

Citizen Science – Collecting Road Condition Data

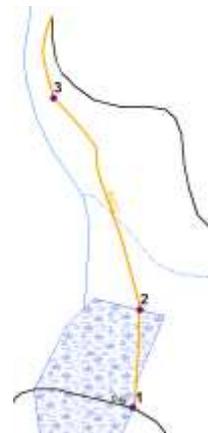
NOTE: These instructions assume: 1) you have a Boise National Forest Citizen Science AGOL account; 2) you have downloaded the Arc Collector and Arc Survey123 apps; 3) have downloaded the Beaver Pond Road Condition map; and 4) have downloaded the Road Condition Survey form.

To Collect Data

- Open the Arc Collector application
- From the maps page, tap the Beaver Pond Road Condition map to open it
- First walk or drive the road and determine the road segment locations
 - To record a segment marker, tap the blue add icon  in the lower right corner of the map
 - Tap Road Segment from the layer list
 - Tap Update Point - your GPS location will be recorded as the point
 - Enter the Segment Number
 - Tap the **Submit** button in the upper right corner of the screen

Numbering Road Segments

- The start of the spur road (i.e. it's junction to the leading road) is the start of Segment 1
- Add segment indicators as needed
 - In the example to the right, the road is broken into 3 segments:
 - Segment #1 starts at the junction (Segment #1 marker) and extends to the Segment #2 marker
 - Segment #2 starts at the Segment #2 marker and extends to the Segment #3 marker
 - Segment #3 starts at the Segment #3 marker and extends to the end of the spur



Collecting Road Condition Data

- To collect a road condition point:
 - Zoom into the road at the GPS indicator and tap the road
 - This brings up the Feature dialog box, tap the dark triangle in the lower right part of the Road listing
 - Note the road id value then tap the Enter Road Condition Data link
 - This brings up the Survey 123 My Surveys page, tap the Rd Condition Survey
 - Tap the Collect icon in the lower left corner of the screen
 - This brings up the Road Condition Survey form
 - Enter the full name of the surveyor(s)
 - Ensure that the road number is correct (e.g., 643S), if not, correct the value
 - Assign a segment value
 - Select the appropriate value for the road surface, hill slope position, road gradient, hill slope gradient and surface material questions
 - Answer all of the Road Condition Evaluation questions
 - At the end of the section you will see the number of questions that were indicated as being functioning and at risk
 - If the number of functioning responses is greater than the number of at risk, then indicate that the segment condition is **Functional**

- If the number of at risk responses is equal to or greater than the number of functioning, then indicate that the segment condition is **At-Risk**
- If the number of at risk responses is twice (or more) than the number of functional responses, then indicate that the segment condition is **Impaired**
- Select the Is sediment transport occurring value, if yes, then the 5 additional questions will appear, if not proceed to the photos
- Take at least one photo with your smart device and provide a caption for the photo
- If needed, take up to 2 additional photos to document the site; be sure to include captions for each additional photo
- Add any additional comments you feel are needed
- When done, tap the green check ✓ in the lower right hand corner
- If you are using one of the Boise National Forest Samsun tablets, you will not be able to upload your data until you have a WiFi connection.
- If you are using a personal device that has a cellular data plan, and you are out of cell coverage, be sure to upload your data when you return to a location with cell coverage
- Regardless, always ensure you have uploaded both segment markers and survey forms at the end of the day