

Ohau Channel trout monitoring



•Photo taken 2009-10 survey

Is the diversion wall affecting trout fisheries?

Lake Rotoiti fisheries

Trout size (food - smelt migration)

Wild recruitment (trout migration)

Ohau Channel fisheries

Trout size (food - smelt)

Angler catch rates (trout abundance)



•Photo:2009-10 survey

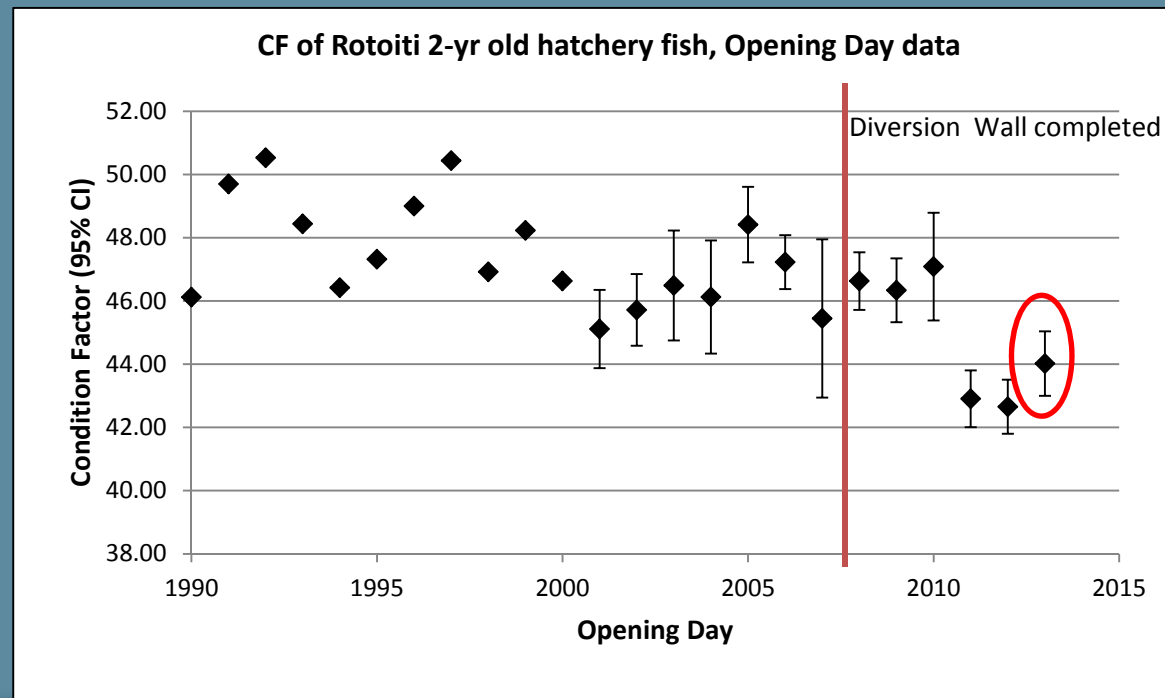
Surveying the fisheries

1. Lake Rotoiti Creel Survey Information
2. Ohau Channel Creel Survey



Lake Rotoiti Creel Surveys - Food

- Opening Day Rotoiti 2-yr-old condition, down 2011-2012
- Condition has improved slightly for Opening Day 2013



Lake Rotoiti Creel Surveys - Wild

- The % wild fish from Lake Rotoiti stable since 2008 (30%), also previously at that level (2001)
- % young wilds in catch also remained fairly consistent (47% average)
- Poorer angling generally across Rotorua lakes over 2012 summer
- Winter catch rates improved 2012-2013 Lake Rotoiti (low summer harvest)
- Rotoiti and Rotorua on the improve (fish quality)
- Tarawera and Okataina dipping slightly



