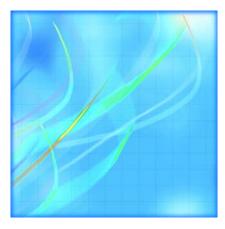
Net Farm Income

Agriculture Economic Statistics

November 2008



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- . 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

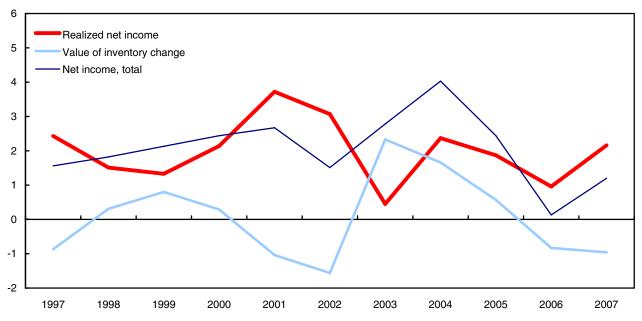
Realized net income for Canadian farmers rebounded in 2007

Realized net farm income (the difference between a farmer's cash receipts and operating expenses minus depreciation, plus income in kind) amounted to \$2.2 billion in 2007, up \$1.2 billion from 2006. The rebound in 2007 followed sharp declines in 2005 and 2006.

Chart 1

Realized net income and total net income increased in 2007

billions of dollars



Analysis

Realized net income for Canadian farmers rebounded in 2007

Realized net farm income (the difference between a farmer's cash receipts and operating expenses minus depreciation, plus income in kind) amounted to \$2.2 billion in 2007, up \$1.2 billion from 2006. The rebound in 2007 followed sharp declines in 2005 and 2006.

Higher grain and oilseed prices more than offset increases in operating costs. Meanwhile, many livestock producers were adversely affected by reduced prices, resulting from the appreciation of the Canadian dollar and higher feed costs.

Realized net farm income declined in several provinces as producers faced large increases in operating costs and declines in potato, hog and calf receipts.

Market cash receipts (revenues from the sale of crops and livestock) increased 12.9% in 2007. Crop receipts increased 25.3%, while livestock receipts rose 2.7%.

Grains and oilseed prices started to gain strength in 2006 with the expansion of the bio-fuel sector. As well, weather related production issues in many of the major grain exporting countries and increased international consumption resulted in tight worldwide supplies in 2007. Grains and oilseed producers benefited from marked improvement in prices in 2007, which rose to levels not seen in several years.

Cattle and hog prices fell 2.4% and 4.2% respectively, resulting in a 0.6% drop in farm cash receipts for cattle and a 2.4% drop for hogs. Helping to offset the decline in livestock receipts were gains in the supply-managed sector. Much of the growth for these commodities was driven by price increases, as production costs, including feed, continued to rise.

Overall, producers saw their operating costs rise, as feed and fertilizer expenses climbed 20.1% and 21.8 respectively, while machinery fuel costs rose 5.6%.

Total net income

Total net income adjusts realized net income for changes in the value of farmer-owned inventories of crops and livestock. It represents the return to owner's equity, unpaid labour, management and risk.

Total net income amounted to \$1.2 billion in 2007, up \$1.1 billion from 2006, despite declines in six provinces. Net income improved in Quebec, Saskatchewan, Alberta and British Columbia.

The value of livestock inventories fell in all provinces, except Nova Scotia and Quebec, as livestock numbers declined with more animals shipped to the United States for cheaper feeding.

Crop inventories also decreased as lower yields reduced crop production in the Prairie provinces, and producers drew down farm stocks to meet demand and capitalize on stronger prices. The only major grain showing an increase in the value of farm inventory in 2007 was corn, as Quebec and Ontario harvested a record crop.

Related products

Selected publications from Statistics Canada

| 21-007-X | Farm Product Price Index |
|----------|--|
| 21-011-X | Farm Cash Receipts - Agriculture Economic Statistics |
| 21-012-X | Farm Operating Expenses and Depreciation Charges - Agriculture Economic Statistics |
| 21-013-X | Value of Farm Capital - Agriculture Economic Statistics |
| 21-014-X | Farm Debt Outstanding - Agriculture Economic Statistics |
| 21-015-X | Direct Payments to Agriculture Producers - Agriculture Economic Statistics |
| 21-016-X | Balance Sheet of the Agricultural Sector - Agriculture Economic Statistics |
| 21-017-X | Agriculture Value Added Account - Agriculture Economic Statistics |
| 21-018-X | Farm Business Cash Flows - Agriculture Economic Statistics |
| 21-525-X | Understanding Measurements of Farm Income |
| | |

Selected CANSIM tables from Statistics Canada

| 002-0001 | Farm cash receipts, annual |
|----------|--|
| 002-0002 | Farm cash receipts, quarterly |
| 002-0009 | Income of farm operators from farming operations, annual |
| 002-0012 | Farm income in kind, by item, annual |

Selected surveys from Statistics Canada

3473 Net Farm Income

Selected summary tables from Statistics Canada

- Agriculture value added account
- Agriculture value added account, by province
- Farm cash receipts
- Farm cash receipts (quarterly)
- Net farm income
- Net farm income, by province

Statistical tables

Table 1-1Net farm income — Agriculture economic statistics — 1981 to 1985

| | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskat- chewan | Alberta | British Columbia | Canada |
|---|---------------------------------|----------------------------|-------------------|-------------------|----------------------|------------------------|----------------------|------------------------|------------------------|---------------------|-------------------------|
| | | | | | thousa | ands of dolla | rs | | | | |
| 1981 | | | | | | | | | | | |
| +Total cash receipts | 32,239 | 189,582 | 227,003 | 194,913 | 2,681,494 | 4,836,578 | 1,651,428 | 3,993,891 | 3,849,946 | | 18,534,208 |
| -Operating expenses after rebates | 28,702 3,537 | 115,022 74,560 | 172,748 54.255 | 150,796 44,117 | 1,973,827 707.667 | 3,683,217 1.153.361 | 1,251,288 400,140 | 2,345,457 1.648.434 | 2,685,203 1,164,743 | 782,128 95.006 | 13,188,388 5.345.820 |
| =Net cash income +Income in kind | 3,537 | 2,903 | 54,255 3,793 | 44,117 | 63,237 | 66.426 | 400,140 | 27,286 | 23.404 | 95,006 10,434 | 216.786 |
| -Depreciation charges | 1,918 | 18,109 | 22,612 | 17,920 | 240,928 | 610,519 | 251,006 | 674,596 | 671,675 | 103,400 | 2,612,683 |
| =Realized net income | 2,027 | 59,354 | 35,436 | 30,205 | 529,976 | 609,268 | 164,021 | 1,001,124 | 516,472 | 2,040 | 2,949,923 |
| +Value of inventory change | 627 | 20,996 | -1,398 | 9,596 | -12,236 | -40,389 | 227,125 | 478,252 | 113,451 | -13,375 | 782,649 |
| =Total net income | 2,654 | 80,350 | 34,038 | 39,801 | 517,740 | 568,879 | 391,146 | 1,479,376 | 629,923 | -11,335 | 3,732,572 |
| 1982 | | | | | | | | | | | |
| +Total cash receipts | 33,403 | 161,900 | 232,242 | 190,327 | 2,840,677 | 4,861,515 | 1,724,981 | 4,063,725 | 3,812,093 | | 18,882,646 |
| -Operating expenses after rebates =Net cash income | 30,528 2,875 | 125,103 36,797 | 189,191 43.051 | 163,002 27,325 | 2,086,314 754,363 | 3,815,051 1.046,464 | 1,287,879 437,102 | 2,495,479 1,568,246 | 2,754,889 1.057.204 | 854,419 107,364 | 13,801,855 5.080,791 |
| +Income in kind | 2,875 | 2,333 | 43,051 | 3,883 | 60,671 | 62,868 | 13,918 | 26,034 | 21,124 | 107,304 | 205,757 |
| -Depreciation charges | 1.913 | 18,560 | 23,942 | 18,117 | 259.335 | 628.073 | 274,349 | 740,205 | 721.112 | 103,925 | 2,789,531 |
| =Realized net income | 1,352 | 20,570 | 23,571 | 13,091 | 555,699 | 481,259 | 176,671 | 854,075 | 357,216 | 13,513 | 2,497,017 |
| +Value of inventory change | -802 | 794 | 294 | 1,438 | -33,101 | -134,420 | 78,243 | 127,062 | -54,749 | -10,391 | -25,632 |
| =Total net income | 550 | 21,364 | 23,865 | 14,529 | 522,598 | 346,839 | 254,914 | 981,137 | 302,467 | 3,122 | 2,471,385 |
| 1983 | | | | | | | | | | | |
| +Total cash receipts | 34,949 | 172,431 | 236,496 | 199,979 | 2,707,935 | 5,010,213 | 1,803,369 | 4,026,199 | 3,751,296 | 916,641 | 18,859,508 |
| -Operating expenses after rebates | 31,263 | 132,718 | 197,886 | 160,759 | 2,102,357 | 3,766,328 | 1,351,396 | 2,673,406 | 2,734,203 | 811,247 | 13,961,563 |
| =Net cash income | 3,686 | 39,713 | 38,610 | 39,220 | 605,578 | 1,243,885 | 451,973 | 1,352,793 | 1,017,093 | 105,394 | 4,897,945 |
| +Income in kind -Depreciation charges | 394 1,907 | 2,444 17,991 | 4,372 25,061 | 4,046 18,258 | 61,694 260,448 | 63,653 617,502 | 13,704 283,751 | 23,681 769,726 | 20,090 725,800 | 10,495 106,534 | 204,573 2,826,978 |
| =Realized net income | 2,173 | 24,166 | 17,921 | 25,008 | 406,824 | 690,036 | 181,926 | 606,748 | 311,383 | 9,355 | 2,020,970 |
| +Value of inventory change | 1,171 | -4,962 | -47 | -8,460 | -36,759 | -104,635 | -164,230 | -178,509 | -190,906 | 8,714 | -678,623 |
| =Total net income | 3,344 | 19,204 | 17,874 | 16,548 | 370,065 | 585,401 | 17,696 | 428,239 | 120,477 | 18,069 | 1,596,917 |
| 1984 | | | | | | | | | | | |
| +Total cash receipts | 41,497 | 191,773 | 258,997 | 217,348 | 3,053,799 | 5,301,832 | 1,989,523 | 4,433,930 | 3,987,826 | 1,004,600 | 20,481,125 |
| -Operating expenses after rebates | 35,239 | 139,481 | 209,932 | 168,620 | 2,145,806 | 3,908,877 | 1,456,147 | 2,772,107 | 2,999,462 | 866,504 | 14,702,175 |
| =Net cash income +Income in kind | 6,258 447 | 52,292 2,395 | 49,065 4,124 | 48,728 4,120 | 907,993 60,697 | 1,392,955 63.329 | 533,376 14,114 | 1,661,823 23,730 | 988,364 19.823 | 138,096 10.849 | 5,778,950 203.628 |
| -Depreciation charges | 1,933 | 18,322 | 26,115 | 19,752 | 262,896 | 599,829 | 283,147 | 792,075 | 709,456 | 105,108 | 2,818,633 |
| =Realized net income | 4,772 | 36,365 | 27,074 | 33,096 | 705,794 | 856,455 | 264,343 | 893,478 | 298,731 | 43,837 | 3,163,945 |
| +Value of inventory change | 323 | 17,511 | -615 | 5,117 | 25,369 | 72,792 | 4,817 | -757,454 | -329,240 | -11,472 | -972,852 |
| =Total net income | 5,095 | 53,876 | 26,459 | 38,213 | 731,163 | 929,247 | 269,160 | 136,024 | -30,509 | 32,365 | 2,191,093 |
| 1985 | | | | | | | | | | | |
| +Total cash receipts | 43,153 | 172,025 | 258,987 | 216,998 | 3,088,627 | 5,045,405 | 2,010,535 | 4,057,512 | 3,837,576 | | 19,792,200 |
| -Operating expenses after rebates | 38,138 | 143,249 | 205,526 | 177,981 | 2,232,969 | 4,004,468 | 1,510,739 | 2,886,599 | 3,028,284 | 887,278 | 15,115,231 |
| =Net cash income +Income in kind | 5,015 491 | 28,776 2,338 | 53,461 4.076 | 39,017 4.060 | 855,658 60,125 | 1,040,937 61,771 | 499,796 13,445 | 1,170,913 23,179 | 809,292 18.896 | 174,104 10.313 | 4,676,969 198,694 |
| -Depreciation charges | 1.924 | 2,338 18,543 | 4,076 | 20.171 | 257.416 | 576.572 | 266,706 | 767.251 | 705.522 | 10,313 | 2.744.380 |
| =Realized net income | 3,582 | 12,571 | 30,955 | 22,906 | 658.367 | 526,136 | 246,535 | 426,841 | 122,666 | 80,724 | 2,131,283 |
| +Value of inventory change | -148 | 647 | -2,704 | 14,329 | 7,640 | 148,590 | 293,033 | 254,108 | -20,292 | -34,444 | 660,759 |
| =Total net income | 3,434 | 13,218 | 28,251 | 37,235 | 666.007 | 674,726 | 539.568 | 680,949 | 102,374 | 46,280 | 2,792,042 |

Note(s): The data in this table were last revised in June 1997.

