



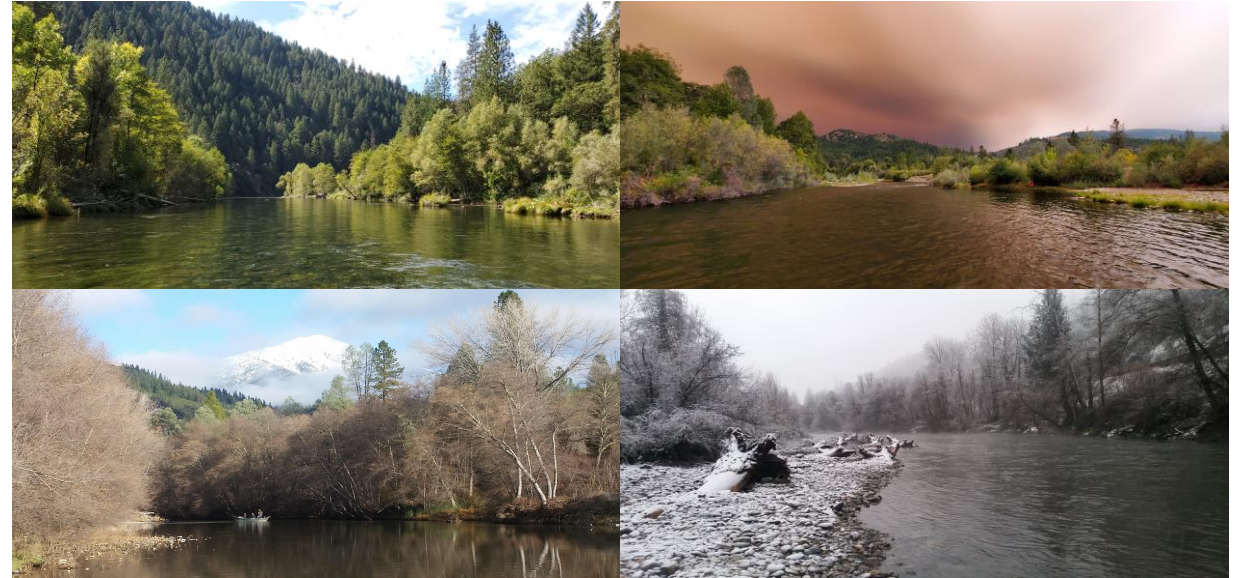
Annual Trends in Angler Effort on the Trinity River

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Fishing Seasons

- Spring Chinook Salmon
 - July 1st – August 31st
- Fall Chinook Salmon
 - September 1st – December 31st (or until quota is reached)
- Steelhead/Trout
 - All year (most popular fall and winter)



Data Sources

- Steelhead Report Card
- North Coast Salmon Report Card
- Guide logbooks
- Creel surveys



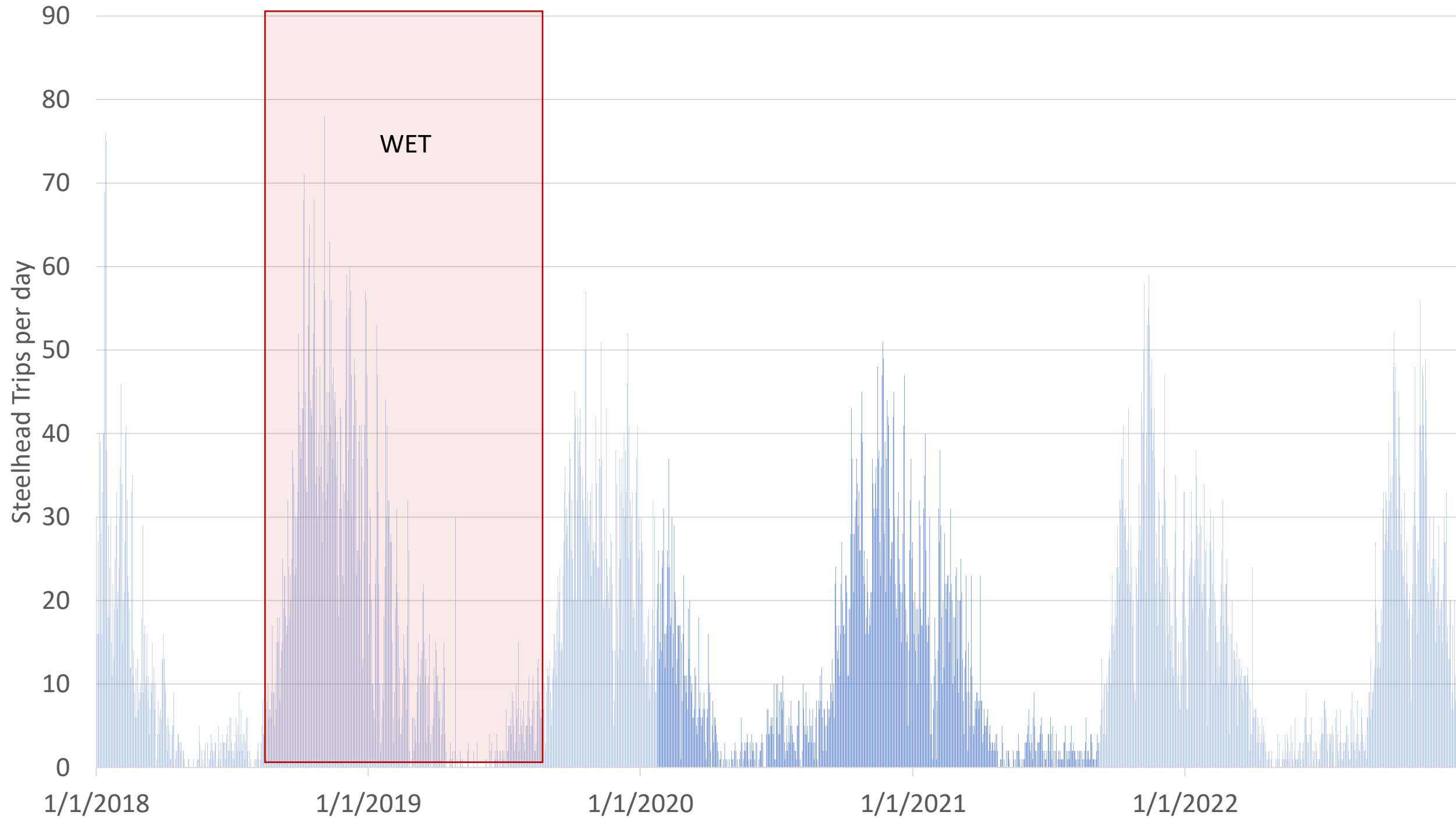
- Allows CDFW to monitor catch trends over time
- Generate revenue for funding restoration projects related to the recovery of Steelhead populations

