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Field Crop Reporting Series



Stocks of Canadian Grain at March 31, 2008



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Statistics Canada Agriculture Division

Field Crop Reporting Series

Stocks of Canadian Grain at March 31, 2008

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Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0s 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

Stocks of Canadian grain at March 31, 2008

• With the exception of corn for grain and oats, total stocks of major grains and oilseeds, including commercial and on-farm inventories, had declined as of March 31, 2008, compared with the same date in 2007. These were also the only major field crops with current inventory levels above the five-year average.

Analysis

Stocks of Canadian grain at March 31, 2008

Except for corn for grain and oats, total stocks of major grains and oilseeds, including commercial and on-farm inventories, had declined as of March 31, 2008, compared with the same date in 2007, according to a survey of grain farmers and commercial grain holders.

Total corn for grain stocks were a record, and total oat storage levels remained well above the five-year average.

Stocks of wheat tumble

Total stocks of wheat excluding durum amounted to an estimated 8.8 million tonnes, down 4.0 million tonnes in March of 2007. The decline was mainly the result of a 25.3 % drop in production in 2007. Prairie on-farm stocks alone were down 36.6% to 5.6 million tonnes, well below the five-year average of 7.6 million tonnes.

Commercially held stocks and on-farm stocks in all Prairie provinces tumbled to levels below the five-year average.

Total stocks of durum wheat fell 35.2% to 2.1 million tonnes, an estimate below the five-year average of 3.8 million tonnes. Just two years ago, a record 5.2 million tonnes of durum was reported.

On-farm durum stock amounts in the Prairie provinces tumbled to levels not seen since 1989. On-farm stocks of durum were down in all Prairie provinces and in commercial positions to estimates dramatically below the five-year average.

Stocks of canola down

Total stocks of canola were 3.7 million tonnes, 22.2% below March 2007. On-farm stock levels in the Prairie provinces where the majority of Canadian canola is grown were all down. Total prairie province on-farm stocks of canola were 2.5 million tonnes, compared to the five-year average of 2.8 million tonnes. Lower production in 2007 and increased exports and record crushings led to the draw-down in total stocks.

Oats stocks rise

Total stocks of oats at the end of March were the highest since the year 2000, primarily due to very strong production levels in 2007. The total stock estimate for oats was 2.0 million tonnes, an increase of 30.3% from 2007 and substantially above the five-year average of 1.6 million tonnes.

Total stocks of barley down marginally

Total stocks of barley were down just 2.4% from March 2007 to 4.5 million tonnes. The five-year average is 5.4 million tonnes.

Stock levels remained unchanged in Manitoba, but declined in Saskatchewan and Alberta.

Record stocks of grain corn

Despite increasing demand for ethanol and for animal feed, record high supplies from imports and production have kept total stocks of grain corn at 6.0 million tonnes, 10.0% higher than March 2007. This level easily exceeds the previous record of 5.8 million tonnes set in 2006.

In Ontario, on-farm stocks of corn for grain rose 18.2% to a record 2.7 million tonnes, surpassing the record of 2.5 million tonnes set in March 2006. Quebec farmers reported a robust increase of 40.7% to 1.9 million tonnes.

Related products

Selected publications from Statistics Canada

21-206-X	Statistics on Income of Farm Operators
21-207-X	Statistics on Income of Farm Families
21-208-X	Statistics on Revenues and Expenses of Farms
22-003-X	Fruit and Vegetable Production
22-008-U	Canadian Potato Production - Updates
22-008-X	Canadian Potato Production
22F0005X	Crops Small Area Current Data
23-221-X	Production and Value of Honey and Maple Products
23-501-X	Livestock Feed Requirements Study
23-502-X	Alternative Livestock on Canadian Farms
96-325-X	Canadian Agriculture at a Glance
96-328-M	Canadian Agriculture at a Glance - Teacher's Kit

Selected CANSIM tables from Statistics Canada

001-0004	Estimated summerfallow areas, annual
001-0010	Estimated areas, yield, production and average farm price of principal field crops, in metric units, annual
001-0014	Area, production and farm value of potatoes, annual
001-0017	Estimated areas, yield, production, average farm price and total farm value of principal field crops, in imperial units, annual
001-0018	Estimated areas, yield, production, average farm price and total farm value of selected principal field crops: sugar beets, tame hay and fodder corn, in imperial units, annual
001-0019	Estimated area, yield, production, average farm price and total farm value of selected major speciality field crops, in imperial units, annual
001-0020	Estimated area, yield, production, average farm price and total farm value of selected principal field crops: dry beans (white and coloured), in imperial units, annual