Table 1-2

Net farm income — Agriculture economic statistics — 1986 to 1990

| | | | | | thousa | ands of dolla | rs | | | | |
|---|------------------|--------------------|--------------------|--------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------|--------------------------|
| 1986 | | 100 105 | | 005 404 | | | | | | | ~~ ~~ ~~~ |
| +Total cash receipts -Operating expenses after rebates | 44,306 40,881 | 186,195 146,129 | 274,993 207,089 | 225,401 179,581 | 3,259,523 2,301,480 | 5,500,850 4,000,043 | 2,101,958 1,463,542 | 4,147,534 2,895,318 | 3,783,639 2,981,260 | 1,106,481 881,750 | 20,630,879 15,097,073 |
| =Net cash income | 3,425 | 40,066 | 67,904 | 45,820 | 958,043 | 1,500,807 | 638,416 | 1,252,216 | 802,379 | 224,731 | 5,533,806 |
| +Income in kind | 361 | 2,058 | 2,717 | 2,612 | 45,713 | 43,030 | 9,656 | 13,541 | 15,901 | 6,122 | 141,710 |
| -Depreciation charges | 1,931 | 18,664 | 27,228 | 20,396 | 271,442 | 564,242 | 274,745 | 761,309 | 706,409 | 103,216 | 2,749,582 |
| =Realized net income +Value of inventory change | 1,855 -305 | 23,460 -5,259 | 43,393 -3,904 | 28,036 -16,418 | 732,314 -93,035 | 979,595 -340,624 | 373,327 -47,339 | 504,448 680,550 | 111,871 471,085 | 127,637 -2,715 | 2,925,934 642,036 |
| , , | | - | | | | | - | - | - | | |
| =Total net income | 1,550 | 18,201 | 39,489 | 11,618 | 639,279 | 638,971 | 325,988 | 1,184,998 | 582,956 | 124,922 | 3,567,970 |
| 1987 | 47 5 40 | 045 000 | 004 070 | 044.000 | 0.000.005 | F FF0 0F0 | 0.445.045 | 4 000 070 | 4 000 700 | 4 404 000 | 04 045 550 |
| +Total cash receipts -Operating expenses after rebates | 47,543 43.601 | 215,869 151.094 | 301,272 219.838 | 241,683 189,150 | 3,328,365 2,430,371 | 5,550,850 4,115,654 | 2,115,945 1,462,256 | 4,383,640 2,888,009 | 4,038,789 3.000.157 | 1,121,603 887.058 | 21,345,559 15.387.188 |
| =Net cash income | 3,942 | 64,775 | 219,030 | 52,533 | 897,994 | 1,435,196 | 653,689 | 1,495,631 | 1,038,632 | 234,545 | 5,958,371 |
| +Income in kind | 320 | 1,641 | 2,263 | 2,226 | 39,835 | 35,179 | 8,282 | 11,312 | 13,685 | 5,317 | 120.058 |
| -Depreciation charges | 1,995 | 18,518 | 27,686 | 20,940 | 285,909 | 564,008 | 265,711 | 737,814 | 686,455 | 102,618 | 2,711,654 |
| =Realized net income | 2,267 | 47,898 | 56,011 | 33,819 | 651,920 | 906,367 | 396,260 | 769,129 | 365,862 | 137,244 | 3,366,775 |
| +Value of inventory change | 901 | -7,683 | -2,483 | 13,813 | -28,901 | -53,008 | -71,462 | -167,891 | 23,555 | 4,864 | -288,295 |
| =Total net income | 3,168 | 40,215 | 53,528 | 47,632 | 623,019 | 853,359 | 324,798 | 601,238 | 389,417 | 142,108 | 3,078,480 |
| 1988 | | | | | | | | | | | |
| +Total cash receipts | 55,073 | 209,253 | 321,902 | 252,971 | 3,585,434 | 5,779,591 | 2,089,475 | 4,467,877 | 4,467,340 | 1,206,316 | 22,435,232 |
| -Operating expenses after rebates | 48,442 | 160,165 | 233,275 | 191,962 | 2,555,046 | 4,326,903 | 1,494,793 | 2,869,202 | 3,107,958 | 954,348 | 15,942,094 |
| =Net cash income | 6,631 | 49,088 | 88,627 | 61,009 | 1,030,388 | 1,452,688 | 594,682 | 1,598,675 | 1,359,382 | 251,968 | 6,493,138 |
| +Income in kind -Depreciation charges | 326 2.263 | 1,590 19,285 | 2,253 29.866 | 2,244 22,245 | 41,028 304,046 | 34,937 603,708 | 8,168 271,640 | 10,606 723,785 | 13,229 686,497 | 5,160 106,911 | 119,540 2,770,246 |
| =Realized net income | 4,694 | 31,393 | 29,000 | 41.008 | 767,370 | 883.917 | 331,210 | 885,496 | 686,114 | 150,217 | 3.842.432 |
| +Value of inventory change | 152 | 9,330 | 660 | -10,091 | 9,702 | -93,578 | -224,637 | -907,072 | 85,899 | 21,307 | -1,108,328 |
| =Total net income | 4,846 | 40,723 | 61,674 | 30,917 | 777,072 | 790,339 | 106,573 | -21,576 | 772,013 | 171,524 | 2,734,104 |
| 1989 | | | | | | | | | | | |
| +Total cash receipts | 58,568 | 258,163 | 325,899 | 274,056 | 3,755,263 | 5,786,193 | 2,108,196 | 4,498,721 | 4,599,469 | 1,254,741 | 22,919,269 |
| -Operating expenses after rebates | 50,355 | 170,685 | 243,780 | 203,610 | 2,673,228 | 4,463,158 | 1,592,498 | 3,120,268 | 3,421,258 | 1,027,077 | 16,965,917 |
| =Net cash income | 8,213 329 | 87,478 1.680 | 82,119 2,289 | 70,446 2,283 | 1,082,035 41,384 | 1,323,035 | 515,698 | 1,378,453 | 1,178,211 13.130 | 227,664 5.172 | 5,953,352 120,389 |
| +Income in kind -Depreciation charges | 2,639 | 21,468 | 2,269 | 2,283 | 320,925 | 35,336 668,551 | 8,276 277,180 | 10,511 715,094 | 716,248 | 116,525 | 2,893,485 |
| =Realized net income | 5,903 | 67,690 | 52,452 | 49,830 | 802,494 | 689,820 | 246,794 | 673,870 | 475,093 | 116,311 | 3,180,256 |
| +Value of inventory change | 612 | -266 | -1,116 | 2,916 | -15,858 | 176,161 | 144,298 | 452,295 | 99,799 | 5,840 | 864,681 |
| =Total net income | 6,515 | 67,424 | 51,336 | 52,746 | 786,636 | 865,981 | 391,092 | 1,126,165 | 574,892 | 122,151 | 4,044,937 |
| 1990 | | | | | | | | | | | |
| +Total cash receipts | 60,139 | 253,381 | 331,697 | 280,204 | 3,783,772 | 5,690,618 | 1,985,442 | 4,030,819 | 4,283,091 | 1,298,776 | 21,997,939 |
| -Operating expenses after rebates | 54,682 | 173,992 | 244,922 | 210,085 | 2,777,558 | 4,460,209 | 1,605,665 | 3,082,937 | 3,407,190 | | 17,055,916 |
| =Net cash income | 5,457 | 79,389 | 86,775 | 70,119 | 1,006,214 | 1,230,409 | 379,777 | 947,882 | 875,901 | 260,100 | 4,942,023 |
| +Income in kind | 312 | 1,629 | 2,280 | 2,295 | 40,646 | 35,058 | 8,403 | 10,399 | 13,139 | 5,015 | 119,175 |
| -Depreciation charges =Realized net income | 3,051 2,718 | 22,715 58,303 | 33,395 55,660 | 25,005 47,409 | 340,765 706,095 | 711,392 554,075 | 281,822 106,358 | 699,658 258,623 | 745,388 143,652 | 125,962 139,153 | 2,989,153 2,072,045 |
| +Value of inventory change | -306 | -7,888 | -1,918 | -5,060 | 10,967 | 4,603 | 314,037 | 818,329 | 202,391 | -1,919 | 1,333,236 |
| =Total net income | 2,412 | 50,415 | 53,742 | 42,349 | 717,062 | 558,678 | 420,395 | 1,076,952 | 346,043 | 137,234 | 3,405,281 |
| | , | , - | , | , | , | | -, | ,,., . | , | ., | , , |

Note(s): The data in this table were last revised in June 1999.

Table 1-3Net farm income — Agriculture economic statistics — 1991 to 2000

| | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskat- chewan | Alberta | British Columbia | Canada |
|---|---------------------------------|----------------------------|--------------------|--------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|
| | | | | | thousa | ands of dolla | rs | | | | |
| 1991 | | | | | | | | | | | |
| +Total cash receipts | 62,752 | 243,754 | 317,832 | 257,059 | 3,850,473 | 5,559,268 | 2,004,405 | 4,127,480 | 4,234,918 | | 21,999,545 |
| -Operating expenses after rebates | 55,017 | 181,689 | 248,095 | 203,530 | 2,862,756 | 4,500,454 | 1,637,104 | 3,129,589 | 3,541,296 | 1,074,398 | |
| =Net cash income +Income in kind | 7,735 368 | 62,065 1,498 | 69,737 2,222 | 53,529 2,204 | 987,717 39,770 | 1,058,814 34,393 | 367,301 7,967 | 997,891 9,678 | 693,622 12,326 | 267,206 4,821 | 4,565,616 115,248 |
| -Depreciation charges | 3,441 | 23,312 | 34,242 | 26,222 | 343,969 | 738,800 | 272,126 | 693,776 | 726,570 | 132,539 | 2,994,997 |
| =Realized net income | 4,662 | 40,251 | 37,717 | 29,511 | 683,518 | 354,407 | 103,142 | 313,793 | -20,622 | 139,488 | 1,685,867 |
| +Value of inventory change | -60 | -9,546 | -1,959 | -5,866 | -9,662 | 2,039 | -1,075 | 147,464 | 164,210 | 10,422 | 295,967 |
| =Total net income | 4,602 | 30,705 | 35,758 | 23,645 | 673,856 | 356,446 | 102,067 | 461,257 | 143,588 | 149,910 | 1,981,834 |
| 1992 | | | | | | | | | | | |
| +Total cash receipts | 65,000 | 228,204 | 321,587 | 270,400 | 3,871,869 | 6,053,177 | 2,168,764 | 4,390,865 | 4,956,259 | 1,404,077 | |
| -Operating expenses after rebates | 54,959 10,041 | 191,199 37,005 | 253,441 68,146 | 208,022 62,378 | 2,996,338 875,531 | 4,688,577 1,364,600 | 1,712,185 456,579 | 3,202,583 1,188,282 | 3,645,587 | 1,122,687 281,390 | 18,075,577 5,654,625 |
| =Net cash income +Income in kind | 421 | 1,552 | 2,341 | 2,323 | 42,370 | 36,603 | 430,379 | 9,780 | 1,310,672 12,830 | 5,429 | 121,573 |
| -Depreciation charges | 3,796 | 24,285 | 34,609 | 26,673 | 342,647 | 734,970 | 275,555 | 701,757 | 717,642 | 134,980 | 2,996,914 |
| =Realized net income | 6,666 | 14,272 | 35,878 | 38,028 | 575,254 | 666,233 | 189,320 | 496,305 | 605,860 | 151,839 | 2,779,284 |
| +Value of inventory change | -411 | 34,409 | -1,017 | 17,625 | -37,251 | -270,574 | 70,376 | -89,011 | -160,060 | -25,286 | -461,200 |
| =Total net income | 6,255 | 48,681 | 34,861 | 55,653 | 538,003 | 395,659 | 259,696 | 407,294 | 445,800 | 126,553 | 2,318,084 |
| 1993 | ~~~~~ | | | | | | | | | | |
| +Total cash receipts -Operating expenses after rebates | 62,323 54,003 | 240,737 195,165 | 312,715 256,390 | 283,095 211,502 | 3,981,395 3,018,291 | 5,879,690 4,845,678 | 2,380,354 1,806,920 | 4,538,639 3,348,769 | 5,064,027 4,013,191 | 1,445,545 1,176,416 | 24,188,520 18,926,327 |
| =Net cash income | 8,320 | 45,572 | 56,325 | 71,593 | 963,104 | 1,034,012 | 573,434 | 1,189,870 | 1,050,836 | 269,129 | 5,262,193 |
| +Income in kind | 486 | 1,847 | 2,844 | 2,799 | 49,950 | 43,781 | 9,691 | 11,322 | 14,955 | 6,344 | 144,022 |
| -Depreciation charges | 3,768 | 23,503 | 35,349 | 26,301 | 352,386 | 733,795 | 277,615 | 725,690 | 735,415 | 145,928 | 3,059,750 |
| =Realized net income +Value of inventory change | 5,038 -769 | 23,916 -12,784 | 23,820 481 | 48,091 -15,063 | 660,668 13,238 | 343,998 128,284 | 305,510 -101,509 | 475,502 448,189 | 330,376 601,179 | 129,545 5,955 | 2,346,465 1,067,201 |
| | | | | | 673,906 | | | | | | |
| =Total net income | 4,269 | 11,132 | 24,301 | 33,028 | 073,900 | 472,282 | 204,001 | 923,691 | 931,555 | 135,500 | 3,413,666 |
| 1994 +Total cash receipts | 63,406 | 308,685 | 327,612 | 293.249 | 4.214.854 | 6,052,852 | 2,451,015 | 5,050,540 | 5,581,321 | 1,537,862 | 25,881,396 |
| -Operating expenses after rebates | 56,974 | 217,599 | 267,064 | 232,804 | 3,195,309 | 5,133,872 | 1,987,697 | 3,563,630 | 4,344,105 | 1,322,271 | 20,321,324 |
| =Net cash income | 6,432 | 91,086 | 60,548 | 60,445 | 1,019,545 | 918,980 | 463,318 | 1,486,910 | 1,237,216 | 215,591 | 5,560,072 |
| +Income in kind | 516 | 2,176 | 3,296 | 3,177 | 55,711 | 48,070 | 10,174 | 11,835 | 15,549 | 7,120 | 157,623 |
| -Depreciation charges =Realized net income | 3,894 3,054 | 26,080 67,182 | 36,093 27,751 | 27,758 35,864 | 373,275 701,981 | 764,626 202,424 | 298,096 175,396 | 764,064 734,681 | 785,827 466,938 | 159,206 63,505 | 3,238,919 2,478,776 |
| +Value of inventory change | 348 | -10,734 | -458 | -7,110 | 83,693 | 131,039 | 167,066 | 13,065 | 103,018 | 44,962 | 524,889 |
| =Total net income | 3,402 | 56,448 | 27,293 | 28,754 | 785,674 | 333,463 | 342,462 | 747,746 | 569,956 | 108,467 | 3,003,665 |
| 1995 | -, - | , | , | -, - | ,- | , | | | , | , | .,, |
| +Total cash receipts | 66,372 | 313,219 | 341,156 | 290,224 | 4,353,371 | 6,315,372 | 2,503,288 | 5,385,694 | 5,969,065 | 1,585,560 | 27,123,321 |
| -Operating expenses after rebates | 60,071 | 240,615 | 284,246 | 246,524 | 3,382,331 | 5,303,628 | 2,095,941 | 3,885,531 | 4,648,930 | 1,387,492 | |
| =Net cash income +Income in kind | 6,301 498 | 72,604 1,921 | 56,910 3,145 | 43,700 2,997 | 971,040 53,435 | 1,011,744 46,014 | 407,347 9,672 | 1,500,163 11,208 | 1,320,135 15,153 | 198,068 6,776 | 5,588,012 150,822 |
| -Depreciation charges | 3,925 | 28,505 | 36,252 | 29,177 | 398,816 | 807,965 | 321,820 | 809,615 | 850,290 | 175,759 | 3,462,124 |
| =Realized net income | 2,874 | 46,020 | 23,803 | 17,520 | 625,659 | 249,793 | 95,199 | 701,756 | 484,998 | 29,085 | 2,276,710 |
| +Value of inventory change | 131 | 39,207 | 3,472 | 5,781 | 13,556 | 26,502 | 30,713 | 160,203 | 396,563 | 33,914 | 710,042 |
| =Total net income | 3,005 | 85,227 | 27,275 | 23,301 | 639,215 | 276,295 | 125,912 | 861,959 | 881,561 | 62,999 | 2,986,752 |
| 1996 | 77 470 | 202 244 | 270 004 | 214 674 | 4 604 940 | 6 60F F00 | 0 700 000 | E 610 507 | 6 500 007 | 1 705 700 | 20 075 207 |
| +Total cash receipts -Operating expenses after rebates | 77,172 63,744 | 293,241 247,674 | 379,981 297,835 | 314,674 262,022 | 4,691,816 3,639,690 | 6,685,533 5,554,619 | 2,788,380 2,263,225 | 5,610,537 4,376,862 | 6,528,207 4,875,544 | 1,705,786 1,439,769 | 29,075,327 23,020,983 |
| =Net cash income | 13,428 | 45,567 | 82,146 | 52,652 | 1,052,126 | 1,130,914 | 525,155 | 1,233,675 | 1,652,663 | 266,017 | 6,054,344 |
| +Income in kind | 522 | 1,996 | 3,504 | 3,317 | 58,916 | 52,025 | 10,806 | 12,780 | 16,518 | 7,711 | 168,101 |
| -Depreciation charges | 4,063 | 31,085 | 38,519 | 31,640 | 431,909 | 868,711 | 343,781 | 862,769 | 923,756 | 194,932 | 3,731,165 |
| =Realized net income +Value of inventory change | 9,887 -363 | 16,478 7,725 | 47,131 675 | 24,329 8,549 | 679,133 124,366 | 314,228 136,067 | 192,180 296,672 | 383,686 761,920 | 745,425 13,800 | 78,796 -21,661 | 2,491,280 1,327,750 |
| =Total net income | 9,524 | | 47,806 | 32,878 | 803,499 | | 488,852 | | 759,225 | | |
| | 9,024 | 24,203 | 47,000 | 52,078 | 003,499 | 450,295 | 400,002 | 1,145,606 | 159,220 | 57,135 | 3,019,030 |
| 1997 1 +Total cash receipts | 76,176 | 281,765 | 374,620 | 320,628 | 4,764,398 | 6,848,486 | 3,044,005 | 5,922,461 | 6,464,646 | 1,738 340 | 29.835.513 |
| -Operating expenses after rebates | 61,467 | 249,358 | 307,863 | 277,277 | 3,648,915 | 5,711,964 | 2,342,985 | 4,319,799 | 5,126,932 | | 23,511,379 |
| =Net cash income | 14,709 | 32,407 | 66,757 | 43,351 | 1,115,483 | 1,136,522 | 701,020 | 1,602,662 | 1,337,714 | 273,522 | 6,324,134 |
| +Income in kind | 346 | 706 | 1,539 | 1,200 | 13,992 | 12,286 | 3,560 | 7,097 | 9,305 | 3,800 | 53,834 |
| -Depreciation charges =Realized net income | 4,357 | 33,514 -401 | 38,766 | 33,564 | 452,494 | 919,221 | 360,286 | 904,954 | 988,478 358 541 | 209,379 | 3,945,013 |
| +Value of inventory change | 10,698 -371 | -401 12,895 | 29,530 -5,890 | 10,987 6,718 | 676,981 -17,605 | 229,587 7,101 | 344,294 -119,646 | 704,805 -663,862 | 358,541 -61,562 | 67,943 -25,926 | 2,432,955 -868,148 |
| =Total net income | 10,327 | 12,494 | 23,640 | 17,705 | 659,376 | 236,688 | 224,648 | 40,943 | 296,979 | 42,017 | 1,564,807 |
| | 10,327 | 12,454 | 23,040 | 17,705 | 009,376 | 230,000 | 224,040 | 40,943 | 230,379 | 42,017 | 1,304,007 |