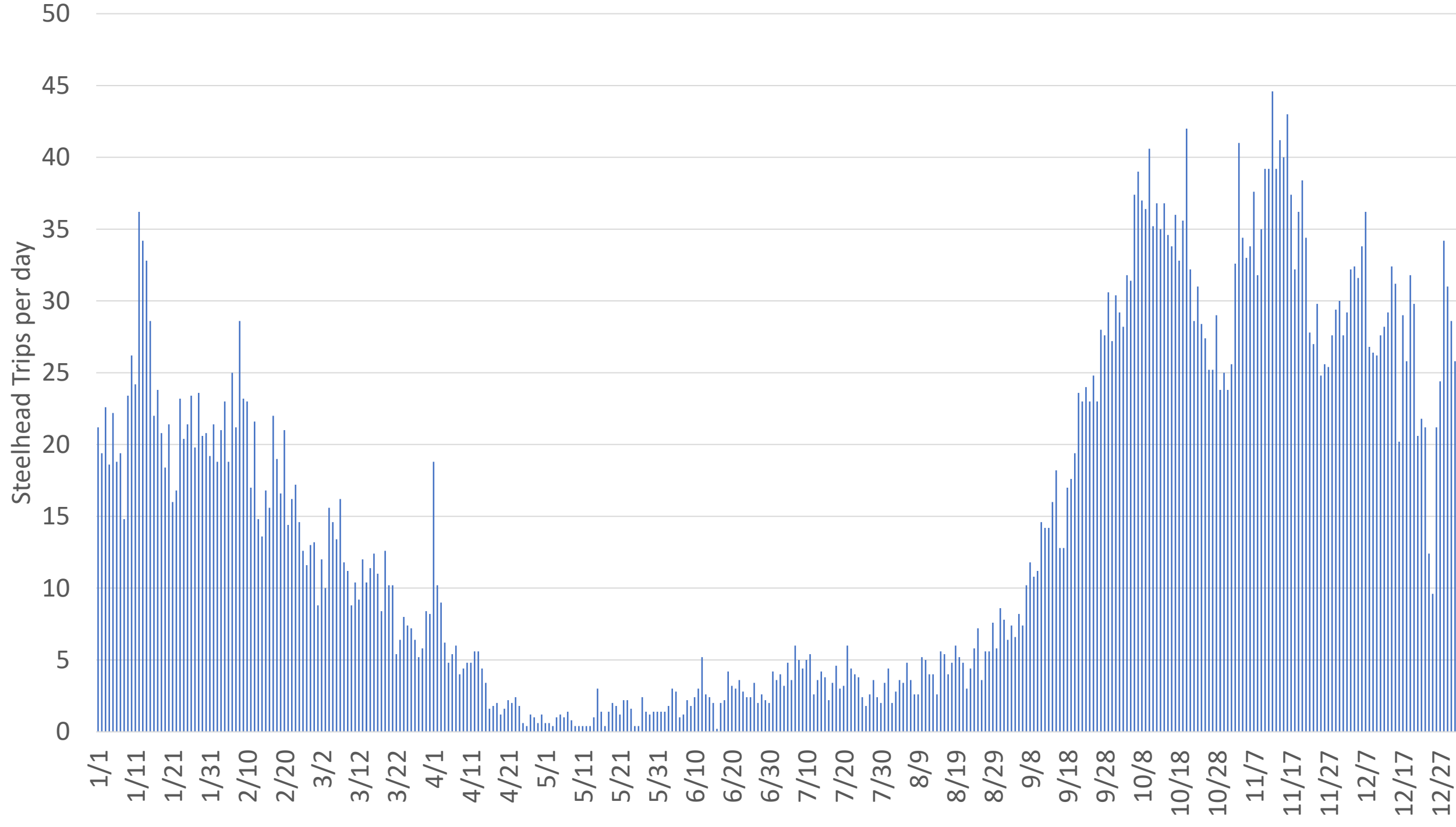
Limitations of the data

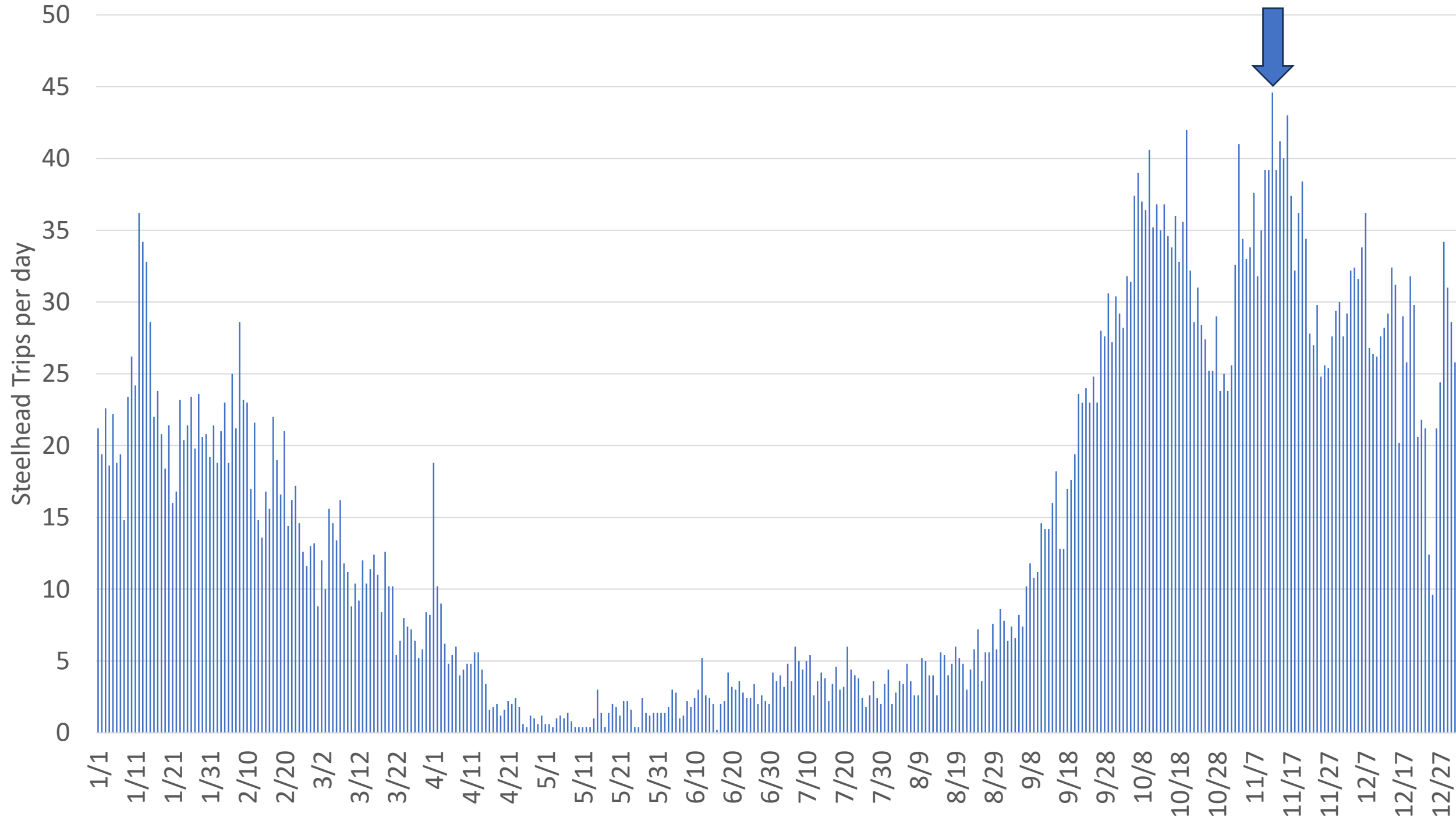
- Older data not in suitable format
- Low return rate (34% previous 5 years)
- Only has 30 entries per card
- Not specific to the mainstem Trinity River (includes tributaries)
- Only includes Steelhead-specific fishing

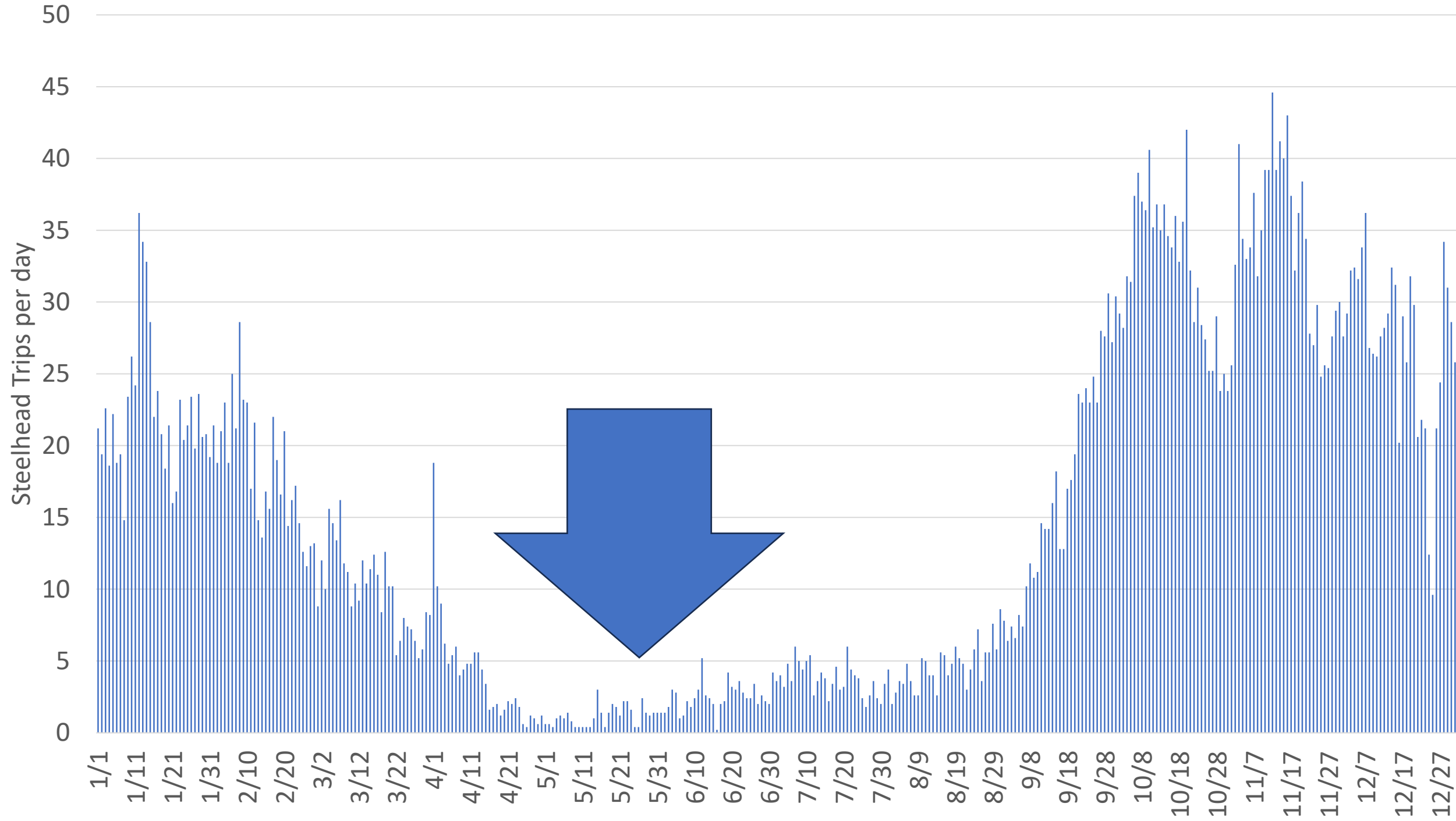
Angler ID	Physical Zip Code	County	State	Month	Day	HoursFished
112	96052	Trinity	CA	1	1	2
162	96052	Trinity	CA	1	1	1
230	95204	San Joaquin	CA	1	1	8
231	95204	San Joaquin	CA	1	1	1
242	96046	Trinity	CA	1	1	3
267	93401	San Luis Obispo	CA	1	1	6
272	95403	Sonoma	CA	1	1	4
312	96069	Shasta	CA	1	1	4
313	89519	Washoe	NV	1	1	8
316	96093	Trinity	CA	1	1	0
317	96093	Trinity	CA	1	1	0
327	96010	Trinity	CA	1	1	2
342	96161	Nevada	CA	1	1	10
349	95573	Humboldt	CA	1	1	2
356	95713	Placer	CA	1	1	10
366	96093	Trinity	CA	1	1	1
747	96041	Trinity	CA	1	1	2
870	95819	Sacramento	CA	1	1	8

