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Field Crop Reporting Series



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Field Crop Reporting Series

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- .. not available for a specific reference period
- ... not applicable
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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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Highlights

Estimates of production of principal field crops

- Production of major field crops, except for spring wheat, canola and flaxseed, should improve from 2006 estimates as a result of increases in harvested acreage. In Eastern Canada, grain corn production is expected to hit a record high in both Ontario and Quebec despite continued dry conditions.

Analysis section

Estimates of production of principal field crops

Production of major field crops, except for spring wheat, canola and flaxseed, should improve from 2006 estimates as a result of increases in harvested acreage, according to a survey of Prairie growers.

In Eastern Canada, grain corn production is expected to hit a record high in both Ontario and Quebec despite continued dry conditions.

Data came from the annual September survey of 17, 000 farmers conducted from September 4 to 11.

At the time of the survey, about one-half of the harvest was complete in the Prairie provinces, with the most progress reported in southern areas. In many central and northern regions, the harvest has been delayed by cool, wet conditions.

In Quebec and Ontario, uneven distribution of precipitation has continued to take a toll on field crops. Nevertheless, field corn production is still estimated to hit record levels in both provinces, the result of above-average harvested areas. Soybean production is expected to decline.

Substantial decline anticipated in production of wheat excluding durum

Prairie farmers reported that they expect to harvest an estimated 15.3 million tonnes of wheat excluding durum, a decline of 19.6% or 3.7 million tonnes from 2006. The five-year average is 16.3 million tonnes.

The harvested area is expected to fall 16.6%, and the yield may be down by 1.3 bushels per acre to 36.1 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. Potential declines range from 23.5% in Saskatchewan to 15.0% in Manitoba.

At the same time, durum wheat production is expected to rise 8.0% to an estimated 3.6 million tonnes, an increase of 268,000 tonnes from 2006. This is the result of a strong gain in the harvested area to 4.8 million acres. Despite the increases in harvested area, strong decreases in yield may cause production to remain below the five-year average of 4.4 million tonnes.

Provincially, durum production is anticipated to rise by 8.9% in Saskatchewan to an estimated 2.9 million tonnes, and in Alberta by 4.3% to 685,800 tonnes.

Oilseed production could fall

Prairie canola production could slip in 2007, while flaxseed production is expected to fall.

Farmers report canola production could decline a slight 2.2% to an estimated 8.8 million tonnes, the result of an expected drop in yield of 3.6 bushels per acre. The drop in production may occur despite an anticipated record harvest area of 14.2 million acres. The previous record was 14.1 million acres reported in 1994.

In Manitoba, production could fall to 1.7 million tonnes, down 6.8% from 2006. This may occur despite an expected record harvested area of 2.8 million acres.

And in Saskatchewan, canola production is anticipated to rise 7.4% to 4.0 million tonnes, the result of an increase in harvested area to a record 7.1 million acres. The previous record harvested acreage of 6.6 million acres was set in 1999.

In Alberta, farmers reported a possible reduction in canola production of 10.0% to 3.1 million tonnes, the result of a 8.9% drop in yield to 30.7 bushels per acre. In all three Prairie provinces, production is expected to remain above the five-year average.

Despite dry and variable conditions experienced in the Prairies, some experts point out that new canola seed varieties are more tolerant to adverse conditions.

Prairie flaxseed production is expected to fall 36.8% to 625,400 tonnes, the result of a comparable drop in harvested area. This would be the lowest production estimate reported since 2004. Production should decline in all Prairie provinces and remain below the corresponding five-year averages.

Provincially, declines ranged from 34.3% in Saskatchewan to a drop of 47.4% in Alberta.

Anticipated gains in feed grain production in all Prairie provinces

The production of barley, oats and field peas should all rise in the Prairie provinces this year, the result of strong increases in harvested area.

Prairie barley production should jump to above-average levels this year. This would be the result of gains in estimated harvest area to above-average acreage, and an average cut for silage.

Barley production is estimated at 11.1 million tonnes, up 2.2 million tonnes from 2006, well above the five-year average of 9.7 million tonnes. Yields will continue to be slightly above average at 53.8 bushels per acre. Farmers in all three Prairie provinces anticipate gains in production this year.

Oat production on the Prairies should jump 33.0% to 4.5 million tonnes, an increase of 1.1 million tonnes from 2006. This is attributed to an improvement in yield and a 23.8% increase in harvest area. The five-year production average is 2.9 million tonnes.

Gains in oat production are anticipated in all three Prairie provinces, with increases ranging from 44.5% in Saskatchewan to 10.9% in Alberta. In all cases, production could be above their provincial five-year averages.

Dry field pea production should rise 20.1% to an estimated 3.0 million tonnes, up 506,000 tonnes. A strong increase in harvested area to a record 3.6 million acres was responsible for the gain. The record production is 3.1 million tonnes set in 2004.

Provincially, the results were mixed. Saskatchewan farmers reported a potential 27.9% increase in production to 2.4 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.

On the other hand, farmers in Manitoba reported an 8.0% decrease in production, and Alberta farmers reported a possible slight decline of 0.8%. The declines were the result of anticipated decreases in yield.