001-0040	Stocks of grain and oilseeds at March 31, July 31 and December 31, 3 times per year
001-0041	Supply and disposition of grains in Canada as of March 31, July 31, August 31 (soybeans only) and December 31, 3 times per year
001-0042	Supply and disposition of corn in Canada and selected provinces as of March 31, August 31 and December 31, 3 times per year
001-0043	Farm supply and disposition of grains as of March 31, July 31, August 31 (soybeans only) and December 31, 3 times per year

Selected surveys from Statistics Canada

Field Crop Reporting Series

Selected summary tables from Statistics Canada

• Field and specialty crops

Statistical tables

Table 1 Stocks of Canadian grain

	Crop-years			
	2005/2006	2006/2007	2007/2008	
	thousar	nds of metric tonnes		
All wheat				
December 31 Stocks on farms Commercial stocks Total stocks	19,039 4,755 23,794	16,962 4,611 21,573	11,466 3,998 15,464	
March 31 Stocks on farms Commercial stocks Total stocks	13,871 4,722 18,593	11,263 4,714 15,977	6,932 3,893 10,825	
July 31 Stocks on farms Commercial stocks Total stocks	4,265 5,433 9,698	1,979 4,824 6,803	 	
Wheat (excluding durum)				
December 31 Stocks on farms Commercial stocks Total stocks	13,891 3,510 17,401	13,862 3,639 17,501	9,516 3,077 12,593	
March 31 Stocks on farms Commercial stocks Total stocks	9,871 3,515 13,386	9,113 3,689 12,802	5,812 2,954 8,766	
July 31 Stocks on farms Commercial stocks Total stocks	2,625 3,799 6,424	1,679 3,892 5,571	::	
Durum wheat				
December 31 Stocks on farms Commercial stocks Total stocks	5,148 1,245 6,393	3,100 972 4,072	1,950 921 2,871	
March 31 Stocks on farms Commercial stocks Total stocks	4,000 1,207 5,207	2,150 1,025 3,175	1,120 938 2,058	
July 31 Stocks on farms Commercial stocks Total stocks	1,640 1,633 3,273	300 933 1,233		

Table 1 – continued Stocks of Canadian grain

	Crop-years			
	2005/2006	2006/2007	2007/2008	
	thousands	s of metric tonnes		
Oats				
December 31 Stocks on farms Commercial stocks Total stocks	2,443 235 2,678	2,139 233 2,372	2,549 255 2,803	
March 31 Stocks on farms Commercial stocks Total stocks	1,604 234 1,838	1,317 231 1,548	1,710 307 2,017	
July 31 Stocks on farms Commercial stocks Total stocks	735 137 872	467 89 556	 	
Barley				
December 31 Stocks on farms Commercial stocks Total stocks	8,875 549 9,424	6,962 511 7,473	6,342 768 7,110	
March 31 Stocks on farms Commercial stocks Total stocks	6,118 352 6,470	4,061 511 4,572	3,810 650 4,460	
July 31 Stocks on farms Commercial stocks Total stocks	3,027 262 3,289	1,200 292 1,492	 	
Rye				
December 31 Stocks on farms Commercial stocks Total stocks	340 	350 	115 	
March 31 Stocks on farms Commercial stocks Total stocks	275 	225 	65 	
July 31 Stocks on farms Commercial stocks Total stocks	170 	105 	 	

Table 1 – continued

Stocks of Canadian grain

	Crop-years			
	2005/2006	2006/2007	2007/2008	
	thousands	s of metric tonnes		
Flaxseed				
December 31 Stocks on farms Commercial stocks Total stocks	630 91 721	715 155 870	355 127 482	
March 31 Stocks on farms Commercial stocks Total stocks	530 96 626	550 186 736	185 157 342	
July 31 Stocks on farms Commercial stocks Total stocks	250 86 336	200 173 373	 	
Canola				
December 31 Stocks on farms Commercial stocks Total stocks	6,558 926 7,484	5,919 1,247 7,166	5,061 1,482 6,543	
March 31 Stocks on farms Commercial stocks Total stocks	4,105 1,031 5,136	3,833 922 4,755	2,468 1,231 3,699	
July 31 Stocks on farms Commercial stocks Total stocks	1,113 894 2,007	679 1,141 1,820	 	
Corn for grain				
December 31 Stocks on farms Commercial stocks Total stocks	6,555 1,908 8,463	6,237 2,128 8,365	7,675 1,871 9,546	
March 31 Stocks on farms Commercial stocks Total stocks	4,470 1,304 5,774	3,874 1,577 5,451	4,780 1,218 5,998	
August 31 Stocks on farms Commercial stocks Total stocks	1,580 421 2,001	850 493 1,343	 	