See footnotes at the end of the table.

Table 1-3 - continued

Net farm income — Agriculture economic statistics — 1991 to 2000

| | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskat- chewan | Alberta | British Columbia | Canada |
|---|---------------------------------|----------------------------|-------------------|-------------------|------------------------|------------------------|----------------------|------------------------|------------------------|----------------------|-------------------------|
| | | | | | thousa | ands of dolla | rs | | | | |
| 1998 | | | | | | | | | | | |
| +Total cash receipts | 72,180 | 324,247 | 369,706 | 326,568 | 4,797,348 | 6,935,145 | 2,937,007 | 5,545,296 | 6,418,118 | 1,779,647 | 29,505,263 |
| -Operating expenses after rebates =Net cash income | 63,770 8,410 | 255,017 69,230 | 303,917 65,789 | 284,307 42,261 | 3,707,271 1.090.077 | 5,850,702 1,084,443 | 2,371,558 565,449 | 4,292,611 1.252.685 | 5,276,290 1,141,828 | 1,527,104 252,543 | 23,932,547 5.572,716 |
| +Income in kind | 205 | 582 | 1.294 | 1.033 | 12,776 | 1,084,443 | 3,256 | 6,416 | 8.631 | 3,524 | 49.352 |
| -Depreciation charges | 4.697 | 35.906 | 40.082 | 34.012 | 466,146 | 943,714 | 382,660 | 957.173 | 1.036.389 | 213.961 | 4.114.740 |
| =Realized net income | 3,918 | 33,906 | 27.001 | 9,282 | 636,707 | 152.359 | 186.045 | 301,928 | 114.070 | 42,106 | 1.507.328 |
| +Value of inventory change | 368 | -12,823 | 1,518 | -2,012 | -1,642 | 17,978 | 51,650 | 30,775 | 190,282 | 36,654 | 312,748 |
| =Total net income | 4,286 | 21,083 | 28,519 | 7,270 | 635,065 | 170,337 | 237,695 | 332,703 | 304,352 | 78,760 | 1,820,076 |
| 1999 | | | | | | | | | | | |
| +Total cash receipts | 72,473 | 349,165 | 389,350 | 375,268 | 5,080,960 | 7,131,578 | 2,906,809 | 5,535,319 | 6,530,826 | 1,885,035 | 30,256,780 |
| -Operating expenses after rebates | 64,061 | 266,333 | 310,829 | 292,245 | 3,864,727 | 6,000,196 | 2,363,667 | 4,284,186 | 5,717,676 | 1,572,949 | 24,736,871 |
| =Net cash income | 8,412 | 82,832 | 78,521 | 83,023 | 1,216,233 | 1,131,382 | 543,142 | 1,251,133 | 813,150 | 312,086 | 5,519,909 |
| +Income in kind | 191 | 552 | 1,234 | 1,072 | 12,564 | 10,965 | 3,128 | 6,159 | 8,402 | 3,131 | 47,401 |
| -Depreciation charges | 5,006 | 36,142 | 42,574 | 38,207 | 493,579 | 965,150 | 398,472 | 966,568 | 1,072,801 | 216,608 | 4,235,107 |
| =Realized net income +Value of inventory change | 3,597 1.886 | 47,242 -3,249 | 37,181 -4,045 | 45,888 -10,330 | 735,218 17.560 | 177,197 -12,241 | 147,798 -15.835 | 290,724 330,980 | -251,249 491,929 | 98,609 3,068 | 1,332,203 799,723 |
| =Total net income | 5.483 | 43.993 | 33.136 | 35.558 | 752.778 | 164,956 | 131.963 | 621,704 | 240.680 | 101.677 | 2.131.926 |
| 2000 | -, | , | , | , | , | , | , | | , | , | _,, |
| +Total cash receipts | 73.712 | 322.717 | 413.050 | 368.570 | 5.411.030 | 7.793.260 | 3.156.056 | 5.733.513 | 7.583.288 | 2.024.221 | 32.879.399 |
| -Operating expenses after rebates | 64,975 | 272,058 | 325.708 | 309,983 | 4.159.827 | 6,406,220 | 2,538,030 | 4,551,032 | 6.148.381 | 1.689.100 | 26,465,312 |
| =Net cash income | 8.737 | 50.659 | 87.342 | 58,587 | 1.251.203 | 1.387.040 | 618.026 | 1.182.481 | 1.434.907 | 335.121 | 6.414.087 |
| +Income in kind | 286 | 480 | 1.139 | 1.024 | 12.809 | 11.386 | 3.369 | 6,442 | 9.048 | 3,428 | 49.411 |
| -Depreciation charges | 5,494 | 39,325 | 46,328 | 42,341 | 531,077 | 1,001,854 | 399,837 | 949,791 | 1,084,973 | 221,823 | 4,322,843 |
| =Realized net income | 3,529 | 11,814 | 42,153 | 17,270 | 732,935 | 396,572 | 221,558 | 239,132 | 358,982 | 116,726 | 2,140,655 |
| +Value of inventory change | 351 | 17,362 | -1,779 | 10,062 | -67,972 | -181,091 | 168,128 | 318,413 | 29,821 | 1,644 | 294,939 |
| =Total net income | 3,880 | 29,176 | 40,374 | 27,332 | 664.963 | 215,481 | 389,686 | 557,545 | 388,803 | 118,370 | 2,435,594 |

1. The data in this table were last revised in November 2003 for 1991 to 1996, and November 2008 for 1997 to 2000.

Table 1-4 Net farm income — Agriculture economic statistics — 2001 to 2002

| | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskat- chewan | Alberta | British Columbia | Canada |
|-----------------------------------|---------------------------------|----------------------------|----------------|------------------|-----------|---------------|-----------|-------------------|------------|---------------------|------------|
| | | | | | thousa | ands of dolla | rs | | | | |
| 2001 | | | | | | | | | | | |
| +Total cash receipts | 77,870 | 336,349 | 420,917 | 416,641 | 5,736,960 | 8,475,645 | 3,698,409 | 6,511,315 | 8,368,417 | 2,200,804 | 36,243,327 |
| -Operating expenses after rebates | 69,935 | 275,678 | 343,345 | 328,760 | 4,398,923 | 6,942,145 | 2,770,661 | 4,763,946 | 6,458,552 | 1,772,369 | 28,124,312 |
| =Net cash income | 7,935 | 60,671 | 77,572 | 87,881 | 1,338,037 | 1,533,500 | 927,748 | 1,747,369 | 1,909,865 | 428,435 | 8,119,015 |
| +Income in kind | 414 | 483 | 1,002 | 973 | 12,885 | 11,314 | 3,523 | 6,701 | 8,977 | 3,292 | 49,564 |
| -Depreciation charges | 5,950 | 40,448 | 48,316 | 45,374 | 556,349 | 1,016,880 | 415,209 | 979,850 | 1,122,187 | 221,337 | 4,451,900 |
| =Realized net income | 2,399 | 20,706 | 30,258 | 43,480 | 794,573 | 527,934 | 516,062 | 774,220 | 796,655 | 210,390 | 3,716,679 |
| +Value of inventory change | 431 | -66,348 | -1,454 | -4,390 | 88,551 | -119,902 | -69,651 | -630,844 | -258,676 | 19,384 | -1,042,899 |
| =Total net income | 2,830 | -45,642 | 28,804 | 39,090 | 883,124 | 408,032 | 446,411 | 143,376 | 537,979 | 229,774 | 2,673,780 |
| 2002 | | | | | | | | | | | |
| +Total cash receipts | 79,583 | 369,104 | 407,050 | 428,906 | 5,488,561 | 8,435,211 | 3,819,776 | 6,452,698 | 8,315,809 | 2,173,971 | 35,970,624 |
| -Operating expenses after rebates | 71,819 | 290,161 | 353,258 | 336,686 | 4,475,265 | 7,099,342 | 2,894,640 | 4,747,417 | 6,321,126 | 1,872,941 | 28,462,655 |
| =Net cash income | 7,764 | 78,943 | 53,792 | 92,220 | 1,013,296 | 1,335,869 | 925,136 | 1,705,281 | 1,994,683 | 301,030 | 7,507,969 |
| +Income in kind | 522 | 389 | 923 | 891 | 11,839 | 10,529 | 3,202 | 5,700 | 8,386 | 2,916 | 45,295 |
| -Depreciation charges | 6,210 | 38,578 | 48,846 | 46,043 | 560,841 | 1,067,295 | 414,042 | 944,265 | 1,111,527 | 245,073 | 4,482,720 |
| =Realized net income | 2,076 | 40,754 | 5,869 | 47,068 | 464,294 | 279,103 | 514,296 | 766,716 | 891,542 | 58,873 | 3,070,544 |
| +Value of inventory change | 521 | 78,774 | 822 | 17,811 | 19,345 | 160,735 | -10,422 | -777,697 | -1,066,029 | 17,238 | -1,558,902 |
| =Total net income | 2,597 | 119,528 | 6,691 | 64,879 | 483,639 | 439,838 | 503,874 | -10,981 | -174,487 | 76,111 | 1,511,642 |

Note(s): The data in this table were last revised in November 2008.

