

Table 1.— Preliminary estimates of passage by brood-year (BY) and run for unmarked juvenile Chinook salmon and steelhead trout captured by rotary-screw traps at Red Bluff Diversion Dam (RK391), Sacramento River, CA, for the dates listed below. Results include estimated passage, peak river discharge volume, water temperature, turbidity, and fork length (mm) range in parentheses. A dash (-) indicates that sampling was not conducted on that date.

Date	Discharge volume (cfs) ¹	Water temperature (°C)	Water turbidity (NTU)	Estimated passage				
				BY10 Winter	BY10 Spring	BY10 Fall	BY11 Late-Fall	BY11 RBT
6/4/2011	23,000	12.1	–	–	–	–	–	–
6/5/2011	23,900	12.1	–	–	–	–	–	–
6/6/2011	24,800	12.3	–	–	–	–	–	–
6/7/2011	24,800	12.4	9.1	0 (–)	0 (–)	23,760 (52 – 111)	656 (32 – 48)	0 (–)
6/8/2011	24,500	13.9	7.5	0 (–)	78 (124)	25,651 (53 – 113)	638 (36 – 50)	85 (70)
6/9/2011	21,400	14.6	5.9	0 (–)	0 (–)	25,016 (56 – 115)	243 (33 – 52)	87 (89)
6/10/2011	18,900	14.4	5.6	0 (–)	0 (–)	19,950 (54 – 113)	285 (35 – 48)	142 (27 – 54)
6/11/2011	16,400	14.2	6.1	0 (–)	0 (–)	22,791 (55 – 111)	229 (26 – 51)	48 (64)
6/12/2011	13,800	14.1	5.2	0 (–)	98 (122)	19,131 (54 – 118)	44 (51)	98 (57 – 88)
6/13/2011	12,500	15.0	4.4	0 (–)	0 (–)	12,406 (55 – 116)	116 (30 – 51)	0 (–)
6/14/2011	12,700	15.0	4.0	0 (–)	0 (–)	25,718 (56 – 111)	267 (35 – 54)	55 (68)
6/15/2011	16,500	14.6	–	–	–	–	–	–
6/16/2011	14,600	14.2	–	–	–	–	–	–
6/17/2011	13,700	14.2	–	–	–	–	–	–
Biweekly Total ²				0	311	305,241	4,338	902
<i>Biweekly Lower 90% Confidence Interval</i>				0	-3,911	-469,373	-14,295	-6,447
<i>Biweekly Upper 90% Confidence Interval</i>				0	4,533	1,079,855	22,971	8,251
Brood Year Total				1,281,785	151,701	8,113,962	71,600	12,131
<i>Brood year Lower 90% Confidence Interval</i>				837,358	53,774	4,634,686	11,018	2,559
<i>Brood year Upper 90% Confidence Interval</i>				1,726,212	249,628	11,593,239	132,181	21,703

¹ Peak daily discharge values do not account for diversions at RBDD and only represent peak flows registered at the Bend Bridge Gauging station (<http://cdec2.water.ca.gov/cgi-progs/queryFx?bnd>).

² Biweekly totals may be greater than the sum of the daily estimates presented in this table if sampling was not conducted on each day of the biweekly period. A dash (-) denotes those dates. To estimate daily passage for days that were not sampled, we impute missed sample days with the weekly mean value of days sampled within the week.