Table 1 – continued Stocks of Canadian grain

	Crop-years			
	2005/2006	2006/2007	2007/2008	
<u>-</u>	t	thousands of metric tonnes		
Soybeans				
December 31 Stocks on farms Commercial stocks Total stocks	1,378 915 2,293	1,554 1,103 2,657	954 810 1,764	
March 31 Stocks on farms Commercial stocks Total stocks	1,021 650 1,671	1,016 870 1,886	390 550 940	
August 31 Stocks on farms Commercial stocks Total stocks	200 295 495	130 340 470	 	
Dry peas				
December 31 Stocks on farms Commercial stocks Total stocks	1,845 250 2,095	1,366 195 1,561	1,190 270 1,460	
March 31 Stocks on farms Commercial stocks Total stocks	1,200 340 1,540	750 260 1,010	545 275 820	
July 31 Stocks on farms Commercial stocks Total stocks	300 140 440	120 85 205	 	
Lentils				
December 31 Stocks on farms Commercial stocks Total stocks	925 40 965	655 45 700	330 35 365	
March 31 Stocks on farms Commercial stocks Total stocks	710 45 755	465 36 501	155 32 187	
July 31 Stocks on farms Commercial stocks Total stocks	445 30 475	115 24 139	 	

Table 1 – continued

Stocks of Canadian grain

	Crop-years			
	2005/2006	2006/2007	2007/2008	
	thousand	ds of metric tonnes		
Mustard seed				
December 31 Stocks on farms Commercial stocks Total stocks	253 43 296	190 29 219	70 40 110	
March 31 Stocks on farms Commercial stocks Total stocks	202 46 248	130 42 172	30 42 72	
July 31 Stocks on farms Commercial stocks Total stocks	150 40 190	55 36 91	 	
Sunflower seeds				
December 31 Stocks on farms Commercial stocks Total stocks	65 5 70	120 8 128	75 6 81	
March 31 Stocks on farms Commercial stocks Total stocks	50 7 57	75 6 81	30 8 38	
July 31 Stocks on farms Commercial stocks Total stocks	20 7 27	15 8 23	 	
Canary seed				
December 31 Stocks on farms Commercial stocks Total stocks	289 23 312	207 25 232	160 31 191	
March 31 Stocks on farms Commercial stocks Total stocks	239 26 265	164 34 198	110 37 147	
July 31 Stocks on farms Commercial stocks Total stocks	170 20 190	95 26 121	 	

Table 1 – continued Stocks of Canadian grain

	Crop-years			
	2005/2006	2006/2007	2007/2008	
	thousands of metric tonnes			
Chick peas				
December 31 Stocks on farms Commercial stocks Total stocks	70 12 82	85 18 103	160 15 175	
March 31 Stocks on farms Commercial stocks Total stocks	40 10 50	55 14 69	120 14 134	
July 31 Stocks on farms Commercial stocks Total stocks	10 3 13	5 5 10		

Table 2 Farm stocks of grain for the 2007/2008 crop year

	All wheat	Wheat (excuding durum)	Durum wheat	Oats	Barley	
	thousands of metric tonnes					
Canada December 31, 2007 March 31, 2008 July 31, 2008	11,466 6,932 	9,516 5,812 	1,950 1,120 	2,549 1,710 	6,342 3,810	
Maritimes December 31, 2007 March 31, 2008 July 31, 2008	21 7 	21 7 	 	19 5 	82 35	
Quebec December 31, 2007 March 31, 2008 July 31, 2008	95 50 	95 50 	 	140 80 	175 110 	
Ontario December 31, 2007 March 31, 2008 July 31, 2008	275 120 	275 120 	 	40 20	145 90 	
Eastern Canada December 31, 2007 March 31, 2008 July 31, 2008	391 177 	391 177 	 	199 105 	402 235	
Manitoba December 31, 2007 March 31, 2008 July 31, 2008	1,600 900 	1,600 900 	 	560 325 	740 500	
Saskatchewan December 31, 2007 March 31, 2008 July 31, 2008	4,950 3,225 	3,400 2,275 	1,550 950 	1,200 860 	2,000 1,200 	
Alberta December 31, 2007 March 31, 2008 July 31, 2008	4,500 2,620 	4,100 2,450 	400 170 	560 400 	3,200 1,875 	
British Columbia December 31, 2007 March 31, 2008 July 31, 2008	25 10 	25 10 	 	30 20	0 0	
Western Canada December 31, 2007 March 31, 2008 July 31, 2008	11,075 6,755 	9,125 5,635 	1,950 1,120 	2,350 1,605 	5,940 3,575	