Table 1-5Net farm income — Agriculture economic statistics — 2003

| | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskat- chewan | Alberta | British Columbia | Canada |
|-----------------------------------|---------------------------------|----------------------------|----------------|------------------|-----------|---------------|-----------|-------------------|-----------|---------------------|------------|
| | | | | | thousa | ands of dolla | ſS | | | | |
| 2003 | | | | | | | | | | | |
| +Total cash receipts | 81,444 | 355,333 | 421,919 | 411,593 | 5,929,482 | 8,407,821 | 3,532,318 | 5,755,256 | 7,101,628 | 2,248,099 | 34,244,827 |
| -Operating expenses after rebates | 75,332 | 297,586 | 365,933 | 349,026 | 4,776,647 | 7,168,704 | 3,039,894 | 4,928,849 | 6,323,867 | 1,916,790 | 29,242,628 |
| =Net cash income | 6,112 | 57,747 | 55,986 | 62,567 | 1,152,835 | 1,239,117 | 492,424 | 826,407 | 777,761 | 331,309 | 5,002,199 |
| +Income in kind | 382 | 466 | 838 | 761 | 10,709 | 8,992 | 2,842 | 5,078 | 8,302 | 2,648 | 41,017 |
| -Depreciation charges | 6,365 | 38,498 | 49,335 | 46,461 | 601,453 | 1,058,725 | 442,924 | 955,828 | 1,144,436 | 252,924 | 4,596,949 |
| =Realized net income | 129 | 19,715 | 7,489 | 16,867 | 562,091 | 189,384 | 52,342 | -124,343 | -358,373 | 81,033 | 446,267 |
| +Value of inventory change | 1,207 | -3,934 | -1,450 | -4,579 | 114,247 | 22,605 | 399,660 | 815,448 | 941,157 | 44,408 | 2,328,769 |
| =Total net income | 1,336 | 15,781 | 6,039 | 12,288 | 676,338 | 211,989 | 452,002 | 691,105 | 582,784 | 125,441 | 2,775,036 |

Note(s): The data in this table were last revised in November 2008.

Table 1-6

Net farm income — Agriculture economic statistics — 2004 to 2005

| | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskat- chewan | Alberta | British Columbia | Canada |
|--|---------------------------------|----------------------------|----------------|------------------|-----------|---------------|-----------|-------------------|-----------|---------------------|------------|
| | | | | | thousa | ands of dolla | rs | | | | |
| 2004 | | | | | | | | | | | |
| +Total cash receipts | 87,527 | 349,577 | 456,739 | 421,574 | 6,302,425 | 8,597,499 | 3,857,541 | 5,892,158 | 8,013,369 | 2,359,838 | 36,338,224 |
| Operating expenses after rebates | 78,138 | 304,704 | 364,983 | 351,107 | 4,924,613 | 7,224,221 | 3,099,074 | 4,888,446 | 6,235,036 | 1,937,134 | 29,407,456 |
| =Net cash income | 9,389 | 44,873 | 91,756 | 70,467 | 1,377,812 | 1,373,278 | 758,467 | 1,003,712 | 1,778,333 | 422,704 | 6,930,768 |
| +Income in kind | 337 | 438 | 804 | 755 | 11,298 | 9,067 | 3,659 | 7,015 | 10,880 | 3,238 | 47,493 |
| -Depreciation charges | 6,713 | 39,481 | 50,862 | 48,659 | 594,332 | 1,054,392 | 444,908 | 969,779 | 1,140,581 | 262,889 | 4,612,596 |
| =Realized net income | 3,013 | 5,830 | 41,698 | 22,563 | 794,778 | 327,953 | 317,218 | 40,948 | 648,632 | 163,053 | 2,365,665 |
| +Value of inventory change | 1,322 | 5,177 | -3,183 | -8,989 | 118,475 | 315,313 | -68,973 | 821,895 | 507,193 | -27,489 | 1,660,741 |
| =Total net income | 4,335 | 11,007 | 38,515 | 13,574 | 913,253 | 643,266 | 248,245 | 862,843 | 1,155,825 | 135,564 | 4,026,406 |
| 2005 | | | | | | | | | | | |
| +Total cash receipts | 90,133 | 373,181 | 467,490 | 437,941 | 6,222,088 | 8,911,087 | 3,804,476 | 6,209,683 | 7,855,071 | 2,372,451 | 36,743,561 |
| Operating expenses after rebates | 79,206 | 310,044 | 367,070 | 360,176 | 4,876,993 | 7,381,178 | 3,011,675 | 5,140,220 | 6,571,364 | 2,033,051 | 30,130,977 |
| =Net cash income | 10,927 | 63,137 | 100,420 | 77,765 | 1,345,095 | 1,529,909 | 792,801 | 1,069,463 | 1,283,707 | 339,400 | 6,612,584 |
| +Income in kind | 440 | 374 | 812 | 804 | 12,850 | 10,778 | 3,915 | 7,556 | 14,259 | 3,360 | 55,181 |
| -Depreciation charges | 7,194 | 40,733 | 53,152 | 51,346 | 647,270 | 1,107,463 | 460,840 | 971,255 | 1,185,439 | 275,864 | 4,800,556 |
| =Realized net income | 4,173 | 22,778 | 48,080 | 27,223 | 710,675 | 433,224 | 335,876 | 105,764 | 112,527 | 66,896 | 1,867,209 |
| +Value of inventory change | 515 | -19,586 | -2,238 | 10,352 | -51,204 | -10,859 | -238,881 | 634,717 | 296,548 | -45,241 | 574,123 |
| =Total net income | 4,688 | 3,192 | 45,842 | 37,575 | 659,471 | 422,365 | 96,995 | 740,481 | 409,075 | 21,655 | 2,441,332 |

Note(s): The data in this table were last revised in November 2008.

Table 1-7 Net farm income — Agriculture economic statistics — 2006 to 2007

| | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskat- chewan | Alberta | British Columbia | Canada |
|---|---|--|---|---|---|--|---|--|--|--|---|
| | | | | | thousa | ands of dolla | rs | | | | |
| 2006 +Total cash receipts -Operating expenses after rebates | 96,217 85,894 | 380,394 323,358 | 473,458 381,914 | 458,967 374,605 | 6,274,096 5.078,134 | 8,853,344 7,592,905 | 3,686,512 3,212,557 | 6,626,761 5,274,364 | 7,811,201 6.785.629 | 2,288,617 2,080,097 | 36,949,543 31,189,456 |
| =Net cash income +Income in kind -Depreciation charges | 10,323 450 7,396 | 57,036 474 41,444 | 91,544 832 53,583 | 84,362 841 51,856 | 1,195,962 10,530 638,259 | 1,260,439 9,465 1,125,686 | 473,955 3,119 466.854 | 1,352,397 5,731 965,941 | 1,025,572 10,907 1,199,361 | 208,520 3,209 298,193 | 5,760,087 45,562 4,848,573 |
| =Realized net income +Value of inventory change | 3,377 605 | 16,066 27,383 | 38,793 -2,050 | 33,347 23,347 | 568,233 -99,416 | 144,218 -144,146 | 10,220 291,649 | 392,187 -589,165 | -162,882 -301,148 | -86,464 -35,518 | 957,076 -828,459 |
| =Total net income | 3,982 | 43,449 | 36,743 | 56,694 | 468,817 | 72 | 301,869 | -196,978 | -464,030 | -121,982 | 128,617 |
| 2007 | | | | | | | | | | | |
| +Total cash receipts -Operating expenses after rebates =Net cash income +Income in kind -Depreciation charges =Realized net income +Value of inventory change | 106,041 95,927 10,114 457 7,765 2,806 -86 | 387,492 335,213 52,279 609 40,696 12,192 -25,830 | 458,631 404,583 54,048 896 54,614 330 548 | 449,760 387,997 61,763 886 54,648 8,001 -13,361 | 6,863,469 5,548,764 1,314,705 10,672 664,999 660,378 83,880 | 9,316,060 7,950,918 1,365,142 8,766 1,154,698 219,210 -320,751 | 4,313,909 3,519,925 793,984 3,200 459,820 337,364 -61,583 | 7,632,203 5,780,239 1,851,964 4,391 1,008,962 847,393 -311,986 | 8,747,822 7,334,455 1,413,367 8,107 1,245,321 176,153 -295,517 | 2,415,593 2,208,821 206,772 3,196 316,688 -106,720 -13,283 | 40,690,960 33,566,833 7,124,127 41,179 5,008,211 2,157,095 -957,969 |
| =Total net income | 2,720 | -13,638 | 878 | -5,360 | 744,258 | -101,541 | 275,781 | 535,407 | -119,364 | -120,003 | 1,199,126 |

Note(s): The data in this table were last revised in November 2008.

General information

This publication is part of a series of bulletins that also includes:

| 21-007-X | Farm product price index |
|----------|--|
| 21-011-X | Farm cash receipts - Agriculture economic statistics |
| 21-012-X | Farm operating expenses and depreciation charges - Agriculture economic statistics |
| 21-013-X | Value of farm capital - Agriculture economic statistics |
| 21-014-X | Farm debt outstanding - Agriculture economic statistics |
| 21-015-X | Direct payments to agriculture producers - Agriculture economic statistics |
| 21-016-X | Balance sheet of the agricultural sector - Agriculture economic statistics |
| 21-017-X | Agriculture value added account - Agriculture economic statistics |
| 21-018-X | Farm business cash flows - Agriculture economic statistics |

This publication presents annual estimates of net farm income and its components starting from 1981. Data highlights are provided for the most current year.

All series can be obtained free on the internet at the Statistics Canada web site (*www.statcan.gc.ca*). Notes on concepts and methods are also included for each data series.

Data from 1926 to 1980 inclusive are available in the November 2004 publication of **Net farm income – Agriculture** economic statistics, catalogue no. 21-014-X, vol. 3, no. 2.

The electronic publication is first available in May. It includes preliminary estimates for the calendar year just ended. The following November, the publication is re-issued with revisions to the preliminary estimates. Revisions to the May issue can extend back two years, while those in November generally apply to three years. The date provided at the bottom of each table is the last time that a revision was made to that table.

Most data appearing in this publication are available through the Canadian Socio-Economic Information Management System (CANSIM), Statistics Canada's corporate computerized data base network and information retrieval service.

Statistics Canada is committed to ensuring that there is no disclosure of confidential material and therefore all data are subjected to restrictions prior to release.

Concepts and methods

In addition to administrative data, there are three main sources (Census of Agriculture, Taxation Data Program and Farm Financial Survey) whose data contribute to several of the series found in this publication. Following is a brief overview of these surveys, and a summary of the methods used to reduce errors in each. Copies of any of the survey questionnaires may be obtained by contacting Farm Income and Prices Section (FIPS).

Prior to 1991, the National Farm Survey (NFS) was a major source of data, providing the results of an annual probability survey, with a sample size of 50,000. Detail on concepts, survey methodology and data quality of the NFS are available by contacting Farm Income and Prices Section (FIPS).

The **Census of Agriculture** is a quinquennial survey of all Canadian agricultural holdings, including institutional farms, research stations, community pastures and Indian Reserves.

Procedures for collecting complete and accurate information are developed and improved for each Census of Agriculture. To ensure that the data are of consistently high quality, control procedures are incorporated into each census collection and processing stage.

Some farming operations are missed, however, primarily due to the difficulty in identifying an agricultural holding when no operators live on or near the holding. Certain questionnaires are only partially completed, or not completed at all. Missing responses are obtained through follow up with respondents, or are estimated by employing an automated imputation procedure which assigns values selected from similar agricultural operations. Respondents occasionally provide inaccurate responses. Where such responses have a large impact on the estimate they are corrected or confirmed by contacting the respondents. Computerized checks identify processing errors related to keying entries, or omissions which occurred during manual processes. After processing, the data are validated by comparing them thoroughly with other survey results and administrative data. Technical information on concepts, survey methodology and data quality for the **2006 Census of Agriculture**, is available on the website at *http://www.statcan.gc.ca/ca-ra2006/index-eng.htm*.

The Census of Agriculture is often used as a "coherence adjustment" and a source from which to draw samples. The coherence adjusting process involves using Census estimates each fifth year, and aligning the interim year's receipt and expense data with the results of the Census of Agriculture. The difference between the previously published estimate and the Census coherence adjustment is calculated and distributed over the four preceding years. This intercensal revision procedure is undertaken for many of the series in this publication, including farm cash receipts and operating expenses whose data then feeds into other accounts published here, such as the net farm income. Intercensal revisions incorporating the 2006 Census data were released in November 2008.

The **Taxation Data Program** (TDP) involves a sample of approximately 180,000 Canada Revenue Agency (CRA) income tax records. The sampling frame covers all provinces and includes all individuals who claim either positive gross farm income, or non-zero net farm income. Research stations, institutional farms, and Indian Reserves are excluded. The sampling frame includes all corporations which report minimum sales of \$25,000, for which 50% or more of their sales come from agricultural activities.

Records for approximately 95% of the sample are received and raising factors are adjusted where the sample is incomplete. Basic edit checks are performed at the data capture stage and subsequent editing identifies errors, inconsistencies, extreme values, etc. As a final check, the top 25 tax filers (records which contribute the most for each income and expense item), at the provincial level, are analysed further. A process of donor imputation, using similar tax filer records, is applied in cases where tax filers fail to itemize all (or part) of their revenues or expenses. Total revenue and expense items for farms are estimated by inflating each sampled item by an estimation weight.

The processing procedures described above help minimize the occurrence of non-sampling errors (such as errors introduced during editing, and response errors) but some errors are outside Statistics Canada's control, including the fact that Canada Revenue Agency (CRA) tax forms are designed for tax purposes and not survey purposes. Since TDP estimates are based on a sample rather than the total population, they are subject to sampling errors. The potential error introduced by sampling can be estimated from the sample itself by using a statistical measure called the standard error. Over repeated surveys, 95 times out of 100, the relative difference between a sample estimate and what would have been obtained from an enumeration of all 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. The 1997 TDP survey had a coefficient of variation range of 0.5% to 1.7% for total operating revenues and expenses. Tables of standard error or coefficients of variation are available by contacting The Client Services and Marketing Unit, Agriculture Division, Statistics Canada at 1-800-465-1991 or by email at *agriculture@statcan.gc.ca*.

The quality of the TDP estimates is affected by certain limitations. Firstly the information is not collected from a standard questionnaire, but from different types of statements of income and expenses. Secondly, under the Income Tax Act, tax filers can report either on cash or an accrual basis.

The imputation of missing values may affect the accuracy of tabulations. Further documentation concerning concepts, data reliability, limitations or the methodology of this survey is available by consulting **Economic Overview of Farm Incomes**, catalogue no. 21-005-X.

Prior to the Farm Financial Survey (FFS), **Farm Credit Canada** had conducted surveys (reference years 1981, 1984, 1987, 1989, and 1991) dealing with the financial structure of Canadian agriculture. This was a joint project of Farm Credit Canada (management, collection and processing personnel), Agriculture and Agri-Food Canada (financial support, collection and processing personnel), and Statistics Canada (survey and questionnaire design, processing and analysis of data). The structure of the FCC Farm Survey evolved over time, with the 1991 version having a Census-based sample of 12,000 farms with sales of over \$2000. These excluded institutional farms, farms on Indian Reserves, community pastures, farms in marginal areas and farms that were part of large multi-holding companies. A smaller area frame, based on the National Farm Survey area frame, was also used, in order to include entrants into agriculture since the previous Census.

