

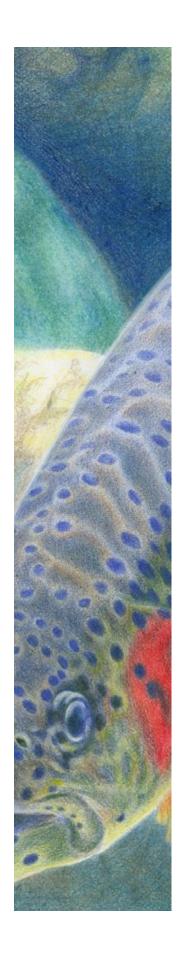
Montana Statewide Angling Pressure 2020

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Summary Report

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1.0 INTRODUCTION

The year 2020 presented a unique opportunity to conduct the biennial angling pressure survey during an off year, a year in which a global pandemic may have influenced fishing pressure in the lakes and streams of Montana as people were driven to get outdoors. Montana State Parks experienced record visitation with an estimated 3.4 million individuals visiting a state park in 2020, which represents a 29.5% increase over the prior year (Montana FWP, 2021). Similarly, FWP's Aquatic Invasive Species Prevention Program and partners performed a record 174,423 watercraft inspections, representing a 54% increase from 2019 (Montana FWP, 2020).

Results from the 2020 Angler Pressure Survey reveal a similar story. Montana's lakes and streams experienced an estimated 4,014,803 angler days during the 2020 license year (resident and non-resident combined), representing a record 28% increase in pressure from 2019. Not surprisingly, most of the increased pressure came from Montana residents as people were staying closer to home. There was a 39% increase in resident pressure alone, while non-resident pressure saw a 10% increase from the prior 2019 survey year. The following report summarizes the results of the 2020 angling pressure survey, emphasizing changes in angling pressure from the prior 2019 survey year.

Montana Fish, Wildlife and Parks has conducted statewide angling mail surveys for more than 50 years. Bishop (1959, 1960, 1961) conducted the first recorded mail survey of fishing pressure on a statewide basis for Montana from 1958-1960. In 1968 Holton (1970) again initiated the statewide angling pressure mail survey. Holton (1971) conducted another statewide survey for the 1969 license year. No results were reported because it was felt they were too high due to sampling problems. In 1975, Gaffney (unpublished data) conducted a statewide survey of angling pressure by mail. An attempt was made to continue that statewide survey in 1976 using the 1975 mailing lists. This did not provide adequate samples for nonresidents, so only resident pressure was obtained. The surveys were started again in 1982 and ran for four consecutive years (McFarland, 1989). In 1986 the surveys were again canceled for lack of funding. In March 1989, the statewide angling use mail survey was again reinitiated, and has been conducted on a biennial basis since that time through the current year.

The number of questionnaires sent out has varied over the years. Between 1989 and 2011, the number has been in the range of 89,000-97,000 for all but two surveys (68,505 in 2001 and 80,125 in 2005). In 2013, the effort was scaled back to 67,603 questionnaires, a drop of 25 % from 2011. The 2015 survey effort was 67,600 questionaires, the same as 2013. In 2017 the survey was again scaled back due to budget cuts. A total of 40,300 surveys were mailed out in 2017, a 40% cut over 2015. The consequence of this change is that it increases error measurements for waters and decreases the number of waters for which a pressure estimate can be calculated. In 2019 and 2020 the survey went back to the 2015 effort to decrease error and increase the number of waters for which a pressure estimate can be calculated.

In the current survey, one small change was made to the maps that accompany the questionnaire. Section 2 of the Madison River was divided into sections 2A and 2B to better determine where the pressure lies within that popular section. It is still worthy of mention because any change has the potential to influence the angler response, and ultimately angler pressure estimates. When there is no map, the nearest town or landmark is used to determine which section of the river was fished when the respondent does not include the section.

Contents of the questionnaire changed slightly in 2020. All license holders surveyed were asked if they use a boat, and if so, do they pull the drain plug when taking out of water. The questions regarding Fishing Access Site (FAS) use were omitted in the 2020 survey. Respondents were asked the number of days fished, type of fishing (shore, boat, both, or ice), satisfaction rating on each water, number of people seen, crowding rating on each water, and primary fish species fished for. The angler satisfaction and crowding questions have not appeared on the pressure surveys since the 2011 survey.