Table 2 – continued Farm stocks of grain for the 2007/2008 crop year

	Dry peas	Flaxseed	Canola	Corn for grain	Soybeans	
	thousands of metric tonnes					
Canada December 31, 2007 March 31, 2008 July 31, 2008	1,190 545 	355 185 	5,061 2,468 	7,675 4,780 	954 390	
Maritimes December 31, 2007 March 31, 2008 July 31, 2008	 	 	 	23 7 	4 1 	
Quebec December 31, 2007 March 31, 2008 July 31, 2008	 	 	6 1 	3,075 1,900 	150 65 	
Ontario December 31, 2007 March 31, 2008 July 31, 2008	 	 	8 2 	4,200 2,660	700 270	
Eastern Canada December 31, 2007 March 31, 2008 July 31, 2008	 	 	14 3 	7,298 4,567 	854 336 	
Manitoba December 31, 2007 March 31, 2008 July 31, 2008	30 20 	60 40 	875 400 	360 200 	100 54 	
Saskatchewan December 31, 2007 March 31, 2008 July 31, 2008	950 430 	275 135 	2,275 1,190 	 	 	
Alberta December 31, 2007 March 31, 2008 July 31, 2008	210 95 	20 10 	1,890 875 	17 13 	 	
British Columbia December 31, 2007 March 31, 2008 July 31, 2008	 	 	7 0 	 	 	
Western Canada December 31, 2007 March 31, 2008 July 31, 2008	1,190 545 	355 185 	5,047 2,465 	377 213 	100 54	

Table 3 Farm stocks of grain for the 2006/2007 crop year

	All wheat	Wheat (excuding durum)	Durum wheat	Oats	Barley
	thousands of metric tonnes				
Canada December 31, 2006 March 31, 2007 July 31, 2007	16,962 11,263 1,979	13,862 9,113 1,679	3,100 2,150 300	2,139 1,317 467	6,962 4,061 1,200
Maritimes December 31, 2006 March 31, 2007 July 31, 2007	22 10 0	22 10 0	 	17 7 0	60 35 0
Quebec December 31, 2006 March 31, 2007 July 31, 2007	85 50 8	85 50 8	 	150 80 30	200 120 40
Ontario December 31, 2006 March 31, 2007 July 31, 2007	385 175 60	385 175 60	 	65 40 15	225 150 90
Eastern Canada December 31, 2006 March 31, 2007 July 31, 2007	492 235 68	492 235 68	 	232 127 45	485 305 130
Manitoba December 31, 2006 March 31, 2007 July 31, 2007	2,225 1,425 210	2,225 1,425 210	 	435 220 55	775 500 170
Saskatchewan December 31, 2006 March 31, 2007 July 31, 2007	8,295 5,670 880	5,950 3,950 650	2,345 1,720 230	850 525 185	2,350 1,340 350
Alberta December 31, 2006 March 31, 2007 July 31, 2007	5,930 3,930 820	5,175 3,500 750	755 430 70	600 430 180	3,325 1,900 550
British Columbia December 31, 2006 March 31, 2007 July 31, 2007	20 3 1	20 3 1	 	22 15 2	27 16 0
Western Canada December 31, 2006 March 31, 2007 July 31, 2007	16,470 11,028 1,911	13,370 8,878 1,611	3,100 2,150 300	1,907 1,190 422	6,477 3,756 1,070

Table 3 – continued Farm stocks of grain for the 2006/2007 crop year

	Dry peas	Flaxseed	Canola	Corn for grain	Soybeans	
	thousands of metric tonnes					
Canada December 31, 2006 March 31, 2007 July 31, 2007	1,366 750 120	715 550 200	5,919 3,833 679	6,237 3,874 1,850	1,554 1,016 275	
Maritimes December 31, 2006 March 31, 2007 July 31, 2007	 	 	 	10 4 0	4 1 0	
Quebec December 31, 2006 March 31, 2007 July 31, 2007	 	 	5 1 0	2,200 1,350 600	295 200 70	
Ontario December 31, 2006 March 31, 2007 July 31, 2007	 	 	4 2 0	3,700 2,250 1,050	1,075 700 170	
Eastern Canada December 31, 2006 March 31, 2007 July 31, 2007	 	 	9 3 0	5,910 3,604 1,650	1,374 901 240	
Manitoba December 31, 2006 March 31, 2007 July 31, 2007	60 40 10	160 115 35	1,200 850 100	325 270 200	180 115 35	
Saskatchewan December 31, 2006 March 31, 2007 July 31, 2007	1,035 520 80	500 390 130	2,525 1,625 325	 	 	
Alberta December 31, 2006 March 31, 2007 July 31, 2007	270 190 30	55 45 35	2,175 1,350 250	2 0 0	 	
British Columbia December 31, 2006 March 31, 2007 July 31, 2007	1 0 0	 	10 5 4	 	 	
Western Canada December 31, 2006 March 31, 2007 July 31, 2007	1,366 750 120	715 550 200	5,910 3,830 679	327 270 200	180 115 35	

