630.0	3,565.0	30.2	107,830
Summerfallow	7,710.0	…	…	…

1. The seeded area remaining in June after winterkill.
2. Excludes solin.
3. See concepts and definitions page 6.

Table 3 Estimate of spring wheat by type – Metric, Western Canada, Spring 2007

Province and crop	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
Manitoba				
Hard red spring wheat	930.8	924.7	2 500	2,280.7
Prairie spring wheat	38.4	36.4	2 600	94.7
Soft white spring wheat	2.0	2.0	2 900	5.7
Canadian western extra-strong spring wheat	4.0	4.0	2 900	11.7
Other spring wheat	30.4	28.3	2 700	77.0
Total spring wheat	**1,005.6**	**995.4**	**2 500**	**2,469.8**
Saskatchewan				
Hard red spring wheat	2,711.4	2,691.2	1 900	5,021.3
Prairie spring wheat	216.5	210.4	2 200	454.0
Soft white spring wheat	16.2	15.4	2 400	37.0
Canadian western extra-strong spring wheat	28.3	28.3	1 800	51.4
Other spring wheat	56.7	56.7	2 000	115.9
Total spring wheat	**3,029.1**	**3,002.0**	**1 900**	**5,679.6**
Alberta				
Hard red spring wheat	1,709.8	1,683.5	2 600	4,319.1
Prairie spring wheat	161.9	157.8	3 600	562.3
Soft white spring wheat	14.2	14.2	6 000	85.7
Canadian western extra-strong spring wheat	36.4	36.4	3 500	127.4
Other spring wheat	47.3	44.5	3 100	136.1
Total spring wheat	**1,969.6**	**1,936.4**	**2 700**	**5,230.6**
British Columbia				
Hard red spring wheat	14.2	14.2	2 700	38.0
Prairie spring wheat	2.0	2.0	5 300	10.6
Soft white spring wheat	..	..	..	..
Canadian western extra-strong spring wheat	..	..	..	..
Other spring wheat	..	..	..	..
Total spring wheat	**16.2**	**16.2**	**3 000**	**48.6**
Western Canada				
Hard red spring wheat	5,366.2	5,313.6	2 200	11,659.1
Prairie spring wheat	418.8	406.6	2 800	1,121.6
Soft white spring wheat	32.4	31.6	4 100	128.4
Canadian western extra-strong spring wheat	68.7	68.7	2 800	190.5
Other spring wheat	134.4	129.5	2 500	329.0
Total spring wheat	**6,020.5**	**5,950.0**	**2 300**	**13,428.6**

Table 4 Estimate of spring wheat by type – Imperial, Western Canada, Spring 2007

Province and crop	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 acres		bushels per acre	'000 bushels
Manitoba				
Hard red spring wheat	2,300.0	2,285.0	36.7	83,800
Prairie spring wheat	95.0	90.0	38.7	3,480
Soft white spring wheat	5.0	5.0	42.0	210
Canadian western extra-strong spring wheat	10.0	10.0	43.0	430
Other spring wheat	75.0	70.0	40.4	2,830
Total spring wheat	**2,485.0**	**2,460.0**	**36.9**	**90,750**
Saskatchewan				
Hard red spring wheat	6,700.0	6,650.0	27.7	184,500
Prairie spring wheat	535.0	520.0	32.1	16,680
Soft white spring wheat	40.0	38.0	35.8	1,360
Canadian western extra-strong spring wheat	70.0	70.0	27.0	1,890
Other spring wheat	140.0	140.0	30.4	4,260
Total spring wheat	**7,485.0**	**7,418.0**	**28.1**	**208,690**
Alberta				
Hard red spring wheat	4,225.0	4,160.0	38.1	158,700
Prairie spring wheat	400.0	390.0	53.0	20,660
Soft white spring wheat	35.0	35.0	90.0	3,150
Canadian western extra-strong spring wheat	90.0	90.0	52.0	4,680
Other spring wheat	117.0	110.0	45.5	5,000
Total spring wheat	**4,867.0**	**4,785.0**	**40.2**	**192,190**
British Columbia				
Hard red spring wheat	35.0	35.0	39.9	1,395
Prairie spring wheat	5.0	5.0	78.0	390
Soft white spring wheat	..	..	..	..
Canadian western extra-strong spring wheat	..	..	..	..
Other spring wheat	..	..	..	..
Total spring wheat	**40.0**	**40.0**	**44.6**	**1,785**
Western Canada				
Hard red spring wheat	13,260.0	13,130.0	32.6	428,395
Prairie spring wheat	1,035.0	1,005.0	41.0	41,210
Soft white spring wheat	80.0	78.0	60.5	4,720
Canadian western extra-strong spring wheat	170.0	170.0	41.2	7,000
Other spring wheat	332.0	320.0	37.8	12,090
Total spring wheat	**14,877.0**	**14,703.0**	**33.6**	**493,415**

