

How can I use the COUPDAYBS function in Excel to calculate the number of days from the beginning of the coupon period to the settlement date?

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June 29, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I use the COUPDAYBS function in Excel to calculate the number of days from the beginning of the coupon period to the settlement date?*.

PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=158316>

The COUPDAYBS function in Excel is a useful tool for calculating the number of days between the beginning of a coupon period and the settlement date. This function takes into account the frequency of coupon payments and any possible adjustments for weekends and holidays. By providing the relevant parameters such as the settlement date, issue date, first coupon date, and frequency of coupon payments, the COUPDAYBS function can accurately determine the number of days from the start of the coupon period to the settlement date. This information can be helpful in financial analysis and planning, particularly in bond investments and other fixed income securities.

This article describes the formula syntax and usage of the **COUPDAYBS** function in Microsoft Excel.

Description

The COUPDAYBS function returns the number of days from the beginning of a coupon period until its settlement date.

Syntax

COUPDAYBS(settlement, maturity, frequency,)

Important: Dates should be entered by using the DATE function, or as results of other formulas or functions. For example, use DATE(2008,5,23) for the 23rd day of May, 2008. Problems can occur if dates are entered as text.

The COUPDAYBS function syntax has the following arguments:

Settlement Required. The security's settlement date. The security settlement date is the date after the issue date when the security is traded to the buyer.

Maturity Required. The security's maturity date. The maturity date is the date when the security expires.

Frequency Required. The number of coupon payments per year. For annual payments, frequency = 1; for semiannual, frequency = 2; for quarterly, frequency = 4.

Basis Optional. The type of day count basis to use.

Basis	Day count basis
0 or omitted	US (NASD) 30/360

Basis	Day count basis
1	Actual/actual
2	Actual/360
3	Actual/365
4	European 30/360

Remarks

Microsoft Excel stores dates as sequential serial numbers so they can be used in calculations. By default, January 1, 1900 is serial number 1, and January 1, 2008 is serial number 39448 because it is 39,448 days after January 1, 1900.

The settlement date is the date a buyer purchases a coupon, such as a bond. The maturity date is the date when a coupon expires. For example, suppose a 30-year bond is issued on January 1, 2008, and is purchased by a buyer six months later. The issue date would be January 1, 2008, the settlement date would be July 1, 2008, and the maturity date would be January 1, 2038, 30 years after the January 1, 2008, issue date.

All arguments are truncated to integers.

If settlement or maturity is not a valid date, COUPDAYBS returns the #VALUE! error value.

If frequency is any number other than 1, 2, or 4, COUPDAYBS returns the #NUM! error value.

If basis < 0 or if basis > 4, COUPDAYBS returns the #NUM! error value.

If settlement \geq maturity, COUPDAYBS returns the #NUM! error value.