2.0 METHODS

2.1 MAIL SURVEYS

The 2020 statewide angling mail pressure survey was conducted during the license year beginning March 1, 2020 and ending February 28, 2021. The methods used by R. McFarland for surveys conducted from 1989 through 2009 provided the framework for the 2020 survey.

Samples were drawn from the Department's Automated Licensing System (ALS) on the first day of each month. All anglers who purchased a two-day or ten-day license valid for use in the previous month as well as all anglers who purchased or held a season fishing license valid for use in the previous month were included in the eligible angler population. A computer program was written in ORACLE to create three populations of anglers from which to draw samples. A season population, a 2-day population, and a 10-day population were created each month. The licenses that comprise these three populations of anglers are:

- 1. NonResident 2-day license: enables the nonresident angler to fish for two consecutive days of their choice. Anglers may purchase as many two-day licenses as they want.
- 2. NonResident 10-day license: enables the nonresident angler to fish for 10 consecutive days of fishing. Anglers may purchase as many ten-day licenses as they want.
- 3. NonResident Season license includes:
 - combo license combines a nonresident conservation license and seasonal fishing license.
 - seasonal license
 - deer combo license includes a deer tag and a fishing license.
 - big game combo includes a conservation license, an elk tag, a deer "A" tag, a black bear tag, a fishing license and an upland game bird license.
- 4. Resident 2-day license: valid for 2 consecutive days at a reduced cost.
- 5. Resident Season license includes:
 - season license
 - combo license combines a season fishing license and a conservation license
 - sportsman's license provides a deer "A" tag, elk tag, optional bear tag, conservation license, a game bird stamp and a fishing license
 - "senior" license 62 years of age and older
 - "youth" license ages 12 to 17
 - disabled license certified as permanently and substantially disabled

An ACCESS table was used to pull a random sample from each population. Sampling was done on a monthly-stratified basis (Table 1). The number pulled from each population was proportionally derived from the angling pressure each population exerted based on previous

surveys. A 25/75 ratio to sample non-resident and resident anglers was used in the current survey-the same ratio that has been used since 2007 as reported by McFarland (2009) who found that residents provide approximately 75% of angling pressure. The ratio is 25/75 for this current survey.

The individual samples from each population (by month) were assigned to a wave (Table 1) and given sequential serial numbers. The database of names and addresses were run through a software program (a service provided by Print & Mail Service in Helena) to validate addresses and assign correct 4-digit zip code extensions. Only addresses that passed the mail validation were included in the final sample. This helped reduce the number of non-deliverable surveys. An ACCESS report was written to export the monthly sample data into a spreadsheet for mail merging with the survey WORD document. The merged file contained a single page for each angler included in the sample. This merged file and a separate map file were sent to Print & Mail Services (State of Montana) in Helena, MT where the survey was printed (two-sided), stuffed into envelopes and mailed via first class mail.

Table 1. Period-of-time covered for waves for the 2020-21 Statewide Angling Survey

Wave	Time Period Covered	Season Designation
1	March 2020	Winter
2	April	Winter
3	May	Summer
4	June	Summer
5	July	Summer
6	August	Summer
7	September	Summer
8	October	Winter
9	November	Winter
10	December	Winter
11	January 2021	Winter
12	February	Winter

The sample size for the 2020 survey was the same as the 2015 and 2019 survey. Actual numbers of questionnaires sent varied slightly from wave to wave (Table 2). For the "summer" waves (3 through 7) 8,400 residents and nonresidents were sampled each month. In the "winter" waves (8 through 12 plus 2), the rate dropped to 4,200 residents and nonresidents. Because wave 1 had fewer license holders from which to sample, this wave was sampled at a less intense level.

A single questionnaire was used for all groups. The questionnaire (see Section 6.0 for an example), included questions on: what water was fished; nearest landmark or town; section of stream or river fished (taken from maps on the front survey page and the map page on the back of the survey); number of days fished; fishing satisfaction rating from 1 (poor) to 5 (excellent); number of other people seen recreating on each water; crowding rating from 1(not at all crowded) to 5 (very crowded); the one fish species they were primarily fishing for. The type of fishing (shore, boat, ice or a combination) was also included again in 2020 (it was removed in 2015 and reinstated in 2017

and 2019).

To ease the sorting process, different colored forms were used for each wave as well as for initial and remail mailings. Surveys were mailed "first class pre-sort" for all the waves.

Table 2. Number of questionnaires sent for each wave by residency for the 2020 license year.