Record grain corn harvest, fewer soybeans anticipated in Ontario, Quebec

Farmers in Ontario and Quebec expect to produce a record amount of corn for grain in 2007, despite the difficult growing conditions many have faced. Farmers have planted record or near record areas of corn for grain, mainly at the expense of soybean acreage.

Quebec farmers could produce a record 3.7 million tonnes of corn for grain this year, an increase of 37.0% or 1.0 million tonnes over 2006. The previous record was 3.5 million tonnes set in 2003. The main factors were an increase in expected yield of 17.3 bushels per acre to a near-record 132.0 bushels per acre, and a record harvested area of 1.1 million acres.

In Ontario, corn-for-grain production could enter record territory at 6.4 million tonnes, up 8.2% or 482,600 tonnes. The previous record was 6.0 million tonnes set in 1998. This increase was the result of a 34.2% rise in the harvested area to an estimated 2.1 million acres.

Soybean production in Quebec and Ontario is expected to fall. The largest decline was reported by Ontario farmers, where challenging weather conditions are expected to reduce soybean yields.

In Quebec, production is forecast to drop 8.4% to 490,000 tonnes, the result of a comparable percentage decline in harvested area. The five-year average for Quebec soybean production is 453,000 tonnes.

Ontario farmers expect a 21.4% decline to 2.1 million tonnes, from the 2006 record production of 2.7 million tonnes. This is the result of an 11.3 bushel per acre drop in yield. The five-year average production estimate is 2.3 million tonnes.

Crop categories

Definitions of the crop categories referenced in Report No. 7, Field Crop Reporting Series are listed below.

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

Table 1 September estimate of the 2007 production of principal field crops, Canada

Province and crop	Metric			
	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
Canada				
Winter wheat ¹	691.3	687.2	3900	2,709.0
Spring wheat	6,156.4	6,029.6	2400	14,317.9
Durum wheat	1,948.6	1,934.4	1900	3,614.2
All wheat	8,796.3	8,651.2	2400	20,641.1
Oats	2,188.7	1,853.0	2700	5,009.1
Barley	4,398.0	4,051.3	2900	11,822.1
Fall rye ¹	127.4	115.3	2200	249.9
Mixed grains	170.0	105.8	2800	296.5
Flaxseed ²	528.0	524.0	1200	625.4
Canola	5,904.7	5,819.4	1500	8,864.2
Corn for grain	1,386.7	1,361.1	7800	10,554.5
Dry peas	1,469.0	1,455.0	2100	3,023.6
Soybeans	1,180.1	1,169.0	2400	2,785.4
Dry white beans	56.7	56.7	1700	95.3
Dry coloured beans	92.5	92.1	1700	160.6
Summerfallow	3,096.0	...	...	...
Prince Edward Island				
Winter wheat ¹	1.6	1.6	3100	4.9
Spring wheat	7.7	7.7	3000	23.3
All wheat	9.3	9.3	3000	28.2
Oats	3.6	3.6	2700	9.7
Barley	34.4	34.2	3200	110.4
Soybeans	4.5	4.5	2700	12.0
Mixed grains	5.3	4.9	2700	13.1
Nova Scotia				
Winter wheat ¹	0.8	0.8	3800	3.0
Spring wheat	0.8	0.8	3800	3.0
All wheat	1.6	1.6	3800	6.0
Oats	2.2	2.0	2300	4.6
Barley	2.8	2.8	2500	6.9
Corn for grain	4.0	4.0	7300	29.2
New Brunswick				
Winter wheat ¹	0.2	0.2	3000	0.6
Spring wheat	1.6	1.6	2800	4.4
All wheat	1.8	1.8	2800	5.0
Oats	10.1	9.9	2500	24.6
Barley	14.6	14.6	2400	35.3
Corn for grain	2.0	2.0	7000	14.0
Quebec				
Winter wheat ¹	2.7	2.7	3300	9.0
Spring wheat	53.8	53.2	3100	167.0
All wheat	56.5	55.9	3100	176.0
Oats	115.0	111.5	2800	308.0
Barley	95.0	94.5	3400	325.0

See footnotes at end of table 4.

Table 1 September estimate of the 2007 production of principal field crops, Canada (continued)

