

06/07 LAKE SAMMAMISH LATE-RUN KOKANEE SURVEY AND ESCAPEMENT SUMMARY

- Late-run kokanee stocks were surveyed in selected south Lake Sammamish tributaries.
- Tributaries surveyed included Vasa, Lewis, Laughing Jacobs, and Ebright creeks.
- Surveys began in late-November and concluded in January.
- Surveys were scheduled once per week. However, due to a wet (i.e., snow and rain) winter and the corresponding high flows, tributaries were unsurveyable during some weeks.
- Live fish were enumerated in Vasa, Lewis, Laughing Jacobs, and Ebright creeks.
- AUC methodology was used to determine total fish days for each tributary. A stream life of 10 days was used to divide total fish days by and estimate total escapement.

VASA CREEK

Vasa Creek was surveyed once per week from late-November through January. No kokanee were observed during the spawning run. However, the landowner whose property encompasses the entire survey reach claimed he observed kokanee in mid-December, but they were never seen by WDFW. It is possible that the kokanee moved above the index area.

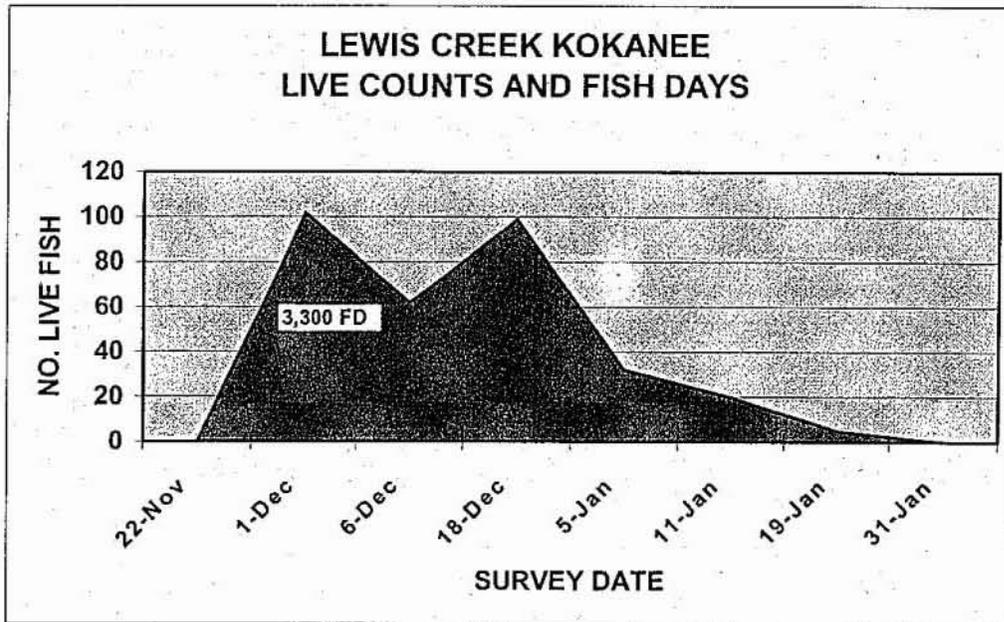
LEWIS CREEK

Lewis Creek was surveyed on November 22nd and December 1st, 6th, 18th, and January 5th, 11th, and 19th. Due to unsurveyable conditions in late-January the end date of spawning was estimated to be January 31st. Peak spawning occurred on December 1st with 102 live kokanee observed. Total escapement in Lewis Creek was estimated to be 330 fish. The 2006 escapement was 52.1% of the 1996-2005 average (634). Figures 1 and 2 summarize all survey data.

Figure 1.

LEWIS CREEK		
SURVEY DATE	LIVE FISH	FISH DAYS
22-Nov	0	459
1-Dec	102	410
6-Dec	62	966
18-Dec	99	1,179
5-Jan	32	156
11-Jan	20	100
19-Jan	5	30
31-Jan	0	0
FISH DAYS:		3,300
ESCAPEMENT:		330

Figure 2.



