

## Exporting a Survey Shapefile

Overview: Export shapefile information from a georeferenced survey for use in GIS.

- Export basic shapefile information having the extensions of .shp, .shx, and .dbf.
- Use Iowa NRCS' engineering survey Projection file for proper import into ArcMap.

Equipment: Trimble TSC7 or Trimble T10 & Trimble Access v2022.01

### On the TSC7 or T10 Controller

1. Power on device and Double Tap the **Trimble** button to launch Trimble Access.
2. Tap *ProjectName* and Tap *Open*.
3. Tap *JobName* and Tap *Export*.
4. Under *File format*, Tap *ESRI Shapefiles*
5. Tap on the *file name* folder icon and verify that it is being placed into the C:\Users\Trimble\Desktop\IMPORT\_EXPORT folder. (This is not required but makes the files easier to find.) Tap the folder name. Tap *Accept* to exit the **Select folder** screen.
6. Verify *Coordinates* says *Grid*
7. Tap *Accept*
8. At the *Transfer complete* message Tap OK Tap **ESC**.
9. Tap *Exit* and *Yes* to exit out of Trimble Access.
10. Open File Explorer and browse to the folder in which you saved the shapefile.
11. Select the 3 files (.shp, .shx, and .dbf) for the project plus the file name *NRCS\_IA\_UTMif.prj* (this file can also be found on the Iowa NRCS website here: <https://www.nrcs.usda.gov/resources/guides-and-instructions/iowa-nrcs-engineering/surveying>).
12. In addition to the .shp, .shx, .dbf, and the *NRCS\_IA\_UTMif.prj* files, it's a good idea to transfer the .job file as well.

Use the **HowTo - Transfer Files Between Windows Devices 2023** steps to transfer the shapefile from the T10 or TSC7.


### On Computer

13. Open File Explorer and browse to where you would like to store the survey shapefile. (e.g. P:\Eng Projects\Common\2022\Survey download)
14. *Edit... Paste...* to place the 4 files (5 if you choose to transfer the .job file) into the download folder.
15. **Must do:** Rename the *NRCS\_IA\_UTMif.prj* file on the computer to match the .shp name.

The files are now ready for use in ArcMap or AutoCAD.

### What's Next?

The file created by this process can be imported into:

- ArcMap – use *File...*  *Add Data...* Then browse to the .shp file and Click **Add**.
- AutoCAD – enter the MAPIMPORT command. Browse to and select the shapefile. Click **OK**. Verify the *Input Coordinate System* matches the *Current drawing coordinate system* and Click **OK**.