

Table 2. Sample sizes available for each analysis. Note that some samples will be used in multiple analyses, and thus the column total does not sum to the total sample size for the study. For example: the 5 fish sampled by species for “Obj 1 – Estimate age” are also included in “Obj 2 – Measure turnover”. “PSS” is Pacific sleeper shark, “SD” is spiny dogfish, “AMS” is accelerated mass spectrometry, and “CSIA-AA” is the compound specific isotopic analysis of amino acids. The total sample size budgeted for AMS and bulk isotopes is 200 each and for CSIA-AA is 10.

Species	Objective	Analysis	n Fish	n Lenses /fish	n Layers /lens	n Portions/layer (insoluble vs soluble)	Total
PSS	Obj 2 - Dietary contributions	Bulk isotopes	40	1	4	1	160
PSS	Obj 2 - Dietary contributions	CSIA-AA	5	1	1	1	5
SD	Obj 2 - Maternal contributions	Bulk isotopes	20	2	1	1	40
SD	Obj 2 - Maternal contributions	CSIA-AA	5	1	1	1	5
PSS	Obj 2 - Measure turnover	AMS	5	1	4	2	40
SD	Obj 2 - Measure turnover	AMS	5	1	4	2	40
PSS	Obj 1 - Estimate age	AMS	20	1	4	1	80
SD	Obj 1 - Estimate age	AMS	20	1	4	1	80
PSS	Obj 1 - Estimate age, check eye consistency	AMS	10	2	4	1	80