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20120420 - Referential CAD based on CPI

[Technology] [[<Normal page](#)] [**PEREZGONZALEZ Jose D (2011)**. *Referential CAD based on CPI*. Journal of Knowledge Advancement & Integration ([ISSN 1177-4576](#)), 2012, pages 133-136.]

Referential CAD

The following table provides the inflator/deflator multiplier for calculating [referential Canadian dollars](#) (rCAD, r\$). It is based on the average annual CPI for Canada (*Statistics Canada, 2011¹*). The formula is the following:

$$\text{rCAD} = \text{nominal CAD} + (\text{nominal CAD} * \text{multiplier})$$

Year	CPI A.Avg	Base 2010	multiplier
1918	8.9	116.5	12.0899
1919	9.8	116.5	10.8878
1920	11.4	116.5	9.2193
1921	10.0	116.5	10.6500
1922	9.2	116.5	11.6630
1923	9.2	116.5	11.6630
1924	9.0	116.5	11.9444
1925	9.1	116.5	11.8022
1926	9.2	116.5	11.6630
1927	9.1	116.5	11.8022
1928	9.1	116.5	11.8022
1929	9.2	116.5	11.6630
1930	9.1	116.5	11.8022
1931	8.2	116.5	13.2073
1932	7.5	116.5	14.5333
1933	7.1	116.5	15.4085
1934	7.2	116.5	15.1806
1935	7.3	116.5	14.9589
1936	7.4	116.5	14.7432
1937	7.7	116.5	14.1299
1938	7.7	116.5	14.1299
1939	7.7	116.5	14.1299
1940	8.0	116.5	13.5625
1941	8.5	116.5	12.7059
1942	8.8	116.5	12.2386

1943	9.0	116.5	11.9444
1944	9.1	116.5	11.8022
1945	9.2	116.5	11.6630
1946	9.4	116.5	11.3936
1947	10.3	116.5	10.3107
1948	11.8	116.5	8.8729
1949	12.2	116.5	8.5492
1950	12.5	116.5	8.3200
1951	13.8	116.5	7.4420
1952	14.2	116.5	7.2042
1953	14.0	116.5	7.3214
1954	14.1	116.5	7.2624
1955	14.1	116.5	7.2624
1956	14.3	116.5	7.1469
1957	14.8	116.5	6.8716
1958	15.2	116.5	6.6645
1959	15.3	116.5	6.6144
1960	15.5	116.5	6.5161
1961	15.7	116.5	6.4204
1962	15.9	116.5	6.3270
1963	16.1	116.5	6.2360
1964	16.4	116.5	6.1037
1965	16.8	116.5	5.9345
1966	17.5	116.5	5.6571
1967	18.1	116.5	5.4365
1968	18.8	116.5	5.1968
1969	19.7	116.5	4.9137
1970	20.3	116.5	4.7389
1971	20.9	116.5	4.5742
1972	21.9	116.5	4.3196
1973	23.6	116.5	3.9364
1974	26.2	116.5	3.4466
1975	29.0	116.5	3.0172
1976	31.1	116.5	2.7460
1977	33.6	116.5	2.4673
1978	36.6	116.5	2.1831
1979	40.0	116.5	1.9125
1980	44.0	116.5	1.6477
1981	49.5	116.5	1.3535

1982	54.9	116.5	1.1220
1983	58.1	116.5	1.0052
1984	60.6	116.5	0.9224
1985	63.0	116.5	0.8492
1986	65.6	116.5	0.7759
1987	68.5	116.5	0.7007
1988	71.2	116.5	0.6362
1989	74.8	116.5	0.5575
1990	78.4	116.5	0.4860
1991	82.8	116.5	0.4070
1992	84.0	116.5	0.3869
1993	85.6	116.5	0.3610
1994	85.7	116.5	0.3594
1995	87.6	116.5	0.3299
1996	88.9	116.5	0.3105
1997	90.4	116.5	0.2887
1998	91.3	116.5	0.2760
1999	92.9	116.5	0.2540
2000	95.4	116.5	0.2212
2001	97.8	116.5	0.1912
2002	100.0	116.5	0.1650
2003	102.8	116.5	0.1333
2004	104.7	116.5	0.1127
2005	107.0	116.5	0.0888
2006	109.1	116.5	0.0678
2007	111.5	116.5	0.0448
2008	114.1	116.5	0.0210
2009	114.4	116.5	0.0184
2010	116.5	116.5	0.0000
2011	119.9	116.5	-0.0284
2012*	123.5	116.5	-0.0567
2013*	127.2	116.5	-0.0841
2014*	131.0	116.5	-0.1108
2015*	134.9	116.5	-0.1367
2016*	139.0	116.5	-0.1619
2017*	143.2	116.5	-0.1863
2018*	147.5	116.5	-0.2100
2019*	151.9	116.5	-0.2330
2020*	156.4	116.5	-0.2553

2021*	161.1	116.5	-0.2770
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(*It assumes a 3% inflation rate for each year after 2011. These multipliers should be substituted with their real inflation values as soon as they are known.)

References

1. **STATISTICS CANADA (2011)**. *Consumer Price Index, historical summary*. Retrieved from [Statistics Canada](#) on 16 April 2012.

Want to know more?

[Canadian dollar inflation calculator](#)

Handy online calculator for estimating the value of the Canadian dollar over time. The calculator includes the inflation for 2010; thus, using it as your base year, you can estimate historical referential Canadian dollars (rCAD, r\$) with easy. The calculator seems to select a particular month for comparison, rather than the annual average, so it may result in small differences in the final output.

[MeasuringWorth](#)

A handy website to learn about different inflation indexes and calculate the value of money according to those indexes.

[Wiki of Science - Referential currency \(list of topics\)](#)

This Wiki of Science page provides a list of topics related to referential currencies.

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