	Mailed		Useable (mailed- undelive	-minus	Return (initial	s and remail)	Return R Percentag	
Wave	Res	Nonres	Res	Nonres	Res	Nonres	Res	Nonres
01	300	100	296	97	123	29	41.55%	29.90%
02	3150	1050	3060	999	1100	267	35.95%	26.73%
03	6300	2100	6080	2020	1869	547	30.74%	27.08%
04	6300	2100	6075	2034	1933	657	31.82%	32.30%
05	6300	2100	6048	2031	1847	616	30.54%	30.33%
06	6300	2100	6018	2017	1815	606	30.16%	30.04%
07	6300	2100	6022	2013	1897	688	31.50%	34.18%
08	3150	1050	3012	1009	943	371	31.31%	36.77%
09	3150	1053	2996	1001	996	353	33.24%	35.26%
10	3150	1050	2985	1000	976	299	32.70%	29.90%
11	3150	1057	2985	997	974	263	32.63%	26.38%
12	3150	1050	2988	987	942	250	31.53%	25.33%

Remail questionnaires were mailed to those individuals who had not yet responded, approximately six weeks after the initial mailing. Returns for each wave were monitored and when they slowed down to a few each day the remail was sent. Included on the remail survey was a note explaining that we hadn't received their survey yet but if they had sent one in and our mail crossed paths, to please disregard this second request (see Section 6.0 for survey examples). Returns were grouped and counted according to type of license (residency), wave and mailing (initial or remail). Surveys returned as undeliverable were subtracted from the sample size.

Returned questionnaires were sorted into those that had fished in Montana during the period in question and those that had not. The "yes" respondents were keyed into an Access database using forms and lookup fields. A record was entered for each stream or lake fished. Both the stream or lake name and the nearest town or landmark was entered for each record. These data were used to identify a specific watercode for each record. Edits were run to correct invalid water codes and data out of normal ranges.

Phone surveys have been used in the past for the purpose of determining nonresponse bias associated with the mail surveys and for making adjustments to pressure estimates accordingly.

The most recent phone survey was conducted in 1997. It showed no statistically significant difference in response rate between the phone and mail surveys. No phone surveys were conducted in 2020, so it was assumed that there was no nonresponse bias and no adjustment necessary. Fishing pressure estimates were made for individual waters based upon the formula:

$$P_{j} = \sum_{i=1}^{n} \left[\frac{E_{ij} * D_{ij}}{R_{ij}} \right] * A_{ij}$$

where P_j = Pressure for an individual water by the j^{th} residency

 E_{ij} = Number of eligible anglers for the i^{th} wave and j^{th} residency

 $D_{ij} = Days$ fished that particular water for the i^{th} wave and j^{th} residency

 $R_{ij} = Number$ of respondents from the survey for the i^{th} wave and j^{th} residency

 $A_{ij} = Adjustment factor for non-response for the ith wave and jth residency$

n = number of waves in the estimate year or season

j = number of residency types (resident, nonresident, or total)

The variance was then calculated using:

$$VAR(P_{j}) = \sum_{i=1}^{n} \left[\frac{E_{ij}^{2} * VAR(D_{ij})}{R_{ij}} \right] * A_{ij}^{2}$$

where P_j , E_{ij} , R_{ij} , D_{ij} , and A_{ij} are the same as above.

Pressure estimates between waves and residency were assumed to be independent so variances were summed to obtain total variances. The square root of the variance was calculated and this number was reported as the error for fishing pressure.

3.0 RESULTS

3.1 DEMOGRAPHICS

A total of 20,361 anglers responded to the survey, of which 35.3% (n=7,189) reported going on at least one fishing trip during the month/wave they were surveyed, while 64.7% (n=20,361) said they did not fish that month. Respondents ranged in age from 12 to 93 years old. The average age of all respondents was 53.2. The average age of the sample population (as well as the entire angling population) is 44 years old. Figure 1 shows mail survey respondents between the ages 51-90 are overrepresented, while respondents ages 12-50 are underrepresented when compared to the sample population of the angling public. About 76% of all respondents were male, and 24% female, representative of the sample and angler population in the fisheries license database (75% male and 25% female).

