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## 20120421 - Referential JPY based on CPI

[Technology] [[<Normal page](#)] [**PEREZGONZALEZ Jose D (2011).** [Referential JPY based on CPI](#). Journal of Knowledge Advancement & Integration ([ISSN 1177-4576](#)), 2012, pages 137-139.]

### 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, 2011<sup>1</sup>*). The formula is the following:

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

| Year | CPI A.Avg | Base 2010 | multiplier |
|------|-----------|-----------|------------|
| 1970 | 32.5      | 99.6      | 2.0646     |
| 1971 | 34.6      | 99.6      | 1.8786     |
| 1972 | 36.3      | 99.6      | 1.7438     |
| 1973 | 40.5      | 99.6      | 1.4593     |
| 1974 | 49.9      | 99.6      | 0.9960     |
| 1975 | 55.8      | 99.6      | 0.7849     |
| 1976 | 61.0      | 99.6      | 0.6328     |
| 1977 | 66.0      | 99.6      | 0.5091     |
| 1978 | 68.7      | 99.6      | 0.4498     |
| 1979 | 71.3      | 99.6      | 0.3969     |
| 1980 | 76.9      | 99.6      | 0.2952     |
| 1981 | 80.6      | 99.6      | 0.2357     |
| 1982 | 82.8      | 99.6      | 0.2029     |
| 1983 | 84.4      | 99.6      | 0.1801     |
| 1984 | 86.3      | 99.6      | 0.1541     |
| 1985 | 88.1      | 99.6      | 0.1305     |
| 1986 | 88.6      | 99.6      | 0.1242     |
| 1987 | 88.7      | 99.6      | 0.1229     |
| 1988 | 89.3      | 99.6      | 0.1153     |
| 1989 | 91.3      | 99.6      | 0.0909     |
| 1990 | 94.1      | 99.6      | 0.0584     |
| 1991 | 97.2      | 99.6      | 0.0247     |
| 1992 | 98.9      | 99.6      | 0.0071     |
| 1993 | 100.1     | 99.6      | -0.0050    |
| 1994 | 100.8     | 99.6      | -0.0119    |

|                                                                                                                                                                 |       |      |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|---------|
| 1995                                                                                                                                                            | 100.7 | 99.6 | -0.0109 |
| 1996                                                                                                                                                            | 100.8 | 99.6 | -0.0119 |
| 1997                                                                                                                                                            | 102.6 | 99.6 | -0.0292 |
| 1998                                                                                                                                                            | 103.3 | 99.6 | -0.0358 |
| 1999                                                                                                                                                            | 103.0 | 99.6 | -0.0330 |
| 2000                                                                                                                                                            | 102.2 | 99.6 | -0.0254 |
| 2001                                                                                                                                                            | 101.5 | 99.6 | -0.0187 |
| 2002                                                                                                                                                            | 100.6 | 99.6 | -0.0099 |
| 2003                                                                                                                                                            | 100.3 | 99.6 | -0.0070 |
| 2004                                                                                                                                                            | 100.3 | 99.6 | -0.0070 |
| 2005                                                                                                                                                            | 100.0 | 99.6 | -0.0040 |
| 2006                                                                                                                                                            | 100.3 | 99.6 | -0.0070 |
| 2007                                                                                                                                                            | 100.3 | 99.6 | -0.0070 |
| 2008                                                                                                                                                            | 101.7 | 99.6 | -0.0206 |
| 2009                                                                                                                                                            | 100.3 | 99.6 | -0.0070 |
| 2010                                                                                                                                                            | 99.6  | 99.6 | 0.0000  |
| 2011                                                                                                                                                            | 99.7  | 99.6 | -0.0010 |
| 2012*                                                                                                                                                           | 102.7 | 99.6 | -0.0301 |
| 2013*                                                                                                                                                           | 105.8 | 99.6 | -0.0583 |
| 2014*                                                                                                                                                           | 108.9 | 99.6 | -0.0858 |
| 2015*                                                                                                                                                           | 112.2 | 99.6 | -0.1124 |
| 2016*                                                                                                                                                           | 115.6 | 99.6 | -0.1383 |
| 2017*                                                                                                                                                           | 119.0 | 99.6 | -0.1634 |
| 2018*                                                                                                                                                           | 122.6 | 99.6 | -0.1877 |
| 2019*                                                                                                                                                           | 126.3 | 99.6 | -0.2114 |
| 2020*                                                                                                                                                           | 130.1 | 99.6 | -0.2344 |
| 2021*                                                                                                                                                           | 134.0 | 99.6 | -0.2567 |
| (*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. **RATE INFLATION (2011).** Japan - Consumer Price Index (CPI) history. Retrieved from [Rate Inflation](#) on 17 April 2012.

## 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.

### [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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