

How to Find Locations Using UDOT Route & Milepost

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27, May. 2009
Last Updated 28, May. 2009

As a result of a cooperative effort between AGRC and UDOT, the SGID 9.3 ArcSDE database server now contains a polylineM route feature class of UDOT's main state and federal routes.

This dataset was produced from the geometry and attributes in the SGID93.Transportation.Roads layer (formerly known as SGID.U024.StatewideStreets) and was calibrated using UDOT's start and end point milepost values collected using a high accuracy distance measuring instrument (DMI). In the future, it is hoped that an additional route layer will also be available calibrated using GPS'd milepost point locations.

If you want to find a location using a route and milepost coordinate. you have two options in ArcGIS:

- The Find tool in ArcMap
- ArcToolbox's LinearReferencing Tools --> Make Route Event Layer(Example screenshots shown at bottom or this post)

For either option, use the SGID93.Transportation.UDOTRoutes_CalibratedEP feature class (EP stands for calibrated from end points only) and supply your route names using the 5 digit UDOT LRS route name standard. Use the LABEL field for your route identifier parameter. In the UDOT LRS route name standard, the first four characters are the state route number and the fifth character is P for positive direction (traveling in the direction of increasing mileposts) and N for negative direction. The N direction is only used for interstates and divided routes. Examples: 0015N is I-15 southbound; 089AP is 89A in either direction since it's not a divided highway).

Note: For applications that need to do milepost range based lookup against the individual component street features, SGID93.Transportation.Roads contains the milepost ranges for each road feature that is part of a UDOT route.