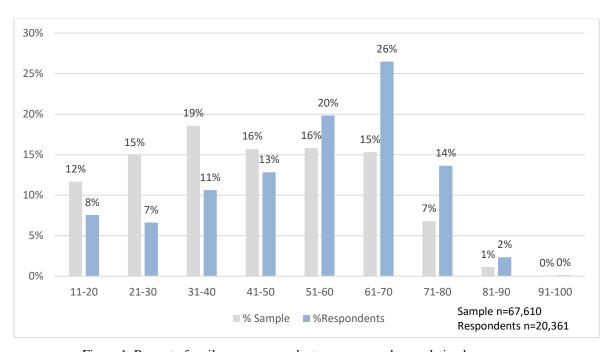


Figure 1. Percent of mail survey respondents versus sample population by age range

Out of 7,189 respondents who reported a fishing trip, 63.9% were residents and 36.1% were non-residents. Non-residents came from all states within the U.S. including the District of Columbia (Figure 2 and 3). Non-residents were mostly from the western U.S., especially Washington, Idaho and California. Foreign residents only from Canada were included in the sample. Only one Canadian reported a fishing trip in 2020, compared to 51 in 2019, likely due to the closure of the Canadian border during Covid-19. Resident anglers were broadly distributed throughout Montana, but mostly came from more densely populated areas (Billings, Bozeman, Missoula, Kalispell, Great Falls, Helena and Butte) (Figure 4).

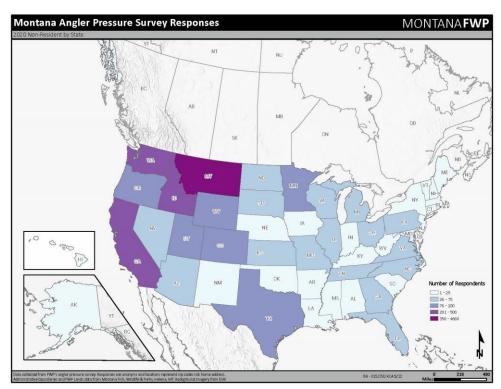


Figure 2. Map of non-residents' home states who fished in Montana

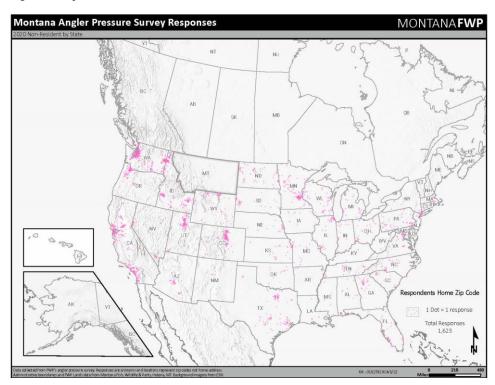


Figure 3. Map of non-residents' home states who fished in Montana by zip code

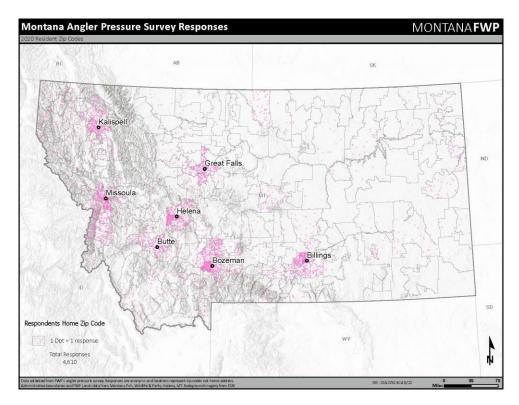


Figure 2. Map of Montana resident respondents, by zip code, who reported a fishing trip

3.2 ANGLER PRESSURE ESTIMATES ANNUAL (MARCH 2020-FEBRUARY 2021)

Licensed anglers fishing on Montana waters were estimated to have exerted a record 4,014,803 angler days of pressure for the 2020 license year (Table 3). This represents a 28% increase in pressure compared to the 2019 license year. Prior to 2020, estimated angling pressure had been slowly declining each year since 2013 (Figure 5). License year 2020 shows the largest increase in angling pressure since license year 2013 which had a 26% increase from 2011. Estimates for individual waters were sorted alphabetically and are presented in Appendix A of this report.