Juvenile Winter Chinook Salmon Estimated Passage

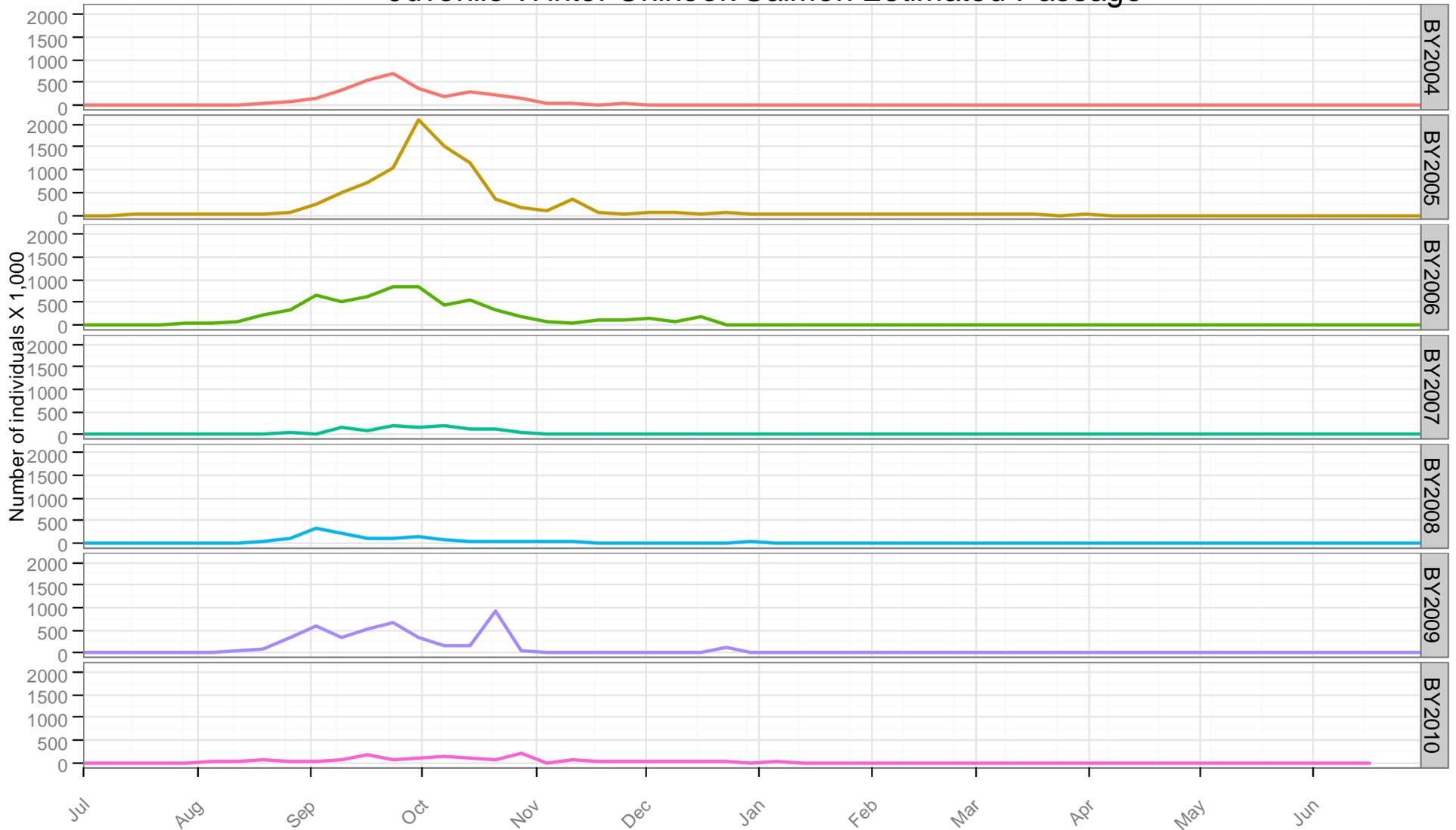


Figure 1. Weekly estimated passage of juvenile winter Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period July 1 2004 to present .