In 1992, the FCC Farm Survey was replaced by the Farm Financial Survey (FFS), conducted under contract with Agriculture and Agri-Food Canada. In 1993, the survey was conducted in Western Canada only, with financial data referring to 1992. A biennial, nation-wide FFS was initiated in 1994 (1993 reference year), and continued until 2002. An annual version of the FFS began in 2003 (2002 reference year).

As was the case for the FCC Survey, the FFS estimates are based on a sample rather than on the entire population, they were subject to sampling errors. The potential error introduced by sampling can be estimated from the sample itself by using a statistical measure called the standard error. The 2003 FFS had a coefficient of variation of 0.88% for total assets, and 1.54% for total liabilities. The usable responses (excludes total refusals, no contacts, and others) returned from this survey totalled 90% of the sample. Tables of standard error or coefficients of variation are available by contacting Whole Farm Data. Further documentation concerning concepts, data quality and reliability, limitations or the methodology of this survey is available by contacting The Client Services and Marketing Unit, Agriculture Division, Statistics Canada at 1-800-465-1991 or by email at *agriculture@statcan.gc.ca*.

For administrative data, in order to reduce error, assessments are made based on historical and current trends, subject matter expertise, and information obtained through discussion with industry authorities. Users should be aware that administrative data are generally compiled for an organization's own needs, and not for survey purposes. Any anomalies or inconsistencies detected are verified with the source, and where necessary, adjustments are made to reconcile data with the conceptual framework of our series. The administrative agencies used are considered to be the best sources available, and data received from them is judged to be of very good quality, even in those circumstances where adjustments have been made. In some instances component data may not add to the total. This is ordinarily due to rounding, and considered to be of minimal impact.

Net farm income

In this publication annual estimates of net farm income at the provincial and national levels are presented from 1981 to date. These estimates are on the CANSIM database.

Due to changes in the concepts and methods for the components of net income, estimates of net income before 1971 are not comparable with those from 1971 to date.

The notes on concepts and methods for each of the components of net farm income (farm cash receipts, farm operating expenses and depreciation charges, income in kind, and value of inventory change) should be read in conjunction with these notes.

The Agriculture Division of Statistics Canada also derives estimates of farm income from several other independent sources. The Farm Financial Survey (FFS), the Taxation Data Program and the Census of Agriculture each produce separate income estimates. The table below shows the differences between the data.

Example:

Text table 1 Net cash income, Canada

| | 2005 |
|--|----------------------------------|
| | millions of dollars |
| Census of Agriculture Taxation Data Project Agriculture Economic Statistics Farm Financial Survey | 5,864 5,671 6,613 4,907 |

Concepts

The farm income accounts are designed to provide an annual measure of income returned to the owners of agricultural businesses from the production of agricultural commodities. Two points should be noted:

- 1. accounts only relate to the farm business. They do not include any income that farm operators or their families may receive from other sources (wages and salaries, investment income, etc.).
- 2. The accounts pertain only to the production and marketing of agricultural commodities. Revenue or expenses related to the sale or purchase of farm capital (real estate, machinery and equipment) are not included.

Currently, the accounts include the sale of any production from farm woodlots, but exclude any income earned from activities such as fish farming or the non-agricultural use of the farm.

Methods and data quality

Three measures of net farm income at the provincial and national levels have been estimated for the years 1971 to date:

- (a) **Net cash income** of farm businesses is derived by subtracting operating expenses from farm cash receipts. It represents the amount of cash generated by the farm business that is available for debt repayment, investment or withdrawal by the owner.
- (b) Realized net income of farm businesses starts with net cash income. It is derived by subtracting depreciation (economic concept) and adding income in kind to net cash income. It represents the financial flows, both cash and non-cash, attributable to the farm businesses, similar to an income statement. It represents the net income from transactions in a given year in that it includes the sale of commodities regardless of the year they were produced. Realized net income does not account for stock changes (value of inventory change).
- (c) Total net income is net cash income adjusted for the value of inventory change, depreciation (economic concept) and income in kind. It represents the return to owner's equity, unpaid labour, management and risk. Total net income accounts for agriculture economic production during the year that the agricultural goods were produced.

As a result of the residual method used to derive net income, a minor change in either farm cash receipts or farm operating expenses will have a significant impact on the net income level and yearly change.

The following diagram illustrates this point:

Text table 2 Impact of revisions on total net income

| | Original data | Revised data | Variation in percentage |
|------------------------------------|------------------|-----------------|-------------------------------|
| Total farm cash receipts including | | | |
| payments | 60,000 | 60,600 | 1 |
| - Total operating expenses after | | | |
| rebates | 45,000 | 44,550 | -1 |
| = Net cash income | 15,000 | 16,050 | 7 |
| + Income in kind | 500 | 500 | |
| Depreciation | 2,000 | 2,000 | |
| = Realized net income | 13,500 | 14,550 | 8 |
| + Value of inventory change | 500 | 500 | |
| = Total net income | 14,000 | 15,050 | = 8 |

In this example, a 1% change in either cash receipts or operating expenses would have resulted in a 4 to 5% change in any of the net farm income estimates, and a 1% change in both results in an 8% change to the total net income.

Farm cash receipts

This publication presents farm cash receipts by commodity and by calendar year from 1981 to date for every province. Data are available through the CANSIM database on a quarterly basis for the period 1971 to date.

Concepts

Farm cash receipts measure the gross revenue of farm businesses in current dollars. They include sales of crops and livestock products (except sales between farms in the same province) and program payments. Receipts are recorded when the money is paid to farmers before any expenses are paid.

The farm cash receipts series includes agricultural products such as field crops, vegetables, fruits, floriculture and nursery products, maple and forest products, livestock, dairy products, poultry, eggs, wool, fur, and honey.

The direct program payments to producers included in farm cash receipts represent the amounts paid under various government and private programs to individuals involved in agricultural production. The payments related to current agricultural production include subsidies to encourage production or to compensate producers for low market returns, payments to stabilize incomes and payments to compensate producers for crop or livestock losses caused by extreme climatic conditions, disease or other reasons.

The primary reason for compiling farm cash receipts is to estimate, on a provincial basis, the agriculture sector's contribution to gross domestic product. Consequently, all inter-farm sales within a province are excluded from farm cash receipts estimates as their inclusion would result in double counting. It should be noted, however, that farm-to-farm sales between provinces are included as are all sales outside the sector. Excluding inter-farm sales within a province means that farm cash receipts cannot be used as a measure of the gross output of the agriculture sector.

Farm cash receipts are estimated on a cash basis and represent the value of sales when they occur, that is, when ownership first changes hands. Thus, sales are only recorded when cash disbursements have actually occurred. The prices used to value transactions include any bonuses and premiums which can be attributed to specific commodities, but exclude fees deducted before the producer is paid (e.g. storage, transportation, marketing or administrative costs).

In several cases, particularly where crops are concerned, producers receive a partial or an initial payment for their commodities at the time of sale. As the marketing of the crop progresses, an adjustment or final payment is made. These payments are only shown in cash receipts when producers receive the funds. Examples of such cases include Ontario Wheat Producers' Marketing Board (OWPMB) and Canadian Wheat Board (CWB) adjustment, interim and/or final payments for wheat, oats and barley. Oats ceased to be marketed through the CWB on July 31, 1989. Similar payment patterns also occur for sugar beets and dry beans.

Receipts from the sale of some agricultural products can be deferred. For example, producers in Western Canada have the option of deferring grain receipts to the next year. In the past, Statistics Canada used the assumption that payments ("liquidations") of deferred grain and oilseed receipts ("deferments") from the crops sold in one calendar year were all received in January of the following year. After conducting an examination of records provided by elevators, it was established that it was true for 85 to 90% of the cases. The series were revised accordingly, starting with 1998 data, to record more accurately in which month the liquidations occurred.

All published commodity receipts represent receipts from the market. Thus, any subsidy or stabilization payment directed at a specific commodity is not included in the receipts for that commodity. In fact, all direct subsidies or payments to the agriculture sector are recorded separately.

Methods

Cash receipts are, for the most part, based on monthly marketings and prices of the various commodities. Direct program payments are based on data obtained from several sources on a monthly or quarterly basis.

Calculations of commodity cash receipts involve the use of many data sources which can vary by province and by commodity. Most of the prices for the monthly marketings are collected from administrative sources such as marketing boards, regulatory agencies and market information. Some prices are also provided by a monthly farm prices survey conducted by Statistics Canada. In all cases, the prices reflect those received by producers at the point when ownership first changes hands.

Monthly marketings are mostly obtained from administrative records of marketing boards, government agencies and private companies. Grain marketings, including durum wheat, wheat excluding durum, oats, barley, rye, flaxseed and canola for the Western provinces, are obtained from the Canadian Grain Commission. In Eastern Canada, the data are either obtained from marketing boards and producer associations, based on historical marketing patterns or agreed upon in consultation with provincial specialists.

Marketings for crops such as corn, soybeans, tobacco, sugar beets and dry beans are obtained from marketing boards and associations as well as private companies.

Cash receipts estimates for potatoes, fruits, vegetables, honey, maple and forest products, and greenhouse and nursery products are obtained through various surveys or censuses conducted by Statistics Canada, the provinces or other federal and provincial departments or agencies. These departments and agencies are also a major source of marketing data for mustard seed, sunflower seed, lentils, canary seed, dry peas, forage and grass seed, and hay and clover.

Livestock marketings, including cattle, calves, hogs, sheep, lambs, hens and chickens, and turkeys, are mainly based on market information from Agriculture and Agri-Food Canada and provincial departments and agencies. Marketings of eggs are also obtained from these sources. In the case of dairy products, producers' marketings of milk and cream are obtained from regulatory agencies and private companies.

Although the farm cash receipts series covers many commodities, it is not exhaustive. There is a miscellaneous category for crops and another for livestock. The cash receipts in these two categories are based on the quinquennial Census of Agriculture in order to account for commodities that are not estimated individually.

Since cash receipts are estimated on a cash basis, any amounts received after the sale of a product, whether in the form of a final or an adjustment payment, will be shown when the cash is received rather than when it was earned. Several items fall into this category, including payments by the CWB and the OWPMB, as well as deferments and liquidations of grain receipts. The information for these payments are obtained directly from the administrative bodies involved.

Direct program payments are tabulated quarterly. The agencies responsible for the disbursement of payments under the various programs provide the data on a monthly, quarterly and, in some cases, an annual basis. Only payments directly provided to producers are included in the series.

Payments made under private programs such as private hail insurance and livestock insurance are included in the Farm Cash Receipts series under the categories "Private hail insurance payments" and "Other payments", respectively. In the publication **Direct payments to agriculture producers – Agriculture economic statistics**, catalogue no. 21-015-X, "Crop insurance payments" and "Other payments" do not include private program payments.

Data comparability

Two new commodities were added to farm cash receipts effective January 1997 under the new North American Industry Classification System (NAICS): Christmas trees and poultry hatcheries. With poultry hatcheries becoming part of the agriculture sector:

- Inter-provincial sales and exports of chicks and poults are included in poultry hatchery receipts.
- Eggs sold to hatcheries in the same province are now considered as inter-farm sales and were removed from egg receipts.
- Inter-provincial sales and exports of eggs sold for hatching are still included in egg receipts along with receipts for table eggs.

As of the June 1999 intercensal revision, horse receipts are estimated using slaughter data from the Canadian Food Inspection Agency combined with international exports of slaughter horses.

Data quality

As indicated above, farm cash receipts are estimated using both administrative and survey sources of data. Where necessary, data are adjusted to ensure conceptual consistency with the receipts series. Much of the data obtained from administrative sources have been summarized from the financial transactions of individual producers. These summarized data are often subject to audit by independent professional accountants and/or are used to make payments to individual producers. As a result, the quality of these data is considered to be very good. The survey data used in the receipts series reflect typical Statistics Canada standards for quality assurance and, therefore, the quality of these data is considered to be good.

However, it is important to note that the receipts data are subject to error. Administrative data may contain non-sampling error such as keying mistakes, while survey data may suffer from both non-sampling and sampling error. Users should also note that the quality of individual estimates may not be consistent between commodities or between provinces because the data sources and their quality may vary. As well, the estimates of inter-farm sales between provinces are not strong as there are few sources for these data.

More detail on the quality of the crops and livestock data that are used to estimate farm cash receipts can be found in the following Statistics Canada publications.

| 22-002-X | Field Crop Reporting Series |
|----------|--|
| 22-007-X | Cereals and Oilseeds Review |
| 22-008-X | Canadian Potato Production |
| 22-003-X | Fruit and Vegetable Production |
| 22-202-X | Greenhouse, Sod and Nursery Industries |
| 23-221-X | Production and Value of Honey and Maple Products |
| 23-010-X | Hog Statistics |
| 23-011-X | Sheep Statistics |
| 23-012-X | Cattle Statistics |
| 23-001-X | The Dairy Review |
| 23-202-X | Production of Poultry and Eggs |
| 21-007-X | Farm Product Price Index |

Data revisions

Annual farm cash receipts data are published twice each year, at the end of May and at the end of November. In May, receipts for the previous two calendar years are subject to revision. In November, receipts for the previous three years may be revised. Every five years a historical revision is done based on the results of the Census of Agriculture.

The results of the latest intercensal revision, based on the 2006 Census of Agriculture, have been included with the **November 2008** publication, catalogue no. 21-010-X, vol.7, no.2, and apply to the period 1997 to 2007.

An indication of the expected size of revisions to farm cash receipts can be provided by a statistic known as Theil's Root Mean Square Prediction Error (RMSPE). This statistic represents the average percent difference between the initial and current estimates during the period in question. For example, the table below indicates that, from 1993 to 2002, total farm cash receipts at the Canada level have so far been revised, either up or down, by about 1.5% from the first published estimate.

Text table 1 Root mean square prediction error (RMSPE)

| | 1994 to 2003 |
|--|----------------------------------|
| | percent |
| Total Receipts Crop receipts Livestock receipts Payments | 1.4 1.7 1.2 10.4 |

Further information on Theil's RMSPE is available from **A Description of Theil's RMSPE Method in Agricultural Statistical Forecasts**, Stuart Pursey, Working Paper #1, Agriculture Division, Statistics Canada, 1980.