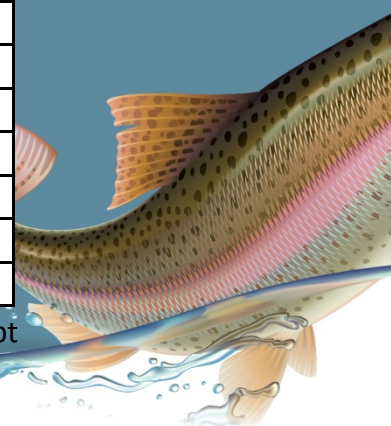
Ohau Channel Creel Surveys

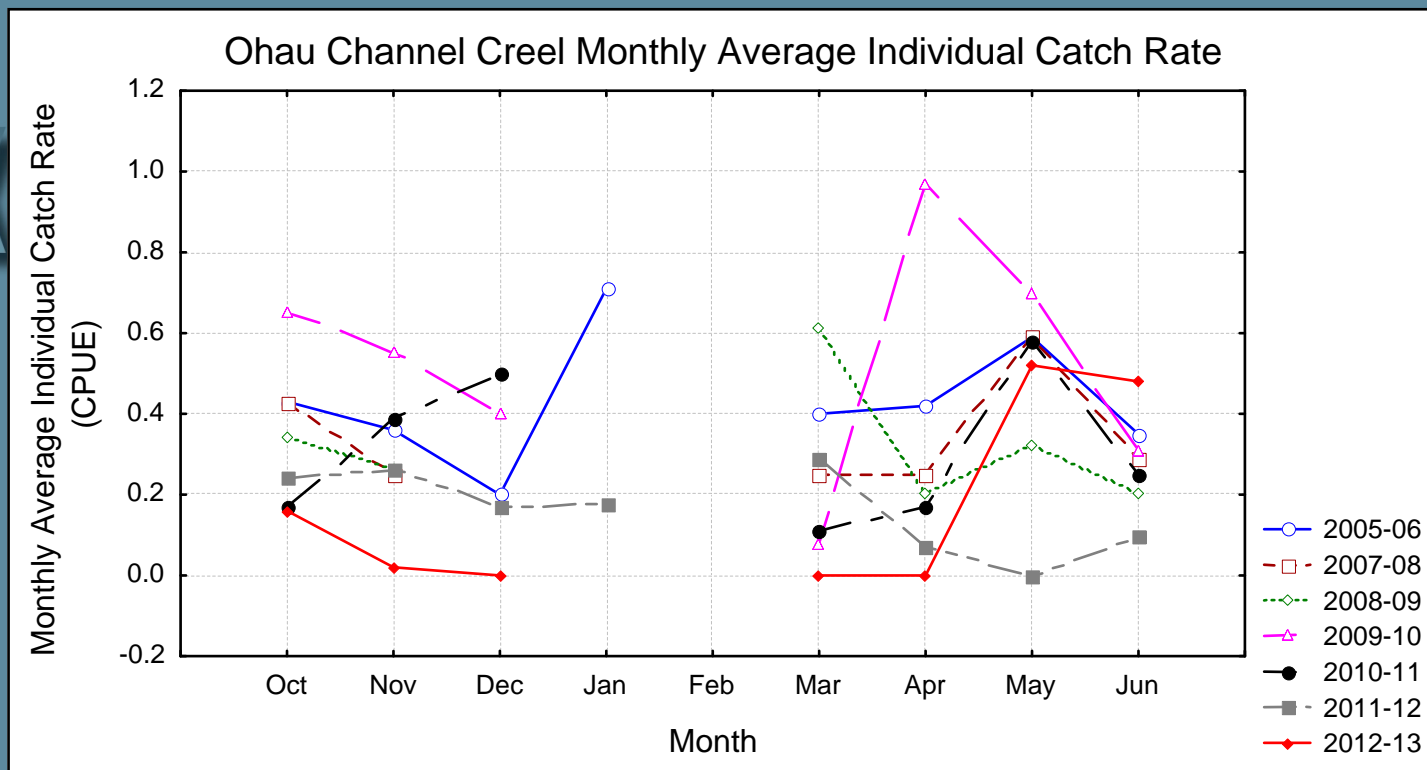
	2012-13	2011-12	2010-11	2009-10	2008-09	2007-08	2005-06
Survey events	82	82	82	82	82	82	82
Nil angler encounters	38	15	19	28	22	17	3
Total Anglers	163	270	412	518	373	496	576
Anglers per survey*	4	4	7	10	6	8	7

- 2012-2013 most 'no shows' recorded
- Angler numbers down overall
- Lowest number of Angler Hours recorded
- Average individual Cpue (fish/rod hr) Just above 2011-12 season

	2012-13	2011-12	2010-11	2009-10	2008-09	2007-08	2005-06
Hrs fished	390.75	521.5	826.5	1015.5	728.10	934.15	1099.1
Kept	73	94	125	394	212	371	349
OSRT	15	33	90	221	42	24	102
USRT	14	36	29	14	4	16	34
CPUE(sum)	0.23	0.24	0.26	0.60	0.35	0.42	0.41
HPUE(sum)	0.19	0.18	0.15	0.39	0.29	0.40	0.32
Avg indiv' cpue	0.23	0.20	0.27	0.61	0.30	0.40	0.42