Province and crop	Metric			
	Area	Harvested	Yield	Production
	Seeded		on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
Quebec				
Mixed grains	25.0	24.0	3000	72.0
Canola	8.5	8.2	2300	18.5
Corn for grain	450.0	446.5	8300	3,700.0
Soybeans	176.0	175.0	2800	490.0
Total dry beans	6.5	6.5	2200	14.0
Fodder corn	47.0	46.5	40420	1,879.7
Ontario				
Winter wheat ¹	240.8	240.8	5000	1,192.0
Spring wheat	72.8	72.8	3500	253.1
All wheat	313.6	313.6	4600	1,445.1
Oats	40.5	34.4	2500	84.8
Barley	68.8	64.7	3400	217.7
Fall rye ¹	18.2	18.2	2400	43.2
Mixed grains	56.7	50.6	2800	143.3
Canola	20.2	20.2	2200	43.7
Corn for grain	849.8	833.7	7600	6,350.3
Soybeans	906.5	898.4	2300	2,095.6
Dry white beans	32.4	32.4	1800	59.0
Dry coloured beans	28.3	28.3	1400	40.2
Fodder corn	127.5	125.5	36140	4,535.9
Manitoba				
Winter wheat ¹	182.1	182.1	4300	775.6
Spring wheat	1,005.6	975.2	2500	2,450.8
All wheat	1,187.7	1,157.3	2800	3,226.4
Oats	424.9	396.6	3100	1,241.5
Barley	412.8	380.4	3200	1,223.6
Fall rye ¹	28.3	28.3	2400	68.6
Mixed grains	6.1	4.0	2700	10.6
Flaxseed ²	80.9	78.9	1400	107.2
Canola	1,133.1	1,121.0	1500	1,701.0
Corn for grain	80.9	74.9	6200	461.0
Dry peas	38.5	38.5	2500	95.2
Soybeans	93.1	91.1	2100	187.8
Dry white beans	24.3	24.3	1500	36.3
Dry coloured beans	36.3	36.3	1400	52.2
Fodder corn	30.4	28.3	26930	762.0
Canary seed	8.1	6.1	1390	8.5
Sunflower seeds	76.9	74.9	1700	125.4
Summerfallow	71.0	...	...	...
Saskatchewan				
Winter wheat ¹	186.2	186.2	2600	479.0
Spring wheat	3,029.1	2,990.7	2000	5,959.4
Durum wheat	1,639.0	1,630.9	1800	2,928.4
All wheat	4,854.3	4,807.8	1900	9,366.8
Oats	1,133.1	991.5	2500	2,496.8
Barley	1,780.6	1,671.4	2600	4,273.9
Fall rye ¹	52.6	44.5	1800	78.2

See footnotes at end of table 4.

Table 1 September estimate of the 2007 production of principal field crops, Canada (concluded)

Province and crop	Metric			
	Area	Harvested	Yield	Production
	Seeded		on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
Saskatchewan				
Mixed grains	16.2	6.1	1900	11.6
Flaxseed ²	435.0	433.0	1200	499.1
Canola	2,893.5	2,853.0	1400	3,971.2
Dry peas	1,183.7	1,173.7	2000	2,380.0
Lentils	540.2	532.2	1260	669.7
Mustard seed	141.6	135.6	600	81.7
Canary seed	172.0	163.9	980	160.7
Chick peas	153.8	151.8	1300	191.9
Summerfallow	2,145.0	...	...	...
Alberta				
Winter wheat ¹	76.9	72.8	3400	244.9
Spring wheat	1,968.8	1,911.4	2800	5,410.4
Durum wheat	309.6	303.5	2300	685.8
All wheat	2,355.3	2,287.7	2800	6,341.1
Oats	424.9	283.3	2800	783.4
Barley	1,962.7	1,768.5	3100	5,569.4
Fall rye ¹	28.3	24.3	2500	59.9
Mixed grains	56.7	16.2	2800	45.9
Flaxseed ²	12.1	12.1	1600	19.1
Canola	1,821.1	1,788.7	1700	3,082.2
Dry peas	246.8	242.8	2300	548.4
Dry coloured beans	21.4	21.0	2600	54.2
Mustard seed	34.4	34.4	880	30.3
Chick peas	20.2	20.2	1140	23.1
Summerfallow	850.0	...	...	...
British Columbia				
Spring wheat	16.2	16.2	2900	46.5
Oats	34.4	20.2	2800	55.7
Barley	26.3	20.2	3000	59.9
Canola	28.3	28.3	1700	47.6
Fodder corn	10.1	8.1	50400	408.2
Summerfallow	30.0	...	...	...
Western Canada				
Winter wheat ¹	445.2	441.1	3400	1,499.5
Spring wheat	6,019.7	5,893.5	2400	13,867.1
Durum wheat	1,948.6	1,934.4	1900	3,614.2
All wheat	8,413.5	8,269.0	2300	18,980.8
Oats	2,017.3	1,691.6	2700	4,577.4
Barley	4,182.4	3,840.5	2900	11,126.8
Fall rye ¹	109.2	97.1	2100	206.7
Flaxseed ²	528.0	524.0	1200	625.4
Canola	5,876.0	5,791.0	1500	8,802.0
Dry peas	1,469.0	1,455.0	2100	3,023.6
Summerfallow	3,096.0	...	...	...

See footnotes at end of table 4.

Table 2 September estimate of the 2007 production of principal field crops, Canada