Income in kind

Annual income in kind estimates, at an aggregate level, are available in this publication in the net income tables. They are presented by province for the period 1981 to date. Estimates by commodity are available on the CANSIM database.

Concepts

The income in kind series measures the value of agricultural commodities produced on farms and consumed by individuals living on these farm operations. The home-consumed products are valued at prevailing market prices such that income in kind represents the receipts producers would have received had the product been sold rather than consumed. Agricultural products that are used as inputs in the production of other agricultural products, such as grain fed to livestock, are not considered as income in kind because they form part of the value of the final product.

Agricultural commodities included in the income in kind series are dairy products, cattle, calves, hogs, lambs, hens and chickens, turkeys, eggs, potatoes, vegetables, fruits, maple products, honey, wool and forest products.

Methods

Income in kind estimates are derived using three different methods, depending on the commodity. For maple products and wool, estimates of the quantities consumed by farm operators and their families are obtained through surveys.

Estimates of quantities consumed for the other commodities (dairy products, cattle, calves, hogs, sheep, lambs, hens and chickens, turkeys, eggs, potatoes, vegetables, fruits and honey) are based on the number of farm operations producing the item, their average farm family size and the average annual Canadian consumption of the commodity.

Beginning in 1986, a new method for calculating income in kind was used for meat products (beef, veal, pork and lambs). Income in kind for the above listed livestock is derived from the "killed and eaten on the farm" estimates published in the **Livestock Statistics**, catalogue no. 23-010-X, 23-011-X, 23-012-X, multiplied by the annual average slaughter prices.

As of 1986, income in kind for forest products are based on the number of farm households, annual consumption of wood cords per farm and the average annual price.

Once the quantities of the farm products consumed by producers and their families have been established, they are valued at weighted average market prices received for the product during the year from the farm cash receipts series.

Data comparability

The preceding documentation is relevant for the period 1986 to date for meat and forest products and 1981 to date for the other commodities.

Data quality

Estimates of the value of income in kind are prepared using a combination of surveys, Census and administrative data. These data reflect typical Statistics Canada standards for quality assurance and, therefore, their quality is considered to be good. However, since little information on the consumption patterns of farm families exists, it is not possible to objectively validate the income in kind estimates. As a result, these estimates cannot be considered to be of high quality. Furthermore, they are subject to the general sampling and non-sampling errors present in all types of survey and administrative data.

More detail on the quality of the data that are used to estimate income in kind can be found in the following Statistics Canada publications.

| 23-001-X | The Dairy Review |
|----------|--|
| 23-603-X | Livestock Statistics |
| 23-202-X | Production of Poultry and Eggs |
| 22-008-X | Canadian Potato Production |
| 22-003-X | Fruit and Vegetable Production |
| 21-020-X | Canada Food Statistics |
| 23-221-X | Production and Value of Honey and Maple Products |
| 21-007-X | Farm Product Price Index |

Data revisions

Annual estimates of income in kind are published twice each year, at the end of May and at the end of November. In May, data for the previous two calendar years are subject to revision. In November, data for the previous three years may be revised. Every five years a historical revision is done based on the results of the Census of Agriculture. The results of the latest intercensal revision, based on the 2006 Census of Agriculture, have been included with the November 2008 publication, catalogue no. 21-010-X, vol.7, no. 2, and apply to the period 1997 to 2007.

An indication of the expected size of revisions to income in kind can be provided by a statistic known as Theil's Root Mean Square Prediction Error (RMSPE). This statistic represents the average percent difference between the initial and current estimates during the period in question. For example, from 1994 to 2003, the total value of income in kind at the Canada level has so far been revised, either up or down, by 28.3% from the first published estimate. This result was mainly due to the change of method for calculating income in kind for meat and forest products. Prior to the June 1999 revision, RMSPE from 1988 to 1997 was estimated at 3.0%.

Further information on Theil's RMSPE is available from **A Description of Theil's RMSPE Method in Agricultural Statistical Forecasts**, Stuart Pursey, Working Paper #1, Agriculture Division, Statistics Canada, 1980.

Value of inventory change

This publication presents annual estimates of the aggregate value of inventory change from 1981 to date in the net income tables. The data series, by item, are available on the CANSIM database by province for the period 1951 to date.

Concepts

The value of inventory change measures the value of the change in producer-owned inventories between the beginning and the end of the calendar year. The annual value of inventory change (whether positive or negative), along with farm cash receipts and income in kind, represents the gross value of agricultural production.

Many agricultural commodities, particularly grains, are produced in a given year and stored or held until they are marketed as long as two years later. In years of above-average production, farm inventories tend to be built up, only to be drawn down and sold when production returns to average or below-average levels.

Receipts from the sale of grains can be deferred and then cashed or liquidated in the next year. As a result of the methods used to derive grain receipts, an adjustment is made to the value of inventory change. The adjustment is required in order to avoid double counting in the value of inventory change series.

The value of inventory change is estimated for durum wheat, wheat except durum, oats, barley, rye, corn, flaxseed, solin, canola, soybeans, potatoes, tobacco, mustard seed, sunflower seed, lentils, canary seed, dry peas, cattle, calves, sheep and lambs, hogs, hens and chickens, and turkeys. Deferred grain receipts and liquidations of deferred grain receipts, as mentioned above, are also included.

Methods

The value of inventory change series is an estimate of the value of the change in producer-held inventories of agricultural products during a calendar year. The physical change in inventories is valued at weighted average annual market prices in the case of crops and at simple average annual prices for livestock commodities. This simple average is based on the value per animal at January 1, July 1 and December 31 of each year.

In the case of crops, supply and disposition balance sheets are used to establish the beginning and ending inventories on a calendar year basis. Inventories at the end of each crop year and production levels for each crop are based on producer surveys. Monthly disposition items, including marketings, home consumption, feed, waste and dockage, and seed use, are obtained from various sources.

Physical inventory levels at calendar year-end are established for each crop by adding estimates of crop year beginning inventories to estimates of production and then deducting estimates of monthly disposition.

Physical inventory levels for livestock items are established from the quinquennial Census of Agriculture. Between Censuses, semi-annual producer surveys are used to derive inventory levels.

As explained above, the value of inventory change is adjusted to take into account the deferment and liquidation of grain receipts. This adjustment consists of adding to the value of inventory change an amount equal to that shown for deferred grain receipts. Similarly, an amount equal to the value of liquidations is deducted from the value of inventory change.

Data quality

Estimates of the value of inventory change are prepared using both administrative and survey data. These data reflect typical Statistics Canada standards for quality assurance and, therefore, their quality is considered to be good. However, it is important to note that these data are subject to the general sampling and non-sampling errors present in all types of survey and administrative data.

Estimates of the value of inventory change can also be very volatile. Inventory change can be either positive or negative, depending on whether inventories have increased or decreased. Revisions to any of the supply or disposition items will have a direct effect on inventory levels, and even small revisions could change the sign on inventory change. Furthermore, calendar year inventory levels are often derived residually. As a result, the value of inventory change series is very sensitive and often subject to substantial revision.

Valuing the on-farm inventories of livestock has proven challenging since May 2003 when trade restrictions imposed as a result of bovine spongiform encephalopathy (BSE) created uncertainty in all livestock markets. Please use this series with caution.

More detail on the quality of the data that are used to estimate the value of inventory change can be found in the following Statistics Canada publications.

| 22-002-X | Field Crop Reporting Series |
|----------|--------------------------------|
| 22-201-X | Grain Trade of Canada |
| 22-007-X | Cereals and Oilseeds Review |
| 22-008-X | Canadian Potato Production |
| 23-603-X | Livestock Statistics |
| 23-202-X | Production of Poultry and Eggs |
| 21-007-X | Farm Product Price Index |

Data revisions

Annual estimates of the value of inventory change are published twice each year, at the end of May and at the end of November. In May, data for the previous two calendar years are subject to revision. In November, data for the previous three years may be revised. Every five years a historical revision is done based on the results of the Census of Agriculture. The results of the latest intercensal revision, based on the 2006 Census of Agriculture, have been included with the **November 2008** publication, catalogue no. 21-010-X, vol.7, no.2, and apply to the period 1997 to 2007.

An indication of the expected size of revisions to the value of inventory change can be provided by a statistic known as Theil's Root Mean Square Prediction Error (RMSPE). This statistic represents the average percent difference between the initial and current estimates during the period in question. For example, the table below indicates that, from 1994 to 2003, the value of inventory change at the Canada level has so far been revised, either up or down, by 55.5% from the first published estimate.

Further information on Theil's RMSPE is available from **A Description of Theil's RMSPE Method in Agricultural Statistical Forecasts**, Stuart Pursey, Working Paper #1, Agriculture Division, Statistics Canada, 1980.

Farm operating expenses

National and provincial level estimates of farm operating expenses and depreciation charges from 1981 to date are included in this publication. The estimates present gross expenses and rebates (where applicable) are shown for each item. Gross expenses, net expenses and rebates are available on CANSIM.

Preliminary estimates of a calendar year are published in May of the following year (i.e. five months after the end of the reference year). The November issue revises these estimates to incorporate data received too late to be included in the first release, data revisions received from administrative source agencies, and to incorporate estimates from the Taxation Data Program (TDP), based on 60 to 90% of the sample. Updates based on the 100% TDP sample are incorporated into the issue released the following May (i.e. 17 months after the end of the reference year).

Concepts

Estimates of farm operating expenses represent business costs incurred by farm operators for goods and services used in the production of agricultural commodities. All expense information is on a calendar year basis. If direct rebates are paid to farmers to reduce the cost of particular inputs, then the net expense estimates are used in the preparation of net income, although both gross and net expenses may be displayed. As the objective is to produce provincial estimates of net income, flows from one farm to another are excluded from the estimates. The province can be viewed as one large farm.

Methods and data quality

Preliminary estimates of each farm operating expense except interest, irrigation, livestock and poultry purchases, crop and hail insurance, and stabilization premiums are obtained by applying price and quantity indicators to the previous year's final estimates. Prior to 1991, most of the final estimates of farm operating expenses came from the National Farm Survey (NFS) and a sample of farmers' income tax records for unincorporated farms outside of the Prairies. From 1991 to date, the Taxation Data Program (TDP) is the main data source. The first sets of estimates, based on a 60 to 90% TDP sample, are published in the November issue of the following year. Estimates based on the complete TDP sample are published in the May issue, 17 months after the end of the reference year.

On average, during non-intercensal review periods, revisions are within 2% of the original estimate, and may cover three years preceding the reference year for the November issue, and two years for the May release.

Revisions are also incorporated into this series after the results of each Census of Agriculture have been reviewed. Concepts, methods and format may also be changed at this time, to provide a historical time series which is methodologically and conceptually consistent. The most recent intercensal reviews have resulted in revisions to the estimate of total gross farm operating expenses, at the Canada level, of 1.2%. The Census of Agriculture is also the source used to split total wages into family and non-family wages.

For information about intercensal revisions, please refer to **Farm operating expenses and depreciation charges** - **Agriculture economic statistics**, Catalogue no. 21-012-X, vol.7, no.2.

To obtain detailed technical information on the data quality of the Taxation Data Program, whose estimates form the base of this series, users can refer either to the introductory page or to Statistics on Revenues and Expenses of Farms, Catalogue no. 21-208-X.

For the other expense items (interest, irrigation, livestock and poultry purchases, crop and hail insurance, and stabilization premiums), preliminary estimates of the previous calendar year are published in the May Agriculture Economic Statistics (AES) and includes all data received from source agencies or Statistics Canada sources at the time of release. The November issue revises these to incorporate changes made by the source agencies, and to accommodate data received too late to be included in the first release.

Concepts

Depreciation charges against the farm business are intended to account for economic depreciation or the loss in fair market value of the capital assets. Generally, depreciation is considered to occur as a result of ageing, wear and tear, and obsolescence. It represents the value of capital which is no longer available for future use. Economic depreciation should not be confused with accounting depreciation, tax depreciation, or capacity depreciation.

Building depreciation estimates the depreciation of farm buildings on owner occupied farms, including the farm business share of houses. The charge for building depreciation on tenant occupied farms is assumed to be included in the cost of cash or share rent. Machinery depreciation estimates the depreciation of the farm business share of autos and trucks and the depreciation of other machinery, which are owned by the farm business. Autos, trucks and machinery, which the farmer leases, are not depreciated.

Methods and Data Quality

The depreciation on farm buildings is based on the value of farm land and buildings. Provincial owner-occupied proportions are derived from the Census of Agriculture estimates of land tenure. The building depreciation expenses are revised from 1997 to 2007 using the Farm Credit Corporation (FCC) farmland sales data to adjust the building/land value split. Unlike the FCC data, the Census of Agriculture does not separate the value of buildings from the value of land. The FCC sales data are used in combination with information from the Census of Agriculture on the value of land and buildings and land tenure to derive the building/land value splits by province. The proportions of houses and other buildings to land are derived from the special 1958 Farm Income and Expenditure Survey, with some adjustments prior to 1984 to account for changes in the proportions over time.

The business share of the house was based on tax allowances and expert opinion. These proportions are used to derive the owner-occupied farm business share of the value of farm houses and other buildings. Depreciation is calculated using the declining balance method where the appropriate capital value is multiplied by the depreciation rate. The depreciation rate is 2% for farm houses and 5% for other buildings. It would take 80 and 31 years, respectively, to depreciate 80% of the value from any particular year, using the declining balance method.

Depreciation of autos, trucks and other farm machinery are based on their respective capital value series, using the declining balance method. Depreciation rates vary by province, but range between 9% and 17%. It would take approximately 17 and 9 years, respectively, to depreciate 80% of the value from any particular year, using this method. Only the farm business portion of depreciation on autos or trucks is included. The business share of the autos and trucks was based on tax allowances and expert opinion.

An analysis of the quality of depreciation data was done in 1994. Weaknesses which were identified and remain unresolved include: the use of the change in value of farm land and buildings to estimate farm building depreciation; the use of a conceivably outdated 1958 survey as a coherence adjustment; the omission of fencing as depreciable capital; and the use of indirect sources of information on the proportion of owned assets to total assets. A report on the results of this analysis was prepared and is available on request.