OSRT = Oversized Returned, USRT = Undersized returned, CPUE = fish/hr caught, HPUE = fish/hr kept



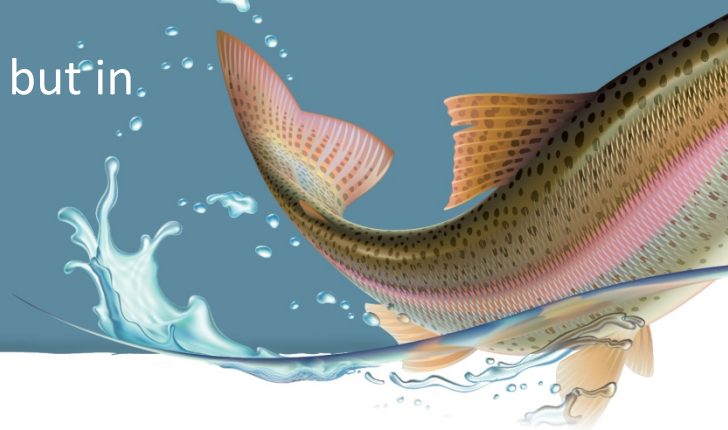


2012-13 Season	Hrs	Kept	OSRT	USRT	cpue Sum	cpue indiv
Opening Weekend	151	23	2	5	0.17	0.15
All October	275.5	42	7	5	0.18	0.16
November	35	1	0	3	0.03	0.02
December	0	0	0	0	0.00	0.00
Jan & Feb	0	0	0	0	0.00	0.00
March	0	0	0	0	0.00	0.00
April	0	0	0	0	0.00	0.00
May	32	12	3	4	0.47	0.52
June	48	18	5	2	0.48	0.48