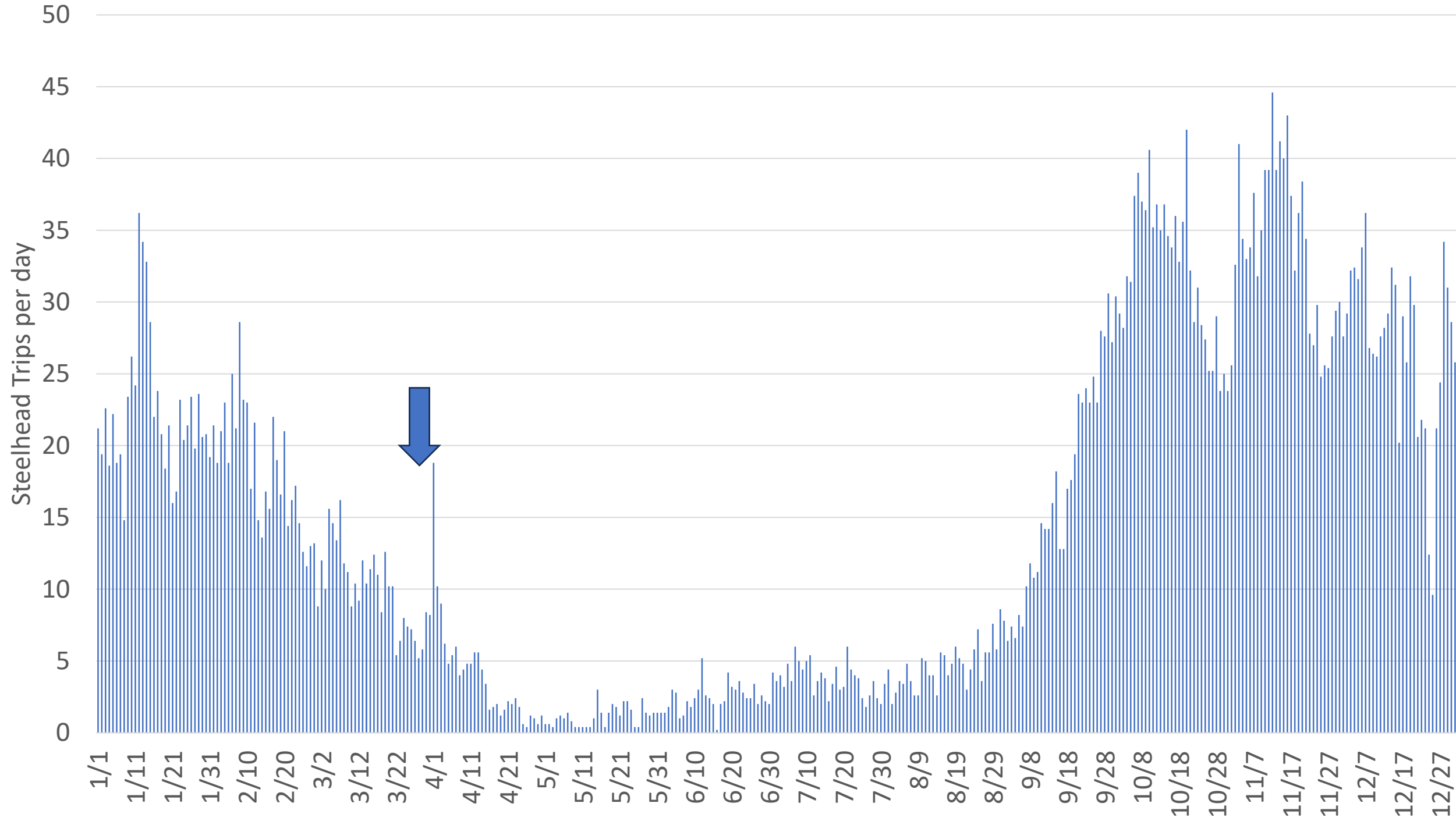


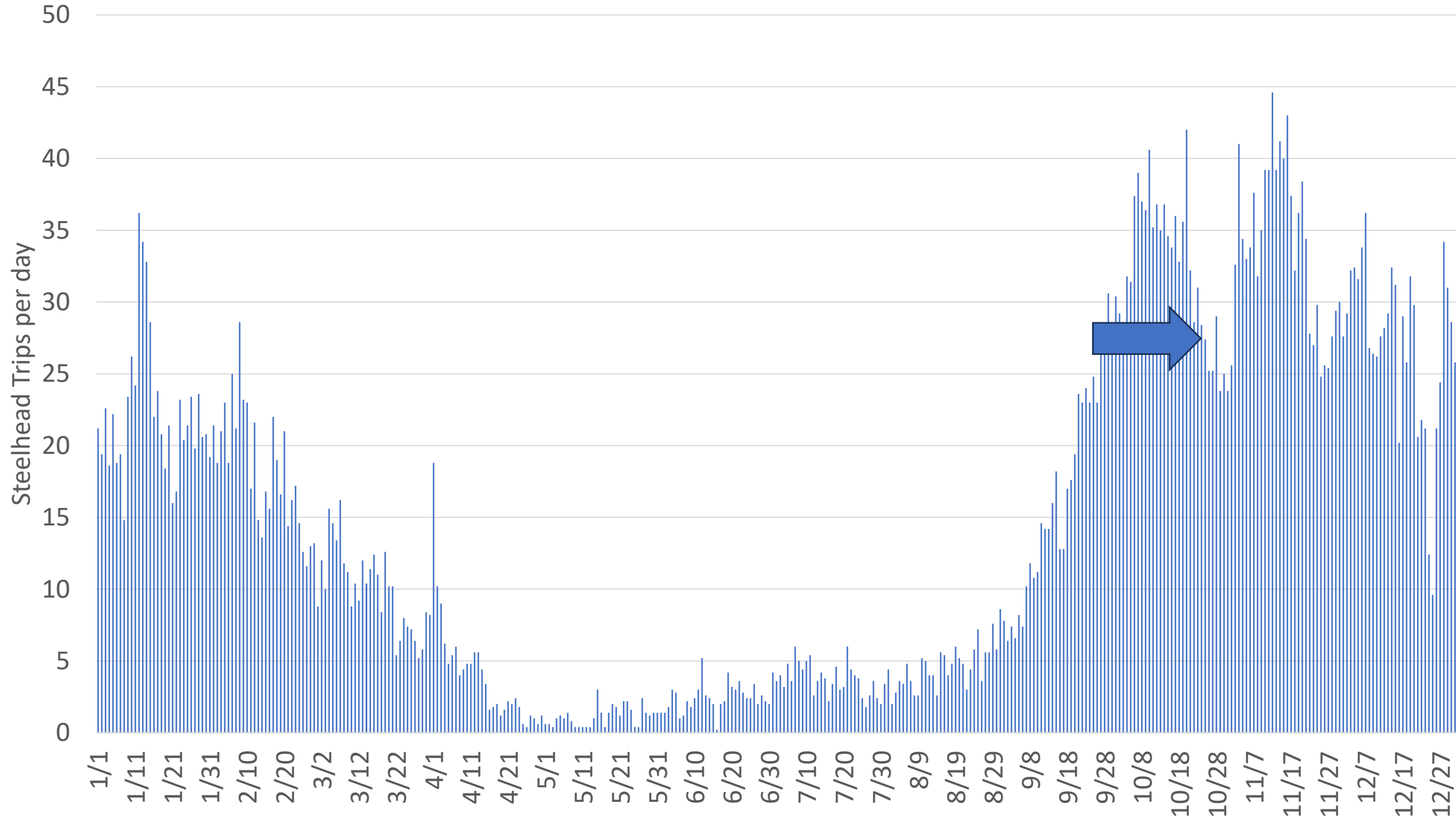


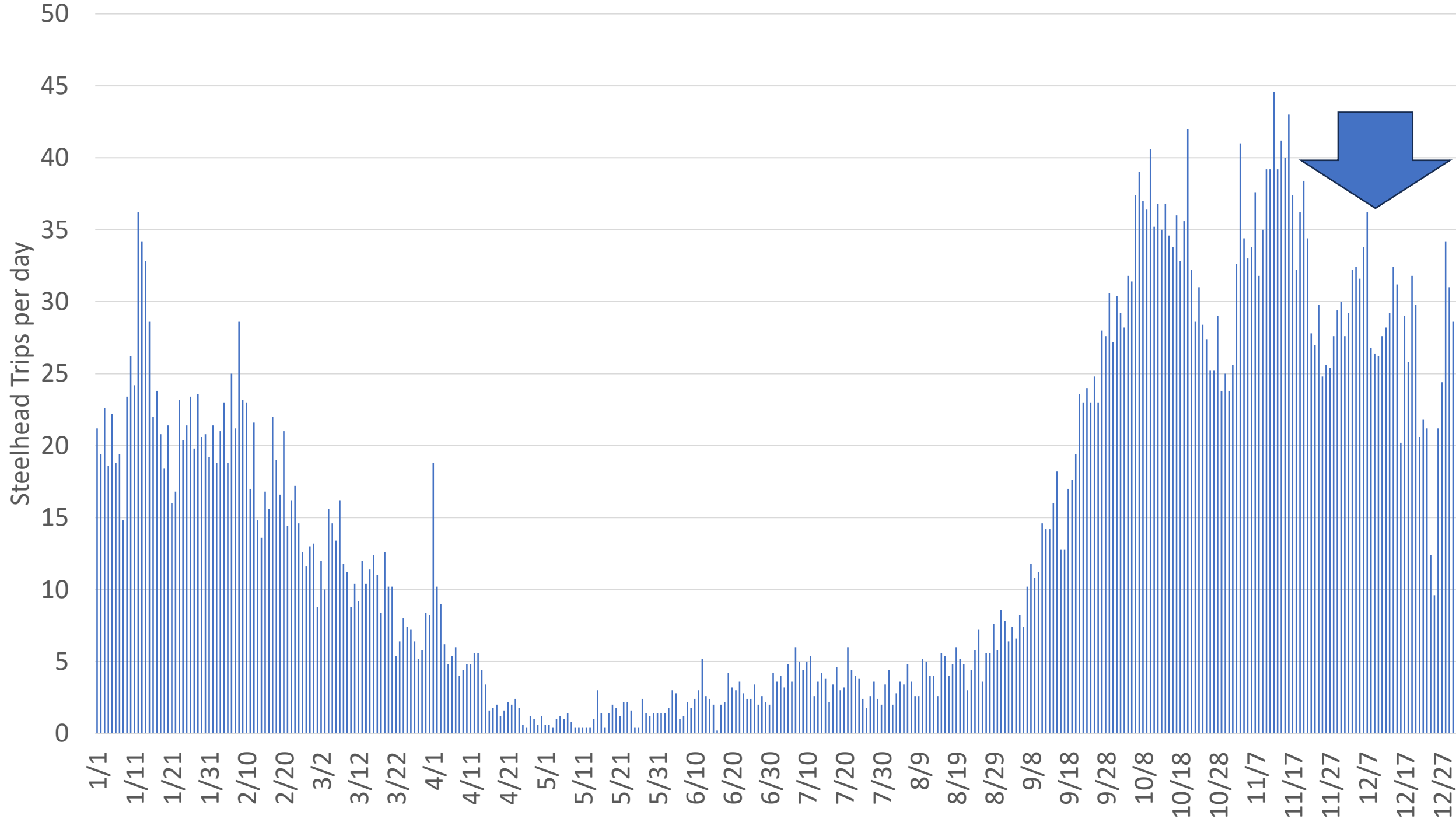


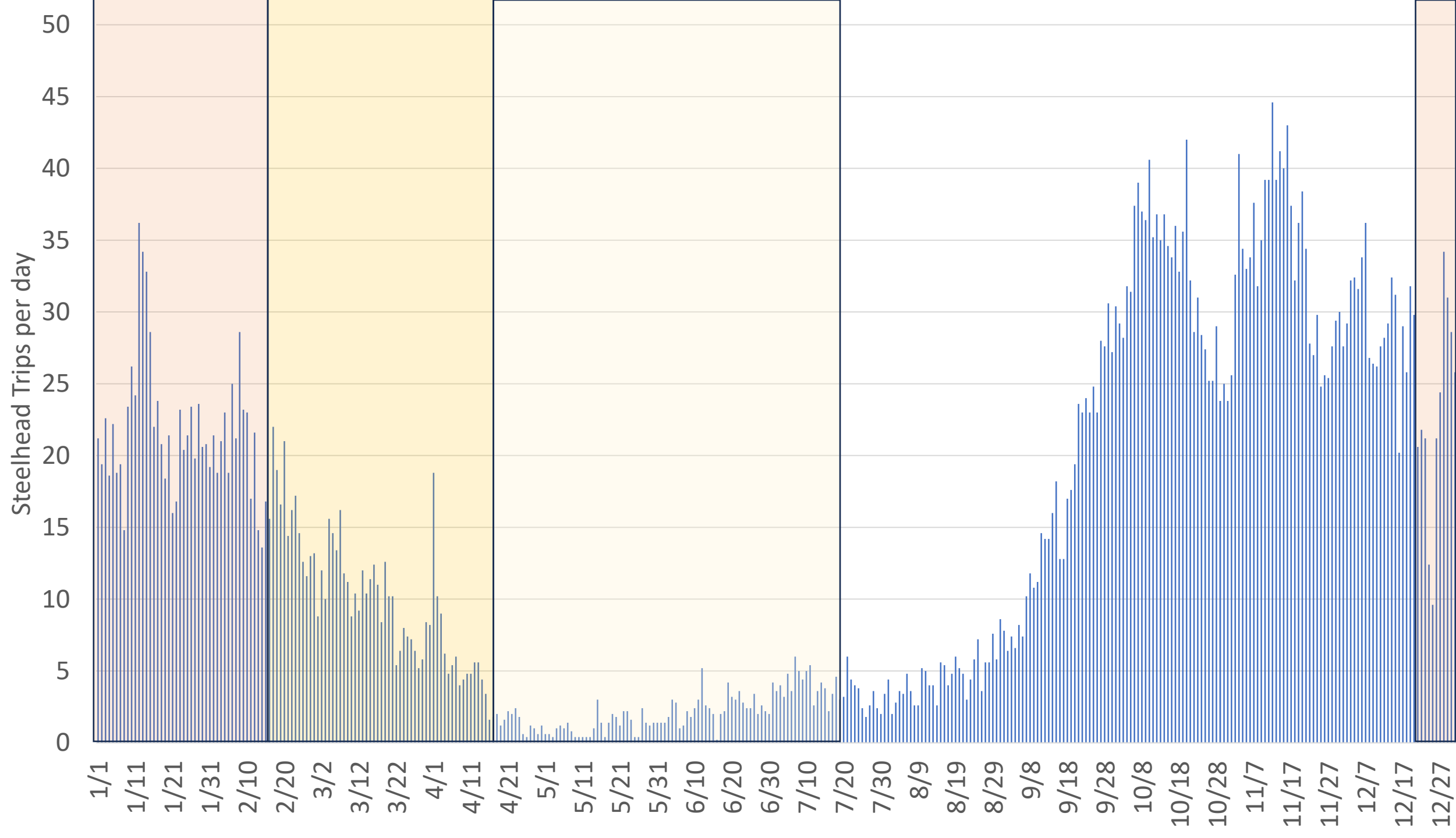




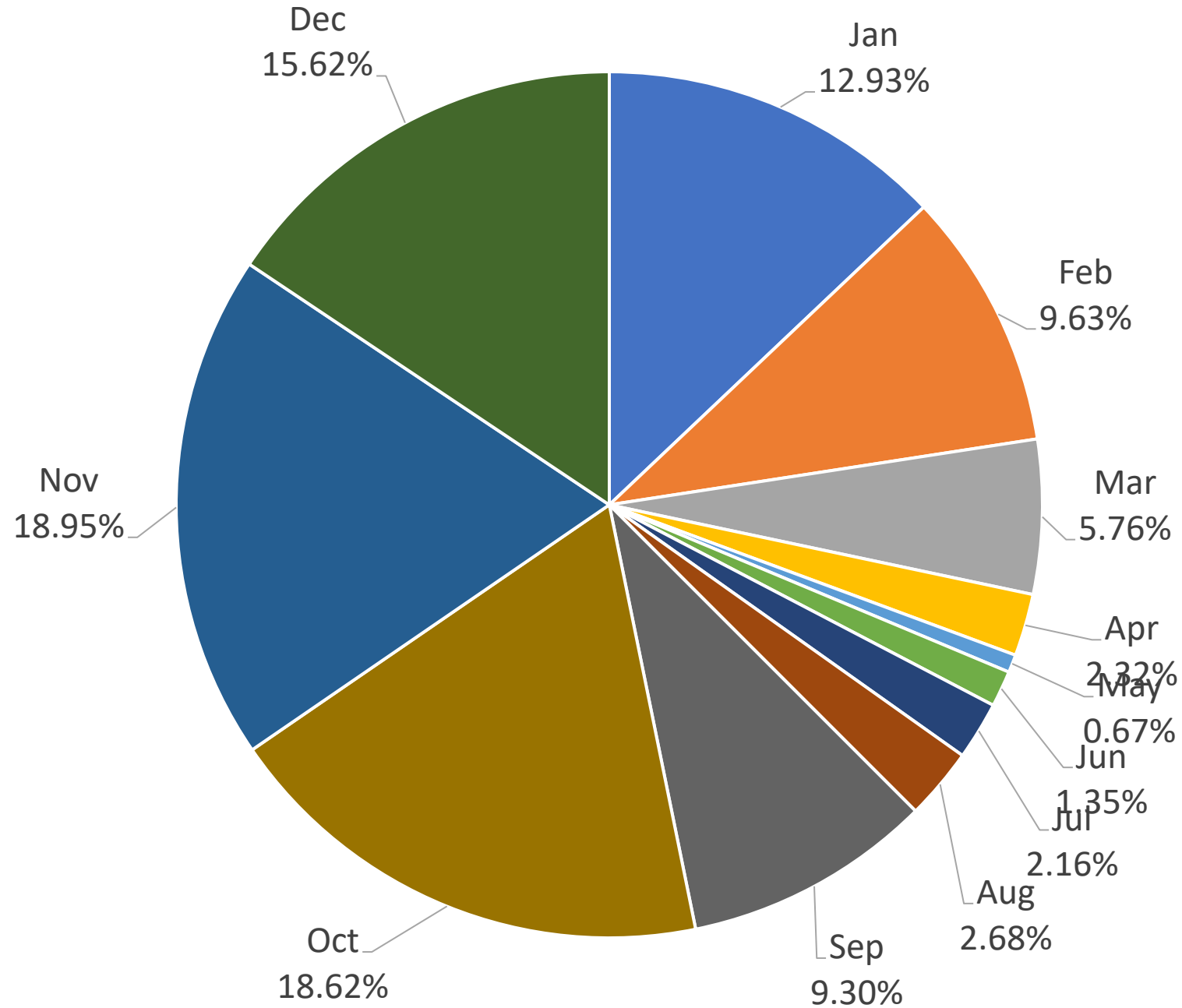








Percentage of Steelhead report card trips by month



Month	Average number of Steelhead trips per day
January	22
February	18
March	10
April	4