Province and crop	Imperial			
	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 acres		bushels per acre	'000 bushels
Canada				
Winter wheat ¹	1,708.2	1,698.2	58.6	99,544
Spring wheat	15,212.9	14,899.5	35.3	526,091
Durum wheat	4,815.0	4,780.0	27.8	132,800
All wheat	21,736.1	21,377.6	35.5	758,435
Oats	5,408.7	4,579.0	70.9	324,804
Barley	10,867.8	10,011.0	54.2	542,982
Fall rye ¹	315.0	285.0	34.5	9,840
Mixed grains	419.8	261.3	59.3	15,487
Flaxseed ²	1,305.0	1,295.0	19.0	24,620
Canola	14,591.0	14,380.3	27.2	390,841
Corn for grain	3,427.0	3,363.3	123.5	415,513
Dry peas	3,630.0	3,595.0	30.9	111,100
Soybeans	2,915.9	2,888.4	35.4	102,344
	'000 acres		hundred weight per acre	'000 hundred weight
Dry white beans	140.0	140.0	15.0	2,100
Dry coloured beans	229.1	228.1	15.5	3,539
Summerfallow	7,650.0	...	...	...
Prince Edward Island				
Winter wheat ¹	4.0	4.0	45.0	180
Spring wheat	19.0	19.0	45.0	855
All wheat	23.0	23.0	45.0	1,035
Oats	9.0	9.0	70.0	630
Barley	85.0	84.5	60.0	5,070
Soybeans	11.0	11.0	40.0	440
Mixed grains	13.0	12.0	60.0	720
Nova Scotia				
Winter wheat ¹	2.0	2.0	55.0	110
Spring wheat	2.0	2.0	55.0	110
All wheat	4.0	4.0	55.0	220
Oats	5.5	5.0	60.0	300
Barley	7.0	7.0	45.0	315
Corn for grain	10.0	10.0	115.0	1,150
New Brunswick				
Winter wheat ¹	0.5	0.5	46.0	23
Spring wheat	4.0	4.0	40.0	160
All wheat	4.5	4.5	40.7	183
Oats	25.0	24.5	65.0	1,593
Barley	36.0	36.0	45.0	1,620
Corn for grain	5.0	5.0	110.0	550
Quebec				
Winter wheat ¹	6.7	6.7	49.6	331
Spring wheat	132.9	131.5	46.7	6,136
All wheat	139.6	138.1	46.8	6,467
Oats	284.2	275.5	72.5	19,971
Barley	234.8	233.5	63.9	14,927
Mixed grains	61.8	59.3	59.5	3,527

See footnotes at end of table 4.

Table 2 September estimate of the 2007 production of principal field crops, Canada (continued)

Province and crop	Imperial			
	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 acres		bushels per acre	'000 bushels
Quebec				
Canola	21.0	20.3	40.3	816
Corn for grain	1,112.0	1,103.3	132.0	145,663
Soybeans	434.9	432.4	41.6	18,004
	'000 acres		hundred weight per acre	'000 hundred weight
Total dry beans	16.1	16.1	19.2	309
	'000 acres		tons per acre	'000 tons
Fodder corn	116.1	114.9	18.0	2,072
Ontario				
Winter wheat ¹	595.0	595.0	73.6	43,800
Spring wheat	180.0	180.0	51.7	9,300
All wheat	775.0	775.0	68.5	53,100
Oats	100.0	85.0	64.7	5,500
Barley	170.0	160.0	62.5	10,000
Fall rye ¹	45.0	45.0	37.8	1,700
Mixed grains	140.0	125.0	63.2	7,900
Canola	50.0	50.0	38.5	1,925
Corn for grain	2,100.0	2,060.0	121.4	250,000
Soybeans	2,240.0	2,220.0	34.7	77,000
	'000 acres		hundred weight per acre	'000 hundred weight
Dry white beans	80.0	80.0	16.3	1,300
Dry coloured beans	70.0	70.0	12.6	885
	'000 acres		tons per acre	'000 tons
Fodder corn	315.0	310.0	16.1	5,000
Manitoba				
Winter wheat ¹	450.0	450.0	63.3	28,500
Spring wheat	2,485.0	2,410.0	37.4	90,050
All wheat	2,935.0	2,860.0	41.5	118,550
Oats	1,050.0	980.0	82.1	80,500
Barley	1,020.0	940.0	59.8	56,200
Fall rye ¹	70.0	70.0	38.6	2,700
Mixed grains	15.0	10.0	52.0	520
Flaxseed ²	200.0	195.0	21.6	4,220
Canola	2,800.0	2,770.0	27.1	75,000
Corn for grain	200.0	185.0	98.1	18,150
Dry peas	95.0	95.0	36.8	3,500
Soybeans	230.0	225.0	30.7	6,900
	'000 acres		hundred weight per acre	'000 hundred weight
Dry white beans	60.0	60.0	13.3	800
Dry coloured beans	90.0	90.0	12.8	1,150
	'000 acres		tons per acre	'000 tons
Fodder corn	75.0	70.0	12.0	840
	'000 acres		pounds per acre	'000 pounds
Canary seed	20.0	20.0	1143	22,850
Sunflower seeds	190.0	185.0	1495	276,500
Summerfallow	175.0	...	...	...
Saskatchewan				
Winter wheat ¹	460.0	460.0	38.3	17,600
Spring wheat	7,485.0	7,390.0	29.6	218,970
Durum wheat	4,050.0	4,030.0	26.7	107,600
All wheat	11,995.0	11,880.0	29.0	344,170
Oats	2,800.0	2,450.0	66.1	161,900
Barley	4,400.0	4,130.0	47.5	196,300
Fall rye ¹	130.0	110.0	28.0	3,080

See footnotes at end of table 4.

