Category	Indicator	Explanation
Data Source	Professional Opinion – Single Expert	Opinion from a single expert/source. If peer reviewed,
		state this and the type of peer
		review.
	Professional Opinion – Consultation Workshop	Opinion from a consultation
		workshop involving multiple experts and stakeholders. If
		peer reviewed, state this and
		the type of peer review.
	Semi-Quantitative	Some quantitative data was
		used to inform the creation of the function, but the function is
		based partially on expert
		opinion or qualitative data.
		Cite/explain any anchor points
		and note whether peer-review was conducted.
		The function is based on a
	Mechanistic Theory Based	strong, well-developed
		mechanistic theory. If relevant,
	Empirical Studies	include citations.  The function is based on
		empirical, peer-reviewed
		studies. Include the number of
		studies/data sources in the Error! Reference source not f
		ound. section. The citation(s)
		for the function should be
		included.
Data Type	Qualitative/Expert Opinion	The data are qualitative and/or derived from one or multiple
		expert opinions.
	Theory/Mechanistic Model	The data are based on a well-
		developed theory or
		mechanistic model.  The data are empirical from
	Empirical Data	either field observations or a
		controlled experiment. Include
		the source of the empirical
	Combination of above	data.  Some combination of expert
		opinion, theory/mechanistic
		models and empirical data.
Data Quality	Low	Opinion-based.
	Moderate	Quantitative or semi-
		quantitative, with decent

		empirical data from at least one relevant study.
		Good quality empirical data,
		well-replicated by more than
		one study, with confidence
	High	intervals. If it is a mechanistic SR
		function, then it has been well-
		validated in several relevant or
		comparable systems.
Confidence in SR Function		Poor empirical and/or
	Highly uncertain	theoretical basis, with wide or
		non-existent confidence
		intervals.
		Decent empirical data with
	Na dorato un conteintu	moderate bounds on
	Moderate uncertainty	uncertainty; or, a decent mechanistic model with well-
		understood range limits.
		Good empirical data or theory
		with well-fit models and well-
	High confidence	defined confidence intervals
	The serious	(even if the confidence intervals
		are wide).
Confidence Intervals	News	No confidence intervals
	None	available.
	Qualitative	Qualitative confidence intervals
		based on expert judgement.
		Upper and lower bound
		constraints defined with
	Semi-Quantitative	confidence. Confidence
		intervals are based on empirical
		data, theory, or expert opinion.
	Quantitative 95% CIs	Include the data source and
		reference for the confidence
		intervals.

Alberta Fisheries Sustainability Assessment rankings for the quality, quantity and timeliness of monitoring data used to assess population status.

## FSA Ranks for Monitoring Quality (Is the data precise and accurate?)

- 1 = Imprecise and inaccurate
- 2 = Precise but inaccurate data
- 3 = Accurate but imprecise
- 4 = Likely OK
- 5 = Precise and accurate

## FSA Ranks for Monitoring Quantity (Is sufficient data available to evaluate this metric?)

- 1 = No data
- 2 = Insufficient data
- 3 = Moderately sufficient data
- 4 = Nearly sufficient data
- 5 = Sufficient data

## FSA Ranks for Monitoring Timeliness (How likely is it the population being assessed is functionally different from when the last field data were collected?)

n/a = The focal fish species has never been surveyed

- 1 = Extremely different
- 2 = Very different
- 3 = Moderately different
- 4 = Slightly different
- 5 = Not different