Table 3. Statewide Pressure Estimates by 2020 Survey License Year

	Т	otals		Reside	nt	Non-Resident	
	Pressure	Trips	Error	Pressure	Trips	Pressure	Trips
Undesig	32,268	227	7100	18,699	149	13,569	78
Lake	1,446,787	10,067	47731	1,105,274	7,986	341,513	2,081
Stream Statewide Total	2,535,748 4,014,803	17,422 27,716	63292 118,123	1,557,166 2,681,139	11,216 19,351	978,582 1,333,664	6,206 8,365

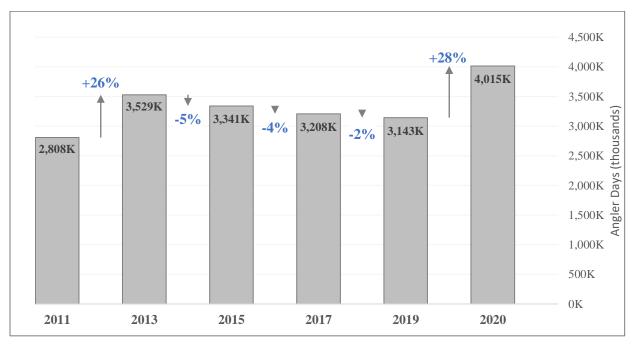


Figure 5. Percent change of annual angling pressure between the years 2011-2020 for residents and non-residents combined.

The distribution of angler pressure among FWP regions (Figure 6, Table 4) is heavily skewed toward the western and central portions of the state (Regions 1-5). Region 3 received the most

angling pressure with a record 1,097,991 angler days (27.3%), followed by Region 4 with 777,091 angler days (19.4%). Regions 2, 1 and 5 were next in order with 710,026 (17.7%), 549,596 (13.7%), and 439,231 (10.9%) angler days respectively. The easternmost regions of 6 and 7 were the lowest in pressure with 314,868 (7.8%) and 102,042 (2.5%) angler days respectively.

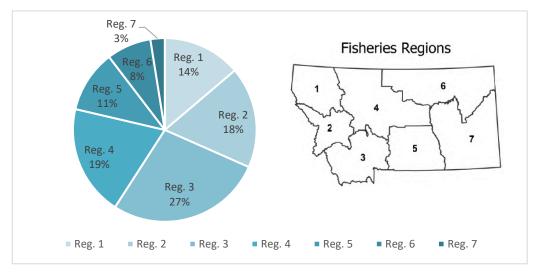


Figure 6. Distribution of annual pressure by FWP Fisheries region

Each region experienced an increase in pressure compared to the previous 2019 survey year (Figure 7). While Region 7 had the fewest angler days of all regions (n=102,042), it had the largest percent increase with 48% more angler days compared to 2019 (n=69,014).

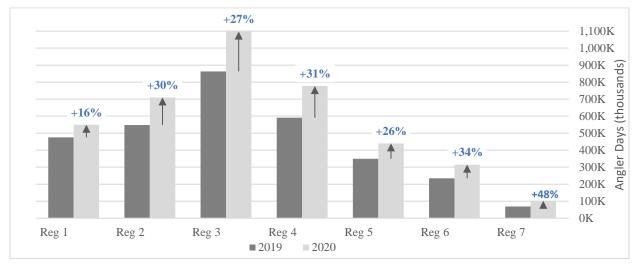


Figure 7. Percent change of annual angling pressure by region between 2019-2020 for residents and non-residents

Montana residents made up 67% of the annual pressure (n=2,681,139) compared to 33% non-residents (n=1,333,664) (Table 3). Resident pressure increased 39% compared to 2019 (which had

1,927,738 resident angler days) while non-resident pressure increased 10% compared to 2019 (which had 1,215,367 non-resident angler days).

Residents (Table 4, Figure 8) also exerted the majority of angling pressure in 2020 in all seven regions. All regions had an increase in resident angler days compared to 2019. Only region 6 experienced a slight drop in the percentage of residents in 2020, compared to 2019. All other regions saw an increase in their percentage of resident anglers compared to 2019. The percent of angling pressure by residents for each region was:

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Region 1 = 72.6% resident (2019=72.1%) Region 2 = 66.8\% resident (2019=61.6\%) Region 3 = 50.7\% resident (2019=44.5\%) Region 4 = 80.5\% resident (2019=74.2\%) Region 7 = 83.9\%. resident (2019=80.9\%)
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Angling on lotic waters (streams/rivers) accounted for 63.2% (2,535,748 angler days) of the statewide pressure while lentic waters (lakes/ponds/reservoirs) accounted for 36% (1,446,787 angler days) of the pressure (Table 3). A small percent (0.8%) of surveys were returned where the waterbody was undesignated as stream or lake. These percentages are consistent with the 2019 survey results.