Juvenile Spring Chinook Salmon Estimated Passage

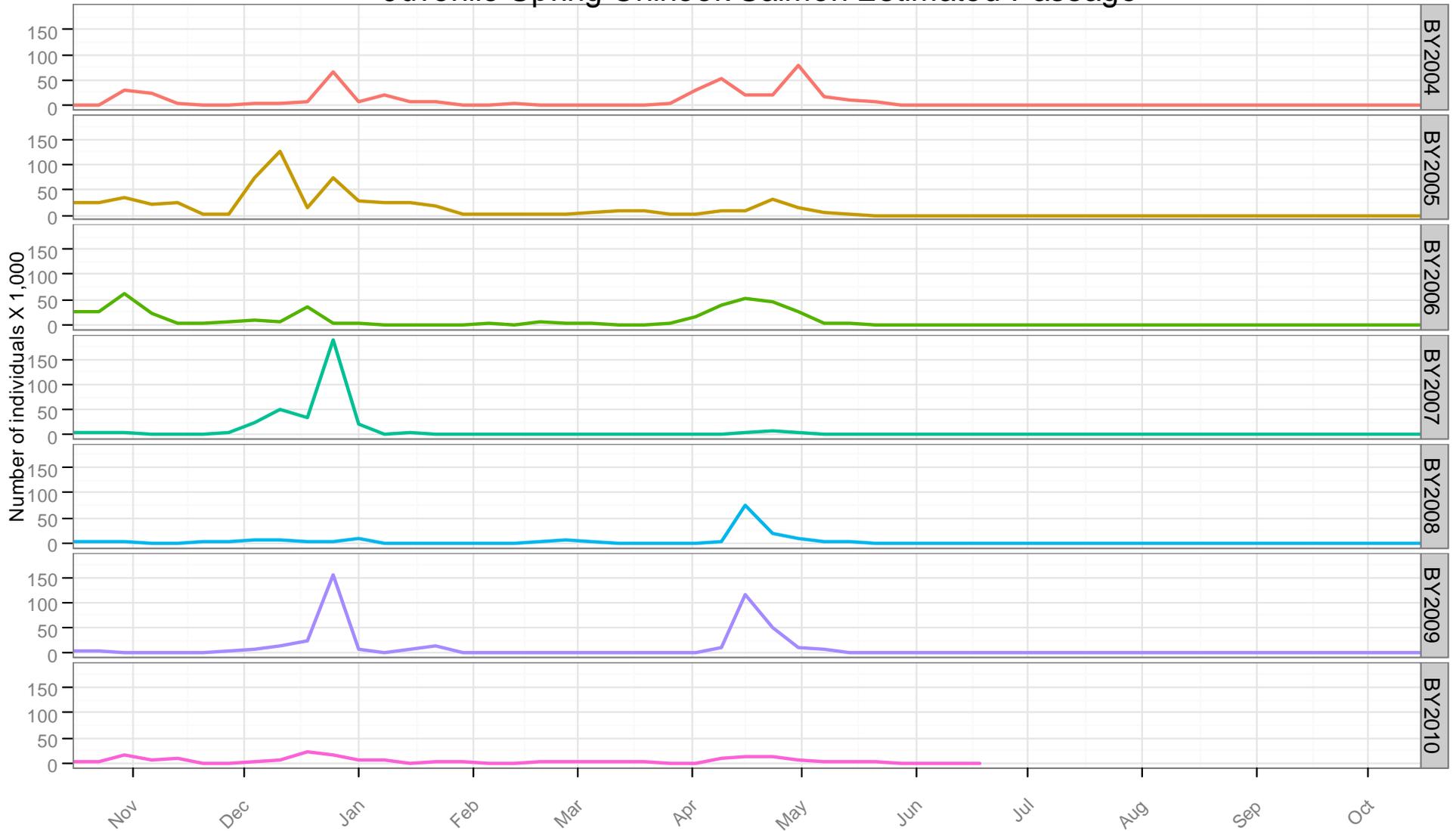


Figure 2. Weekly estimated passage of juvenile Spring Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period October 16 2004 to present .

