

How can I use the MATCH function in VBA to compare and match dates?

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The MATCH function in VBA is a powerful tool that can be used to compare and match dates. This function allows users to search for a specific value within a range of values and return its position. To use the MATCH function for date comparison, first, the dates must be properly formatted in the same way. Then, the function can be used to search for a specific date within a range of dates and return its position. This can be particularly useful when working with large datasets or when trying to find specific dates within a range of dates. By utilizing the MATCH function in VBA, users can efficiently and accurately compare and match dates, saving time and effort in their data analysis and processing tasks.

VBA: Use MATCH Function with Dates

You can use the following syntax to use the MATCH function to look up a date in VBA:

Sub MatchDate()

'attempt to find date in range

On Error GoTo NoMatch

MyMatch

=

WorksheetFunction.Match(CLng(CDate("4/15/2023")),

Range("A2:A10"), 0)

MsgBox (MyMatch)

End'if no date found, create message box to tell user

NoMatch:

MsgBox ("No Match Found")

EndEnd:End Sub

This particular example looks up the date 4/15/2023 in

the range A2:A10.

If the date is found, a message box appears that tells the user which row in the range contains the date.

If the date is not found, a message box pops up that says "No Match Found" so the user knows the date does not exist in the range.

The following example shows how to use this syntax in practice.

Note: The CDate function converts a text string to a date in VBA.

Example: Use MATCH Function with Dates in VBA

Suppose we have the following list of dates in the range A2:A10 in Excel:

	A	B	C	D	E	F
1	Dates					
2	1/2/2023					
3	1/15/2023					
4	3/12/2023					
5	3/24/3023					
6	4/1/2023					
7	4/7/2023					
8	4/15/2023					
9	4/19/2023					
10	5/1/2023					
11						
12						
13						
14						
15						
16						
17						
18						

We can create the following macro to look up the row number that contains the date 4/15/2023 in the range A2:A10:

Sub MatchDate()

'attempt to find date in range

On Error GoTo NoMatch

MyMatch

=

WorksheetFunction.Match(CLng(CDate("4/15/2023")),

Range("A2:A10"), 0)

MsgBox (MyMatch)

End'if no date found, create message box to tell user

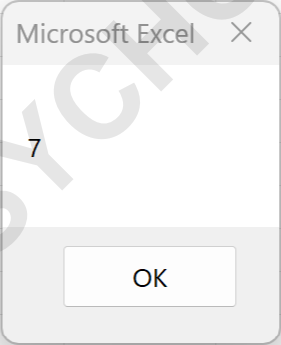
NoMatch:

MsgBox ("No Match Found")

EndEnd:End Sub

When we run this macro, we receive the following output:

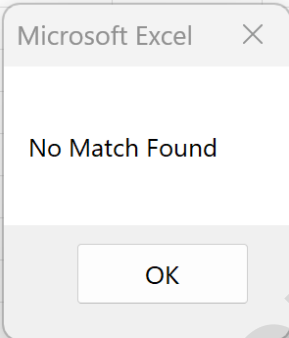
	A	B	C	D	E	F
1	Dates					
2	1/2/2023					
3	1/15/2023					
4	3/12/2023					
5	3/24/3023					
6	4/1/2023					
7	4/7/2023					
8	4/15/2023					
9	4/19/2023					
10	5/1/2023					
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						



The message box tells us that the date 4/15/2023 was found in the 7th row of the range A2:A10.

Note that if we instead looked up the date 4/25/2023 then we would receive the following output:

	A	B	C	D	E	F
1	Dates					
2	1/2/2023					
3	1/15/2023					
4	3/12/2023					
5	3/24/3023					
6	4/1/2023					
7	4/7/2023					
8	4/15/2023					
9	4/19/2023					
10	5/1/2023					
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

A screenshot of a Microsoft Excel dialog box. The dialog box has a title bar that says "Microsoft Excel" and a close button (X). The main text inside the dialog box reads "No Match Found". At the bottom of the dialog box, there is an "OK" button. The dialog box is overlaid on a grid of an Excel spreadsheet, which is partially visible in the background.

Note: You can find the complete documentation for the Match method in VBA .