Table 2 September estimate of the 2007 production of principal field crops, Canada (concluded)

Province and crop	Imperial			
	Area	Yield		Production
	Seeded	Harvested	on harvested area	
	'000 acres		bushels per acre	'000 bushels
Saskatchewan				
Mixed grains	40.0	15.0	38.0	570
Flaxseed ²	1,075.0	1,070.0	18.4	19,650
Canola	7,150.0	7,050.0	24.8	175,100
Dry peas	2,925.0	2,900.0	30.2	87,450
	'000 acres		pounds per acre	'000 pounds
Lentils	1,335.0	1,315.0	1123	1,476,400
Mustard seed	350.0	335.0	538	180,060
Canary seed	425.0	405.0	875	354,200
Chick peas	380.0	375.0	1128	423,100
Summerfallow	5,300.0	...	...	...
Alberta				
Winter wheat ¹	190.0	180.0	50.0	9,000
Spring wheat	4,865.0	4,723.0	42.1	198,800
Durum wheat	765.0	750.0	33.6	25,200
All wheat	5,820.0	5,653.0	41.2	233,000
Oats	1,050.0	700.0	72.6	50,800
Barley	4,850.0	4,370.0	58.5	255,800
Fall rye ¹	70.0	60.0	39.3	2,360
Mixed grains	140.0	40.0	56.3	2,250
Flaxseed ²	30.0	30.0	25.0	750
Canola	4,500.0	4,420.0	30.7	135,900
Dry Peas	610.0	600.0	33.6	20,150
	'000 acres		hundred weight per acre	'000 hundred weight
Dry coloured beans	53.0	52.0	23.0	1,195
	'000 acres		pounds per acre	'000 pounds
Mustard seed	85.0	85.0	785	66,750
Chick peas	50.0	50.0	1018	50,900
Summerfallow	2,100.0	...	...	...
British Columbia				
Spring wheat	40.0	40.0	42.8	1,710
Oats	85.0	50.0	72.2	3,610
Barley	65.0	50.0	55.0	2,750
Canola	70.0	70.0	30.0	2,100
	'000 acres		tons per acre	'000 tons
Fodder corn	25.0	20.0	22.5	450
Summerfallow	75.0	...	...	...
Western Canada				
Winter wheat ¹	1,100.0	1,090.0	50.6	55,100
Spring wheat	14,875.0	14,563.0	35.0	509,530
Durum wheat	4,815.0	4,780.0	27.8	132,800
All wheat	20,790.0	20,433.0	34.1	697,430
Oats	4,985.0	4,180.0	71.0	296,810
Barley	10,335.0	9,490.0	53.9	511,050
Fall rye ¹	270.0	240.0	33.9	8,140
Flaxseed ²	1,305.0	1,295.0	19.0	24,620
Canola	14,520.0	14,310.0	27.1	388,100
Dry Peas	3,630.0	3,595.0	30.9	111,100
Summerfallow	7,650.0	...	...	...

See footnotes at end of table 4.

Table 3 Estimate of the 2006 production of principal field crops, Canada

Province and crop	Metric			
	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
Canada				
Winter wheat ¹	692.5	685.0	4800	3,301.9
Spring wheat	7,585.0	7,479.3	2500	18,617.3
Durum wheat	1,536.0	1,517.5	2200	3,346.2
All wheat	9,813.5	9,681.8	2600	25,265.4
Oats	2,063.5	1,536.8	2500	3,852.2
Barley	3,689.9	3,222.9	3000	9,573.1
Fall rye ¹	195.1	163.9	2300	382.9
Mixed grains	335.7	129.6	2700	346.5
Flaxseed ²	804.8	785.2	1300	988.8
Canola	5,283.3	5,238.2	1700	9,000.3
Corn for grain	1,093.1	1,060.9	8500	8,989.8
Dry peas	1,260.5	1,230.5	2000	2,519.9
Soybeans	1,213.5	1,201.2	2900	3,465.5
Dry white beans	76.9	75.8	2100	159.7
Dry coloured beans	101.3	100.3	2100	212.9
Summerfallow	3,488.0	...	...	...
Prince Edward Island				
Winter wheat ¹	2.0	2.0	2900	5.7
Spring wheat	9.3	8.9	2800	24.5
All wheat	11.3	10.9	2800	30.2
Oats	5.1	5.1	2400	12.3
Barley	32.1	31.8	2500	80.3
Soybeans	4.6	4.6	2400	11.1
Mixed grains	4.1	3.8	2500	9.5
Nova Scotia				
Winter wheat ¹	1.9	1.9	3400	6.4
Spring wheat	0.6	0.5	3600	1.8
All wheat	2.5	2.4	3400	8.2
Oats	2.4	2.1	2100	4.4
Barley	2.9	2.4	2300	5.4
Corn for grain	3.1	3.1	6700	20.9
New Brunswick				
Winter wheat ¹	0.2	0.2	3000	0.6
Spring wheat	1.2	1.1	2000	2.2
All wheat	1.4	1.3	2200	2.8
Oats	10.1	9.8	2400	23.5
Barley	13.5	12.1	2300	27.4
Mixed grains	0.4	0.4	2300	0.9
Corn for grain	1.8	1.7	6800	11.6
Quebec				
Winter wheat ¹	3.4	3.4	3500	11.9
Spring wheat	52.6	51.0	2900	148.5
All wheat	56.0	54.4	2900	160.4
Oats	125.7	111.5	2400	270.0
Barley	105.8	103.0	2900	301.5

See footnotes at end of table 4.