Concepts and definitions

Definitions of the crop categories referenced in Report No. 3, Field Crop Reporting Series are listed below.

Stocks on farms: farm held stocks of grains include marketable grain and special crops, reserves for on farm feed, seed use and dockage.

Commercial stocks: stocks of grain held at facilities such as elevators, terminals, mills, etc. Commercial stocks exclude dockage.

Dockage: dockage is material that must be removed from grain in order that the commodity can be assigned the highest grade for which it qualifies.

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: dry peas, lentils, mustard seed, sunflower seed, Canary seed and chick peas.

Methodology and data quality

Survey frame and sample selection

The target populations for the March 31 farm stock estimates include 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.

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 March 31 farm stock estimates is selected.

Probability surveys can use two types of sampling frames, list and area. In the March 31 Farm Stocks 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 16, 000 farms is drawn from the list frame for the March 31 Farm Stocks Survey.

Data collection

Data collection for the March 31 Farm Stocks Survey was carried out from March 20 to March 31, 2008.

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 8% to 9%. 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; no imputation is performed for missing values.

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.

Estimates of farm stocks of grains are obtained by a survey of farm operations but a major tool used in the verification of these estimates is the farm supply-disposition (or supply-demand) balance sheet. This table reflects activity **on farms only** before grain enters the commercial system. The total supply and the disposition must be equal.

The supply is composed of opening farm stocks and production. The disposition is comprised of deliveries, seed use, closing farm stocks and feed, waste and dockage. The production and farm stock data are estimated from large surveys of Canadian farmers. Seed use data are based on average seeding rates.

A major portion of the deliveries are licensed grain deliveries obtained from the Canadian Grain Commission (CGC). Statistics Canada (STC) adjusts these deliveries during the estimation process to account for CGC quality problems and data lags. The adjustments are calculated mainly from commercial supply-demand tables using data available in the CGC publication Grain Statistics Weekly. However, the deliveries published in the STC farm supply-disposition tables reflect the CGC published data plus STC estimates for unlicensed deliveries to both domestic and export markets and to condominium storage.

The feed, waste and dockage (fwd) component is a residual in the balance sheet. Indicators such as the number of grain consuming animal units, harvest conditions affecting grain quality, established ratios of dockage to delivered grain and grain inspections are used to ensure data accuracy. An unusual estimate in this component may indicate a problem with another data series such as deliveries or may show a change in feeding patterns. Farm stocks are estimated from survey indicators in conjunction with the other components of the balance sheet. Therefore, any apparent fwd anomalies are unlikely to reflect problems with the level of the farm stocks.

National supply and disposition tables provide further information to aid in estimating farm stocks. More detailed information on supply and disposition tables may be obtained in the October issue of Statistics Canada catalogue 22-007-X, Cereals and Oilseeds Review.

Revisions

Stocks data are subject to revision for two years after first being published. Any revisions are published in the July 31 stocks report, which is released in September.

The following table 1 contains some statistics which indicate the magnitude and direction of past revisions to the March farm stocks data. The magnitude is measured by the average percent change between the preliminary and final estimates. The direction of revisions is indicated by counting the number of years that the preliminary estimate is above or below the final revised estimate.

The data indicate, for example, that the preliminary estimates of wheat farm stocks are revised by a magnitude of, on average, 1.3% and usually in a upward direction.

Text table 1
Magnitude and direction of past revisions to March 31 farm stocks estimates, Canada, 1997 to 2007

	Average	Number of years preliminary farms stocks data are revised:		
		Upwards	Downwards	
	percent	number		
Wheat	1.3	9	1	
Oats	2.7	6	1	
Barley	0.8	4	3	
Flaxseed	2.7	5	1	
Canola	1.8	8	0	
Corn for grain	0.5	1	1	
Soybeans	4.1	7	2	

Data quality

The March 31 farm stocks 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 usually remain within the confidence interval of the survey level indicators. For the March 31 Farm Stocks Survey, c.v.'s at the Canada level range from 3% to 10% 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.