Juvenile *Onchorhynchus mykiss* Estimated Passage

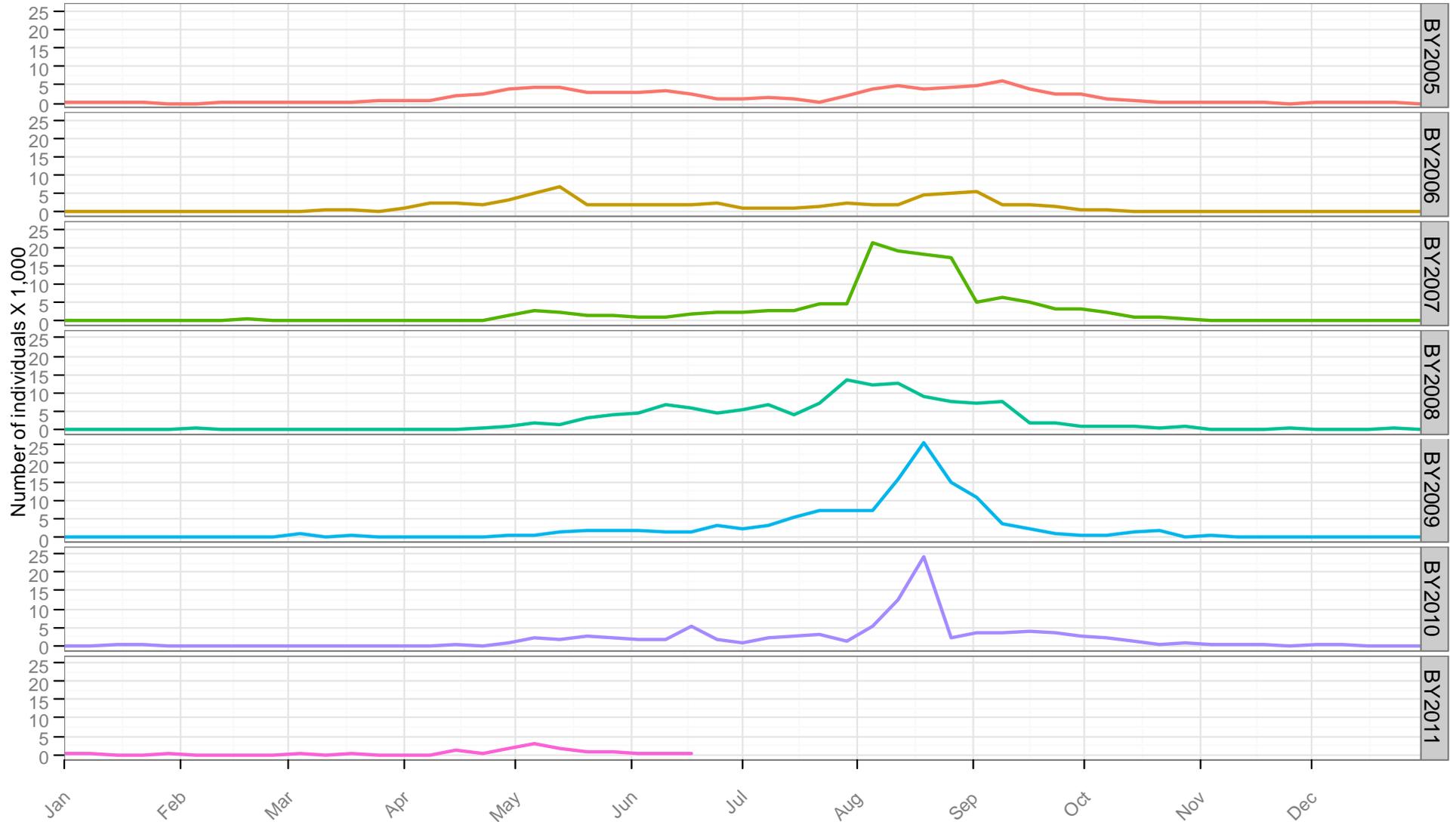


Figure 3. Weekly estimated passage of juvenile Rainbow/Steelhead trout at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period January 1 2005 to present .

