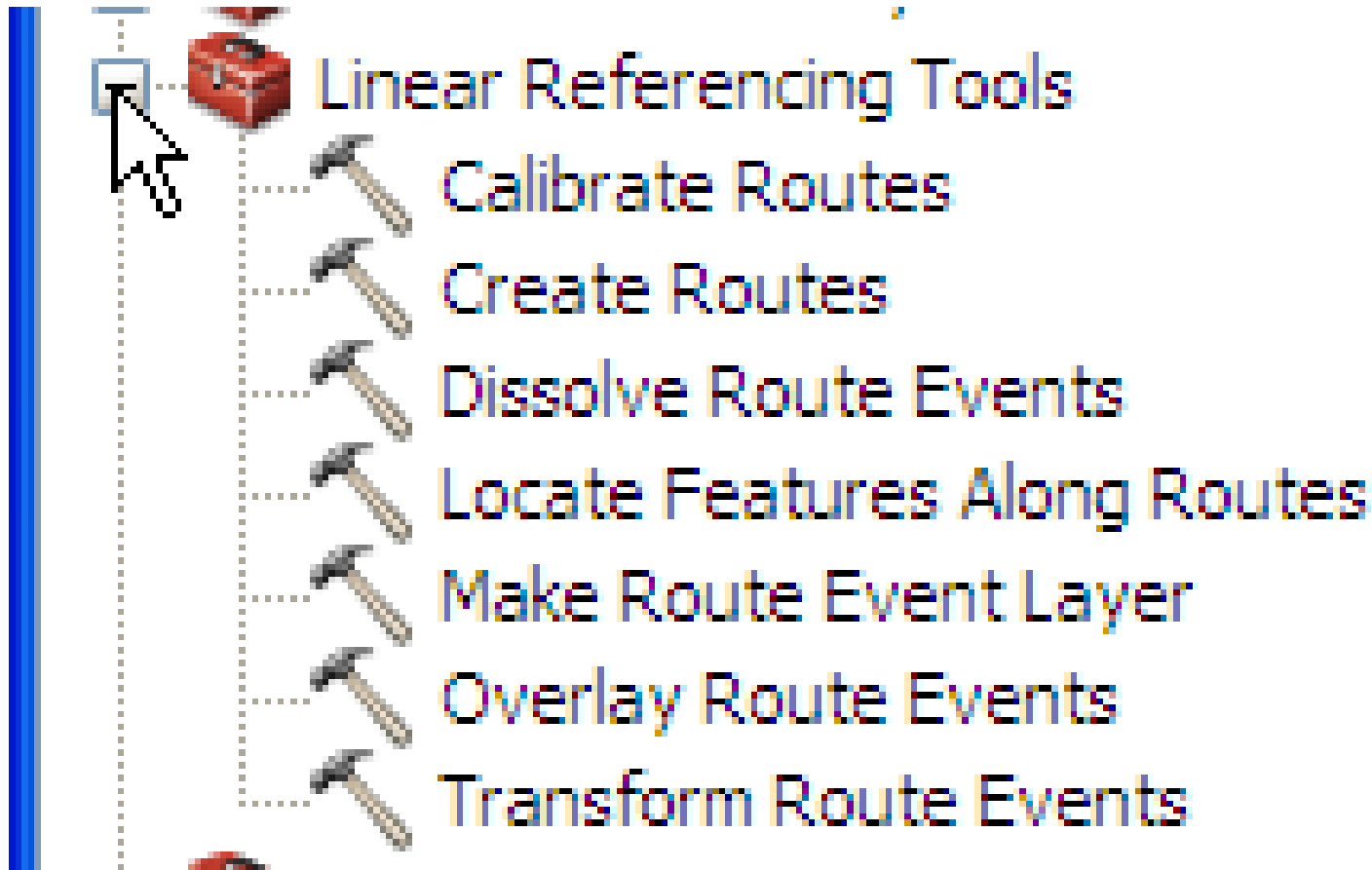


Week 4 Learning Objectives

1. To create routes or measured lines such as miles along a highway, km along a river (for example, show stream reaches in miles going upstream)
2. To use a table to create locations of events along a measured line (for example, points of accidents from accident mile marker table)
3. To use a table to create start and end of linear events along a measured line (for example, lines of new paving on highway system)
4. To create a table of linear measures for a point layer (for example, highway mileage for accident points)