Table 5 Area of winter wheat and fall rye seeded, Canada, 2005 to 2007

Province and crop	Fall of 2005		Fall of 2006		Fall of 2007	
	'000 hectares	'000 acres	'000 hectares	'000 acres	'000 hectares	'000 acres
Canada						
Winter wheat	731.2	1,806.9	743.7	1,838.2	1,124.3	2,778.4
Fall rye	276.2	682.6	171.9	424.9	172.0	425.0
Maritimes						
Winter wheat	4.8	12.0	6.4	16.0	6.4	16.0
Fall rye	..	..	..	..	..	..
Quebec						
Winter wheat	4.0	9.9	2.9	7.2	5.0	12.4
Fall rye	4.7	11.6	..	..	..	..
Ontario						
Winter wheat	420.9	1,040.0	261.0	645.0	505.9	1,250.0
Fall rye	30.4	75.0	28.3	70.0	34.4	85.0
Manitoba						
Winter wheat	125.5	310.0	190.2	470.0	242.8	600.0
Fall rye	38.4	95.0	32.4	80.0	28.3	70.0
Saskatchewan						
Winter wheat	115.3	285.0	202.3	500.0	242.8	600.0
Fall rye	115.3	285.0	64.7	160.0	68.8	170.0
Alberta						
Winter wheat	60.7	150.0	80.9	200.0	121.4	300.0
Fall rye	85.0	210.0	42.5	105.0	40.5	100.0
British Columbia						
Winter wheat	..	..	..	..	..	..
Fall rye	2.4	6.0	..	..	..	..
Western Canada						
Winter wheat	301.5	745.0	473.4	1,170.0	607.0	1,500.0
Fall rye	241.1	596.0	139.6	345.0	137.6	340.0

Table 6 Estimate of the production of special crops by province and type – Metric, November 2007

Province and crop	Area Seeded [4]	Harvested	Yield on harvested area	Production
	'000 hectares	'000 hectares	kilograms per hectare	'000 tonnes
Quebec				
Dry white beans	F	F	F	F
Dry coloured beans	6.5[D]	6.2	2 020	12.5
Black beans	F	F	F	F
Cranberry beans	4.0[D]	4.0	2 000	8.0
Dark red kidney beans	F	F	F	F
Great Northern beans	0	0	0	0
Light red kidney beans	0	0	0	0
Pinto beans	0	0	0	0
Small red beans	F	F	F	F
Other dry beans	F	F	F	F
All dry beans	**6.5[D]**	**6.2**	**2 020**	**12.5**
Ontario				
Dry white beans	34.4[B]	34.4	1 810	62.1
Dry coloured beans	30.3[C]	29.9	1 520	45.5
Black beans	F	F	F	F
Cranberry beans	6.1[D]	6.1	1 420	8.6
Dark red kidney beans	6.1[D]	5.7	1 220	6.9
Great Northern beans	F	F	F	F
Light red kidney beans	F	F	F	F
Pinto beans	F	F	F	F
Small red beans	F	F	F	F
Other dry beans	10.1[D]	10.1	1 790	18.1
All dry beans	**64.8[D]**	**64.3**	**1 670**	**107.7**
Manitoba				
Dry white beans	26.3[C]	26.3	1 640	43.1
Dry coloured beans	34.3[B]	34.3	1 720	59.0
Black beans	4.0[D]	4.0	1 700	6.9
Cranberry beans	F	F	F	F
Dark red kidney beans	F	F	F	F
Great Northern beans	F	F	F	F
Light red kidney beans	3.2[D]	3.2	1 400	4.5
Pinto beans	22.3[B]	22.3	1 830	40.6
Small red beans	F	F	F	F
Other dry beans	2.4[D]	2.4	1 570	3.8
All dry beans	**60.7[B]**	**60.7**	**1 680**	**102.1**
Green dry peas	x[C]	x	x	x
Yellow dry peas	30.4[B]	30.4	2 570	78.1
Other dry peas	F	F	F	F
All dry peas	**38.5[B]**	**38.5**	**2 540**	**97.7**
Large green lentils	F	F	F	F
Red lentils	F	F	F	F
Small green lentils	F	F	F	F
Other lentils	F	F	F	F
All lentils	**F**	**F**	**F**	**F**