May	1
June	2
July	4
August	5
September	17
October	32
November	34
December	27



Where are anglers coming from?

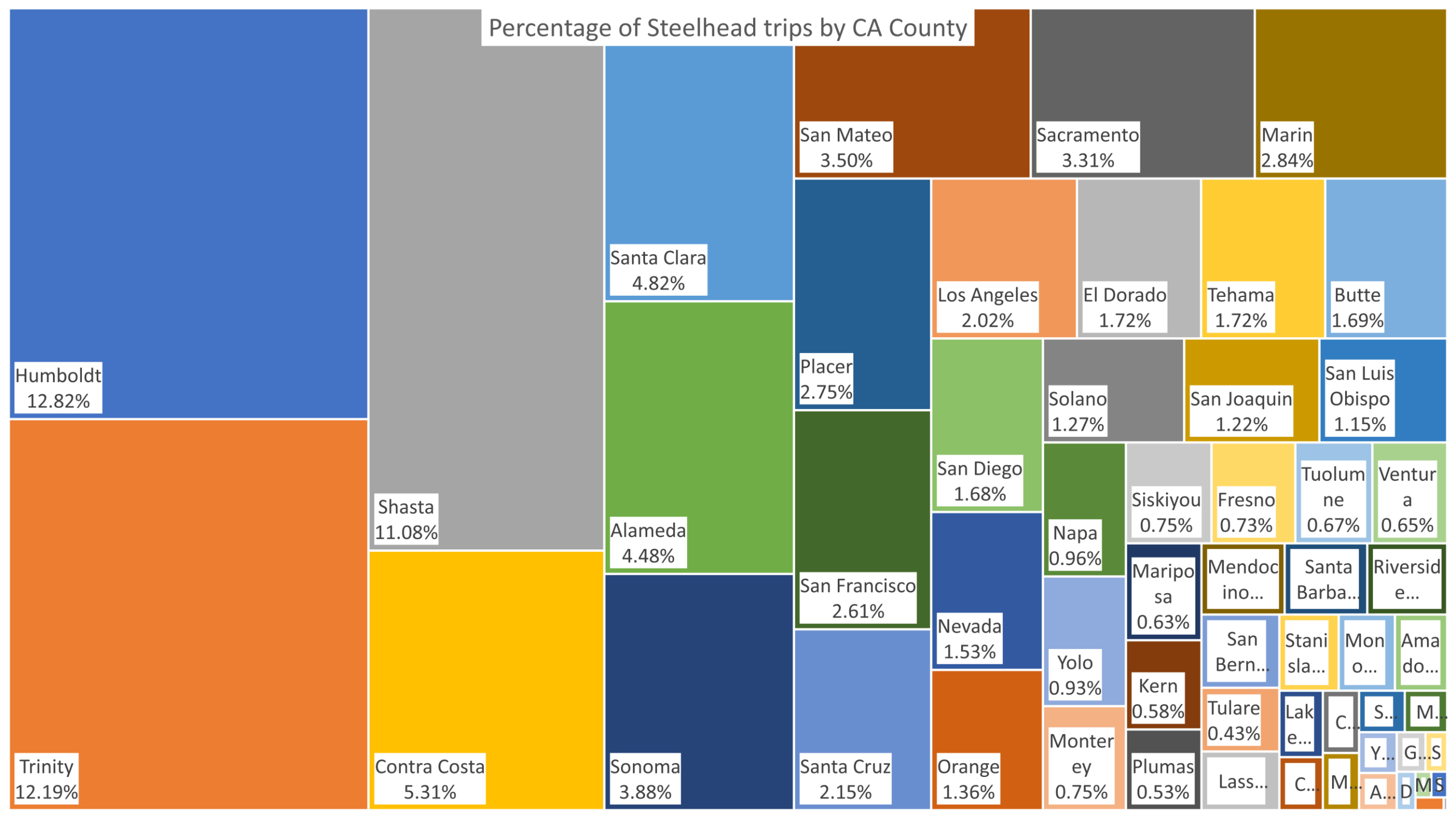
- Has economic implications for things like staying in hotels, buying gas, going to restaurants, etc.
- Steelhead report card data uses ZIP codes
- Should be easy to identify if an angler is 'local' or 'non-local'