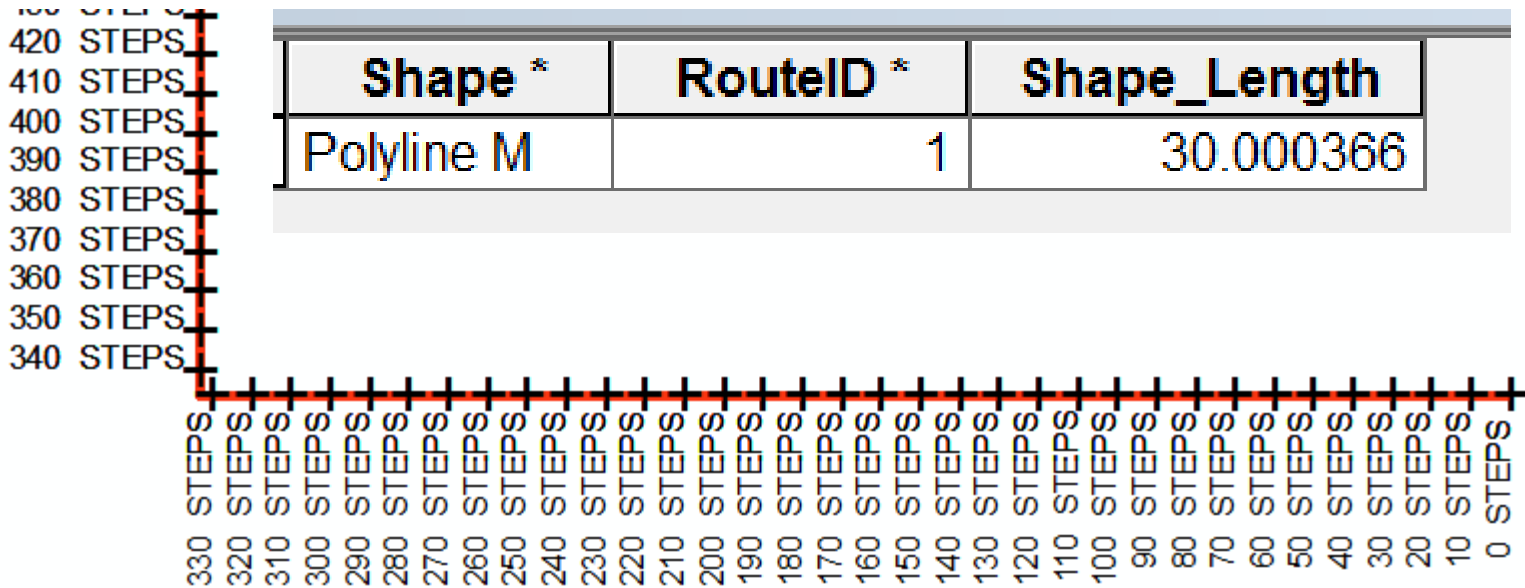
Geoprocessing Tools



Creating Routes

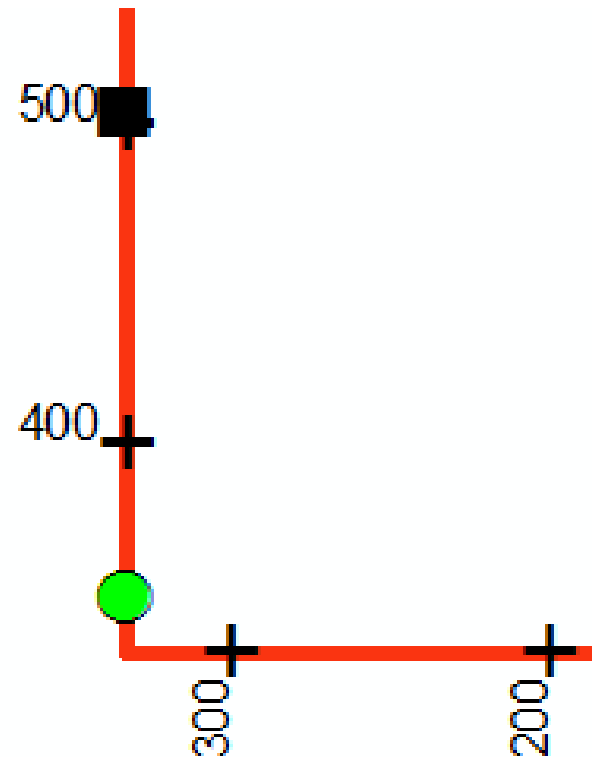
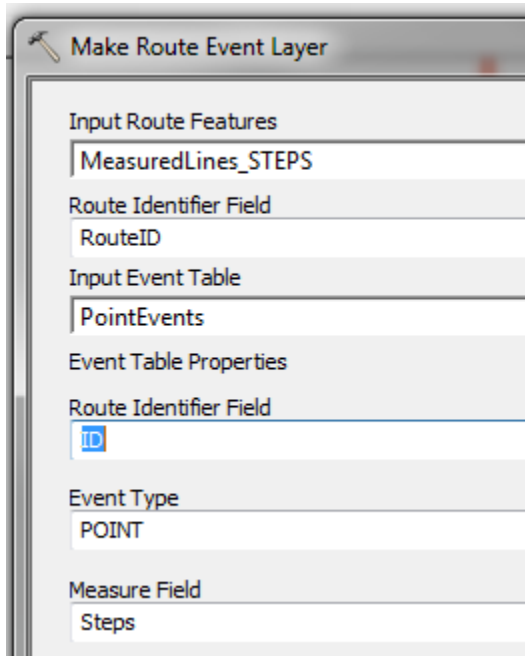
- ***Create Routes*** Geoprocessing tool
- Line table should have field with measure (miles, km, steps)
- You decide direction of measured lines (for example starting at lower left)
- Route layer will have Hatches property tab
- Shape will be PolyLineM (M for measured)