1. For coefficient variant range table, see data quality p.30

Table 6 Estimate of the production of special crops by province and type – Metric, November 2007 (continued)

Province and crop	Area Seeded [4]	Harvested	Yield on harvested area	Production
	'000 hectares	'000 hectares	kilograms per hectare	'000 tonnes
Manitoba				
Brown mustard seed	F	F	F	F
Oriental mustard seed	F	F	F	F
Yellow mustard seed	F	F	F	F
Other mustard seed	F	F	F	F
All mustard seed	**F**	**F**	**F**	**F**
Hairless Canary seed	F	F	F	F
Regular Canary seed	x[D]	x	x	x
All Canary seed	**6.1[D]**	**6.1**	**1 030**	**6.3**
Desi chick peas	0	0	0	0
Kabuli chick peas	F	F	F	F
Other chick peas	F	F	F	F
All chick peas	**F**	**F**	**F**	**F**
Saskatchewan				
Dry white beans	0	0	0	0
Dry coloured beans	F	F	F	F
Black beans	0	0	0	0
Cranberry beans	F	F	F	F
Dark red kidney beans	0	0	0	0
Great Northern beans	F	F	F	F
Light red kidney beans	0	0	0	0
Pinto beans	F	F	F	F
Small red beans	0	0	0	0
Other dry beans	F	F	F	F
All dry beans	**F**	**F**	**F**	**F**
Green dry peas	214.5[A]	210.4	2 060	434.1
Yellow dry peas	944.9[A]	930.8	1 980	1839.8
Other dry peas	24.3[D]	22.3	1 600	35.7
All dry peas	**1183.7[A]**	**1,163.5**	**1 990**	**2309.6**
Large green lentils	226.6[A]	222.6	1 200	266.4
Red lentils	190.2[B]	188.2	1 260	238.0
Small green lentils	103.2[B]	103.2	1 420	146.8
Other lentils	20.2[D]	20.2	1 120	22.7
All lentils	**540.2[A]**	**534.2**	**1 260**	**673.9**
Brown mustard seed	40.5[C]	40.5	740	30.1
Oriental mustard seed	20.2[C]	20.2	630	12.8
Yellow mustard seed	80.9[B]	80.9	550	44.4
Other mustard seed	0	0	0	0
All mustard seed	**141.6[B]**	**141.6**	**620**	**87.3**
Hairless Canary seed	62.7[B]	60.7	870	52.8
Regular Canary seed	109.3[B]	107.2	960	102.9
All Canary seed	**172.0[A]**	**167.9**	**930**	**155.7**

1. For coefficient variant range table, see data quality p.30

Table 6 Estimate of the production of special crops by province and type – Metric, November 2007 (concluded)