Regions 1 and 6 were the two regions in which lake angling pressure exceeded stream pressure (65.2% and 76.2%, respectively from lakes), although the lake pressure in Region 6 was due primarily to angling on one water (Fort Peck Reservoir) (Table 4, Figure 9). Region 1 had the greatest number of lake angling pressure of any region with 358,111 angler days. Region 4 was relatively balanced between stream (55%) and lake angling (45%), primarily due to lake angling on Canyon Ferry Reservoir. However, looking at the percent increase in stream angling by residents, Region 4 had a 60% increase in stream fishing by residents (n=305,192) compared to 2019 (n=190,460). Regions 2, 3, 5 and 7 were dominated by stream anglers, and Region 3 had the highest number and percent of stream anglers for any region (905,701 angler days or 82.5%).

Table 4. Angling pressure in angler days by region and lake or stream for 2020 survey license year.

	Total	s	Resider	nt	Non-Resident	
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Region 1						
Undesig	1,567	8	549	4	1,018	4
Lake	358,311	2,431	276,894	1,879	81,417	552
Stream	189,718	1,317	121,737	895	67,981	422
Total:	549,596	3,756	399,180	2,778	150,416	978
Region 2 Undesig	2,010	9	99	1	1,911	8
Lake				993	40,127	230
	186,293	1,223	146,166			
Stream	521,723	3,653	328,278	2,439	193,445	1,214
Total:	710,026	4,885	474,543	3,433	235,483	1,452
Region 3	2.207	1.4	0.42	7	1.252	7
Undesig	2,297	14	943	7	1,353	7
Lake	189,993	1,267	105,965	760	84,028	507
Stream	905,701	6,149	450,044	3,275	455,657	2,874
Total:	1,097,991	7,430	556,952	4,042	541,038	3,388
Region 4				_		
Undesig	2,092	13	661	5	1,431	8
Lake	349,766	2,543	319,694	2,351	30,072	192
Stream	425,233	2,975	305,192	2,126	120,041	849
Total:	777,091	5,531	625,547	4,482	151,544	1,049
Region 5						
Undesig	691	4	99	1	592	3
Lake	95,709	691	83,086	608	12,623	83
Stream	342,830	2,294	222,395	1,574	120,435	720
Total:	439,231	2,989	305,580	2,183	133,650	806
Region 6						
Undesig	180	1			180	1
Lake	239,834	1,704	150,568	1,219	89,266	485
Stream	74,854	535	66,309	484	8,546	51
Total:	314,868	2,240	216,877	1,703	97,992	537
Region 7						
Lake	26,356	204	22,376	172	3,979	32
Stream	75,686	499	63,211	423	12,476	76
Total:	102,042	703	85,587	595	16,455	108

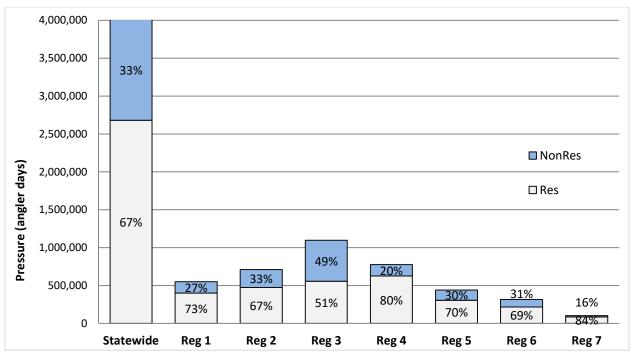


Figure 8. Statewide angling pressure comparing region and residency 2020-21

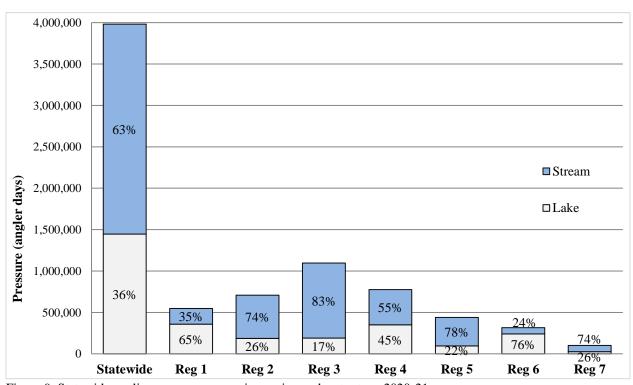


Figure 9. Statewide angling pressure comparing region and water type 2020-21

July (wave 5) was, overall, the peak fishing period for both residents and non-residents with an estimated 817,487 angler days (Table 5). March (wave 1) was the least fished period during the year with 121,247 angler days. Residents fished least in November (wave 9) with 75,742 angler days while nonresidents fished least in March (wave 1) with 10,651. Even though March (wave 1) was the least fished month in 2020, there was an 80% increase compared to 2019 which had just 67,248 angler days (Figure 10). The month of August had the second greatest number of angler days in 2020 (n=622,596) yet this was only a 12% increase in angler days from 2019 (n=555,284). Angling pressure during the month of August may have been influenced by several hoot owl restrictions placed on southwest Montana rivers that month.