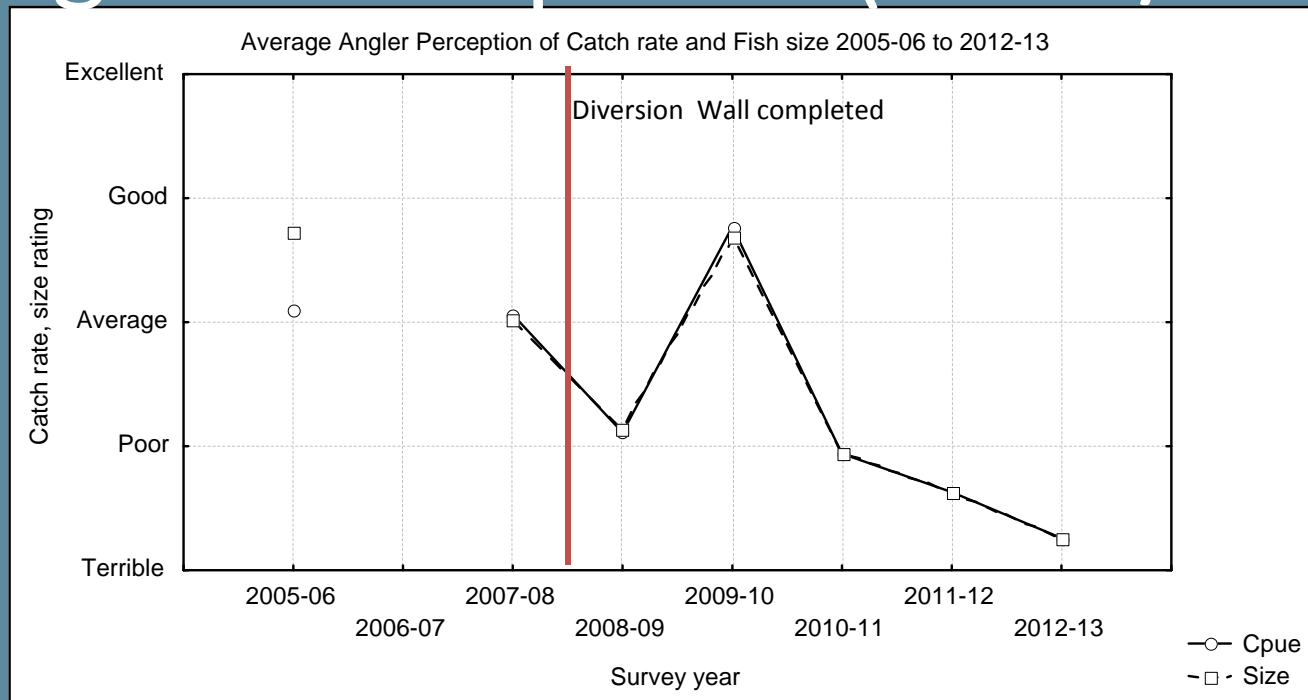
Fish stats – Ohau Channel catch

	2012-13	2011-12	2010-11	2009-10	2008-09	2007-08	2005-06
Brown length	614	669	672	650	702	675	662
Brown weight	2.68	3.94	3.91	4.12	4.63	4.71	4.32
Brown c.f.	39.2	46.87	45.45	53.49	47.79	53.63	52.96
Rainbow length	492	516	507	541	554	543	541
Rainbow weight	1.51	1.58	1.56	2.11	2.22	2.30	2.25
Rainbow c.f.	44.06	40.39	41.55	47.19	46.1	50.98	50.09

- Brown trout smaller and significantly lighter ($P=0.042$) and in significantly poorer condition ($P=0.019$) ($n=4$)
- Rainbows significantly smaller ($P=0.032$), lighter, but in significantly better condition ($P=0.006$)

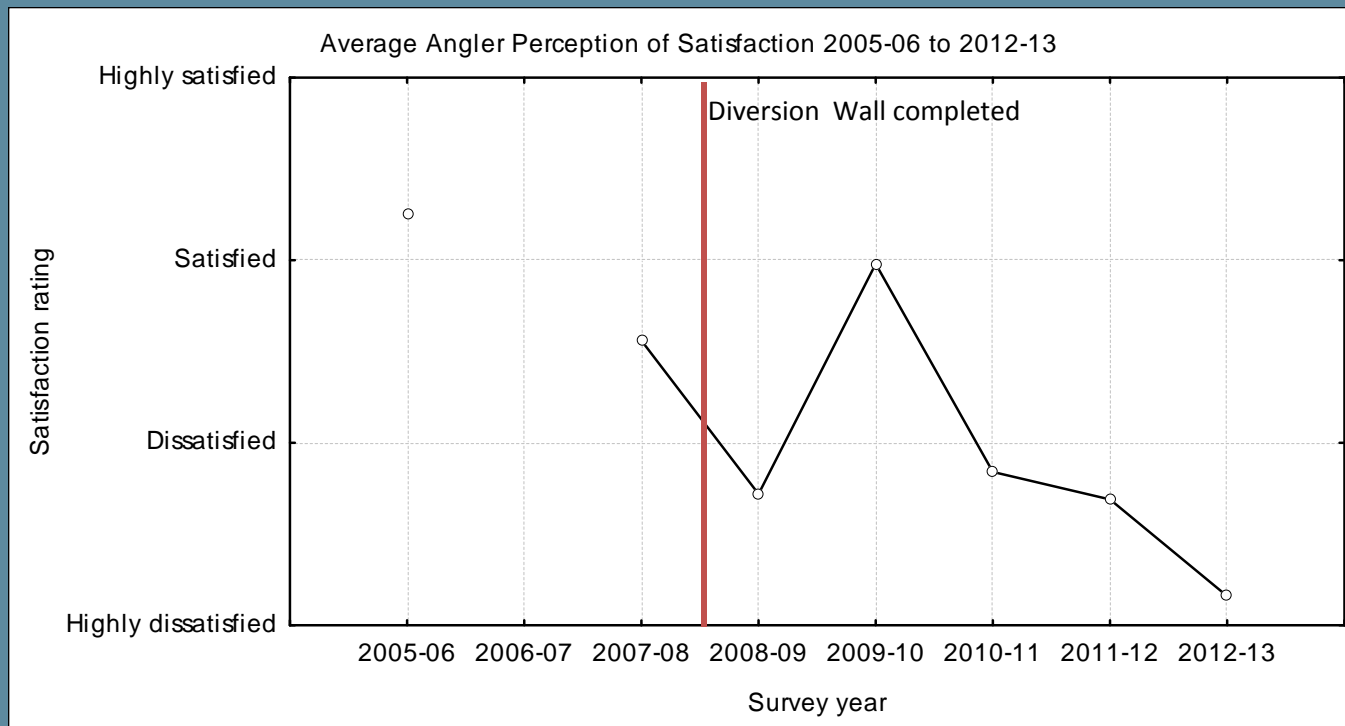


Angler Perceptions (CPUE/ Size)