Table 3 Estimate of the 2006 production of principal field crops, Canada (continued)

Province and crop	Metric			
	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 hectares		kilograms per hectare	'000 tonnes
Quebec				
Fall rye ¹	2.3	2.0	2200	4.4
Mixed grains	26.9	23.0	2500	58.3
Canola	6.2	5.6	2100	11.8
Corn for grain	387.0	375.0	7200	2,700.0
Soybeans	194.5	193.0	2800	535.0
Total dry beans	6.8	6.6	1900	12.4
Fodder corn	57.6	57.0	35790	2,040.3
Ontario				
Winter wheat ¹	416.2	414.8	5600	2,340.5
Spring wheat	83.7	83.0	3400	280.3
All wheat	499.9	497.8	5300	2,620.8
Oats	53.4	44.5	2500	113.4
Barley	89.4	85.0	3400	290.7
Fall rye ¹	25.6	20.2	2300	45.7
Mixed grains	70.2	56.7	3000	167.8
Canola	7.5	6.1	2300	14.2
Corn for grain	638.5	621.2	9400	5,867.7
Soybeans	872.5	862.0	3100	2,667.1
Dry white beans	37.3	36.4	2300	83.5
Dry coloured beans	28.8	28.3	2200	62.4
Fodder corn	129.8	127.5	38420	4,898.8
Manitoba				
Winter wheat ¹	121.1	121.0	4200	505.4
Spring wheat	1,206.0	1,202.3	2700	3,289.5
All wheat	1,327.1	1,323.3	2900	3,794.9
Oats	382.8	339.9	2800	967.4
Barley	339.0	303.5	3400	1,035.3
Fall rye ¹	36.5	34.4	2500	86.4
Mixed grains	17.8	8.1	1800	14.3
Flaxseed ²	155.2	151.8	1300	193.0
Canola	1,003.6	1,001.6	1800	1,825.7
Corn for grain	60.9	58.7	6500	379.7
Dry peas	37.0	36.8	2800	103.5
Soybeans	141.9	141.6	1800	252.3
Dry white beans	36.5	36.4	1900	67.6
Dry coloured beans	43.7	43.6	2000	85.8
Fodder corn	33.3	28.3	36390	1,029.7
Canary seed	3.6	3.4	1090	3.7
Sunflower seeds	77.0	76.9	2100	157.3
Summerfallow	127.0	...	...	...
Saskatchewan				
Winter wheat ¹	95.8	93.1	2800	264.0
Spring wheat	3,874.9	3,810.1	2100	8,151.0
Durum wheat	1,305.0	1,288.9	2100	2,688.9
All wheat	5,275.7	5,192.1	2100	11,103.9
Oats	937.6	724.4	2400	1,727.3
Barley	1,425.5	1,295.0	2600	3,396.5
Fall rye ¹	86.7	85.0	2200	189.2

See footnotes at end of table 4.

Table 3 Estimate of the 2006 production of principal field crops, Canada (concluded)

Province and crop	Metric			
	Area		Yield on harvested area	Production
	Seeded	Harvested		
	'000 hectares		kilograms per hectare	'000 tonnes
Saskatchewan				
Mixed grains	61.0	12.1	2200	26.5
Flaxseed ²	625.2	611.1	1200	759.5
Canola	2,418.9	2,387.6	1500	3,696.8
Dry peas	983.6	963.1	1900	1,861.5
Lentils	516.3	503.8	1250	629.5
Mustard seed	108.6	105.3	780	82.6
Canary seed	132.0	127.5	1010	129.1
Chick peas	112.6	111.3	1200	137.2
Summerfallow	2,429.0	...	...	...
Alberta				
Winter wheat ¹	51.9	48.6	3400	167.4
Spring wheat	2,334.5	2,300.6	2900	6,678.7
Durum wheat	231.0	228.6	2900	657.3
All wheat	2,617.4	2,577.8	2900	7,503.4
Oats	513.6	285.3	2500	706.3
Barley	1,657.1	1,375.9	3200	4,404.6
Fall rye ¹	42.5	22.3	2600	57.2
Mixed grains	150.9	24.3	2700	65.9
Flaxseed ²	24.4	22.3	1600	36.3
Canola	1,821.1	1,813.0	1900	3,424.6
Dry peas	237.6	228.6	2400	552.6
Dry coloured beans	22.0	21.8	2400	52.2
Mustard seed	25.2	24.2	1060	25.6
Chick peas	16.5	16.2	1600	26.0
Summerfallow	906.0	...	...	...
British Columbia				
Spring wheat	22.2	21.8	1900	40.8
Oats	32.8	14.2	1900	27.6
Barley	24.6	14.2	2200	31.4
Mixed grains	4.4	1.2	2800	3.3
Canola	26.0	24.3	1100	27.2
Dry peas	2.3	2.0	1200	2.3
Fodder corn	12.9	12.1	48360	585.1
Summerfallow	26.0	...	...	...
Western Canada				
Winter wheat ¹	268.8	262.7	3600	936.8
Spring wheat	7,437.6	7,334.8	2500	18,160.0
Durum wheat	1,536.0	1,517.5	2200	3,346.2
All wheat	9,242.4	9,115.0	2500	22,443.0
Oats	1,866.8	1,363.8	2500	3,428.6
Barley	3,446.2	2,988.6	3000	8,867.8
Fall rye ¹	167.2	141.7	2300	332.8
Flaxseed ²	804.8	785.2	1300	988.8
Canola	5,269.6	5,226.5	1700	8,974.3
Dry peas	1,260.5	1,230.5	2000	2,519.9
Summerfallow	3,488.0	...	...	...

