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# Command Reference: WriteTableToExcel()

## Write a table to a Microsoft Excel workbook file

Version 10.27.00, 2014-02-18

**This command is under development.**

The `WriteTableToExcel()` command writes a table to a worksheet in a Microsoft Excel workbook file. A contiguous block of cells (rectangle) must be specified in one of the following ways to receive the table:

- Specify the upper-left cell in a range of cells using Excel address notation (e.g., A1)
- Specify a range of cells using Excel address notation (e.g., A1 : D10)
- Specify the name of an Excel named range.
- Specify a table name (essentially a named range).

TSTool uses the Apache POI software, version 3.9 (<http://poi.apache.org>) to read/write the Excel file and consequently functionality is constrained by the features of that software package.

The following are limitations of this command:

- Currently only the upper-left cell is utilized but in the future the range may be used to limit output.
- Cell data types are determined from the table columns being written. In the future a parameter may be provided to allow option of using original Excel formatting.

The following dialog is used to edit the command and illustrates the syntax for the command.

**Edit WriteTableToExcel() Command**

**This command is under development.**  
 This command writes a table to a worksheet in a Microsoft Excel workbook file (\*.xls, \*.xlsx). Currently the Excel file must exist.  
 A contiguous block of cells must be specified using one of the address methods below.  
 It is recommended that the location of the Excel file be specified using a path relative to the working directory.  
 The working directory is: C:\Projects\CO-CWCB-CDM-BIP\BIP-DataSheets\TSTool\MasterIPPTDataSheets

Table ID:  Required - table to write.

Column names to write:  Optional - names of columns to write (default=write all).

Output (workbook) file:

Worksheet:  Required (if not in address) - worksheet name (default=first sheet).

Specify the address for a contiguous block of cells the in Excel worksheet (upper left is start)

☐ by Excel Address ☐ by Named Range ☐ by Table Name

Excel address:  Excel cell block address in format A1:B2.

Excel column names:  Optional - how to define column names (default=None).

Column filters to exclude rows:   Optional - column patterns to exclude rows (default=include all).

Number precision:  Optional - precision for numbers (default=6).

Write all as text?:  Optional - write all cells as text? (default=False).

Column named ranges:   Optional - indicate columns to set as named ranges (default=none).

Keep file open?:  Optional - keep Excel file open? (default=False).

Command:  
`WriteTableToExcel (TableID="Basins", IncludeColumns="Basin,Definition", OutputFile="..\..\Data\DataSheet-IPP\DataSheets-ForContactReview\IPP-Arkansas-PSOPFA.xlsx", Worksheet="Basins", ExcelAddress="A7", ExcelColumnNames=None, ColumnNamedRanges="Basin:BasinChoices", KeepOpen=True)`

WriteTableToExcel

**WriteTableToExcel() Command Editor**

The command syntax is as follows:

`WriteTableToExcel (Parameter=Value, ...)`

#### Command Parameters

Parameter	Description	Default
TableID	Identifier for table to write.	None – must be specified.
IncludeColumns	Names of columns in table to write.	Write all columns.
OutputFile	The name of the Excel workbook file (*.xls or *.xlsx) to write, as an absolute path or relative to the command file location. If the Excel file does not exist it will be created.	None – must be specified.

Parameter	Description	Default
Worksheet	The name of the worksheet in the workbook to write. If the worksheet does not exist it will be created.	Write to the first worksheet.
ExcelAddress	Indicates the block of cells to write, using Excel address notation (e.g., A1 : D10).	Must specify address using one of available address parameters.
ExcelNamedRange	Indicates the block of cells to write, using an Excel named range.	Must specify address using one of available address parameters.
ExcelTableName	Indicates the block of cells to write, using an Excel named range.	Must specify address using one of available address parameters.
ExcelColumn Names	<p>Indicate how to determine the column names for the Excel table (in order to not overwrite with data rows), one of:</p> <ul style="list-style-type: none"> <li>FirstRowInRange – column names are written to the first row in the Excel address range</li> <li>None – column names are not written</li> <li>RowBeforeRange – column names are written to the row before the Excel address range</li> </ul>	None
ColumnExclude Filters	<p>Indicate table column names and pattern to use to exclude rows. For example, exclude rows with blanks in columns. The format of the parameter is:</p> <p>ColumnName1:Pattern1, ColumnName2:Pattern2, ...</p> <p>where patterns can contain * to match a substring.</p>	Include all rows.
NumberPrecision	The number of digits to the right of the decimal to use for numeric columns that are not identified as integer columns.	6
WriteAllAsText	Indicate with True or False whether all columns in the Excel address block should be treated as text columns.	False – handle table column types according to the table column types and Excel formatting
ColumnNamedRanges	The map of column names to named ranges, useful when the column of values is used as choices in Excel data validation.	No named ranges will be defined.
KeepOpen	Indicate whether to keep the Excel file open (True) or close after creating (False). Keeping the file open will increase performance because later commands will not need to reread the workbook. Make sure to close the file in the last Excel command.	False

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