

# TableEdge™ Coordinate Converter

## 1. Product Capabilities (Part 1)

### Overview:

This product is a standalone Windows™ program that provides a *calculator style* AND *spreadsheet style* user interface for converting values between MTM, UTM and Latitude/Longitude coordinate systems. An audit trail is provided in the form of an edit window. The precision retained is up to 1/10th of a millimeter. This product is intended for surveyors, planners, cartographers, engineers and GIS technicians where MTM and UTM usage is common.

### Functions:

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- Conversion from *MTM Easting/Northing* to UTM Easting/Northing and Latitude/Longitude.
- Conversion from *UTM Easting/Northing* to MTM Easting/Northing and Latitude/Longitude.
- Conversion from *Latitude/Longitude* to MTM Easting/Northing and UTM Easting/Northing.

### Data Coverage:

- All 32 MTM Zones supported: Longitude range: -51.5 degrees to -142.5 degrees; units are metres.
- UTM Zone Coverage: Numbers: 7 to 22; units are metres.
- Spheroids: WGS-84, WGS-72, WGS-66 WGS-60, Bessel 1841, Clarke 1866, Clarke 1880, and more.

## 2. Screen Layout:

### Note: Before starting, set these Options:

- Spheroid - This is used for all calculations.
- Default UTM Zone number AND letter - This is used when converting **from** UTM to the other coordinate systems. It is ignored when coordinates are converted **to** UTM. (Because the result could be in any zone.)
- Default MTM Zone number - This is used when converting **from** MTM to the other coordinate systems. It is ignored when coordinates are converted **to** MTM. (Because the result could be in any zone.)
- MTM, UTM output precision - (Let the converter do the rounding for you.)

### Tip

- To see the parameters used for calculations click on the these menu commands:  
*Edit > Paste Spheroid Parameters to Audit Trail*  
*Edit > Paste Default MTM Zone Parameters...*  
*Edit > Paste Default UTM Zone Parameters...*

## 3. How to Convert Coordinates Using the Calculator:

Enter values into the desired entry boxes, then press the **Convert** button beside the entry box. The *other* entry boxes will be filled with the converted values. A time stamped description of the conversion will be appended to the audit trail. Audit trails are automatically saved in c:\@PMEARCH. Any notes you type into the audit trail will be saved. You can also copy and paste from the audit trail to other applications.