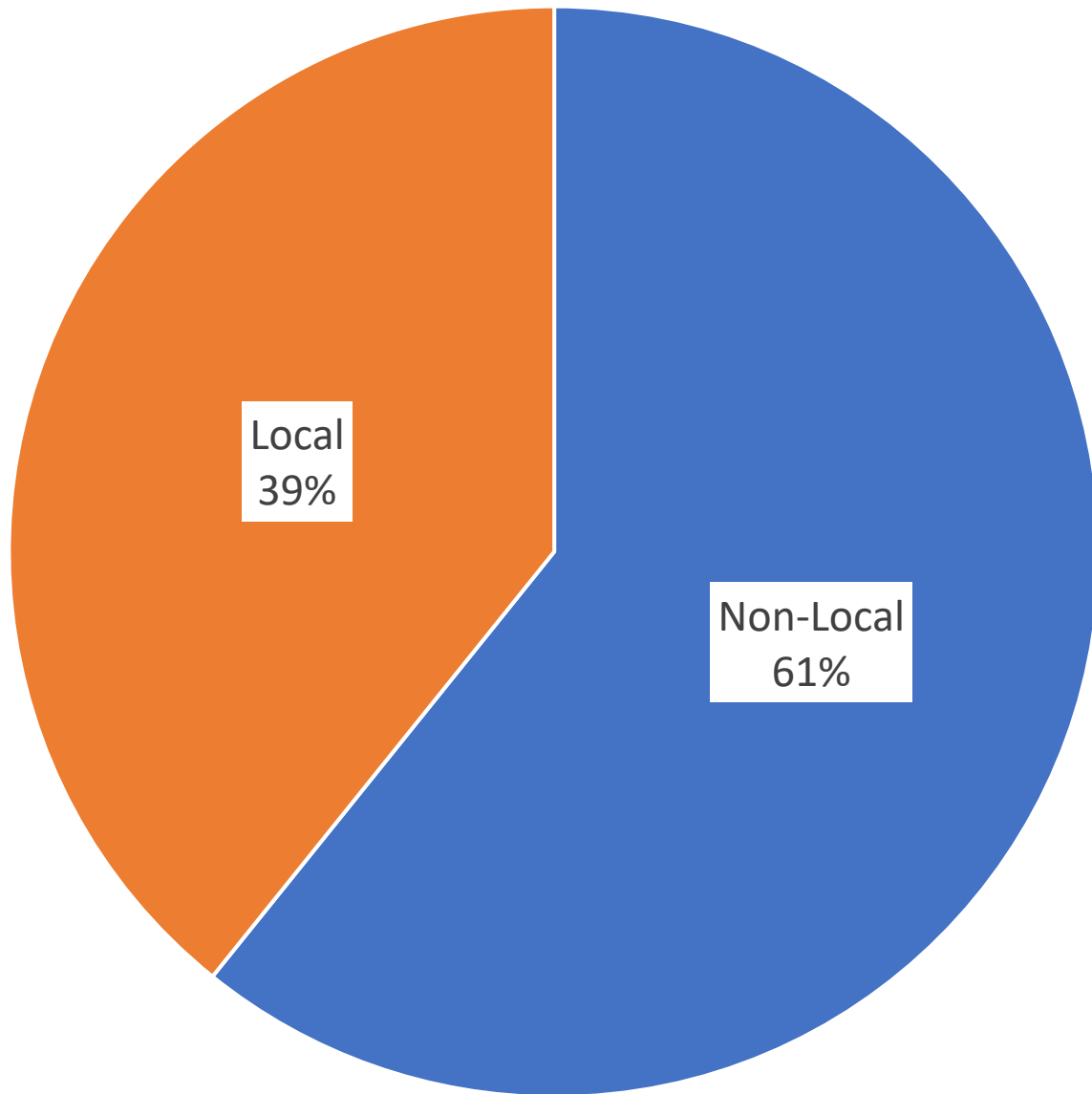
Percentage of Steelhead trips by state



Percentage of Steelhead trips by CA County



Steelhead report card angler by origin



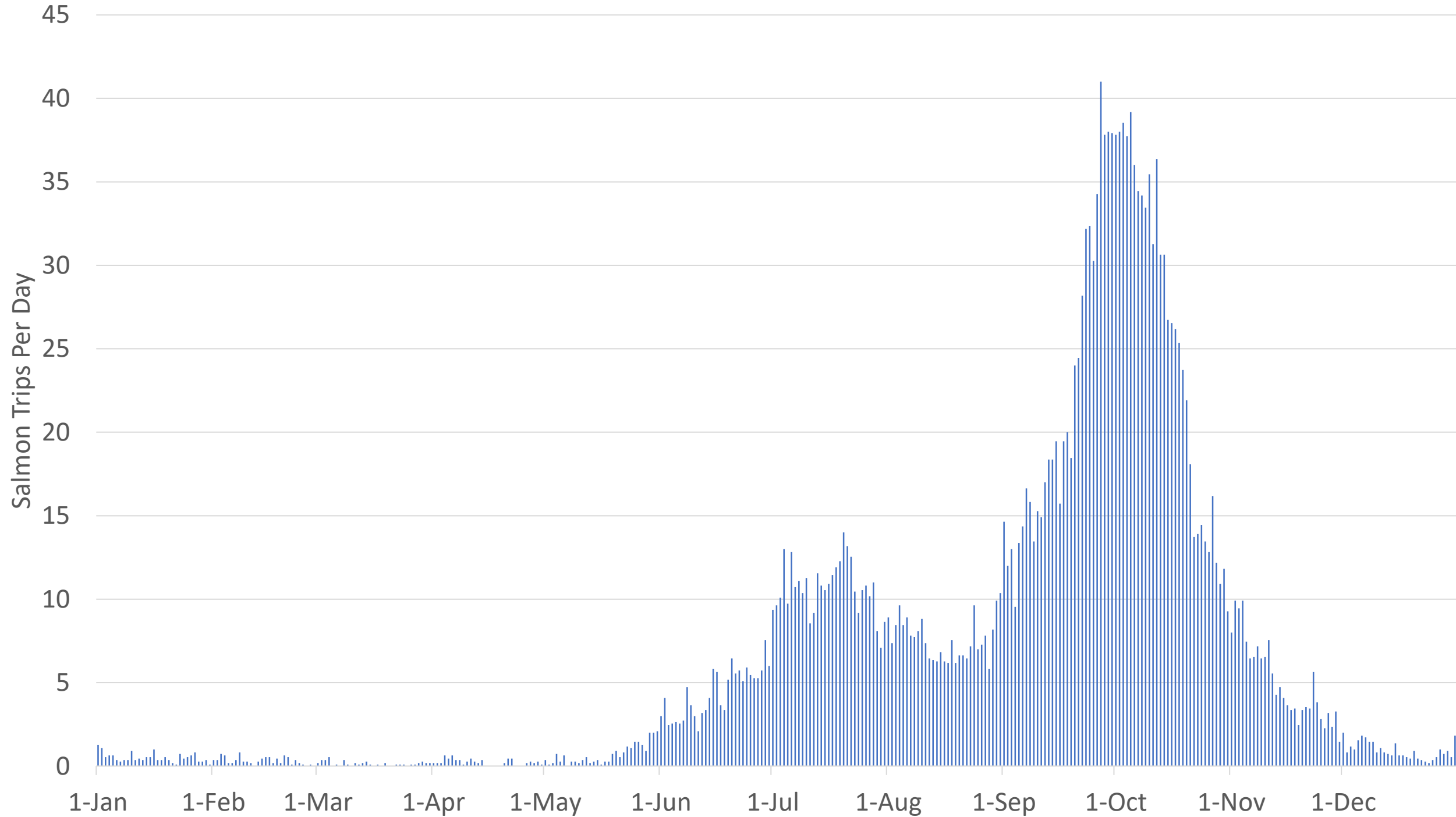
- 39% Local
 - Butte, Glenn, Humboldt, Lassen, Shasta, Siskiyou, Tehama, Trinity counties
- 61% Non-local
 - Large Bay Area-Sacramento contingent