Juvenile Fall Chinook Salmon Estimated Passage

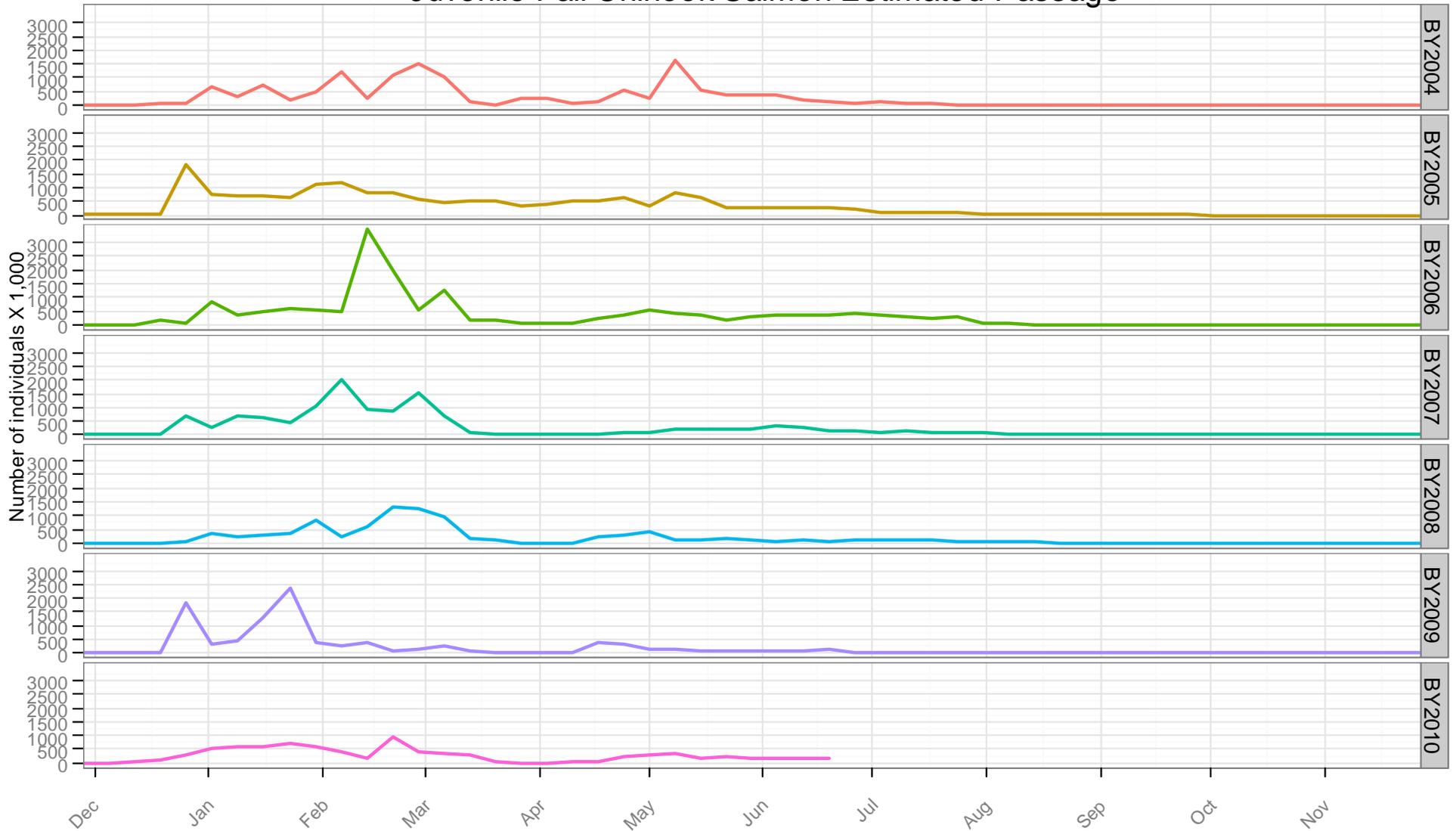


Figure 4. Weekly estimated passage of juvenile Fall Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period December 1 2004 to present .