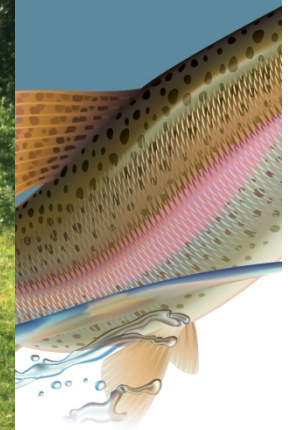
- 2012-13 season; poorest Perceptions measured
- Catch rate significantly poorer ($P=0.01$)
- Size/ condition significantly poorer ($P=0.02$)

Angler Perceptions (Satisfaction)



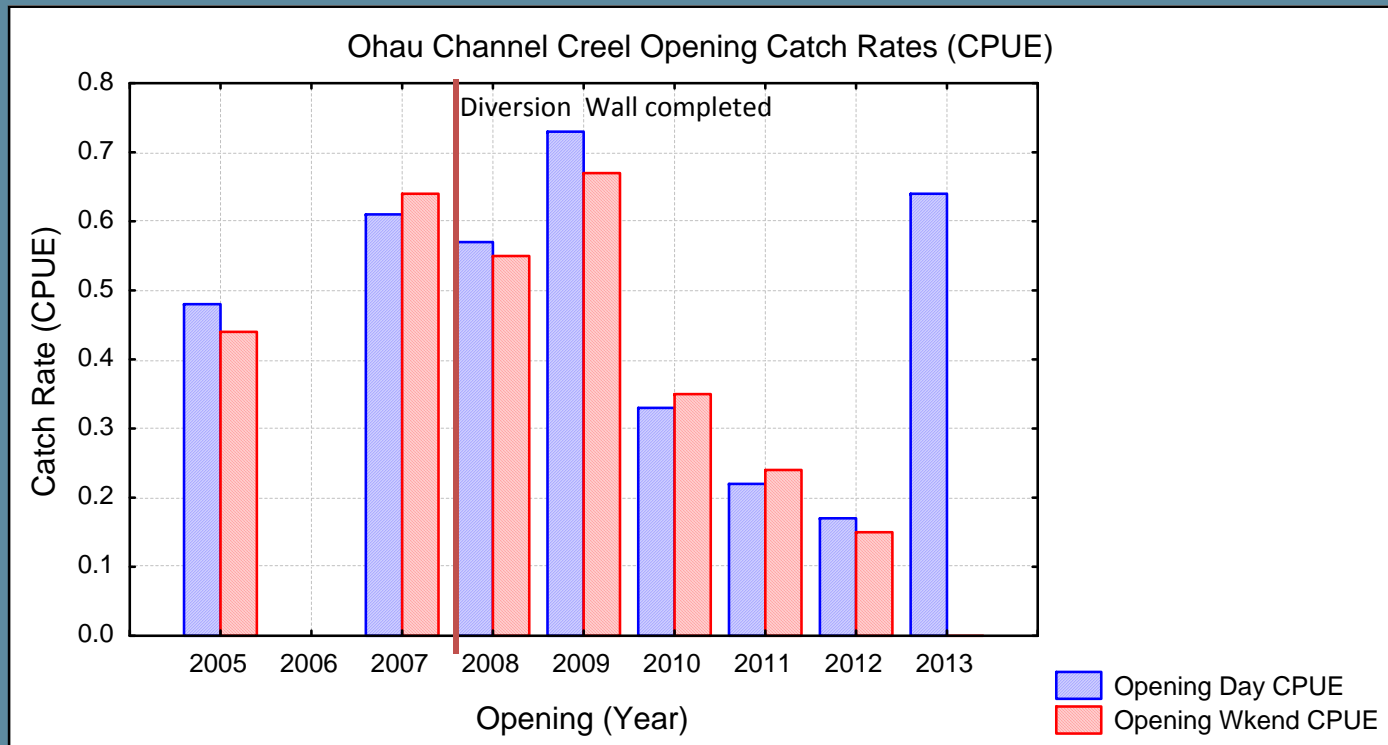
- 2012-13 Satisfaction significantly lowered ($P < 0.001$)
- Just 3% of anglers satisfied ($P = 0.007$)

2013-14 Season Ohau opening



•Photos 2013-14 Opening

2013-14 Season Ohau opening



- Smelt present/trout present this opening day
- The second best opening day cpue recorded