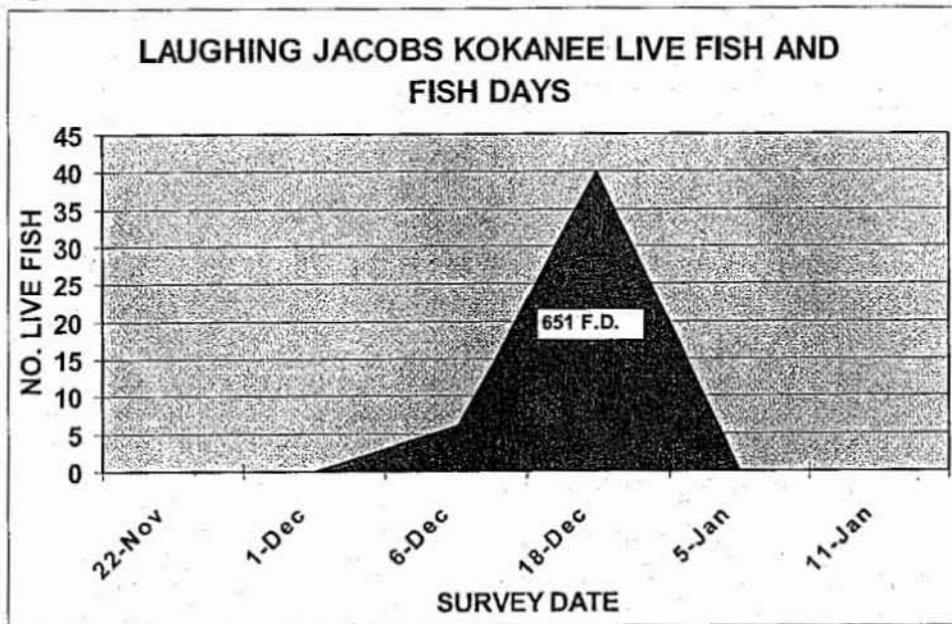
LAUGHING JACOBS CREEK

Laughing Jacobs Creek was surveyed on November 22nd and December 1st, 6th, 18th, and January 5th, and 11th. Spawning concluded on January 5th and was confirmed the following week on January 11th. Peak spawning occurred on December 18th with 40 live kokanee observed. Total escapement in Laughing Jacobs Creek was estimated to be 65 fish. The 2006 escapement was 65.0% of the 1996-2005 average (100). Figures 3 and 4 summarize all survey data.

Figure 3.

LAUGHING JACOBS CREEK		
SURVEY DATE	LIVE FISH	FISH DAYS
22-Nov	0	0
1-Dec	0	15
6-Dec	6	276
18-Dec	40	360
5-Jan	0	0
11-Jan	0	0
FISH DAYS:		651
ESCAPEMENT:		65

Figure 4.



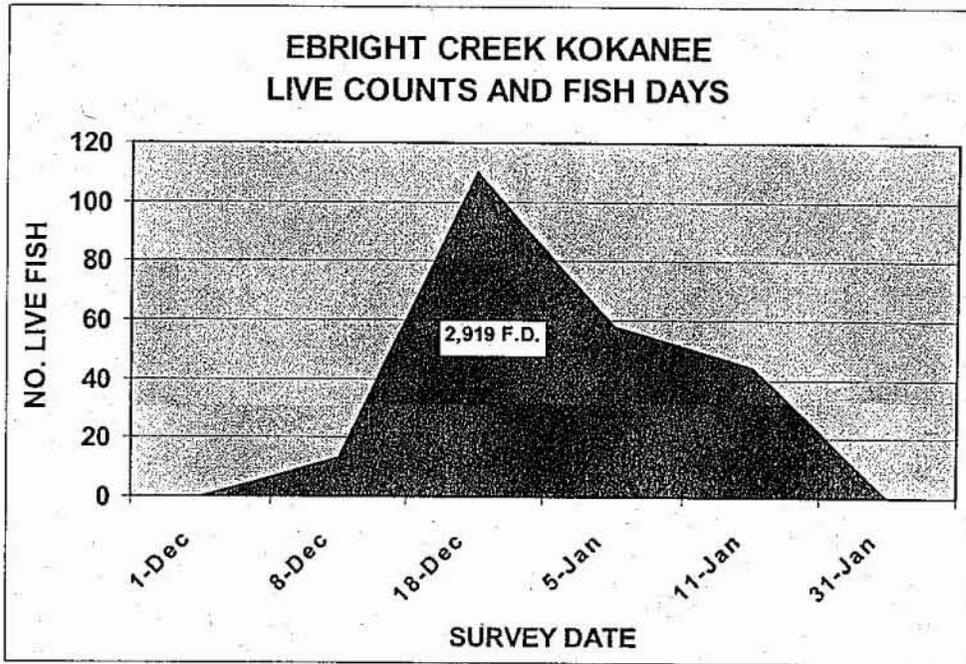
EBRIGHT CREEK

Ebright Creek was surveyed on December 1st, 8th, 18th, and January 5th, and 11th. Due to unsurveyable conditions in late-January the end date of spawning was estimated to be January 31st. Peak spawning occurred on December 18th with 110 live kokanee observed. Total escapement in Ebright Creek was estimated to be 292 fish. The 2006 escapement was 22.6% higher than the 1996-2005 average (238). Figures 5 and 6 summarize all survey data.

Figure 5.

EBRIGHT CREEK		
SURVEY DATE	LIVE FISH	FISH DAYS
1-Dec	0	46
8-Dec	13	615
18-Dec	110	1,512
5-Jan	58	306
11-Jan	44	440
31-Jan	0	0
FISH DAYS:		2,919
ESCAPEMENT:		292

Figure 6.



LATE-RUN KOKANEE ESCAPEMENT TRENDS

Total combined escapement (687) for Lewis, Laughing Jacobs, and Ebright creeks was 70.6% of the 1996-2005 average (972). Figures 7 and 8 summarize escapements for each tributary from 1996 through 2006.

Figure 7.

LAKE SAMMAMISH LATE-RUN KOKANEE ESCAPEMENT TRENDS				
YEAR	LEWIS	EBRIGHT	LAUGHING JACOBS	COMBINED
1996	219	70	170	459
1997	10	15	29	54
1998	43	40	0	83
1999	247	134	27	408
2000	143	362	92	597
2001	722	110	2	834
2002	1,002	319	384	1,705
2003	3,296	1,063	232	4,591
2004	442	134	18	594
2005	217	135	44	396
2006	330	292	65	687
AVE (96-05)	634	238	100	972

Figure 8.