Juvenile Late Fall Chinook Salmon Estimated Passage

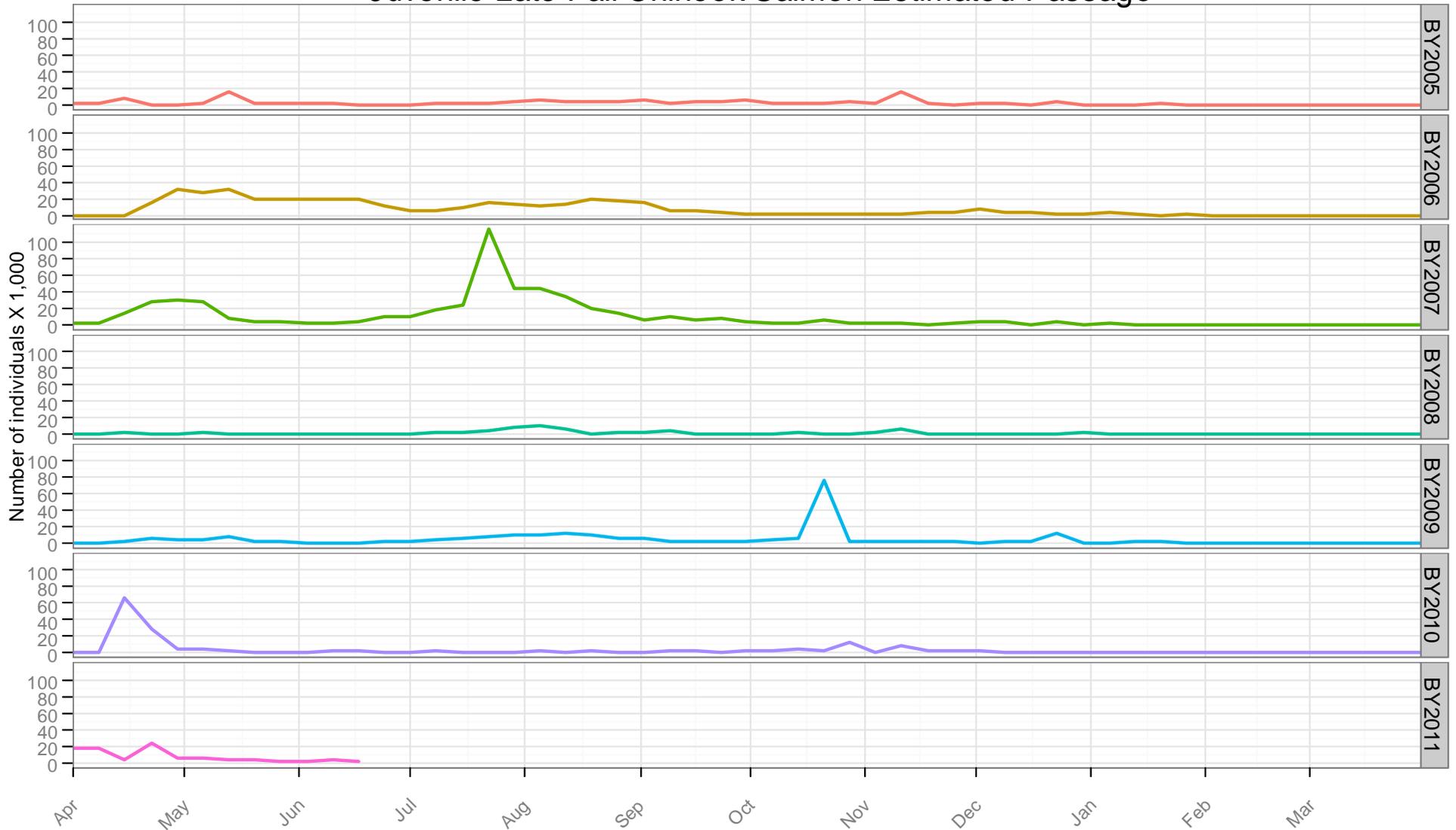


Figure 5. Weekly estimated passage of juvenile Late Fall Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period April 1 2005 to present .

