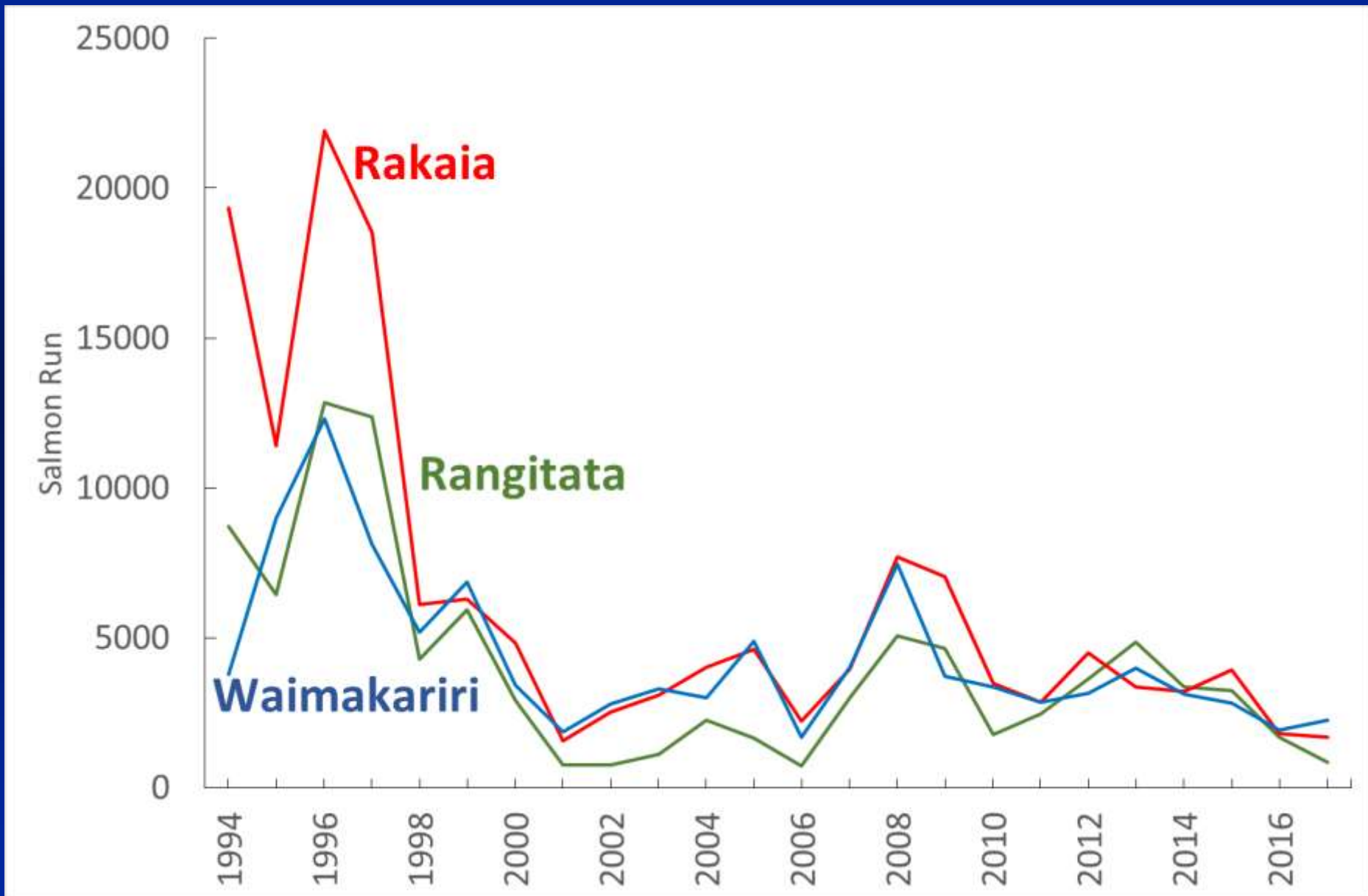


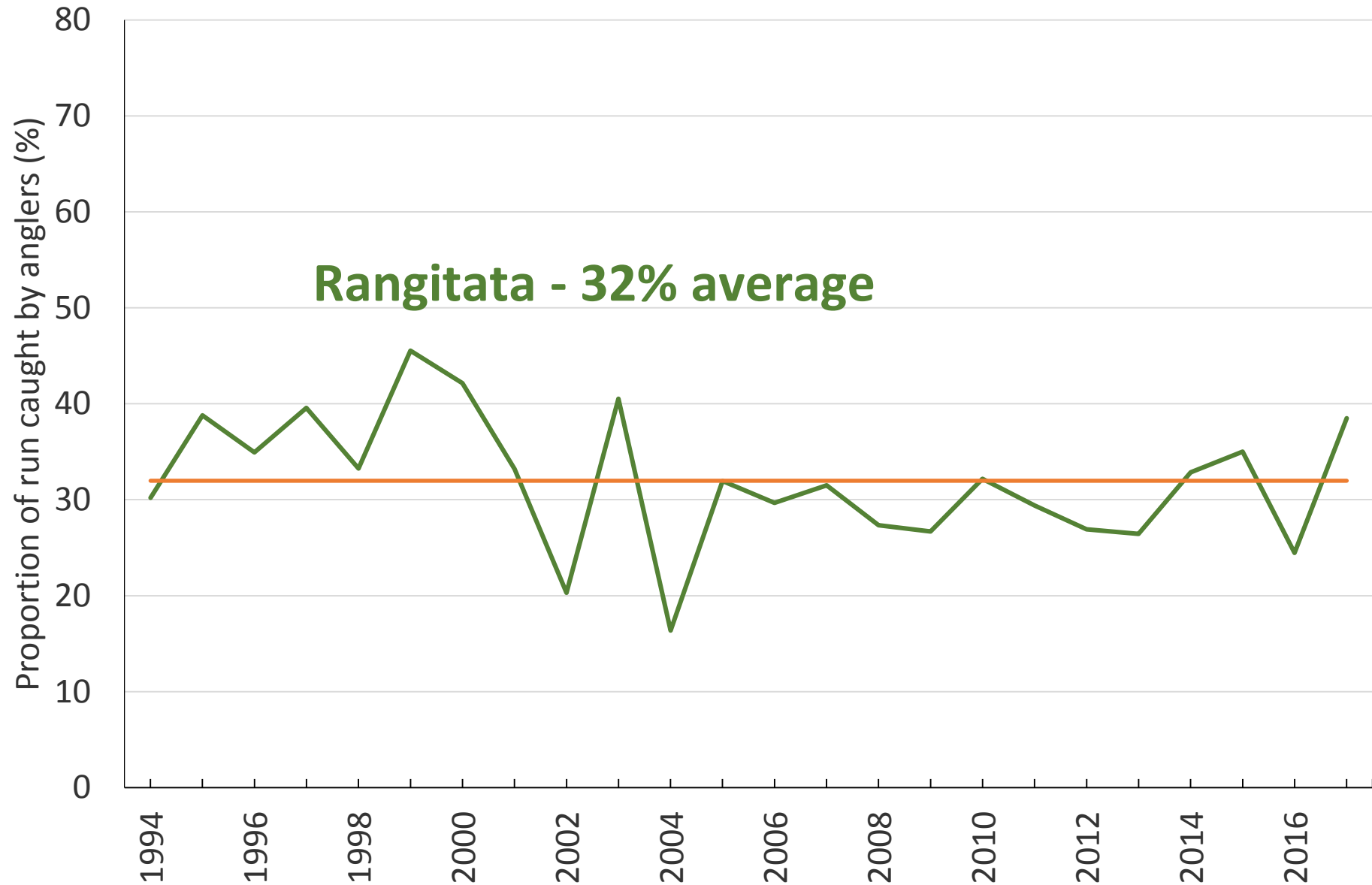
The Canterbury salmon fishery

Angler Catch Bag Limits

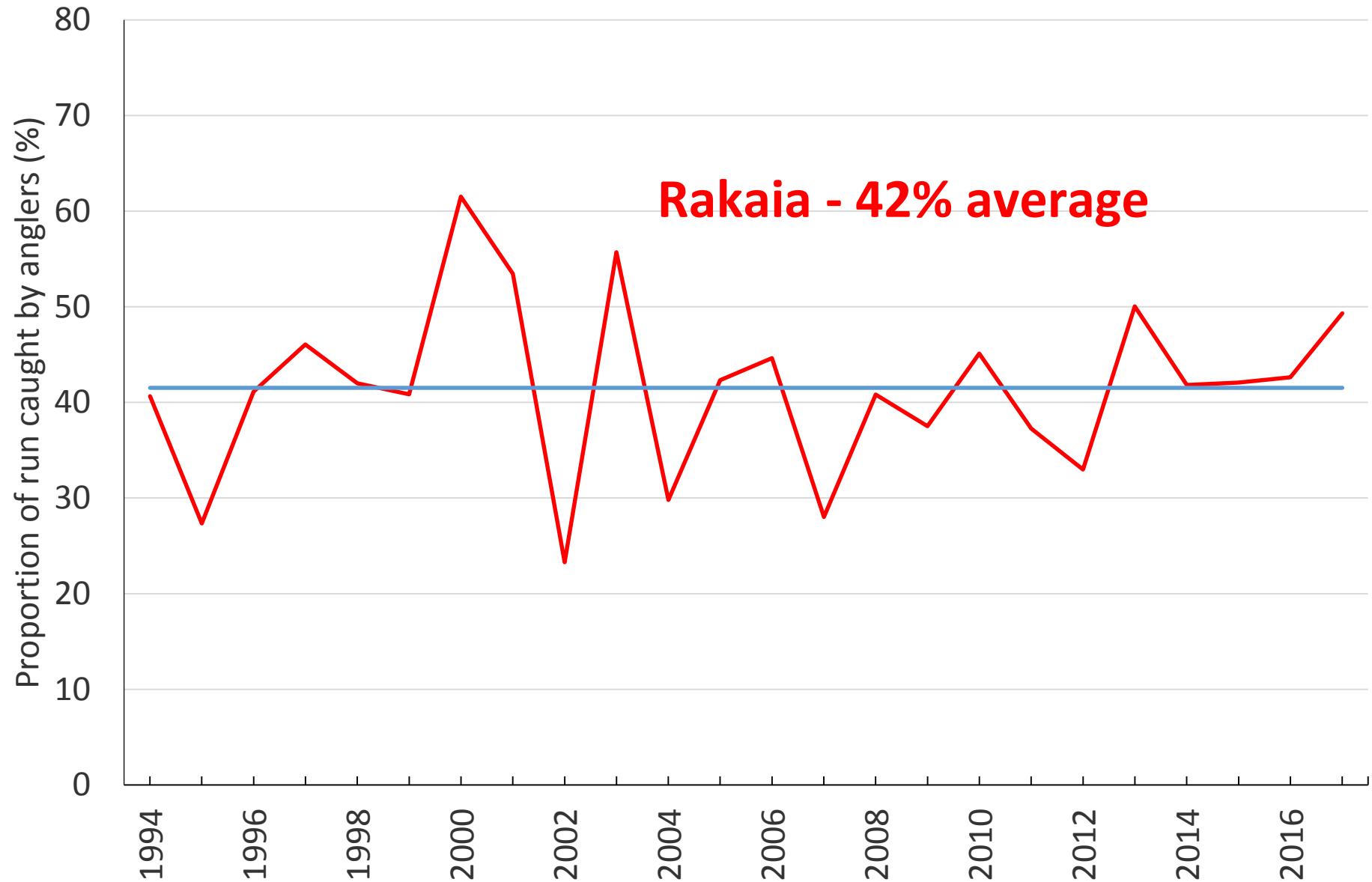
