Table B-3. Hardhead Juvenile Habitat Suitability Curve Metadata.

Curve ID		Fish Characteristics			Sample Size[1]		Stream Location					Stream Characteristics [2]											Sampling Info						Available HSC Curves					Notes	Reference
				Length						Elevation		Width			Streamflow			Mean	Water Temperature											Velocity						
Name	Used for MFP	Species	Life-stage	Min (cm)	Max (cm)	No. HSC Obs	No. Fish	Country	State	River	Min (ft msl)	Max (ft msl)	Mean (ft)	Min (ft)	Max (ft)	Mean (cfs)	Low (cfs)	High (cfs)	Slope (%)	Mean (^{o}F)	Min (^{o}F)	Max (^{o}F)	Species Composition[3]	Site-Specific?	Sampling Season	Survey Design[4]	Observ Method[5]	Curve Type[6]	Curve Smoothing[7]	Total Depth	Mean Col	Focal	Cover[8]	Sub-strate[8]		
NFFR - Density, Util, Pref, PrAb,	Y	Hardhead	juv	<15		140		USA	CA	NF Feather	925	2,010	avg 70-106				96	131	0.4-1.1		64	72	skr,rbt,pkm, hdh,smb	Y	July-Aug	EA	DO uw	II and III		Y	Y		Y		4 methods used (utilization, preference, pres-abs, density)	TRPA 2001
Pit Pref and Util	Y	Hardhead	juv			90		USA	CA	Pit	1,445	2,650		40	200		50	150	0.7-1.1				skr,rbt,pkm, hdh	Y	summer	RCH	DO uw	II and III		Y	Y		Y	Y	2 methods used (utilization and preference; preference curve reweighted to equalize effort)	Baltz and Vondracek 1985
Deer	Y	Hardhead	juv	<16cm SL		81		USA	CA	Deer	30	3,500		20	50		100	200	1		55	90			June-Oct			II and electivity		Y	Y	Y		Y	electivity and reaches	Moyle and Baltz 1985
W Sierra	Y	Hardhead	juv	<12 cm TL		537		USA	CA	Sierra streams	203	1,460		6	59				0.1-2.9		49	77			July - Oct	RCH		I/II		Y	Y				reaches surveyed; curve points approximated from graphs; includes data from Moyle & Baltz 198	Knight 1985

[1]# HSC observations is number of independent measurements at fish positions, # fish is total number of fish seen at the measurement locations

[2]stream habitat characteristics during the period of sampling for HSC

[3]species abbreviations: chs=chinook salmon, coh=coho salmon, sth=steelhead, rbt=rainbow trout (resident), brn=brown trout, brk=brook trout, bul=bull trout, cut=cutthroat trout, wtf=whitefish, skr=suckers, scp=sculpin, pkm=pikeminnow, hdh=hardhead, dac=dac

[4]survey design: sampling design used to collect hsc data, i.e. reaches - samples collected in representative reach(es), proportional - samples collected within mesohabitat types with effort in proportional to availability, equal-area - samples collected with effort equalized among habitat types

[5]observation method: DOuw-direct observation underwater (snorkeling/scuba), DOow-direct observation out-of-water (wading, boat, or bank observation), EF-electrofishing, VID-underwater video, NET-seining or other net capture, Other (see comments)

[6]curve type: Cat I - hand-drawn or a composite of various curves based on professional judgment, Cat II - based on habitat use data, Cat III - based on habitat use data adjusted by habitat availability data, Bio - bioenergetics hsc

[7]curve smoothing: method used (if any) to smooth raw observation or frequency histogram data

[8]see hsc data sets for cover and substrate coding details