Province and crop	Area Seeded [4]	Harvested	Yield on harvested area	Production
	'000 hectares	'000 hectares	kilograms per hectare	'000 tonnes
Saskatchewan				
Desi chick peas	28.3[C]	28.3	1 110	31.3
Kabuli chick peas	93.1[B]	93.1	1 290	120.0
Other chick peas	32.4[D]	32.4	1 440	46.8
All chick peas	**153.8[B]**	**153.8**	**1 290**	**198.1**
Alberta				
Dry white beans	0[s]	0[s]	0[s]	0[s]
Dry coloured beans	21.4[D]	21.4	2 540	54.4
Black beans	F	F	F	F
Cranberry beans	0	0	0	0
Dark red kidney beans	0	0	0	0
Great Northern beans	4.9[D]	4.9	2 410	11.7
Light red kidney beans	F	F	F	F
Pinto beans	8.9[C]	8.9	2 550	22.7
Small red beans	2.4[D]	2.4	2 620	6.4
Other dry beans	F	F	F	F
All dry beans	**21.4[C]**	**21.4**	**2 540**	**54.4**
Green dry peas	36.4[B]	34.4	2 370	81.4
Yellow dry peas	206.4[A]	202.3	2 160	436.8
Other dry peas	4.0[D]	4.0	2 290	9.3
All dry peas	**246.8[A]**	**240.7**	**2 190**	**527.5**
Large green lentils	F	F	F	F
Red lentils	F	F	F	F
Small green lentils	F	F	F	F
Other lentils	0	0	0	0
All lentils	**F**	**F**	**F**	**F**
Brown mustard seed	8.1[D]	8.1	770	6.3
Oriental mustard seed	6.1[D]	6.1	770	4.6
Yellow mustard seed	20.2[B]	20.2	800	16.1
Other mustard seed	0	0	0	0
All mustard seed	**34.4[B]**	**34.4**	**780**	**27.0**
Hairless Canary seed	F	F	F	F
Regular Canary seed	F	F	F	F
All Canary seed	**F**	**F**	**F**	**F**
Desi chick peas	F	F	F	F
Kabuli chick peas	10.1[C]	10.1	1 000	10.1
Other chick peas	x[D]	F	F	F
All chick peas	**20.2[C]**	**20.2**	**1 320**	**26.7**

1. For coefficient variant range table, see data quality p.30

Table 7 Estimate of the production of special crops by province and type – Imperial, November 2007

Province and crop	Area Seeded [4]	Harvested	Yield on harvested area	Production
	'000 acres	'000 acres	hundred weight per acre	'000 hundred weight
Quebec				
Dry white beans	F	F	F	F
Dry coloured beans	16.1[D]	15.3	18.0	276
Black beans	F	F	F	F
Cranberry beans	9.9[D]	9.9	17.8	176
Dark red kidney beans	F	F	F	F
Great Northern beans	0	F	F	F
Light red kidney beans	0	F	F	F
Pinto beans	0	0	0	0
Small red beans	F	F	F	F
Other dry beans	F	F	F	F
All dry beans	**16.1[D]**	**15.3**	**18.0**	**276**
Ontario				
Dry white beans	85.0[B]	85.0	16.1	1,370
Dry coloured beans	75.0[C]	74.0	13.6	1,005
Black beans	F	F	F	F
Cranberry beans	15.0[D]	15.0	12.7	190
Dark red kidney beans	15.0[D]	14.0	10.9	152
Great Northern beans	F	F	F	F
Light red kidney beans	F	F	F	F
Pinto beans	F	F	F	F
Small red beans	F	F	F	F
Other dry beans	25.0[D]	25.0	16.0	400
All dry beans	**160.0[D]**	**159.0**	**14.9**	**2,375**
Manitoba				
Dry white beans	65.0[C]	65.0	14.6	950
Dry coloured beans	85.0[B]	85.0	15.3	1,300
Black beans	10.0[D]	10.0	15.2	152
Cranberry beans	F	F	F	F
Dark red kidney beans	F	F	F	F
Great Northern beans	F	F	F	F
Light red kidney beans	8.0[D]	8.0	12.5	100
Pinto beans	55.0[B]	55.0	16.3	896
Small red beans	F	F	F	F
Other dry beans	6.0[D]	6.0	14.0	84
All dry beans	**150.0[B]**	**150.0**	**15.0**	**2,250**
	'000 acres	**'000 acres**	**bushels per acre**	**'000 bushels**
Green dry peas	x[C]	x	x	x
Yellow dry peas	75.0[B]	75.0	38.3	2,870
Other dry peas	F	F	F	F
All dry peas	**95.0[B]**	**95.0**	**37.8**	**3,590**
	'000 acres	**'000 acres**	**pounds per acre**	**'000 pounds**
Large green lentils	F	F	F	F
Red lentils	F	F	F	F
Small green lentils	F	F	F	F
Other lentils	F	F	F	F
All lentils	**F**	**F**	**F**	**F**

1. For coefficient variant range table, see data quality p.30

Table 7 Estimate of the production of special crops by province and type – Imperial, November 2007 (continued)