1994 to 2017 Salmon runs



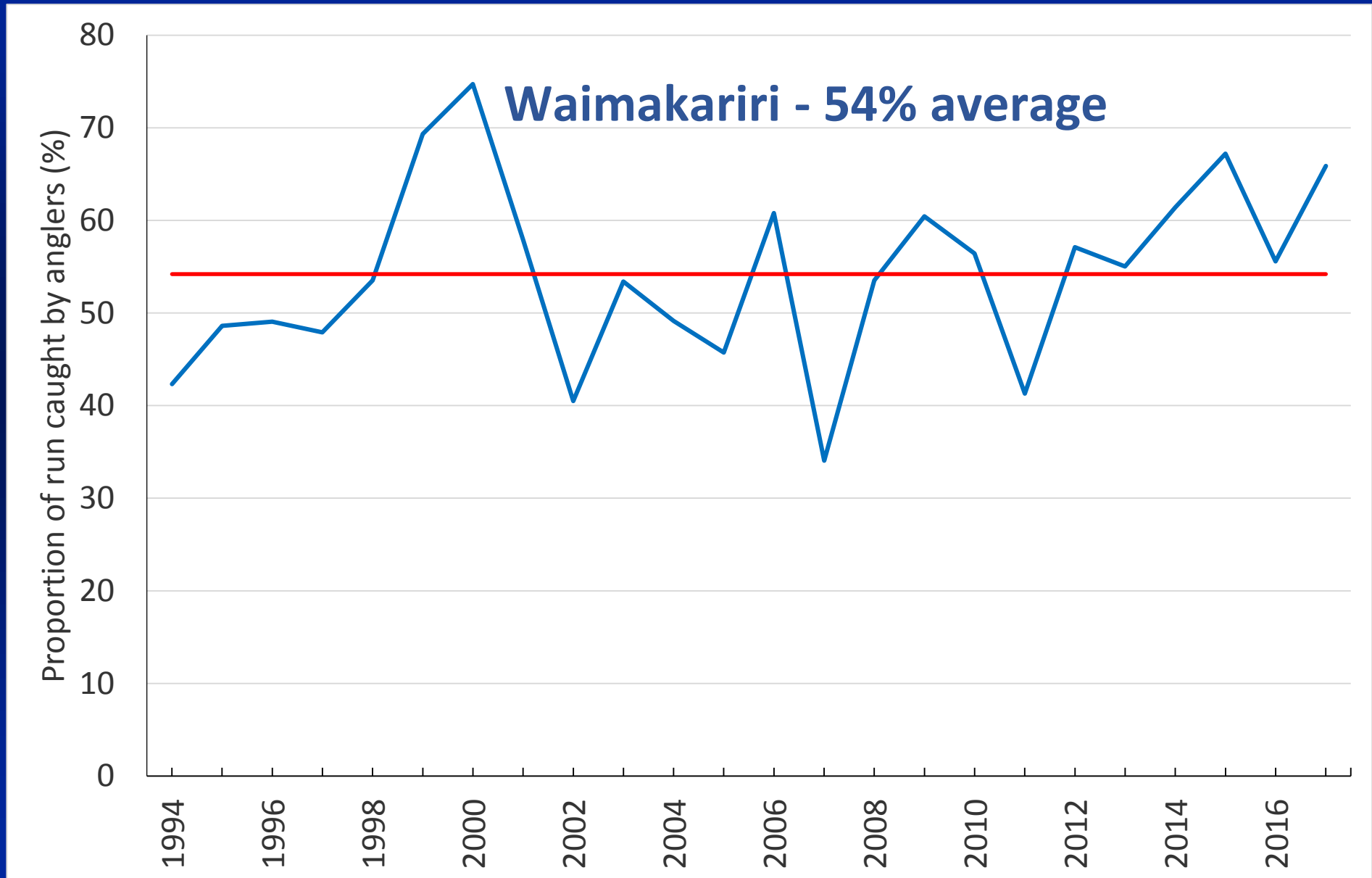
1994 to 2017 Rangitata Harvest



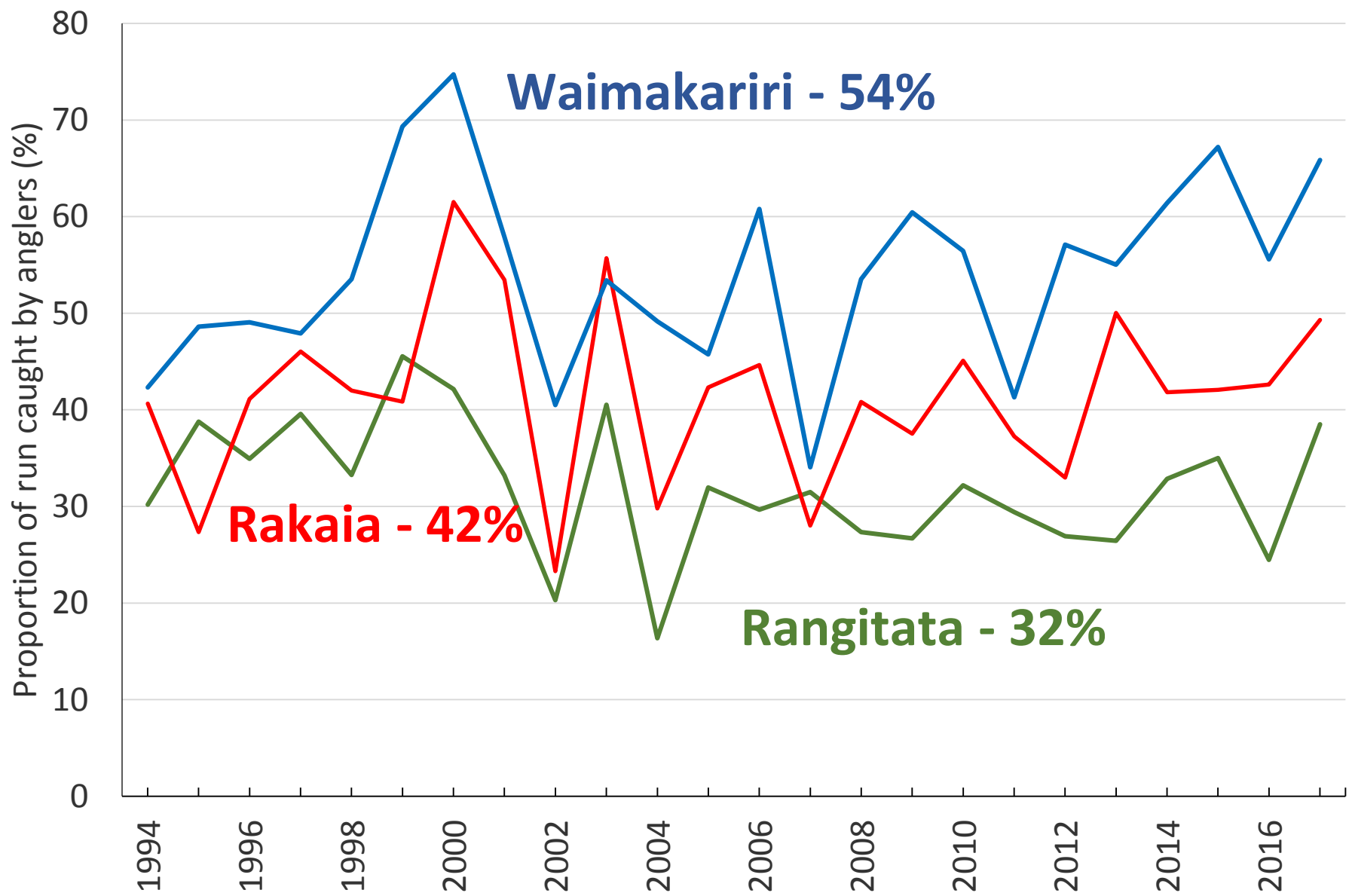
