

From: Colleen Harvey Arrison
To: 2006 Mill Ck SR distribution list
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Subject: 2006 Mill Creek spring-run salmon estimate

Spring-run salmon redd surveys to estimate the 2006 population in Mill Creek were completed October 6th - 19th. **An estimated 1,002 spring run spawned in Mill Creek in 2006.** A total of over 44 miles was surveyed and encompasses the known holding and spawning habitat of spring-run Chinook in Mill Creek. The attached table shows the spring-run counts in Antelope, Deer and Mill Creeks from 1992-2005.

In addition to the redd counts, a pilot program using hydroacoustic technologies to assess spring run escapement into Mill Creek was completed this summer. Results from this effort will be presented at a CALFED Science Conference next week.

Colleen Harvey Arrison
Associate Fishery Biologist
CDFG, Northern California North Coast Region
Sacramento River Salmon and Steelhead Resource Assessment
E-mail: charvey@dfg.ca.gov
Voice: (530) 527-9490
Fax: (530) 527-8674

**Spring-run Chinook salmon counts in Antelope, Deer and Mill Creeks
1992-2006**

| Year | Antelope Creek (snorkel count) | Deer Creek (snorkel count) | Mill Creek (redd expansion) |
|-------------|-----------------------------------|-------------------------------|--------------------------------|
| 1992 | 0 | 209 | |
| 1993 | 3 | 259 | |
| 1994 | 0 | 485 | |
| 1995 | 7 | 1,295 | |
| 1996 | 1 | 614 | |
| 1997 | 0 | 466 | 202 ^{1/} |
| 1998 | 154 | 1,879 | 424 |
| 1999 | 40 | 1,591 | 560 |
| 2000 | 9 | 637 | 544 |
| 2001 | 8 | 1,622 | 1,100 |
| 2002 | 46 | 2,185 | 1,594 |
| 2003 | 46 | 2,759 | 1,426 |
| 2004 | 3 | 804 | 998 |
| 2005 | 82 | 2,239 | 1,150 |
| 2006 | 102 | 2,432 | 1,002 |

^{1/} First year of using redd counts to estimate population.