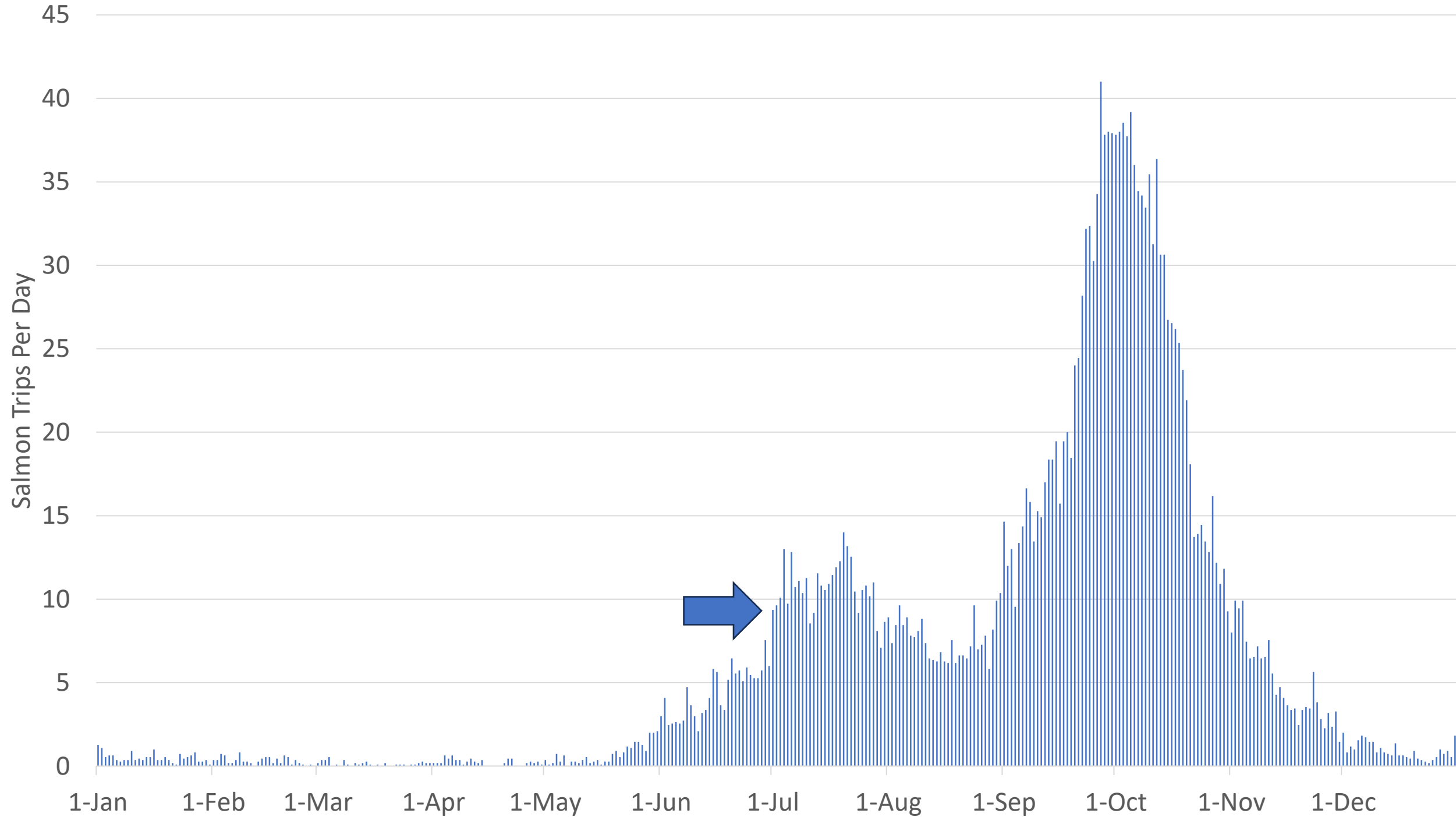


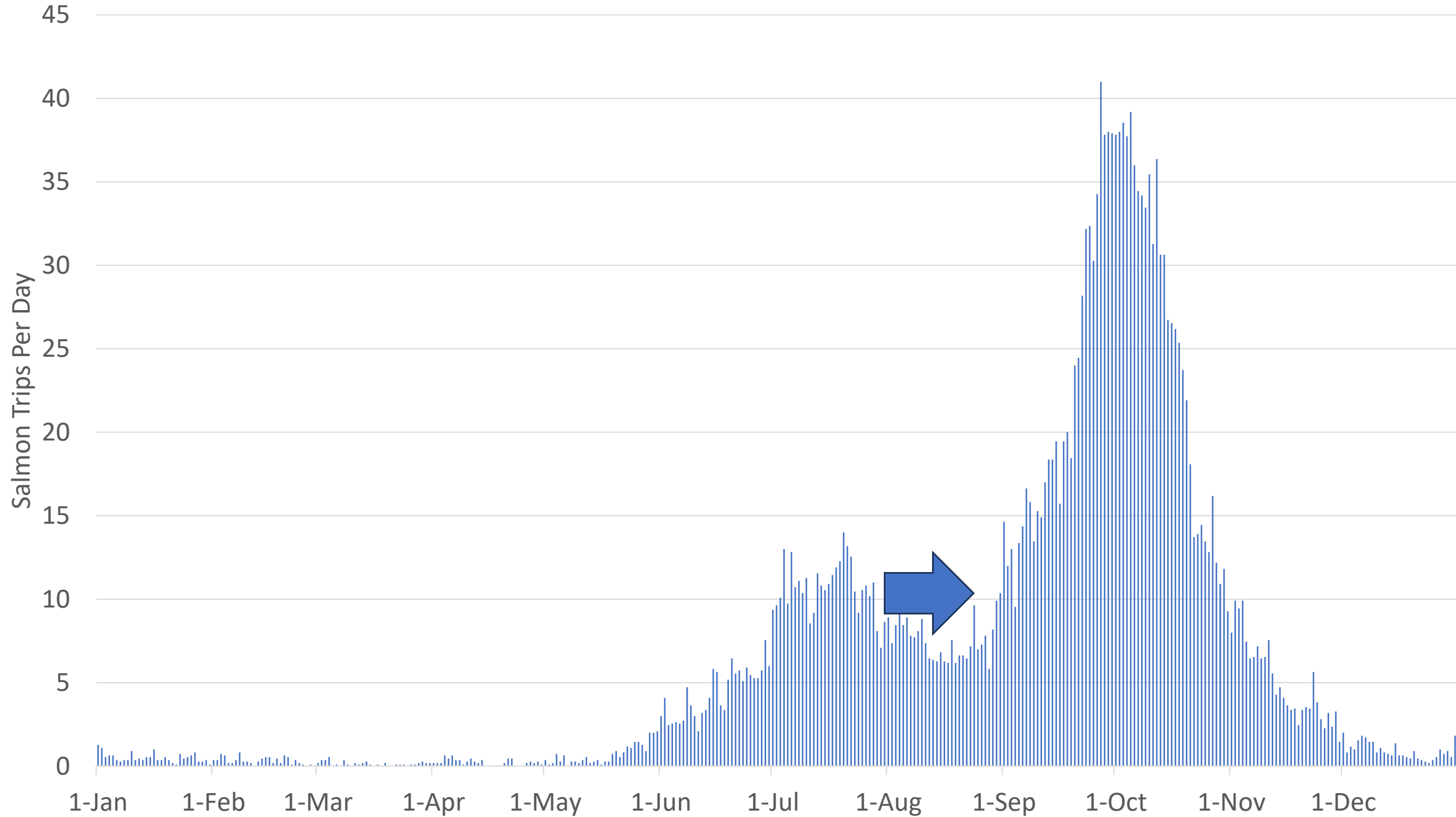
North Coast Salmon Report Card

- Similar to Steelhead Report Card
 - Anglers self-report catch
 - Data issues similar as well
 - More reporting locations
 - More years of data available
- Only about one-third return rate
- Revenue source for CDFW
 - Funds things like spring creel survey on the lower Klamath River





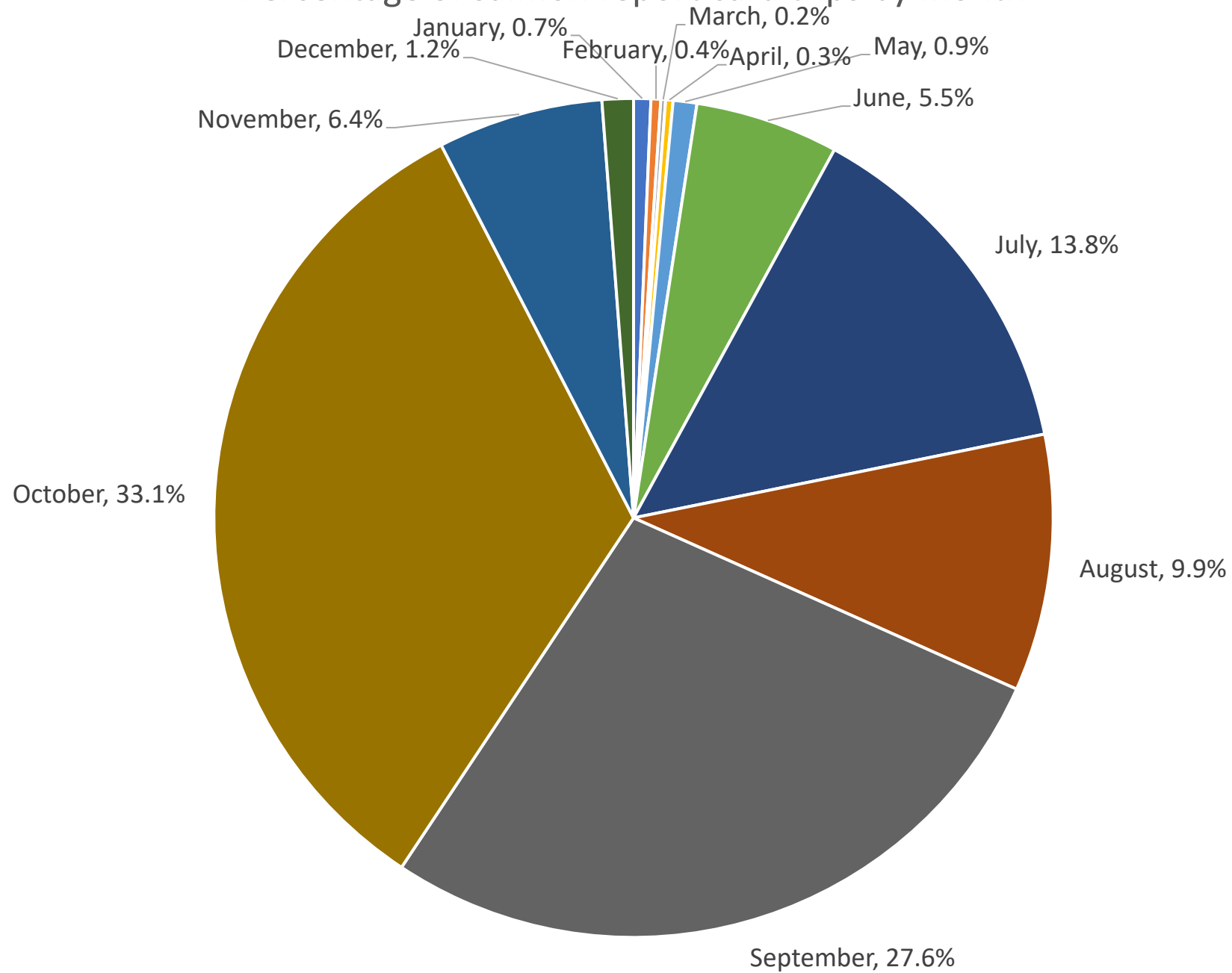


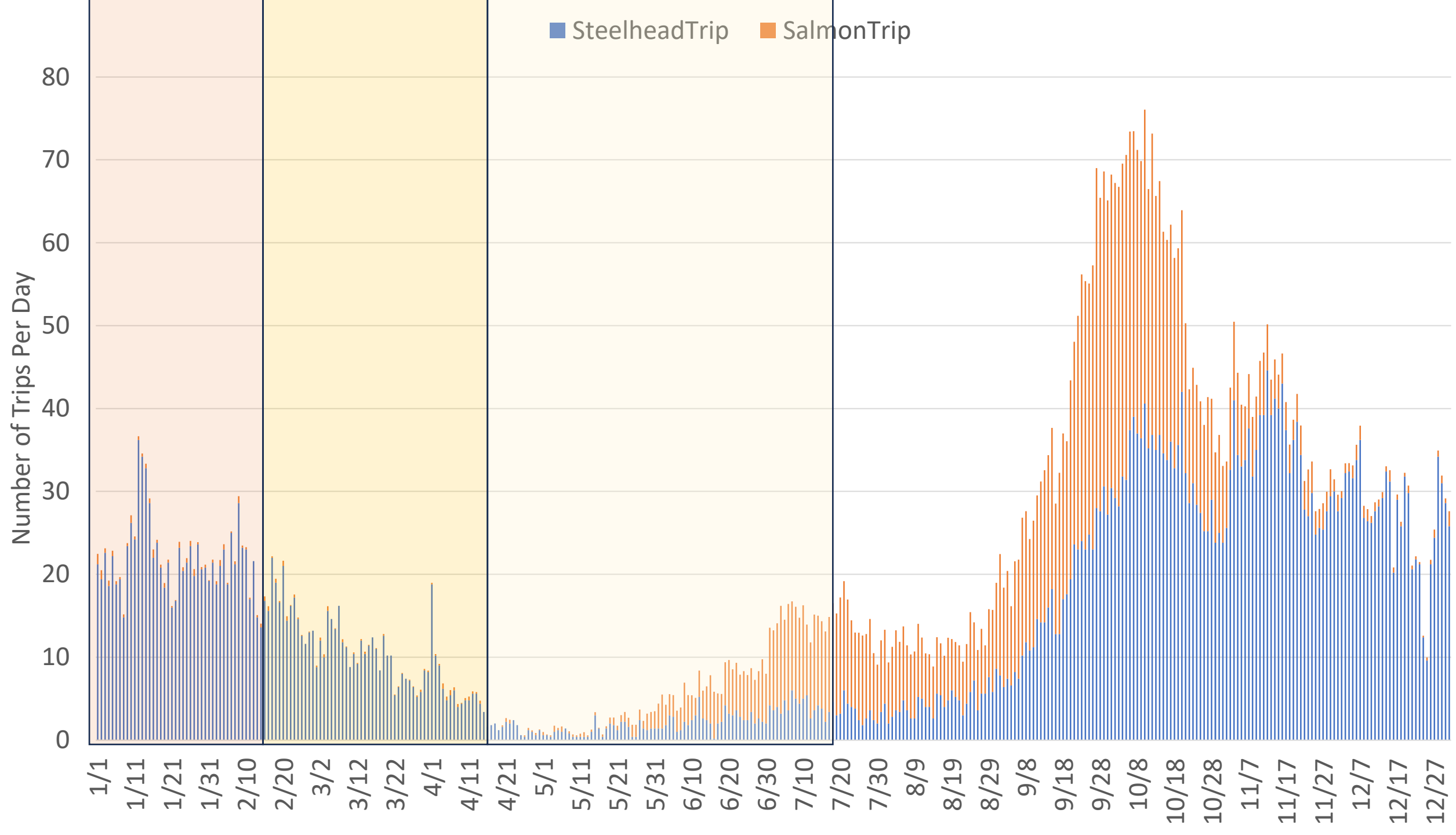


Month	Average number of salmon trips per day
January	0.5
February	0.3
March	0.1
April	0.2
May	0.7
June	4.4
July	10.7
August	7.6
September	22.0
October	25.5
November	5.1
December	0.9