1994 to 2017 Rakaia Harvest



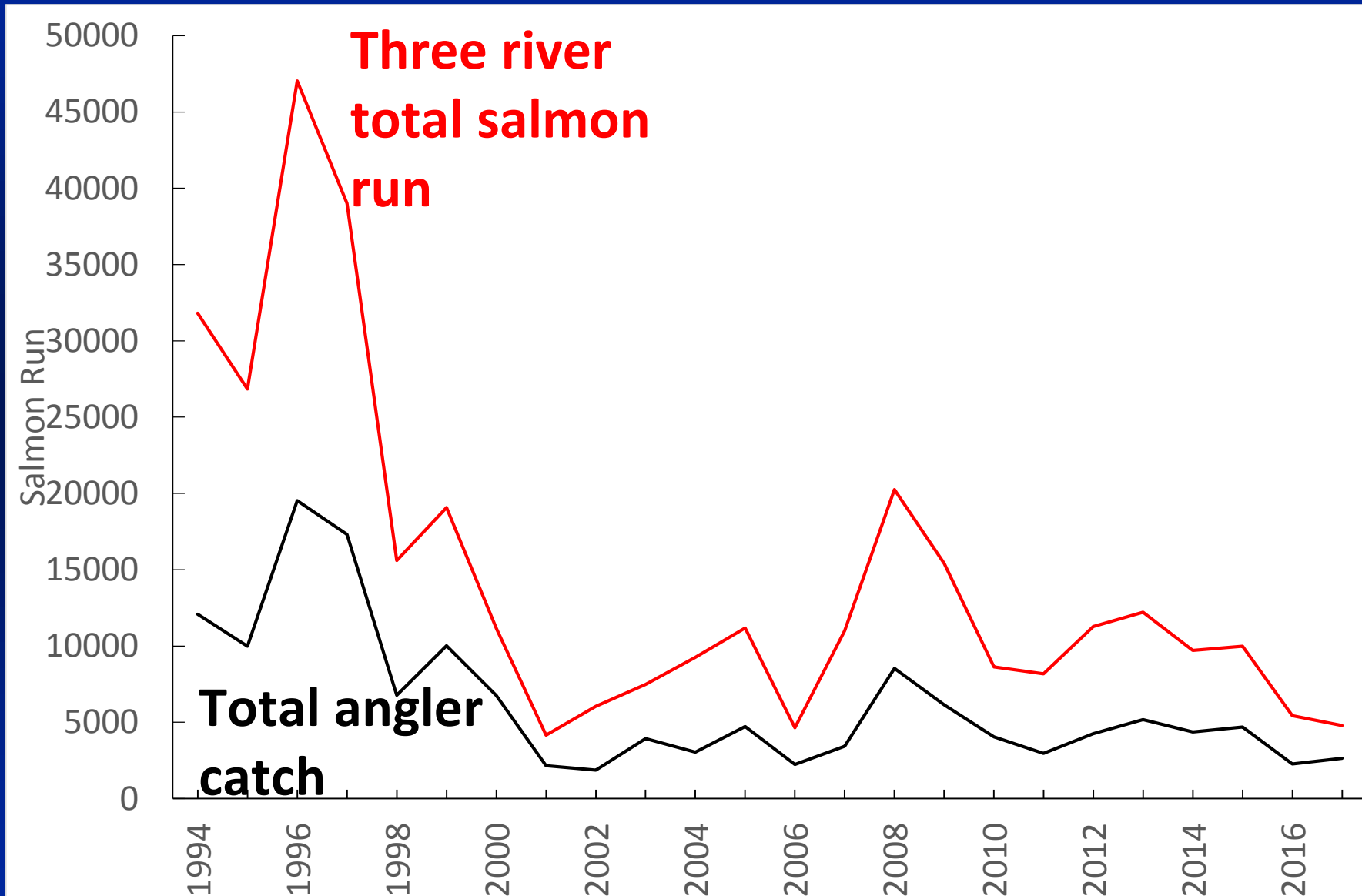
1994 to 2017 Waimakariri Harvest



1994 to 2017 3 River Harvest



1994 to 2017 Run & Catch