Weekly Estimated Chinook Passage at Red Bluff Diversion Dam - All Runs Combined

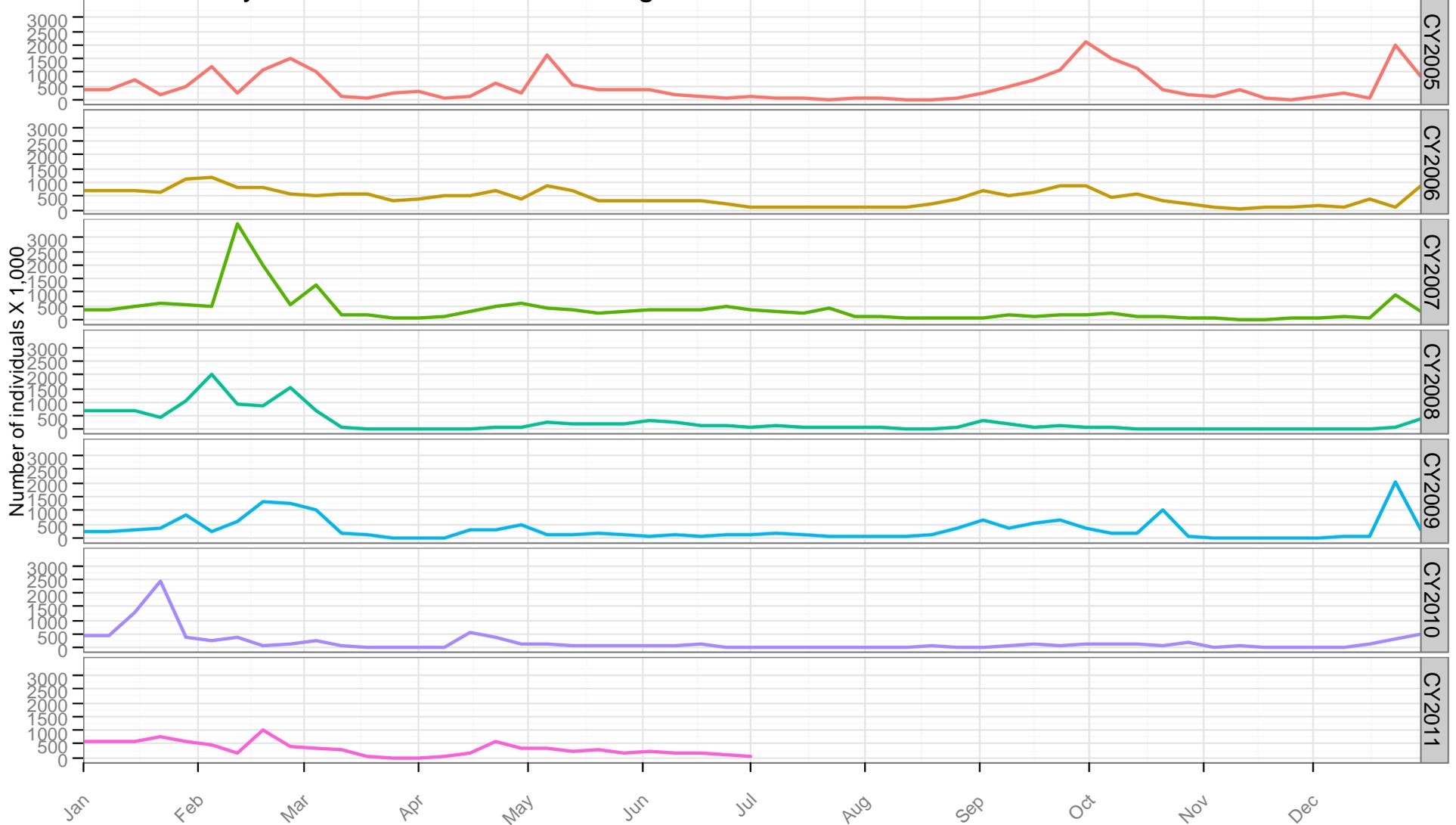


Figure 6. Weekly estimated passage of juvenile Chinook Salmon at Red Bluff Diversion Dam (RK391), by calendar year. Fish were sampled using rotary-screw traps for the period January 1 2005 to June 30 2011