Table 5. Pressure in angler days by wave for the 2020 survey license year

Wave	Month	Total	Resident	Nonresident
01	March	121,247	110,597	10,651
02	April	218,217	182,752	35,465
03	May	319,883	260,386	59,498
04	June	463,615	373,006	90,609
05	July	817,487	530,772	286,715
06	August	622,596	408,556	214,040
07	September	506,025	303,171	202,854
08	October	295,461	161,111	134,350
09	November	165,186	75,742	89,444
10	December	145,351	88,117	57,234
11	January	175,399	107,433	67,966
12	February	164,334	79,496	84,838

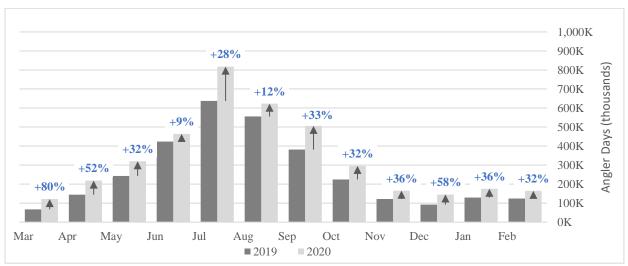


Figure 10. Percent change of statewide monthly angling pressure between license years 2019 to 2020 for residents and non-residents combined

Angling pressure was summarized by the 40 major drainages within the state as identified in the 2019 Statewide Fisheries Management Program and Guide (Figure 11, Table 6). The pressure by drainage ranged from a high of 409,620 angler days for the Upper Yellowstone River drainage (a 46% increase from 2019) to a low of 1,248 angler days for the Powder River drainage. The drainage with the highest percent of resident anglers was the Lower Milk River (97.2%), followed by the Middle Yellowstone (96% resident), and Missouri – Judith (94% resident). The drainage with the highest percent of non-residents was the Madison River (65% non-resident), followed by the Bighorn River (56% non-resident) and the Beaverhead River (49% non-resident).

The Fort Peck Reservoir drainage had the highest percentage of lake anglers (89.5%) mainly due to the influence of Fort Peck Reservoir, followed by the Marias River and Red Rock River (85% lake angling each), and the Lower Missouri River (81% lake angling). Rivers with the lowest percentage of lake anglers were Belt Creek (0%), Missouri River-Dearborn (1.2%), Lower Milk River (1.8%), and the Beaverhead River (4%).

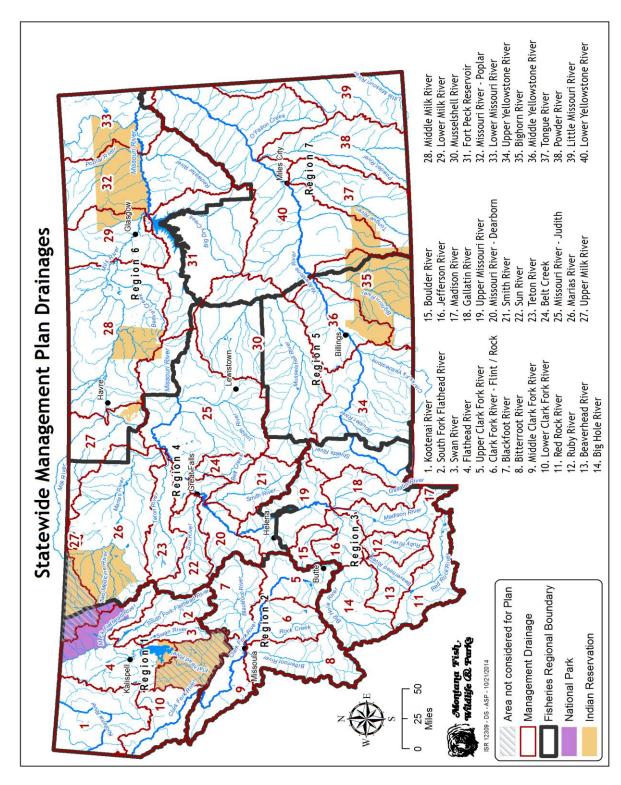


Figure 11. Statewide Management Plan Drainages

Table 6. Angling Pressure in angler days by Drainage by Lake or Stream for the 2020 survey license year