Percentage of salmon report card trips by month

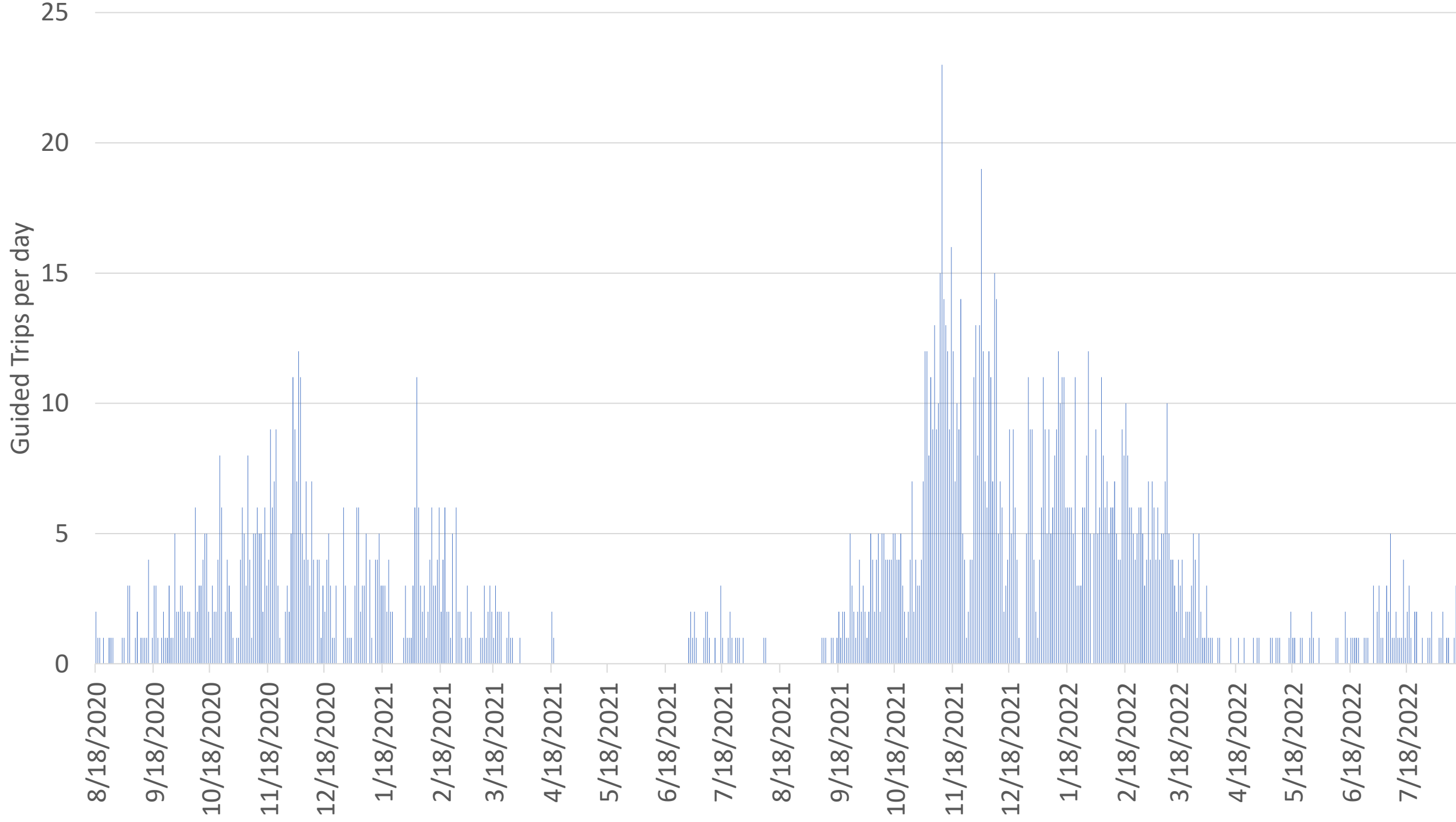




BLM Guide Logbooks

- Guides must have permit to lead trips on BLM lands (restoration reach)
 - 100 permits issued annually
 - Must pay 2% of revenue to BLM
 - Must self-report logs
- Only past two seasons available (August 2020-August 2022)
- 58 of 100 trip logs returned in 2020-2021 season
- 69 of 100 trip logs returned for 2021-2022 season
- Does not include guided trips from below Restoration Reach
- Only accounts for guided anglers

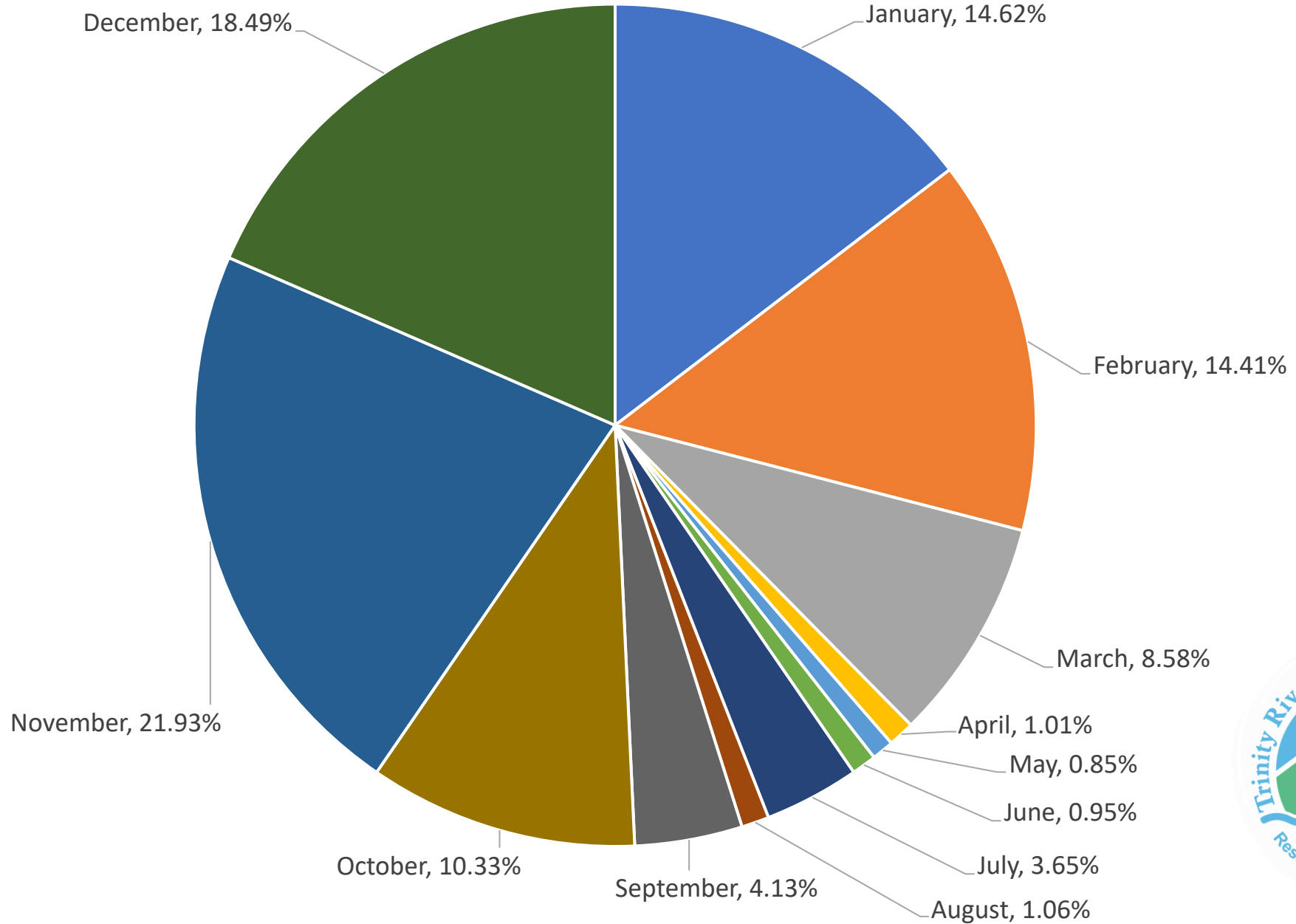




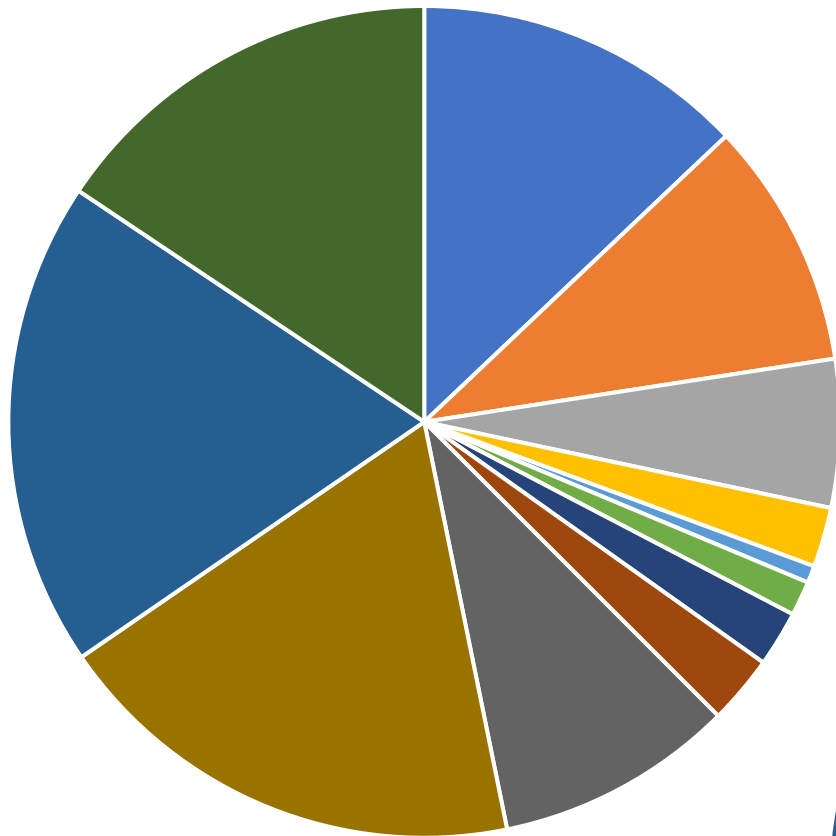
Date	Sum of Gross Reported Revenue	Total Trips Guided	Days Guided	Trips Per Day
August 2021	\$ 1,050	2	2	0.06
September 2021	\$ 16,275	34	18	1.13
October 2021	\$ 55,450	110	31	3.55
November 2021	\$ 142,495	293	30	9.77
December 2021	\$ 110,725	223	28	7.19
January 2022	\$ 101,300	205	30	6.61
February 2022	\$ 82,680	175	28	6.25
March 2022	\$ 61,480	126	31	4.06
April 2022	\$ 6,850	15	13	0.50
May 2022	\$ 8,030	16	14	0.52
June 2022	\$ 7,045	17	14	0.57
July 2022	\$ 18,795	44	24	1.42
August 2022	\$ 4,250	10	7	0.32
Total	\$ 616,425	1270	270	3.48



