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[Technology] [[<Normal page](#)] [**PEREZGONZALEZ Jose D (2012)**. [Referential JPY based on CPI \(2012e\)](#)⁴. Knowledge (ISSN 2324-1624), 2013, pages 124-126.] [[DOI](#)]

Referential JPY

The following table provides the inflator/deflator multiplier for calculating [referential Japanese yen](#) (rJPY, r¥). It is based on the average annual CPI for Japan (*Rate Inflation, 2012*²). The formula is the following:

$$\text{rJPY} = \text{nominal JPY} + (\text{nominal JPY} * \text{multiplier})$$

Year	CPI A.Avg	Base 2010	multiplier
1970	32.7	100.0	2.0581
1971	34.8	100.0	1.8736
1972	36.4	100.0	1.7473
1973	40.7	100.0	1.4570
1974	50.1	100.0	0.9960
1975	56.0	100.0	0.7857
1976	61.3	100.0	0.6313
1977	66.2	100.0	0.5106
1978	69.0	100.0	0.4493
1979	71.6	100.0	0.3966
1980	77.2	100.0	0.2953
1981	81.0	100.0	0.2346
1982	83.2	100.0	0.2019
1983	84.7	100.0	0.1806
1984	86.7	100.0	0.1534
1985	88.4	100.0	0.1312
1986	89.0	100.0	0.1236
1987	89.1	100.0	0.1223
1988	89.7	100.0	0.1148
1989	91.7	100.0	0.0905
1990	94.5	100.0	0.0582
1991	97.6	100.0	0.0246
1992	99.3	100.0	0.0070
1993	100.5	100.0	-0.0050
1994	101.2	100.0	-0.0119

1995	101.1	100.0	-0.0109
1996	101.2	100.0	-0.0119
1997	103.0	100.0	-0.0291
1998	103.7	100.0	-0.0357
1999	103.4	100.0	-0.0329
2000	102.7	100.0	-0.0263
2001	101.9	100.0	-0.0186
2002	101.0	100.0	-0.0099
2003	100.7	100.0	-0.0070
2004	100.7	100.0	-0.0070
2005	100.4	100.0	-0.0040
2006	100.7	100.0	-0.0070
2007	100.7	100.0	-0.0070
2008	102.1	100.0	-0.0206
2009	100.7	100.0	-0.0070
2010	100.0	100.0	0.0000
2011	99.7	100.0	0.0030
2012	99.7	100.0	0.0030
2013*	102.7	100.0	-0.0262
2014*	105.8	100.0	-0.0546
2015*	108.9	100.0	-0.0821
2016*	112.2	100.0	-0.1088
2017*	115.6	100.0	-0.1348
2018*	119.0	100.0	-0.1600
2019*	122.6	100.0	-0.1845
2020*	126.3	100.0	-0.2082
2021*	130.1	100.0	-0.2313
(*It assumes a 3% inflation rate for each year after 2012. These multipliers should be substituted with their real inflation values as soon as they are known.)			

References

1. **PEREZGONZALEZ Jose D (2011)**. *Referential JPY based on CPI*. Journal of Knowledge Advancement & Integration ([ISSN 1177-4576](#)), 2012, pages 137-139.
2. **RATE INFLATION (2012)**. *Japanese Consumer Price Index (CPI) history*. Retrieved from [Rate Inflation](#) on 19 May 2013.
3. **STATISTICS BUREAU (2012)**. *2010-Base Explanation of the Consumer Price Index*. Ministry of Internal Affairs and Communication (Japan), 2012. Retrieved from [Ministry of Internal Affairs and Communication](#) on 19 May 2013.

+++ **Footnotes** +++

4. The 2012 edition updates the 2011 edition¹ with the official CPI values for that year. (Japan also changed its base year to 2010 - *Statistics Bureau, 2012*². However this does not affect the resulting r¥ once all figures are updated accordingly.)

Author

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Want to know more?

[MeasuringWorth - Japanese calculator](#)

A handy website to learn about different inflation indexes and calculate the value of Japanese money according to those indexes, although it stops at year 2009.

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

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

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