A line measured in steps



Making point event layer from table

PointEvents			
	Steps	Event	ID
	351	"Event A"	1
	503	"Event B"	1



Making line event layer from table

LineEvents

	Event	ID	Start	Stop
	"Event A"	1	10	451
	"Event B"	1	613	857

Make Route Event Layer

Input Route Features
MeasuredLines_STEPS

Route Identifier Field
RouteID

Input Event Table
LineEvents

Event Table Properties

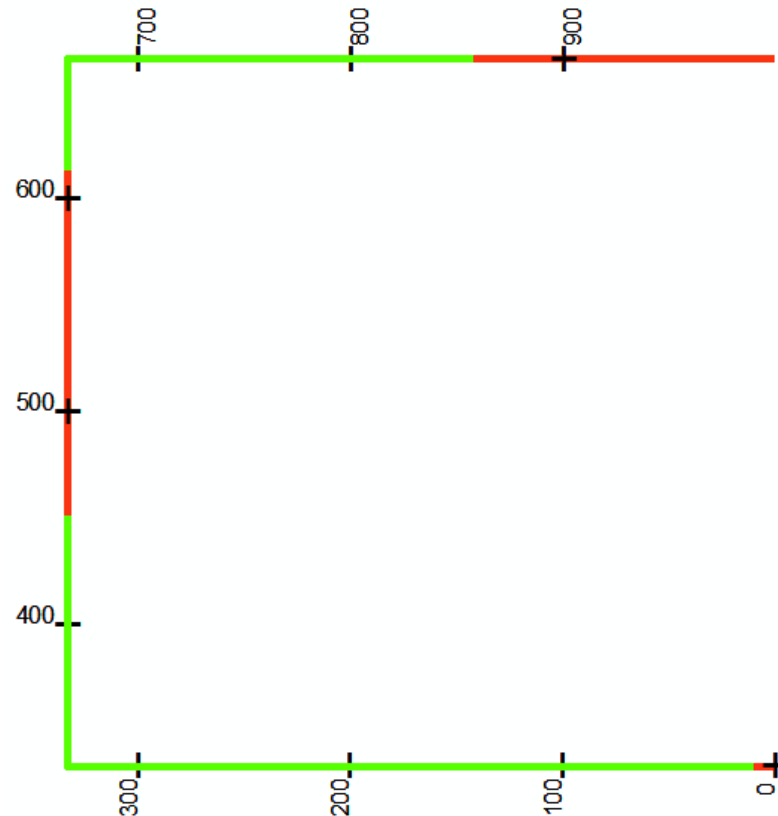
Route Identifier Field
ID

Event Type
LINE

From-Measure Field
Start

To-Measure Field
Stop

Layer Name or Table View
LineEvents Layer



Making measure table from point layer

Table Of Contents

- Layers
 - POINTS
 - Measured_Steps

Locate Features Along Routes

Input Features: POINTS

Input Route Features: Measured_Steps

Route Identifier Field: RouteID

Search Radius: 1 Meters

Output Event Table

RID	MEAS	Distance	Pointl_ID
1	537.130736	-0.748108	51
1	744.263394	0.252808	52