Summary of Harvest

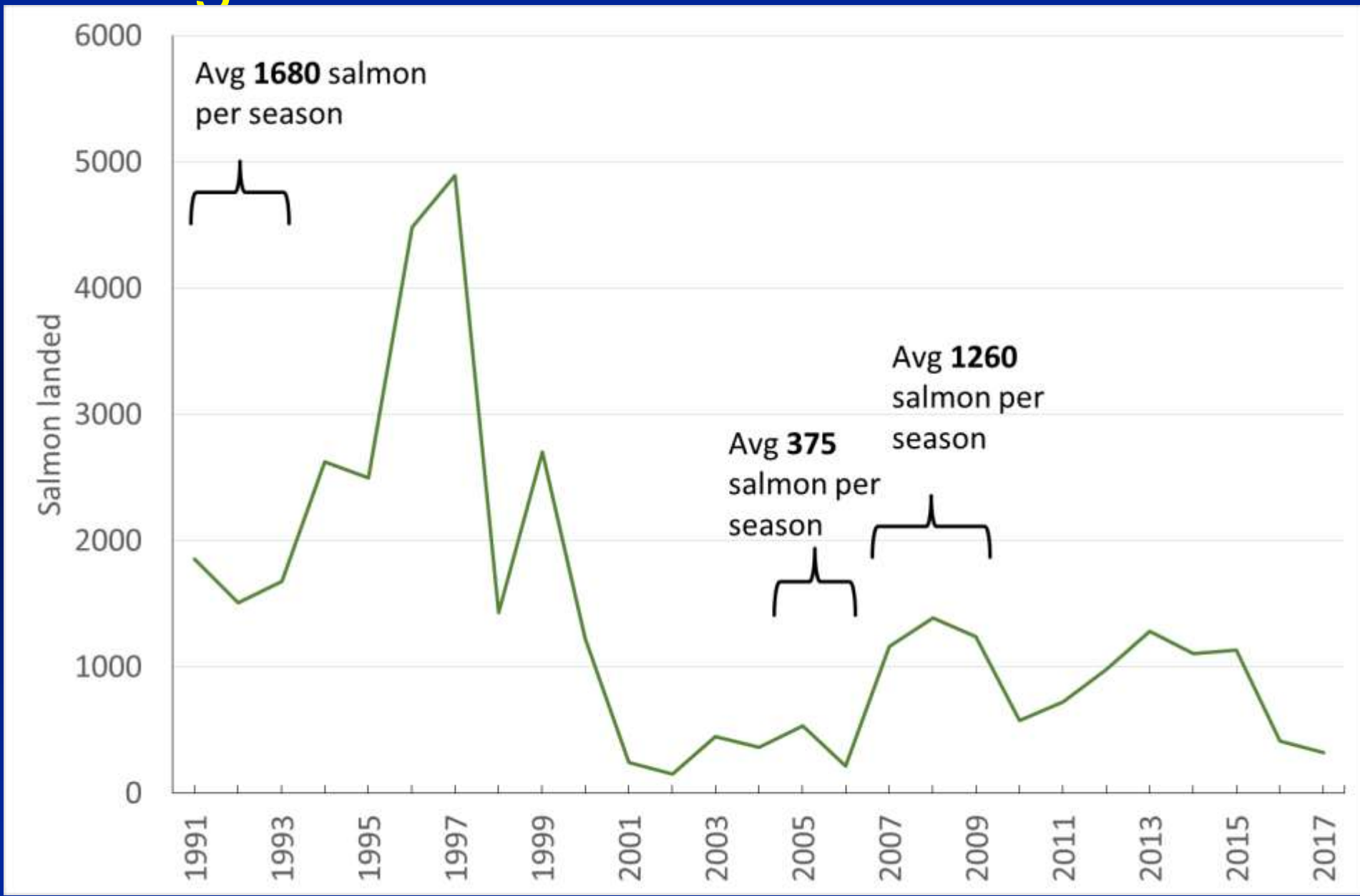
- By river, harvest ranges from 30% to 50% and across all 3 rivers averages 40%
- No evidence that the fishery with the highest harvest rates is affected more than others
- All rivers show the same harvest trends in response to size of the run and possibly river conditions