Province and crop	Area Seeded [4]	Harvested	Yield on harvested area	Production
	'000 acres	'000 acres	pounds per acre	'000 pounds
Manitoba				
Brown mustard seed	F	F	F	F
Oriental mustard seed	F	F	F	F
Yellow mustard seed	F	F	F	F
Other mustard seed	F	F	F	F
All mustard seed	**F**	**F**	**F**	**F**
Hairless Canary seed	F	F	F	F
Regular Canary seed	x[D]	x	x	x
All Canary seed	**15.0[D]**	**15.0**	**927**	**13,900**
Desi chick peas	0	0	0	0
Kabuli chick peas	F	F	F	F
Other chick peas	F	F	F	F
All chick peas	**F**	**F**	**F**	**F**
Saskatchewan				
	'000 acres	'000 acres	hundred weight per acre	'000 hundred weight
Dry white beans	0	0	0	0
Dry coloured beans	F	F	F	F
Black beans	0	0	0	0
Cranberry beans	F	F	F	F
Dark red kidney beans	0	0	0	0
Great Northern beans	F	F	F	F
Light red kidney beans	0	0	0	0
Pinto beans	F	F	F	F
Small red beans	0	0	0	0
Other dry beans	F	F	F	F
All dry beans	**F**	**F**	**F**	**F**
	'000 acres	'000 acres	bushels per acre	'000 bushels
Green dry peas	530.0[A]	520.0	30.7	15,950
Yellow dry peas	2,335.0[A]	2,300.0	29.4	67,600
Other dry peas	60.0[D]	55.0	23.8	1,310
All dry peas	**2,925.0[A]**	**2,875.0**	**29.5**	**84,860**
	'000 acres	'000 acres	pounds per acre	'000 pounds
Large green lentils	560.0[A]	550.0	1 068	587,300
Red lentils	470.0[B]	465.0	1 128	524,600
Small green lentils	255.0[B]	255.0	1 269	323,600
Other lentils	50.0[D]	50.0	1 003	50,150
All lentils	**1,335.0[A]**	**1,320.0**	**1 125**	**1,485,650**
Brown mustard seed	100.0[C]	100.0	664	66,400
Oriental mustard seed	50.0[C]	50.0	566	28,300
Yellow mustard seed	200.0[B]	200.0	489	97,800
Other mustard seed	0	0	0	0
All mustard seed	**350.0[B]**	**350.0**	**550**	**192,500**
Hairless Canary seed	155.0[B]	150.0	776	116,400
Regular Canary seed	270.0[B]	265.0	856	226,800
All Canary seed	**425.0[A]**	**415.0**	**827**	**343,200**

1. For coefficient variant range table, see data quality p.30

Table 7 Estimate of the production of special crops by province and type – Imperial, November 2007 (concluded)

Province and crop	Area Seeded [4]	Harvested	Yield on harvested area	Production
	'000 acres	'000 acres	pounds per acre	'000 pounds
Saskatchewan				
Desi chick peas	70.0[C]	70.0	986	69,050
Kabuli chick peas	230.0[B]	230.0	1 150	264,500
Other chick peas	80.0[D]	80.0	1 289	103,100
All chick peas	**380.0[B]**	**380.0**	**1 149**	**436,650**
Alberta				
	'000 acres	'000 acres	hundred weight per acre	'000 hundred weight
Dry white beans	0[s]	0[s]	0[s]	0[s]
Dry coloured beans	53.0[D]	53.0	22.6	1,200
Black beans	F	F	F	F
Cranberry beans	0	0	0	0
Dark red kidney beans	0	0	0	0
Great Northern beans	12.0[D]	12.0	21.5	258
Light red kidney beans	F	F	F	F
Pinto beans	22.0[C]	22.0	22.7	500
Small red beans	6.0[D]	6.0	23.3	140
Other dry beans	F	F	F	F
All dry beans	**53.0[C]**	**53.0**	**22.6**	**1,200**
	'000 acres	'000 acres	bushels per acre	'000 bushels
Green dry peas	90.0[B]	85.0	35.2	2,990
Yellow dry peas	510.0[A]	500.0	32.1	16,050
Other dry peas	10.0[D]	10.0	34.0	340
All dry peas	**610.0[A]**	**595.0**	**32.6**	**19,380**
	'000 acres	'000 acres	pounds per acre	'000 pounds
Large green lentils	F	F	F	F
Red lentils	F	F	F	F
Small green lentils	F	F	F	F
Other lentils	0	0	0	0
All lentils	**F**	**F**	**F**	**F**
Brown mustard seed	20.0[D]	20.0	690	13,800
Oriental mustard seed	15.0[D]	15.0	683	10,250
Yellow mustard seed	50.0[B]	50.0	712	35,600
Other mustard seed	0	0	0	0
All mustard seed	**85.0[B]**	**85.0**	**702**	**59,650**
Hairless Canary seed	F	F	F	F
Regular Canary seed	F	F	F	F
All Canary seed	**F**	**F**	**F**	**F**
Desi chick peas	F	F	F	F
Kabuli chick peas	25.0[C]	25.0	888	22,200
Other chick peas	x[D]	x	x	x
All chick peas	**50.0[C]**	**50.0**	**1 176**	**58,800**