See footnotes at end of table 4.

Table 4 Estimate of the 2006 production of principal field crops, Canada

Province and crop	Imperial			
	Area	Harvested	Yield	Production
	Seeded		on harvested area	
	'000 acres		bushels per acre	'000 bushels
Canada				
Winter wheat ¹	1,711.0	1,692.4	71.7	121,324
Spring wheat	18,743.0	18,482.1	37.0	684,067
Durum wheat	3,795.4	3,750.0	32.8	122,950
All wheat	24,249.4	23,924.5	38.8	928,342
Oats	5,099.1	3,797.5	65.8	249,788
Barley	9,118.0	7,964.0	55.2	439,684
Fall rye ¹	482.0	404.9	37.2	15,073
Mixed grains	829.7	320.2	56.4	18,071
Flaxseed ²	1,988.8	1,940.0	20.1	38,930
Canola	13,055.3	12,943.8	30.7	396,845
Corn for grain	2,701.0	2,621.6	135.0	353,914
Dry peas	3,115.5	3,041.0	30.4	92,585
Soybeans	2,998.4	2,968.2	42.9	127,335
	'000 acres		hundred weight per acre	'000 hundred weight
Dry white beans	190.1	187.5	18.8	3,520
Dry coloured beans	250.9	248.3	18.9	4,688
Summerfallow	8,616.9	...	...	...
Prince Edward Island				
Winter wheat ¹	5.0	4.9	43.1	211
Spring wheat	22.9	22.0	41.0	902
All wheat	27.9	26.9	41.4	1,113
Oats	12.6	12.5	64.0	800
Barley	79.2	78.5	47.0	3,690
Soybeans	11.3	11.3	36.0	407
Mixed grains	10.1	9.5	55.1	523
Nova Scotia				
Winter wheat ¹	4.6	4.6	51.1	235
Spring wheat	1.4	1.3	50.0	65
All wheat	6.0	5.9	50.8	300
Oats	6.0	5.3	54.0	286
Barley	7.3	6.0	41.0	246
Corn for grain	7.7	7.7	107.0	824
New Brunswick				
Winter wheat ¹	0.5	0.5	41.0	21
Spring wheat	2.9	2.8	28.2	79
All wheat	3.4	3.3	30.2	100
Oats	25.0	24.2	63.0	1,525
Barley	33.2	30.0	42.0	1,260
Mixed grains	0.9	0.9	57.8	52
Corn for grain	4.4	4.3	106.0	456
Quebec				
Winter wheat ¹	8.4	8.4	52.0	437
Spring wheat	130.0	126.0	43.3	5,456
All wheat	138.4	134.4	43.8	5,894
Oats	310.7	275.5	63.5	17,507
Barley	261.5	254.5	54.4	13,848
Fall rye ¹	5.8	4.9	35.0	173
Mixed grains	66.4	56.8	50.3	2,856

See footnotes at end of table 4.

Table 4 Estimate of the 2006 production of principal field crops, Canada (continued)

Province and crop	Imperial			
	Area		Yield	Production
	Seeded	Harvested	on harvested area	
	'000 acres		bushels per acre	'000 bushels
Quebec				
Canola	15.2	13.8	37.6	520
Corn for grain	956.3	926.6	114.7	106,294
Soybeans	480.6	476.9	41.2	19,658
	'000 acres		hundred weight per acre	'000 hundred weight
Total dry beans	16.9	16.3	16.8	273
	'000 acres		tons per acre	'000 tons
Fodder corn	142.3	140.9	16.0	2,249
Ontario				
Winter wheat ¹	1,028.5	1,025.0	83.9	86,000
Spring wheat	206.9	205.0	50.2	10,300
All wheat	1,235.4	1,230.0	78.3	96,300
Oats	132.0	110.0	66.8	7,350
Barley	221.0	210.0	63.6	13,350
Fall rye ¹	63.2	50.0	36.0	1,800
Mixed grains	173.5	140.0	66.1	9,250
Canola	18.6	15.0	41.7	625
Corn for grain	1,577.9	1,535.0	150.5	231,000
Soybeans	2,155.9	2,130.0	46.0	98,000
	'000 acres		hundred weight per acre	'000 hundred weight
Dry white beans	92.3	90.0	20.4	1,840
Dry coloured beans	71.2	70.0	19.6	1,375
	'000 acres		tons per acre	'000 tons
Fodder corn	320.8	315.0	17.1	5,400
Manitoba				
Winter wheat ¹	299.2	299.0	62.1	18,570
Spring wheat	2,980.3	2,971.0	40.7	120,865
All wheat	3,279.4	3,270.0	42.6	139,435
Oats	945.8	840.0	74.7	62,730
Barley	837.8	750.0	63.4	47,550
Fall rye ¹	90.1	85.0	40.0	3,400
Mixed grains	44.0	20.0	35.0	700
Flaxseed ²	383.5	375.0	20.3	7,600
Canola	2,480.0	2,475.0	32.5	80,500
Corn for grain	150.4	145.0	103.1	14,950
Dry peas	91.4	91.0	41.8	3,800
Soybeans	350.6	350.0	26.5	9,270
	'000 acres		hundred weight per acre	'000 hundred weight
Dry white beans	90.2	90.0	16.6	1,490
Dry coloured beans	108.4	108.0	17.5	1,890
	'000 acres		tons per acre	'000 tons
Fodder corn	82.3	70.0	16.2	1,135
	'000 acres		pounds per acre	'000 pounds
Canary seed	9.0	8.5	973	8,270
Sunflower seeds	190.2	190.0	1825	346,800
Summerfallow	312.8	...	...	...
Saskatchewan				
Winter wheat ¹	236.8	230.0	42.2	9,700
Spring wheat	9,575.0	9,415.0	31.8	299,500
Durum wheat	3,224.6	3,185.0	31.0	98,800
All wheat	13,036.3	12,830.0	31.8	408,000
Oats	2,316.8	1,790.0	62.6	112,000
Barley	3,522.5	3,200.0	48.8	156,000
Fall rye ¹	214.2	210.0	35.5	7,450

