

Williams Canyon Basic Survey Standards

Instruments:

All shots should have backsights and foresights and should agree within two degrees. In some cases doing both is impossible due to passage size. In these cases try to do double foresights.

Book:

On the cover page, include the cave name, the date, the survey team with what jobs they are doing, the instrument types and serial numbers, and the scale of the sketches.

Number each page (data pages and sketch pages, including the cover page) along with the total page count (i.e. Page 1 of 6, Page 2 of 6). This is to ensure that the survey stays complete.

Put the survey designation and date on each page. This is to prevent confusion if the pages get shuffled into other survey pages later.

All surveys in the canyon require a running profile drawn to the same scale as the plan view. The profile should include floor detail just like the plan view.

There should be a scale bar and north arrow on every page of the plan view. There should be a scale bar and up arrow on every profile.

Try to sketch at no more than 20 feet/inch (i.e. do not sketch at 50 feet per inch) and make sure to include copious floor detail.

All sketches should include cross sections to scale and ceiling heights. Do cross sections when the general passage shape makes a dramatic change or if the passage is complex or difficult to portray well in plan view (like "L" or inverted "T"-shaped passages. Cross sections should include floor detail just like the plan and profile maps.

On plan and profile, do your best to fully label every station.

Other Items

All new survey in the canyon should have inventory done at the same time. Blank inventory forms are available on the [Coloradocaves web site](#).

Please get copies of the notes and original inventory sheets to the cartography coordinator as quickly as possible. This makes it much easier to get updated maps created in a timely manner.