

<i>Factor</i>	<i>Metrics</i>	<i>Visualization</i>
Uncertainty due to computer vision algorithms		
Ground-Truth Quality	Number of ground-truth items over species and image quality.	Fig. 5
Fish Detection Errors	Number and rate of TP, FN and FP.	Fig. 5
Species Recognition Errors	Number and rate of TP, FN and FP.	Fig. 5
Image Quality	Number of video samples from each type of image quality.	Fig. 2-4
Uncertainty due to in-situ system deployment		
Sampling Coverage & Fragmentary Processing	Number of video samples over time and location. Average fish count per video.	Fig. 2-4
Field of View	No existing metric. Manual inspection of video footage.	
Duplicated Individuals	No existing metric. Manual inspection of video footage.	
Uncertainty due to both computer vision algorithms and deployment conditions		
Biases Emerging from Noise	Estimation of significantly higher <i>Duplicated Individuals</i> , <i>Fish Detection</i> and <i>Species Recognition Errors</i> over species, <i>Image Quality</i> and <i>Field of View</i> .	Fig. 2-5
Uncertainty in Specific Output	<i>Fish certainty score</i> . Correlate <i>Biases emerging from Noise</i> with dataset characteristics (<i>Species</i> , <i>Image Quality</i> , <i>Field of View</i> , and certainty score distributions).	Fig. 2-5

Table 2: *Metrics addressing the uncertainty factors of Table 1 and corresponding visualizations.*