See footnotes at end of table 4.

Table 4 Estimate of the 2006 production of principal field crops, Canada (concluded)

Province and crop	Imperial			Production
	Area		Yield	
	Seeded	Harvested	on harvested area	
	'000 acres		bushels per acre	'000 bushels
Saskatchewan				
Mixed grains	150.8	30.0	43.3	1,300
Flaxseed ²	1,544.9	1,510.0	19.8	29,900
Canola	5,977.3	5,900.0	27.6	163,000
Dry peas	2,430.5	2,380.0	28.7	68,400
	'000 acres		pounds per acre	'000 pounds
Lentils	1,275.8	1,245.0	1115	1,387,700
Mustard seed	268.2	260.0	700	182,000
Canary seed	326.2	315.0	904	284,700
Chick peas	278.2	275.0	1100	302,400
Summerfallow	6,001.3	...	...	...
Alberta				
Winter wheat ¹	128.2	120.0	51.3	6,150
Spring wheat	5,768.7	5,685.0	43.2	245,400
Durum wheat	570.8	565.0	42.7	24,150
All wheat	6,467.6	6,370.0	43.3	275,700
Oats	1,269.2	705.0	65.0	45,800
Barley	4,094.7	3,400.0	59.5	202,300
Fall rye ¹	105.1	55.0	40.9	2,250
Mixed grains	373.0	60.0	53.8	3,230
Flaxseed ²	60.4	55.0	26.0	1,430
Canola	4,500.0	4,480.0	33.7	151,000
Dry peas	587.3	565.0	35.9	20,300
	'000 acres		hundred weight per acre	'000 hundred weight
Dry coloured beans	54.4	54.0	21.3	1,150
	'000 acres		pounds per acre	'000 pounds
Mustard seed	62.5	60.0	939	56,350
Chick peas	40.7	40.0	1433	57,300
Summerfallow	2,239.6	...	...	...
British Columbia				
Spring wheat	54.9	54.0	27.8	1,500
Oats	81.1	35.0	51.1	1,790
Barley	60.8	35.0	41.1	1,440
Mixed grains	11.0	3.0	53.3	160
Canola	64.3	60.0	20.0	1,200
Dry peas	6.4	5.0	17.0	85
	'000 acres		tons per acre	'000 tons
Fodder corn	31.8	30.0	21.5	645
Summerfallow	63.2	...	...	...
Western Canada				
Winter wheat ¹	664.1	649.0	53.0	34,420
Spring wheat	18,378.9	18,125.0	36.8	667,265
Durum wheat	3,795.4	3,750.0	32.8	122,950
All wheat	22,838.3	22,524.0	36.6	824,635
Oats	4,612.9	3,370.0	66.0	222,320
Barley	8,515.7	7,385.0	55.2	407,290
Fall rye ¹	413.0	350.0	37.4	13,100
Flaxseed ²	1,988.8	1,940.0	20.1	38,930
Canola	13,021.6	12,915.0	30.6	395,700
Dry Peas	3,115.5	3,041.0	30.4	92,585
Summerfallow	8,616.9	...	...	...

1. The area remaining in June after winterkill.

2. Excludes solin.

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 September crop production estimates is selected.

The target population for the September 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, Yukon and Atlantic region. Institutional farms are also excluded from the target population.

Probability surveys can use two types of sampling frames; list and area. In the September 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 17,000 farms is drawn from the list frame for the September Crop Production Survey.

Data collection

Data collection for the September Crop Production Survey was carried out from September 4 to September 11, 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, 80% of the questionnaires have been fully completed. The refusal rate to the survey is approximately 2 to 3%. 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 September crop production estimates contained in this publication are preliminary and as such are subject to revisions once final data are received in the November survey.

The following table contains some statistics which indicate the magnitude and direction of the updates between the September Production Survey and final production 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 preliminary estimates of the September production for wheat are changed by a magnitude of, on average, 2.3% and usually in an upwards direction.

Text table 1
Magnitude and direction of changes between September and final production estimates, Canada 1996 to 2006

Crop	Average change %	Number of years preliminary farms stocks data are revised:	
		Upwards	Downwards number
Wheat	2.3	7	4
Oats	2.5	4	7
Barley	2.1	3	8
Flaxseed	5.4	2	9
Canola	7.2	11	0
Corn for grain	9.3	10	1
Soybeans	5.4	7	4

Data quality

The September 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 September Crop Production Survey, c.v.'s at the Canada level range from 1% to 5% for the major crops.

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.