Leasing of automobiles, trucks and farm machinery

Beginning in the early 1990's, the leasing of vehicles and farm machinery became increasingly common. That portion of the value of autos, trucks and farm machinery that was being leased by farmers was removed from the depreciation calculation.

Intercensal Revisions

Background

On November 24, 2008, the Agriculture Division released revisions from 1997 to 2007 for the Agriculture financial accounts, including: farm cash receipts, operating expenses, net cash income, income in kind, depreciation, value of inventory change and farm capital value.

The revisions were made to align with the results from the 2006 Census of Agriculture and to improve coverage, estimation methods, concepts and sources.

Impact of Revisions on 2005 Data

Farm Cash Receipts

Total Farm Cash Receipts: -\$55.1 million (-0.1%) Total crop receipts: +\$17.1 million (+0.1%) Total livestock receipts: -\$72.2 million (-0.4%) Direct program payments: \$0 million (0.0%)

Farm Operating Expenses

Total Farm Operating Expenses: -\$365.3 million (-1.2%) Commercial feed expenses: -\$190.9 million (-4.4%) Share Rent: -\$166.4 million (-40.2%) Livestock and poultry purchase expenses: +\$101.1 million (+7.2%) Fertilizer and lime expenses: -\$74.2 million (-2.9%) Cash wage expenses: -\$67.1 million (-1.7%) Pesticide expenses: +\$62.1 million (+3.7%) Property taxes: -\$48.3 million (-6.9%)

Machinery repair expenses: -\$43.9 million (-2.0%)

Net Cash Income

Net cash income: +\$310.2 million (+4.9%)

All comparisons are made for the calendar year 2005, which allowed the comparison of published data with the results of the 2006 Census of Agriculture and a complete Taxation Data Program sample. Differences were calculated by comparing the estimates published in November 2008 (after revision) with those published in May 2007 (before revision).

Justifications for the Revisions

Farm Cash Receipts

Nursery receipts – Coherence adjustments to the 2006 Census of Agriculture

Revisions were made to remove resale from nursery receipts. This was done to avoid double-counting as purchases for resale were removed from the expenses during Census validation.

Revisions were also due to the incorporation of data from the Horticulture Section which had been reconciled to the 2006 Census of Agriculture.

Impact on:

Nursery receipts: -\$131.6 million (-25.3%)

Total farm cash receipts: (-0.4%)

Hay and clover receipts - Improved estimation method and data sources.

Hay and clover receipts were revised due to an improved estimation method using new data sources.

Impact on:

Hay and clover receipts: +\$123.6 million (+88.3%)

Total farm cash receipts: (+0.3%)

Miscellaneous livestock receipts – Inclusion of commodities previously published separately and coherence adjustments to the 2006 Census of Agriculture

The miscellaneous livestock category accounts for commodities which are not estimated individually in the farm cash receipts series. Most of the upward revision was due to the inclusion of commodities that were previously published separately (PMU, wool, embryos and horses). Revisions were also due to updating the percentages used to estimate miscellaneous livestock categories which were identified on the 2006 Census of Agriculture.

Impact on:

Miscellaneous livestock receipts: +\$83.6 million (+24.9%)

Total farm cash receipts: (+0.2%)

Floriculture receipts – Coherence adjustments to the 2006 Census of Agriculture

Revisions were made to remove from floriculture receipts the purchases for resale. This was done to avoid double-counting as purchases for resale were removed from the expenses during Census validation. Prior to this revision, only a portion of the purchases for resale were removed: the purchase for resale within the province.

Revisions were also due to the incorporation of data from the Horticulture Section which had been reconciled to the 2006 Census of Agriculture.

Impact on:

Floriculture receipts: -\$58.7 million (-4.6%)

Total farm cash receipts: (-0.2%)

Hog receipts - Coherence adjustments to the 2006 Census of Agriculture

Revisions were due to the incorporation of data from the Livestock Section balance sheets which had been reconciled with the 2006 Census of Agriculture. Price revisions were also incorporated as assumptions and deductions were updated.

Impact on:

Hog receipts: - \$52.6 million (-1.3%)

Total farm cash receipts: (-0.1%)

Cattle and calves receipts – Coherence adjustments to the 2006 Census of Agriculture

Revisions were due to the incorporation of data from the Livestock Section balance sheets which had been reconciled with the 2006 Census of Agriculture. Also, average weights/head for interprovincial movement of cattle and calves were updated.

Impact on:

Cattle receipts: +\$27.8 million (+0.5%)

Calf receipts: +\$3.6 million (+0.5%)

Total farm cash receipts: (+0.1%)

Blueberry receipts – Coherence adjustments to the 2006 Census of Agriculture

Revisions were due to the incorporation of data from the Horticulture Section which had been reconciled to the 2006 Census of Agriculture.

Impact on:

Blueberry receipts: +\$34.5 million (+25.7%)

Total farm cash receipts: (+0.1%)

Canola receipts - Coherence adjustments to the 2006 Census of Agriculture

Revisions were due to the incorporation of data from the Crops Section supply-disposition tables which had been reconciled to the 2006 Census of Agriculture.

Impact on:

Canola receipts: -\$29.2 million (-1.6%)

Total farm cash receipts: (-0.1%)

Farm Operating Expenses

Commercial feed expenses

Revisions are the result of a coherence adjustment to the 2006 Census of Agriculture. The glut of feed wheat and course grains held by producers in 2005 was considered to be one reason for the reduced use of commercial feed in some provinces. Moreover, there were some cases in which large operations have built their own feed mill for purposes of processing the feed used on its operation and contract farms between 2001 and 2006. This would lower the level of commercially-purchased feed required by these operations.

Impact on:

Commercial feed expenses: -\$190.9 million (-4.4%)

Total operating expenses: (-0.6%)

Share rent expenses

The downward revisions made to the share rent estimates were primarily based on the 2006 CEAG results concerning the question asking respondents to report the amount of land crop-shared from others. The amount of land crop-shared from others fell by a third over the period in question (2001 to 2006).

Due to lack of data, the amount land crop-shared had been assumed to be constant while annual variation in yields and prices were used to move the estimate during non-CEAG years.

Impact on:

Share Rent expenses: -\$166.4 million (-40.2%)

Total operating expenses: (-0.5%)

Livestock and poultry purchase expenses

Revised interprovincial and international import data from the Livestock Section's balance sheets were incorporated. The transportation costs associated with cattle and calves purchases from 2001 to 2007 were also revised.

Impact on:

Livestock and poultry purchase expenses: +\$101.2 million (+7.2%)

Total operating expenses: (+0.3%)

Fertilizer expenses

Revisions were made to align the fertilizer expense estimate with that of the 2006 Census of Agriculture. In general, annual fertilizer price changes had suggested higher increases in such expenses.

Impact on:

Fertilizer expenses: -\$74.2 million (-2.9%)

Total operating expenses: (-0.2%)

Cash wages

Revisions were made as the estimate was aligned with that of the 2006 Census of Agriculture. Some annual change indicators were showing higher increases in most provinces than the five-year change rates recorded by the Census of Agriculture.

Impact on:

Cash wages: -\$67.1 million (-1.7%)

Total operating expenses: (-0.2%)

Pesticide expenses

Revisions are the result of coherence adjustment to the 2006 Census of Agriculture. The continued trend towards no-till seeding has led to increased usage of pesticides.

Impact on:

Pesticide expenses: +\$62.1 million (+3.7%)

Total operating expenses: (+0.2%)

Property Tax expenses

Revisions were made to remove taxes paid on land rented to other producers. This is done to reduce the possibility that these expenses are double-counted as such costs would also be reflected in the cash rent estimate. Hence, property tax expenses are conceptually confined to owned and operated land.

Impact on:

Property Taxes: -\$48.1 million (-6.9%)

Total operating expenses: (-0.2%)

Machinery repairs

Revisions were made as the estimate was aligned with the 2006 Census of Agriculture estimate and the 2005 estimate from the Taxation Data Project.

Impact on:

Machinery repairs: -\$43.9 million (-2.0%)

Total operating expenses: (-0.1%)

Net Cash Income

The impact of coherence adjustment to the 2006 Census of Agriculture and improved coverage, estimation methods, concepts and sources resulted in an upward revision in net cash income of 4.9%. Most of the +\$310.2 million revision can be attributed to the expenses component of the ledger as it fell \$365.3 million, while farm cash receipts decreased \$55.1 million.

Income in Kind

Total Income in Kind: -\$91.8 million (-62.5%)

Depreciation

Total Depreciation: +\$185.4 million (+4.0%)

The building depreciation expenses are revised from 1997 to 2007 using the Farm Credit Corporation (FCC) farmland sales data to adjust the building/land value split. Unlike the FCC data, the Census of Agriculture does not separate the value of buildings from the value of land. The FCC sales data are used in combination with information from the Census of Agriculture on the value of land and buildings and land tenure to derive the building/land value splits by province.

Revisions to machinery depreciation expenses were the result of aligning machinery values to the 2006 Census of Agriculture estimates.

Realized Net Income

Realized Net Income: +\$33.0 million (+1.8%)

The revision process produced a 1.8% increase in realized net income. The \$310.2 million increase in net cash income more than offset the \$185.4 million upward revision in depreciation expenses.

Text table 1 Realized net income

| Components | millions of dollars | percent |
|---------------------|---------------------------|---------|
| Net Cash Income | 310.2 | 4.9 |
| Depreciation | 185.4 | 4.0 |
| Income in Kind | -91.8 | -62.5 |
| Realized Net Income | 33.0 | 1.8 |

Value of Inventory Change

Total Value of Inventory Change: -\$70.5 million (-10.9%)

Total Net Income

Total Net Income: -\$37.5 million (-1.5%)

The revisions decreased the total net income by -1.5% as the upward revision in realized net income was more than offset by the downward revision in the value of inventory change.

Text table 2

Impact of intercensal revisions by province, 2005

| | Before revisions | After revisions | Change |
|--|---------------------------------------|---------------------------------------|----------------------|
| | Tevisions | TEVISIONS | |
| | thousands of dollars | | percent |
| Canada Farm Cash Receipts Farm Operating Expenses Net Cash Income | 36,798,628 30,496,233 6,302,395 | 36,743,561 30,130,977 6,612,584 | -0.1 -1.2 4.9 |
| Newfoundland and Labrador Farm Cash Receipts Farm Operating Expenses Net Cash Income | 91,009 84,570 6,439 | 90,133 79,206 10,927 | -1.0 -6.3 69.7 |
| Prince Edward Island Farm Cash Receipts Farm Operating Expenses Net Cash Income | 367,904 329,689 38,215 | 373,181 310,044 63,137 | 1.4 -6.0 65.2 |
| Nova Scotia Farm Cash Receipts Farm Operating Expenses Net Cash Income | 460,809 386,313 74,496 | 467,490 367,070 100,420 | 1.4 -5.0 34.8 |
| New Brunswick Farm Cash Receipts Farm Operating Expenses Net Cash Income | 433,201 374,693 58,508 | 437,941 360,176 77,765 | 1.1 -3.9 32.9 |
| Quebec Farm Cash Receipts Farm Operating Expenses Net Cash Income | 6,189,169 5,004,255 1,184,914 | 6,222,088 4,876,993 1,345,095 | 0.5 -2.5 13.5 |
| Ontario Farm Cash Receipts Farm Operating Expenses Net Cash Income | 8,944,607 7,495,043 1,449,564 | 8,911,087 7,381,178 1,529,909 | -0.4 -1.5 5.5 |
| Manitoba Farm Cash Receipts Farm Operating Expenses Net Cash Income | 3,804,926 3,055,288 749,638 | 3,804,476 3,011,675 792,801 | 0.0 -1.4 5.8 |
| Saskatchewan Farm Cash Receipts Farm Operating Expenses Net Cash Income | 6,262,549 5,265,339 997,210 | 6,209,683 5,140,220 1,069,463 | -0.8 -2.4 7.2 |
| Alberta Farm Cash Receipts Farm Operating Expenses Net Cash Income | 7,854,045 6,459,718 1,394,327 | 7,855,071 6,571,364 1,283,707 | 0.0 1.7 -7.9 |
| British Columbia Farm Cash Receipts Farm Operating Expenses Net Cash Income | 2,390,445 2,041,325 349,120 | 2,372,451 2,033,051 339,400 | -0.8 -0.4 -2.8 |

Net cash income comparison

The net cash income estimates published in the Net Farm Income - Agriculture Economic Statistics (21-010-X) are the official Statistics Canada (STC) estimates. Other estimates of net cash income (farm cash receipts less operating expenses) can be derived from the STC Agriculture Division – namely those of the Canadian Agricultural Income Stabilization (CAIS) and Taxation Data Program (TDP), the Farm Financial Survey (FFS, 21F0008X) and the Census of Agriculture. It is important to understand data sources, coverage and conceptual differences when comparing data collected for different purposes. Adjustments are required to make these estimates comparable.

1. Sources

a) Net Farm Income - Agriculture Economic Statistics (AES)

The official series of measures of net cash income are published in the AES electronic publication. The net cash income series measures the aggregate earnings of all agricultural businesses from the production of agricultural goods at the provincial and national level. Annual estimates are established from a wide variety of surveys and administrative data on crop and livestock production and inventories, quantity marketed, average farm prices, program payments, agricultural expenses and rebates. For some variables – especially those on the expense side of the ledger, Census of Agriculture, CAIS/TDP and FFS estimates are used either as benchmarks or indicators of annual changes.

b) Canadian Agricultural Income Stabilization and Taxation Data Program (CAIS/TDP)

The CAIS/TDP estimates a range of financial variables, including revenue and expenses from a total sample of over 180,000 tax filer records which includes records from both incorporated and unincorporated operations. The CAIS/TDP publishes annual average estimates by farm type, sales classes and sub-provincial regions.

The CAIS/TDP publishes information representing all individual tax filers who reported total farm operating revenues of \$10,000 or more on their income tax return and agricultural corporations reporting total farm operating revenues of \$25,000 and over, and for which 50% or more of their sales come from agricultural activities. Data on unincorporated farms reporting total operating revenues below \$10,000 are available but these are not included in the CAIS/TDP publication because of the lower quality of these estimates.

c) Farm Financial Survey (FFS)

The annual FFS is another source of financial information collected from a sample of about 14,000 farms. (This survey was biennial prior to the 2003 FFS.) The sample includes both incorporated and unincorporated farms with annual sales from agricultural activities exceeding \$10,000 (\$2,000 prior to 1998). This survey collects total gross receipts from program payments and the sales of agricultural products grouped by major categories (e.g., grains and oilseeds, horticulture) as well as total expenses (excluding depreciation) along with detail on crop, livestock and machinery expenses, interest expenses, wages and crop insurance premiums. The FFS program produces average estimates of primarily financial balance sheet items including details on income and expenses at the provincial level by sales class and farm type.

d) Census of Agriculture

Every five years, the Census of Agriculture collects a wide variety of data, including total gross farm receipts and operating expenses by category, on all farm operations in Canada producing agricultural products with the intention of selling them. The Census of Agriculture publishes estimates of total gross farm receipts and operating expenses by farm type, sales classes and sub-provincial regions.