Controls on angler catch

Daily bag limits

The Rangitata River experience

Rangitata Salmon catch 1991 - 2017



Rangitata Diarists

	Diarist Total Catch	Catch of Second Fish	% Second fish
1991 – 93	407	66	16.2
2005 – 06	118	14	11.8
2007 - 09	251	30	11.9

A daily Bag Limit of One?

- Potential to save between 10% and 15% of harvest compared to current 2 bag limit
- Saving likely to be less in poor years when really needed since limit bags less frequent
- Saved fish would be available for other anglers to catch – at 30% to 50% harvest rate

Controls on angler catch

Season bag limits

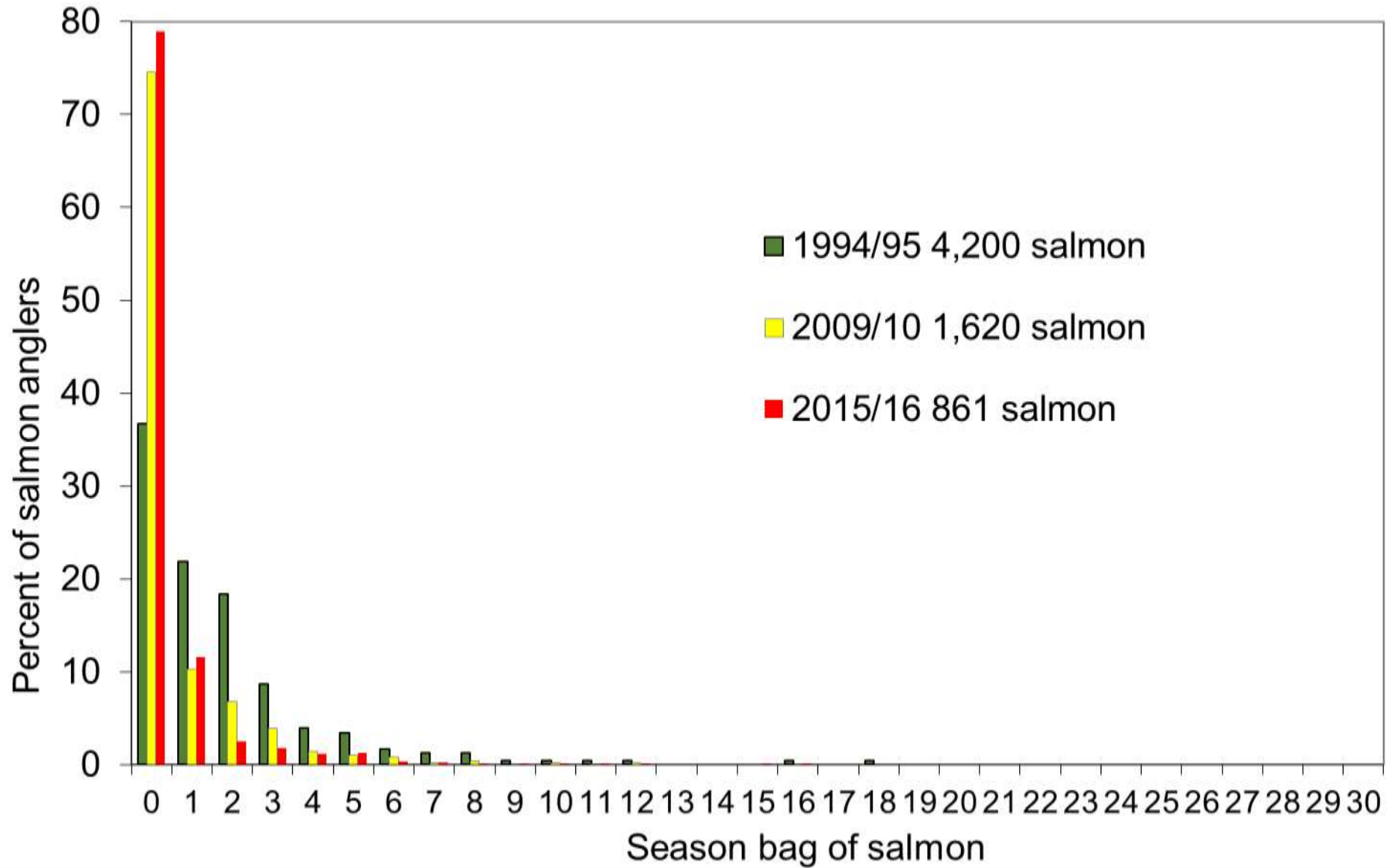
The CSI Region experience

Season bag limit for salmon

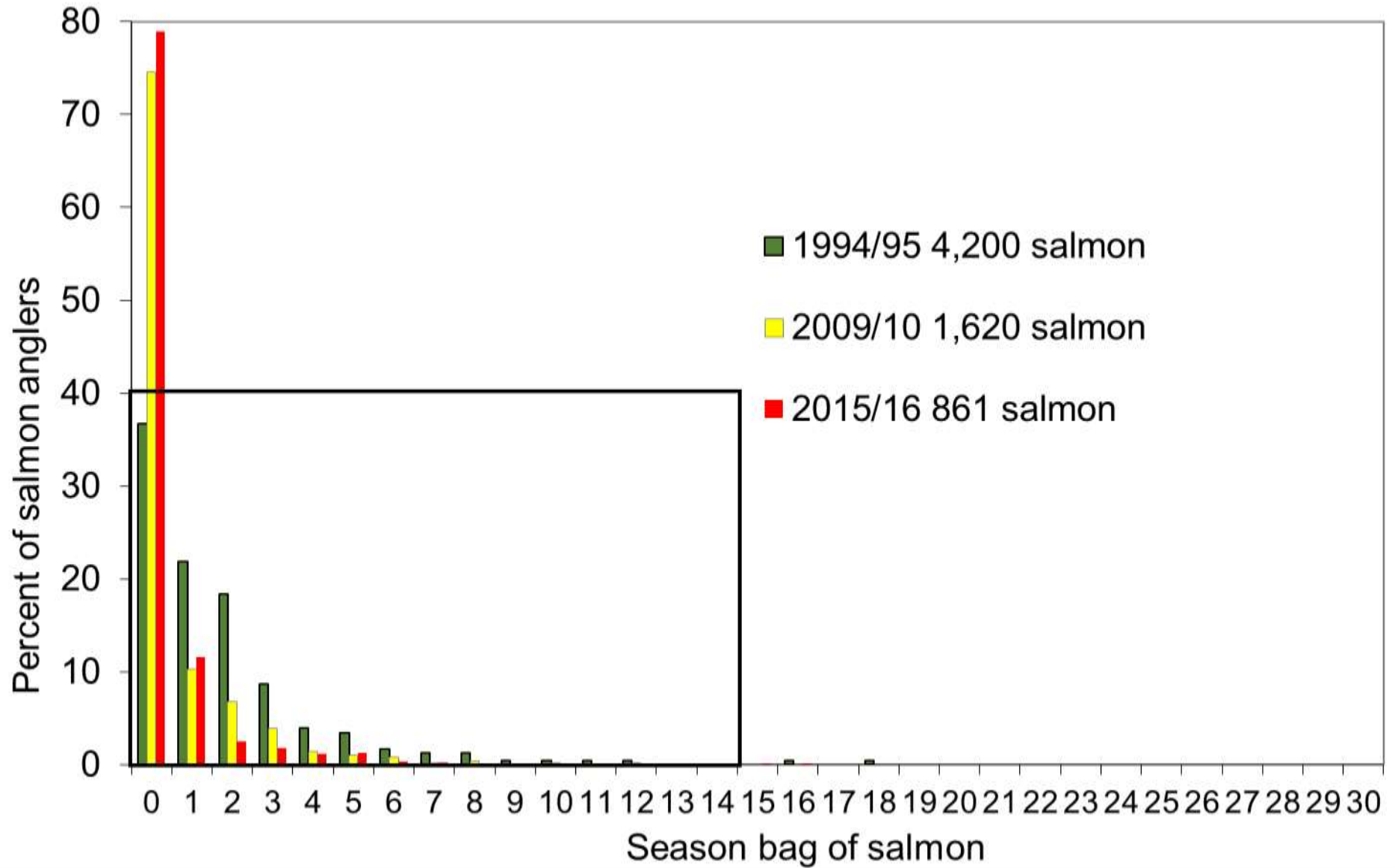
May be justified to -

1. Limit individual catch to an ethical standard
2. Ensure harvest is not limiting future run size
3. Redistribute catch to underachievers