1. For coefficient variant range table, see data quality p.30

Methodology and data quality

Survey frame and sample selection

Every five years, the Census of Agriculture collects information on agricultural operations across Canada, including institutional farms, community pastures, Indian reserves, etc. The Census of Agriculture provides a list of farms and their crop areas from which a probability sample for the November crop production estimates is selected.

The target population for the November crop production estimates includes all farms in Canada enumerated in the Census of Agriculture except those on Indian reserves and farms from the Northwest Territories and Yukon. Institutional farms are also excluded from the target population.

Probability surveys can use two types of sampling frames; list and area. In the November Crop Production Survey, only the list frame is used in sample selection. This list frame is stratified into homogenous groups on the basis of Census characteristics (such as farm size and crop area) and sub-provincial geographic boundaries. A sample of approximately 31,500 farms is drawn from the list frame for the November Crop Production Survey.

Data collection

Data collection for the November Crop Production Survey was carried out from October 26 to November 19, 2007.

Data collection for field crop surveys is undertaken using the Computer assisted telephone interview (CATI) system.

Edit and imputation

With the introduction of the CATI system, it is now possible to implement edit procedures at the time of the interview. Computer programmed edit checks in the CATI system inform interviewers during the interview of possible data errors, which can then be corrected immediately by the interviewer and respondent. CATI significantly reduces the need for subsequent telephone follow-up, thereby reducing respondent burden and survey processing time.

Response rate

Usually by the end of the collection period, 85% of the questionnaires have been fully completed. The refusal rate to the survey is approximately 6%. The remainder of the sample unaccounted for, can be explained by non-contact. Initial sample weights are adjusted (a process called raising factor adjustment) in cases of total and partial non-response.

Sampling and non-sampling errors

The statistics contained in this publication are based on a random sample of agricultural operations and, as such, are subject to sampling and non-sampling errors. The overall quality of the estimates depends on the combined effect of these two types of errors.

Sampling errors arise because estimates are derived from sample data and not the entire population. These errors depend on factors such as sample size, sampling design and the method of estimation. An important feature of probability sampling is that sampling errors can be measured from the sample itself.

Non-sampling errors are errors which are not related to sampling and may occur throughout the survey operation for many reasons. For example, non-response is an important source of non-sampling error. Coverage, differences in the interpretation of questions, incorrect information from respondents, mistakes in recording, coding and processing of data are other examples of non-sampling errors.

Estimation

The survey data collected are weighted in order to produce unbiased level indicators which are representative of the population. These level indicators then undergo a validation process, based on subject matter analysis and consultation with provincial statisticians, before a final estimate is published.

Revised production estimate

The November crop production estimates contained in this publication are final for the crop year. Revisions to the crop estimates may still be made for up to two years after the end of the crop year.

The following table contains some statistics which indicate the magnitude and direction of the updates between the November Crop Production Survey and final crop estimates. The magnitude is measured by the average percent change between the preliminary and final estimates. The direction of the update is indicated by counting the number of years that the preliminary estimate is above or below the final published estimate.

The data indicate, for example, that the estimates of the November production for barley are changed by a magnitude of, on average, 2.1% and usually in a downwards direction.

