

Appendix 2B. Fish health assessment variables and assigned values. [Field designations as described in Adams et al. 1992; adapted from Schmitt and Dethloff 2000, and described below]

Variable	Variable condition	Field Designation	Value Assigned
Eyes	Normal: no aberration	N	0
	Opaque (one or both)	O	30
	Exophthalmic (one or both)	E	30
	Emboli (one or both)	E	30
	Hemorrhaging (one or both)	H	30
	Missing (one or both)	M	30
	Other: aberration not fitting any above	OT	30
Body Surface (Skin)	Normal: no aberration	N	0
	Mild skin aberrations		10
	Moderate skin aberrations		20
	Severe skin aberrations (tumors, lesions, parasites)	T, L, P	30
Gills	Normal: no aberrations	N	0
	Frayed: ragged appearance (one or both)	F	30
	Clubbed: swelling of tips (one or both)	C	30
	Marginate: light discolored margins (one or both)	M	30
	Pale, very light color (one or both)	P	30
	Parasites (one or both)	P	30
	Other: aberration not fitting any above	OT	30
Fins	No active erosion	N	0
	Mild active erosion	M	10
	Moderate active erosion, some hemorrhage	M, H	20
	Severe active erosion with hemorrhage	S, H	30
Liver	Normal: solid red or light red color	NORMAL	0
	Tan: fatty or coffee w/ cream color	TAN	30
	Nodules or cysts	NOD	30
	Focal discoloration	FOC DIS	30
	General discoloration	GEN DIS	30
Spleen	Normal: Black, dark red to red	RED	0
	Granular: rough appearance	GRAN	0
	Nodular, containing fistulas or nodules	NOD	30
	Enlarged	ENLG	30
	Other: aberration not fitting any above	OT	30
Kidney	Normal: firm, dark, flat	N	0
	Swollen: enlarged or swollen	S	30
	Mottled: gray discoloration	M	30
	Granular in appearance and texture	G	30
	Urolithiasis or nephrocalcinosis: white mineral deposits	U	30
	Other: aberration not fitting any above	OT	30