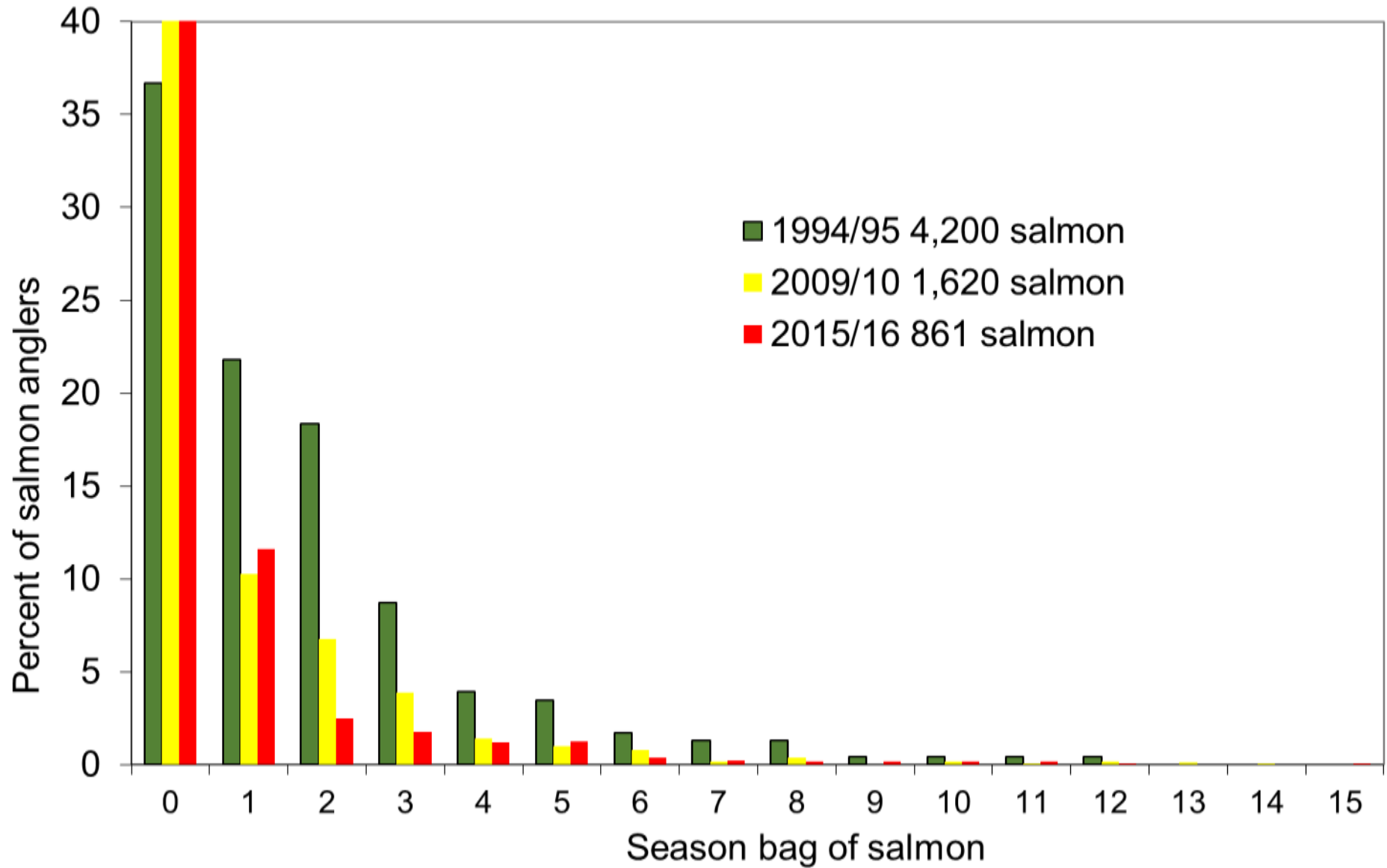
Distribution of season catch



Distribution of season catch



Distribution of season catch



Distribution of Catch

- Highly skewed
- In poor years 95% of salmon anglers catch 0, 1, 2, or 3
- Even in good years at least 30% of salmon anglers will catch 0
- Regardless of 5- to 10-fold changes in run size, 80% to 95% of anglers catch 0 to 3

If a season bag was justified
what impact would its size have
on anglers?

Impact of various season bag limits on anglers in the 2009/10 season and potential stock saved

Bag size	Successful anglers achieving bag size	<u>Potential Harvest Saved</u>	
		Number of salmon	Proportion of Total harvest
>20	<1%	25	1.5%
>10	2%	84	5%
>5	8%	230	14%
>2	33%	624	38%

2009/10 – 1,620 salmon caught by 630 anglers

Season bag summary

- Unlikely to be justified for improved catch distribution
- If sustainability is the issue, we are in trouble, season limit needs to be no more than 2
- Could be an ethical call
- Large administrative and enforcement commitment

Summary

- Current harvest at 30 to 50% appears sustainable
- Daily limit of 1 fish has maximum 10% to 15% reduction in harvest from current
- Season bag could be any size for ethical reasons. Has significant admin. and enforcement requirements
- Season bag has to be no more than 2 or 3 fish to cause a meaningful improvement in spawning

Thank You