2. Conceptual Differences

a) Net Farm Income - Agriculture Economic Statistics (AES)

AES estimates include all agricultural businesses. These data are not available by farm type, sales classes, sub-provincial regions or at the micro level.

Receipts and expenses are estimated by calendar year. They are recorded on a cash basis when the money is paid to or disbursed by the farmer.

AES receipts and expenses exclude: income earned from non-agricultural use of the farm (e.g., income from tourism activities on farm); income that farm operators or their families receive from other sources (e.g., wages and salaries from non-agricultural activities, and investment income); revenue or expenses from the sale or purchase of farm capital (real estate, machinery and equipment), although the interest paid on these purchases is included as an expense; capital payments where funds do not relate to current production and transfer payments (such as training allowances) directed to individuals; unlike the CAIS/TDP, FFS and Census of Agriculture, AES estimates exclude farm-to-farm transactions, unless they occur across provincial or national borders. Within a province, sales from one farm are considered an expense to another, thus offsetting each other.

b) Canadian Agricultural Income Stabilization /Taxation Data Program (CAIS/TDP)

The CAIS/TDP estimates represent all individual tax filers who reported total farm operating revenues of \$10,000 or more on their income tax return and agricultural corporations reporting total farm operating revenues of \$25,000 and over, and for which 50% or more of their sales come from agricultural activities.

Some non-farmers may be present on the CAIS/TDP database (e.g., someone reporting farm income from a crop share agreement but not involved in a farming operation).

The estimates are published on a calendar year basis but no attempt is made to adjust data from agricultural corporations reporting data on a fiscal year that may not coincide with a calendar year.

The CAIS/TDP "Total Operating Revenues" includes revenues from "Custom Work and Machine Rental" and "Rental Income" which are not included in the AES farm cash receipts.

c) Farm Financial Survey (FFS)

The sample includes both incorporated and unincorporated farms with annual sales from agricultural activities exceeding \$10,000 (\$2,000 prior to 1998). Like the CAIS/TDP, no adjustment is made to agricultural corporations reporting data on a fiscal year that may not coincide with the calendar year period.

The FFS "Total Gross Farm Receipts" includes agricultural custom work receipts that are not directly accounted for in the AES farm cash receipts. The treatment of "custom work" is similar to the CAIS/TDP.

d) Census of Agriculture (CEAG)

The CEAG collects data from any farm operation producing agricultural products with the intention of selling them. Data are generally provided on a calendar year basis, or for a complete fiscal year.

Unlike the AES, CEAG data on receipts include dividends received from co-operatives, Goods and Service Tax (GST) refunds, custom work receipts, and rebates received.

3. Comparison of estimates

Conceptual and methodological differences and data collection methods can result in misleading comparisons between AES receipts or expenses series and total income or expenses derived from CAIS/TDP, FFS or Census of Agriculture data. The exclusion of farm-to-farm transactions within a province in the AES and their inclusion in the CAIS/TDP, FFS and CEAG datasets is the main reason making the comparison difficult. However, net cash income estimates (farm cash receipts less operating expenses) are more directly comparable since, within a province, sales from one farm is an expense to another farm, thus offsetting each other.

As is the case with farm-to-farm sales, some receipt items not included in the AES receipt series would tend to cancel each other out when deriving net cash income estimates from the various sources. For example, the exclusion of custom work receipts in AES receipts is compensated to a large extent in the net income estimates by the use of a net custom work estimate (custom work expenses – custom work receipts) in the AES expense series. The subtraction of custom work receipts from custom work expenses is done in an attempt to minimize - in the aggregate - the presence in the AES of operating costs incurred by agricultural producers in providing custom work services. In a less precise manner, one could expect the CAIS/TDP estimates for the components of "miscellaneous revenue" and "miscellaneous farm expenses" not included in the AES series to offset each other to some degree.

The CAIS/TDP publishes average receipts and expenses only for farms reporting total farm operating revenues of \$10,000 or more on their income tax return and agricultural corporations reporting total farm operating revenues of \$25,000 and over, and for which 50% or more of their sales come from agricultural activities. For purposes of comparisons with the AES, estimations for the unincorporated farms reporting total operating revenues below \$10,000 are used internally in spite of the lower quality of these estimates.

4.Results

Text table 1

Net cash income comparison — Total

| | 2005 | | | | | |
|---------------------------|----------------------|------------------|-------------------|------------------|--|--|
| | AES ¹ | TDP ² | CEAG ¹ | FFS ³ | | |
| _ | thousands of dollars | | | | | |
| Newfoundland and Labrador | 10,927 | 10,917 | 15,075 | 9,968 | | |
| Prince Edward Island | 63,137 | 44,574 | 41,514 | 43,789 | | |
| Nova Scotia | 100,420 | 79,013 | 75,164 | 74,749 | | |
| New Brunswick | 77,765 | 75,914 | 75,764 | 57,212 | | |
| Quebec | 1,345,095 | 1,285,574 | 1,402,029 | 1,281,848 | | |
| Ontario | 1,529,909 | 1,281,894 | 1,516,718 | 1,248,139 | | |
| Manitoba | 792,801 | 547,833 | 587,457 | 377,409 | | |
| Saskatchewan | 1,069,463 | 889,143 | 761,529 | 563,995 | | |
| Alberta | 1,283,707 | 1,216,444 | 1,104,029 | 947,287 | | |
| British Columbia | 339,400 | 239,810 | 285,109 | 302,199 | | |
| Canada | 6,612,584 | 5,671,115 | 5,864,388 | 4,906,595 | | |

1. The Agriculture economic statistics (AES) and the Census of agriculture (CEAG) cover all agricultural holdings. For comparison purposes, the Canada total is the sum of the provincial totals.

2. Adjusted to include unincorporated farms with total farm operating revenues lower than \$10,000. Does not include agricultural corporations with total operating revenues below \$25,000.

3. Does not include farms with total operating revenues below \$10,000.

Text table 2 Net cash income comparison — Absolute difference

| | 2005 | | | | |
|---------------------------|----------------------|--------------------|-------------------|--|--|
| | (TDP ¹ | (CEAG ² | (FFS ³ | | |
| | AES) | AES) | AES) | | |
| | thousands of dollars | | | | |
| Newfoundland and Labrador | -10 | 4,158 | -959 | | |
| Prince Edward Island | -18,563 | -3,060 | -19,348 | | |
| Nova Scotia | -21,407 | -3,849 | -25,671 | | |
| New Brunswick | -1,851 | -150 | -20,553 | | |
| Quebec | -59,521 | 116,455 | -63,247 | | |
| Ontario | -248,015 | 234,824 | -281,770 | | |
| Manitoba | -244,968 | 39,624 | -415,392 | | |
| Saskatchewan | -180,320 | -127,614 | -505,468 | | |
| Alberta | -67,263 | -112,415 | -336,420 | | |
| British Columbia | -99,590 | 45,299 | -37,201 | | |
| Canada | -941,469 | 193,273 | -1,705,989 | | |

Taxation data program (TDP) minus the Agriculture economic statistics (AES) divided by the Agriculture economic statistics (AES).
 Census of agriculture (CEAG) minus the Agriculture economic statistics (AES) divided by the Agriculture economic statistics (AES).
 Farm Financial Survey (FFS) minus the Agriculture economic statistics (AES).

Text table 3 Net cash income comparison — Relative difference

| | 2005 | | | | | |
|---------------------------|-------------------|--------------------|-----------------|--|--|--|
| | (TDP ¹ | (CEAG ² | (FFS | | | |
| | - AES / | - AES / AES) | - AES / AES) | | | |
| | AES) | AES) | AES) | | | |
| | percent | | | | | |
| Newfoundland and Labrador | -0.1 | 38.1 | -8.8 | | | |
| Prince Edward Island | -29.4 | -4.8 | -30.6 | | | |
| lova Scotia | -21.3 | -3.8 | -25.6 | | | |
| lew Brunswick | -2.4 | -0.2 | -26.4 | | | |
| Quebec | -4.4 | 8.7 | -4.7 | | | |
| Ontario | -16.2 | 15.3 | -18.4 | | | |
| Ianitoba | -30.9 | 5.0 | -52.4 | | | |
| Saskatchewan | -16.9 | -11.9 | -47.3 | | | |
| Iberta | -5.2 | -8.8 | -26.2 | | | |
| British Columbia | -29.3 | 13.3 | -11.0 | | | |
| Canada | -14.2 | 2.9 | -25.8 | | | |

1. Taxation data program (TDP) minus the Agriculture economic statistics (AES) divided by the Agriculture economic statistics (AES).

2. Census of agriculture (CEAG) minus the Agriculture economic statistics (AES) divided by the Agriculture economic statistics (AES).

3. Farm Financial Survey (FFS) minus the Agriculture economic statistics (AES) divided by the Agriculture economic statistics (AES).

5. Conclusion:

Comparing data collected for different purposes is not an easy task. It is extremely difficult to identify precisely what causes the discrepancies at the aggregate level. There will be always discrepancies due to differences in coverage, accounting methods, fiscal years as well as the edit, imputation and estimation methods of the survey, census or administrative data. These differences are often compounded in an estimate, such as net cash income, that is measured residually. The intercensal revisions conducted after the release of the 2006 Census of Agriculture reduced the discrepancies with the CAIS/TDP at the national level.

Impact of using the North American Industry Classification System (NAICS)

Statistics Canada has been using the 1980 Standard Industrial Classification system (SIC) for collecting, compiling and disseminating economic statistics on Canada's businesses. Beginning with the 1997 reference year, the North American Industry Classification System (NAICS), which includes hatcheries and farms with only Christmas trees in the agricultural sector, was introduced. The impact of this added less than 1% to farm cash receipt and total operating expenses.

Changes to 1997 Farm Cash Receipts

Classification changes affected receipts for three commodities. Christmas trees were added as a new commodity using the National Forestry Database, Taxation Data Program, and the 1996 Census of Agriculture to derive estimates. Hatchery receipts were estimated using Agriculture and Agri-Food Canada data on interprovincial movements and exports of chicks and poults and prices from several sources. With hatcheries becoming part of the agricultural sector, receipts from the sales of eggs to hatcheries in the same province are now considered inter-farm sales and are removed from the estimate. Only sales to hatcheries outside of the province are counted.

Farm cash receipts were 0.2% lower as a result of the classification changes. The addition of Christmas tree and hatchery (chicks and poults) receipts was more that offset by the removal of inter-farm sales of hatching eggs.

Impact on Farm Cash Receipts:

- Christmas tree receipts: +\$58.5 million
- Hatchery receipts: +\$30.6 million
- · Eggs for hatching receipts: -\$141.0 million
- Net impact: -\$51.9 million

Changes to 1997 Farm Operating Expenses

Operating expenses (wages, fuel, electricity, etc.) of hatcheries and farm operations with only Christmas trees were added to the expenses. The bases for these estimates were the 1996 Census of Agriculture and the Taxation Data Program. With hatcheries becoming part of the agriculture sector, poultry purchase expenses fell. Intraprovincial purchases of both eggs by hatcheries and chicks by poultry and egg farms became interfarm purchases and were removed from the estimate. Data on interprovincial movements and imports of chicks and poults provided by Agriculture and Agri-Food Canada were used to remove these interfarm purchases.

These changes resulted in a 0.2% drop in operating expenses after rebates.

Impact on Farm Operating Expenses:

- additional operating expenses: +\$267.8 million
- changes to poultry purchases: -\$326.3 million
- Net impact: -\$58.5 million

Changes to 1997 Net Cash Income

The overall impact of the inclusion of hatcheries and farms specializing in Christmas tree production increased net cash income by 0.1 %. The magnitude of the impact should not be interpreted as the sum of net cash income from hatcheries and farms with only Christmas tree operations. Many expense estimates are based on farm-level data from the Census of Agriculture and the Taxation Data Program. Due to the difficulty in identifying and removing expenses related to hatchery and Christmas tree production on farms that produce other commodities, some expenses associated with this production were already in the estimates prior to the introduction of NAICS. As well, some receipts from hatchery and operations with only Christmas trees (e.g., program payments, poultry and egg receipts in the case of integrated hatchery operations) will have already been included in the pre-NAICS data series.

Accordingly, in those provinces where the impact of implementing NAICS is negative, the inference should not be made that hatchery and operations with only Christmas trees are receiving negative cash flows. The negative impact is more likely a factor of more receipts than expenses being included in the SIC-based estimates.

Other Changes

Based on capital value data from the 1996 Census of Agriculture, depreciation charges increased by less than 1% as a result of the introduction of NAICS.

Text table 1

Impact of including NAICS on receipts, expenses and net cash income

| | | 1997 | | | | | | | |
|--|--|---|---|--|---|--|---|--|--|
| | Farm | Farm cash receipts | | Farm operating expenses | | Net | | | |
| | Receipts added | Interfarm sales (eggs for hatching) | Total change | Expenses added | Interfarm purchases (eggs and chicks) | Total change | cash income total change | | |
| | | millions of dollars | | | | | | | |
| Altantic provinces Quebec Ontario Manitoba Saskatchewan Alberta British Columbia | 22,371 32,114 24,159 5,958 701 1,795 1,975 | -10,218 -40,118 -42,450 -7,616 -4,311 -16,163 -20,146 | 12,153 -8,004 -18,291 -1,658 -3,610 -14,368 -18,171 | 28,509 89,166 107,308 11,998 4,055 14,463 12,330 | -13,313 -83,892 -115,600 -22,634 -6,925 -36,176 -47,794 | 15,196 5,274 -8,292 -10,637 -2,870 -21,713 -35,464 | -3,043 -13,278 -9,999 8,979 -740 7,345 17,293 | | |
| Canada | 89,073 | -141,022 | -51,949 | 267,828 | -326,333 | -58,505 | 6,556 | | |