GTR 3 Torrent ((NEW))

the torrent sculpin is often found in areas of swift current (roni 2002). roni (2002) reported that torrent sculpin were generally more abundant in riffles than in pools, but torrent sculpin collected from streams on the olympic peninsula in washington were found in riffles and runs slightly over 70 percent of the time and in pools just 31 percent of the time. in idaho, torrent sculpin were found in riffles and runs slightly over 60 percent of the time and in pools slightly over 40 percent of the time (quintela 2004). the torrent sculpin has a distinctive body shape with a deeply forked caudal fin (finger 1982). torrent sculpins have a rounded head, a large mouth, a long, forked, scaled caudal peduncle, and four dorsal fins. the dorsal fins are less distinct than those of other sculpins, and the first dorsal fin is as long or longer than the second (roni 2002). torrent sculpin have five to seven anal fins and no pelvic fins (roni 2002). the torrent sculpin can be distinguished from all other sculpin species by its unique facial and caudal characteristics (finger 1982; roni 2002). finger (1982) reported that the length of the first dorsal fin of the torrent sculpin can be up to 70 percent of the total body length, and that the caudal peduncle is large and often highly branched. the five to seven anal fins are of nearly equal length, and the anal fins are relatively small (finger 1982). roni (2002) reported that the mouth and pharynx of the torrent sculpin are small, the eye is large, and the head is elongated and narrow (roni 2002). torrent sculpin can live as long as six years and reaches sexual maturity by age two, at approximately 57 mm in total length (brown 1971; wydoski and whitney 2003). spawning occurs in late spring, generally in april and may (brown 1971; thomas 1973; wydoski and whitney 2003). like other freshwater cottids, the torrent sculpin spawns in nests located under rocks in swift water (wydoski and whitney 2003). the female deposits adhesive eggs on the underside of an overhanging rock and the male then fertilizes them (simon and brown 1943; bailey 1952; mousseau et al. 1987; bateman and li 2001; montana fish, wildlife, and parks 2005). torrent sculpin fry may emerge from the nest as early as august (northcote 1954; brown 1971) and presumably like other cottids, drift and disperse downstream (sheldon 1968).


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the torrent sculpin is readily distinguishable from its congeneric species cottus irwinsoni (page 7) in montana, its congener in the northeast usa, and its congeneric species in the northern rockies. the only common

feature that the torrent sculpin shares with cottus irwinsoni is a slender, slightly tapering body (holton and johnson 2003). however, the torrent sculpin has two or three enlarged canals on its pectoral fins, lacks a lateral line, lacks a dark blue coloration on the fins,

and has two rows of large, rounded, blackish spots on its underside. in contrast, cottus irwinsoni has one enlarged canal on each pectoral fin, a well-developed lateral line, and a light blue body coloration with numerous blue spots (holton and johnson 2003; waltman

and cadenhead 1989). the torrent sculpin also differs from the cobscrub sculpin (cottus sayi) in that the cobscrub sculpin has two rows of small to medium black spots on the underside, six to 10 canals on each pectoral fin, and a lateral line (holton and johnson 2003; waltman

and cadenhead 1989; lee and seo 1998). lastly, while the torrent sculpin is found primarily in temperate streams in montana, the cobscrub sculpin occurs primarily in the great basin region in the central and western states. to survive and avoid predation, torrent

sculpins are not unlike other cottids, and will migrate into different parts of the stream (dunne and noakes 1977; bailey 1952). studies have shown that this species can be found at a range of depths from near the surface (as deep as 0.5 m) to as much as 22.5 m (smith et al.

1992; quintela et al. 2004). within a single stream, however, they are usually found at depths between 0.3 to 10 m (arriola 1984; wydoski and whitney 2003; quintela 2004). underwater falls and rapids typically impede the movement of the torrent sculpin and

large headings (lower angles) of rapids typically produce lower current speeds and more of an upstream migration of individuals (smith et al. however, wydoski and whitney (2003) reported that torrent sculpin are caught by fishermen in channels 7 to 12 m wide.

in a laboratory setting, fontaine and others (2007) tested the ability of different physical properties of stream substrates to affect the survival of torrent sculpin. substrates were made to resemble natural rocks and they were grouped into two types, hard and

soft. hard substrates are typically more difficult to move than soft substrates (e.g., cobble, gravel, and sand), but soft substrates typically have more cavities, littoral areas, and undercut banks (fontaine and others 2007). fontaine and others (2007) found that substrate type

impacted the activity of torrent sculpin, with a combination of a hard substrate and a low flow velocity best supporting the fish. the activity of the species was lowest when both the hard substrate and the flow velocity were high. because of the speed of the current and the

depth of the substrate, a sculpin will want a stable substrate with an angle of repose of around 15 degrees to 25 degrees (arriola 1984). 5ec8ef588b

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