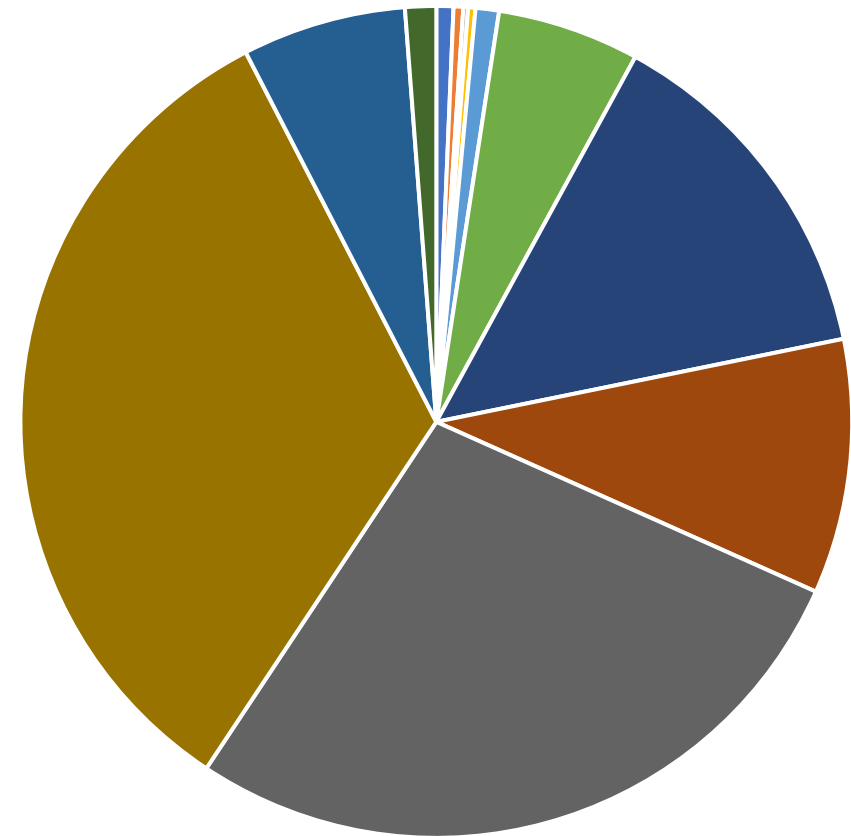
Percentage of BLM guide trips by month



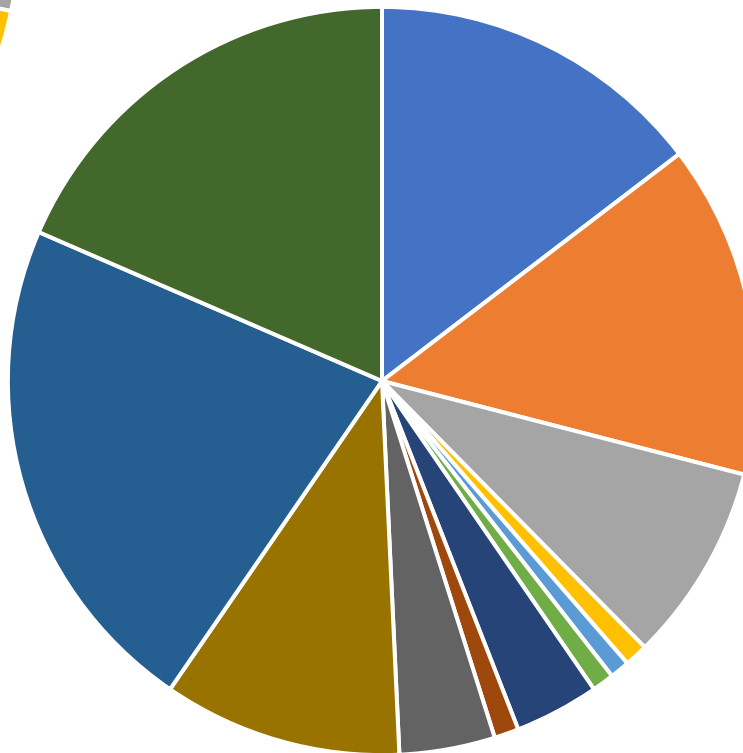
Percentage of Steelhead report card trips by month



Percentage of salmon report card trips by month

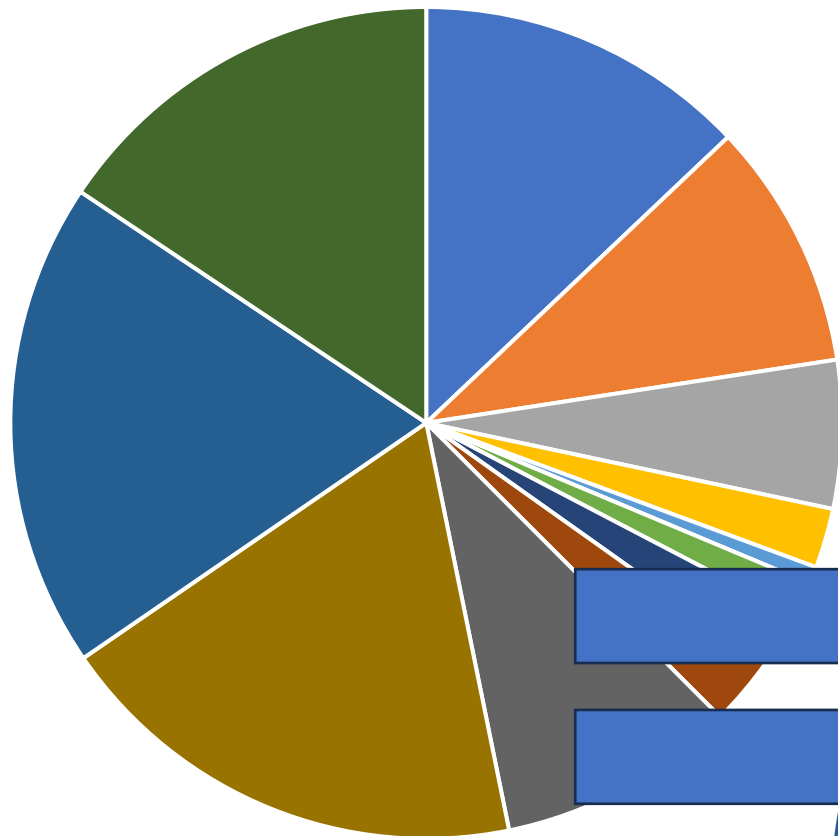


Percentage of BLM guide trips by month

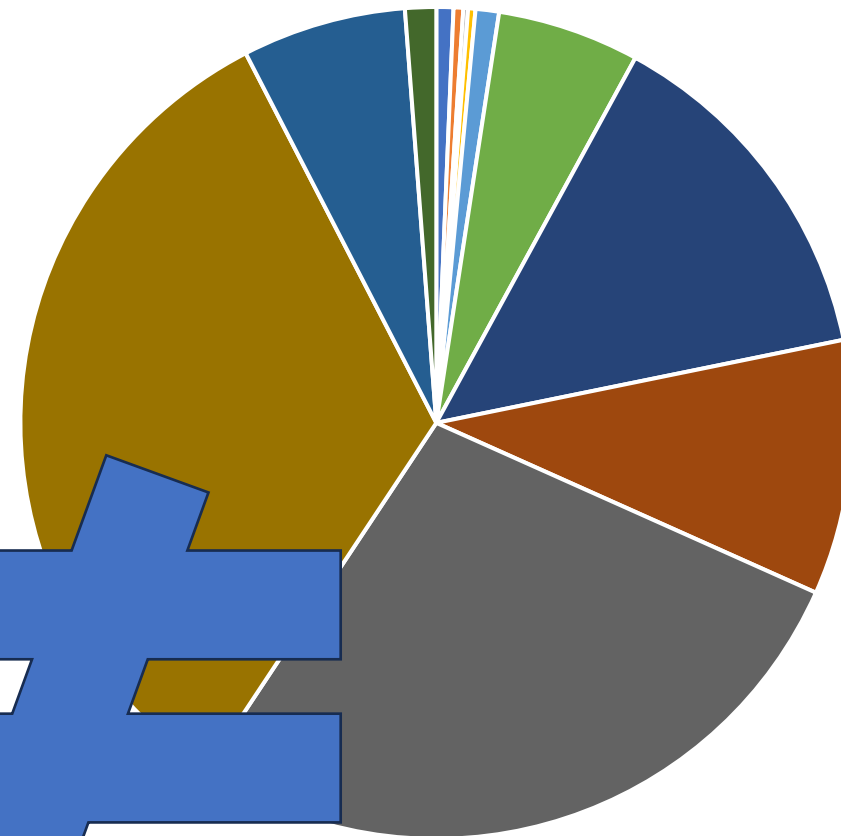


- | | |
|-------------|------------|
| ■ January | ■ February |
| ■ March | ■ April |
| ■ May | ■ June |
| ■ July | ■ August |
| ■ September | ■ October |
| ■ November | ■ December |

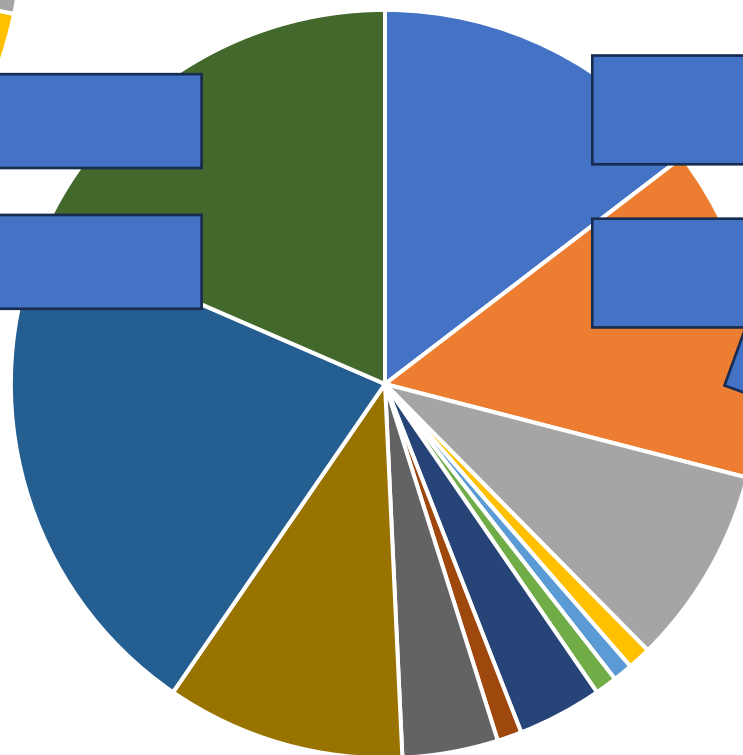
Percentage of Steelhead report card trips by month



Percentage of salmon report card trips by month



Percentage of BLM guide trips by month



- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

Date	Steelhead Report Card Trips	Salmon Report Card Trips	BLM Guided Trips	% Guided
August 2021	60	41	2	4.0%
September 2021	282	225	34	13.4%
October 2021	803	540	110	16.4%
November 2021	1126	49	293	49.9%
December 2021	660	5	223	67.1%
January 2022	710	9	205	57.0%
February 2022	555	0	175	63.1%
March 2022	329	0	126	76.6%
April 2022	114	0	15	26.3%
May 2022	52	0	16	61.5%
June 2022	74	11	17	40.0%
July 2022	117	213	44	26.7%
August 2022	114	97	10	9.5%
Total	4996	1190	1270	41.1%



Trinity Creel Surveys

- First time being conducted since the late 1990s/early 2000s
- Used to estimate angler effort and harvest
- Expanded area downstream to the WC weir compared to previous surveys
- Will allow comparisons between actual use and report card data



Survey Objectives

- Estimate survey reach total effort with roving surveys
- Conduct roving interviews of shore and boat-based anglers to collect catch composition and individual angler fishing effort
- Estimate weekly CPUE derived from effort counts and interview data
- Collect biological data on harvested salmonids
- Assess trends/relationships in angler data for aspects such as fishing guides/guided trips, gear type, harvest of weir tagged fish, etc.



Methods

- Roving use-count/roving interview survey
- Roving use-count
 - Two passes of a “progressive count” survey
 - Enumerates shore anglers and/or boat trailers at take-out sites within survey reach
 - No interviews
- Angler survey captures
 - Harvest and release data
 - Angler effort (time fished)
 - Additional planned fishing time
 - Gear type used
 - Mode of fishing
- Split into four reaches
 - WC weir to bridge at Cedar Flat
 - Bridge at Cedar Flat to Pigeon Point
 - Pigeon Point to Lorenz Gulch
 - Lorenz Gulch to Lewiston Dam



Summary

- Steelhead fishing is the most popular fishery on the Trinity River and in the state
- Spring and Fall Salmon fishing used to be much more popular than now
- Unknown amount of bias associated with self-reported data
- These are best data sources available for angler effort



Questions to think about...

- How can we link data sources to provide a clear picture of total angler effort on the Trinity River?
- Can creel survey results answer some of these questions?
- How do current management actions affect angler effort?
 - What about future actions?



Questions?

