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**Biological Assessment of Artificial Propagation at
Coleman National Fish Hatchery and Livingston Stone National Fish Hatchery:
program description and incidental take of chinook salmon and steelhead trout**

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CNFH-V7

Steelhead Trout

Currently, the total spawning target for steelhead trout is 400 adults (with a 1:1 sex ratio). This number is back-calculated based on a release target of 600,000 smolts and estimated fecundity (eggs/female). Refer to Section 1.12 and Table 1-2 for more information. Beginning in brood year 2002, natural-origin steelhead trout collected at Battle Creek will be incorporated into the Coleman NFH broodstock at a rate of approximately 10%. Consequently, the total spawning target will include 40 natural-origin steelhead trout and 360 hatchery-origin steelhead trout.

The number of steelhead trout collected at Coleman NFH from 1988 through 1999 is shown in Table 7-5. Males and females are enumerated separately.

Table 7-5. Broodstock collection of steelhead trout at Coleman National Fish Hatchery, brood years 1988 through 1999.

Brood year	Returned			Spawmed			Eggs	Juveniles
	Females	Males	Total	Females	Males	Total		
1988	546	344	890	222	174	396	958,628	754,830
1989	175	292	467	27	18	45	118,913 ^a	44,840
1990	1,905	2,267	4,172	629	463	1,092	2,574,104 ^b	1,272,086 ^c
1991	661	482	1,143	394	436	830	1,732,341	1,279,449
1992	2,185	2,244	4,429	323	205	528	1,343,039	895,930
1993	652	510	2,862 ^d	343	332	675	1,519,175	1,277,430
1994	1,805	1,582	3,387	363	322	685	1,683,653	1,274,149
1995	1,088	949	2,185 ^e	311	279	590	1,493,013	1,105,407
1996	1,323	1,324	3,106 ^f	231	215	446	1,167,484	939,615
1997	1,342	1,187	2,529	181	186	367	885,046	662,213
1998	738	671	1,409	193	187	380	940,045	546,453
1999	908	847	1,755	164	165	329	739,306	521,232
2000	976	1,000	1,976	183	187	370	878,400 ^g	n/a

a An additional 47,000 eggs were received from Feather River State Fish Hatchery. From those, 29,400 smolt were released into Battle Creek.

b Includes 463,573 eyed eggs transferred to Mokelumne State Fish Hatchery.

c Includes 151,470 smolt transferred to Feather River State Fish Hatchery.

d Includes 1,700 that were not sexed

e Includes 148 that were not sexed.

f Includes 459 that were not sexed.

g Estimated number of eggs.