Text table 1
Magnitude and direction of changes between November and final production estimates, Canada 1997 to 2006

		Number of years preliminary farms production data are amended:	
Crop	Average change in %	Upwards	Downwards
Wheat	2.5	3	8
Oats	3.3	3	6
Barley	2.5	2	8
Flaxseed	3.0	2	5
Canola	2.3	6	4
Corn for grain	1.3	6	3
Dry Peas	4.5	1	8
Soybeans	0.5	4	4

Data quality

The November crop production estimates are based on level indicators obtained from a probability survey of farming operations. The potential error introduced by sampling can be estimated from the sample itself by using a statistical measure called the coefficient of variation (c.v.). Over repeated surveys, 95 times out of 100, the relative difference between a sample estimate and what should have been obtained from an enumeration of all farming operations would be less than twice the coefficient of variation. This range of values is referred to as the confidence interval. While published estimates may not exactly equal the level indicators (due to the validation and consultation process), these estimates do remain within the confidence interval of the survey level indicators. For the November Crop Production Survey, c.v.'s at the Canada level range from 1% to 5% for the major crops.

For the different types of special crops, the estimates contained in this publication have been assigned a letter to indicate their c.v. (expressed as a percentage). The letter grades represent the following c.v. ranges:

Text table 2. Coefficient Variation rating system for special crops

C.V. range	Symbol	Meaning
0.00% to 4.99%	A	Excellent
5.00% to 9.99%	B	Very good
10.00% to 14.99%	C	Good
15.00% to 24.99%	D	Use with caution
25.00% and more	F	Too unreliable to publish

Data confidentiality

Data confidentiality is ensured under the *Statistics Act*, which prohibits the divulging of individual or aggregated data where individuals or businesses might be identified.

2008 Crop reporting calendar 2008

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Field crop reporting series

(Catalogue 22-002-XIE)

The eight reports in this series, which are released at strategic times during the crop year, contain data on stocks of grain and crop area, yield and production. Three reports provide data on stocks of grain at both farm and commercial positions for Canada and the provinces (report nos. 1, 3 and 6). The first report on seeded area (no. 2, in April) contains the seeding intentions of producers, while the June report (no. 4) contains the actual seeded areas of field crops. Yields and levels of production by province are estimated before harvest (report no. 5), during harvest (no. 7) and after harvest (no. 8). Release time for all reports is 08:30 hrs, Eastern time. For further information, please contact Client Services, Agriculture Division, Statistics Canada at 1-800-465-1991 or by email: agriculture@statcan.ca

Report No.	Title	2008 Release Dates
1	Stocks of Canadian Grain at December 31, 2007	February 5
2	March Intentions of Principal Field Crops Areas, Canada, 2008	April 21
3	Stocks of Canadian Grain at March 31, 2008	May 7
4	Preliminary Estimates of Principal Field Crops Areas, Canada	June 24
5	July 31 Estimate of Production of Principal Field Crops, Canada	August 22
6	Stocks of Canadian Grain at July 31, 2008	September 10
7	September Estimate of Production of Principal Field Crops, Canada, 2008	October 2
8	November Estimate of Production of Principal Field Crops, Canada, 2008	December 4

Cereals and oilseeds review

(Catalogue 22-007-XIE)

This publication provides up-to-date marketing data and analysis for wheat, coarse grains, oilseeds and special crops. Each monthly issue contains producer marketings, exports of grain and grain products, domestic and international supply-disposition tables, oilseed crushing and grain milling data, and cash and future prices. A situation report highlights the month's events.

Some issues contain annual supplementary data. The March issue contains the Grain storage & movement supplement; the September issue contains the Prices supplement; the October issue contains the Methodology and concepts supplement; and the November issue contains the Processing supplement.

Supply and disposition tables

(Catalogue 22C0001XFB)

Statistics Canada produces national supply-disposition tables for the major grains for the periods August to December; August to March; and August to July. Data include production, farm and commercial stocks, imports, exports, human food and industrial use and feeding. Five years of data are provided. The tables are normally available after major data releases (farm stocks, production, export revisions). Provincial farm supply and disposition tables are also provided on request. The supply-disposition tables are available on paper or by e-mail.

For further information, please contact Client Services, Agriculture Division, Statistics Canada at 1-800-465-1991 or by email: agriculture@statcan.ca

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