	Totals		Reside	nt	Non-Resident	
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Beaverhead River						
Lake	1,974	14	1,796	13	177	1
Stream	46,247	340	22,830	175	23,417	165
Total:	48,220	354	24,626	188	23,594	166
Belt Creek						
Stream	10,068	69	6,205	47	3,863	22
Total:	10,068	69	6,205	47	3,863	22
Big Hole River						
Undesig	133	1	133	1		
Lake	8,764	69	7,539	59	1,225	10
Stream	128,960	914	87,731	630	41,229	284
Total:	137,857	984	95,403	690	42,454	294
Bighorn River						
Lake	20,542	91	17,784	72	2,758	19
Stream	93,776	537	32,519	195	61,257	342
Total:	114,318	628	50,303	267	64,015	361
Bitterroot River						
Lake	14,102	103	7,800	62	6,302	41
Stream	177,921	1,241	112,538	831	65,383	410
Total:	192,023	1,344	120,338	893	71,685	451
Blackfoot River						
Lake	55,349	393	46,786	341	8,563	52
Stream	112,152	814	77,524	587	34,628	227
Total:	167,501	1,207	124,310	928	43,191	279
Boulder River						
Lake	787	6	787	6		
Stream	7,883	61	6,282	52	1,601	9
Total:	8,670	67	7,069	58	1,601	9
Clark Fork River - Fl	int / Rock					
Lake	103,802	632	79,465	501	24,337	131
Stream	92,036	653	43,087	342	48,949	311
Total:	195,838	1,285	122,552	843	73,286	442
Flathead River						
Lake	184,238	1,207	141,152	921	43,086	286
Stream	82,388	563	52,817	378	29,571	185
Total:	266,626	1,770	193,969	1,299	72,657	471

Table 6. Angling Pressure in angler days by Drainage by Lake or Stream (continued)

	Totals		Reside		Non-Re	
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Fort Peck Reservoir Lake	191,954	1,349	109,867	897	82,087	452
Stream	22,553	1,349	16,666	146	5,887	31
Total:	214,507	1,526	126,533	1,043	87,974	483
Gallatin River	27.602	102	17.510	125	10.002	47
Lake	27,602	182	17,510	135	10,092	47
Stream	175,566	1,150	91,412	643	84,153	507
Total:	203,167	1,332	108,922	778	94,245	554
Jefferson River						
Lake	17,106	92	14,995	80	2,111	12
Stream	19,897	142	13,419	102	6,479	40
Total:	37,004	234	28,414	182	8,590	52
Kootenai River						
Lake	64,987	443	51,592	340	13,395	103
Stream	33,601	230	19,297	147	14,305	83
Total:	98,588	673	70,889	487	27,700	186
Little Missouri River						
Lake	658	3	658	3		
Stream	1,567	11	777	7	790	4
Total:	2,225	14	1,435	10	790	4
Lower Clark Fork Riv	ver					
Lake	68,338	483	52,884	393	15,454	90
Stream	39,894	288	26,953	204	12,941	84
Total:	108,232	771	79,837	597	28,395	174
Lower Milk River						
Lake	96	1	96	1		
Stream	5,114	37	4,970	36	144	1
Total:	5,210	38	5,066	37	144	1
Lower Missouri River						
Lake	6,939	49	6,244	46	695	3
Stream	1,659	14	1,515	13	144	1
Total:	8,598	63	7,759	59	839	4
Lower Yellowstone Ri			,			
Lake	ver 10,541	69	10,453	68	88	1
Stream	48,713	343	43,551	313	5,162	30
Total:	59,253	412	54,004	381	5,250	31

Table 6. Angling Pressure in angler days by Drainage by Lake or Stream (continued)

-	Totals	;	Reside	ent	Non-Resident	
	Pressure	Trips	Pressure	Trips	Pressure	
Madison River						
Lake	77,453	563	28,559	234	48,894	329
Stream	310,762	2,100	108,563	817	202,198	1,283
Total:	388,215	2,663	137,122	1,051	251,092	1,612
Marias River						
Lake	42,155	302	37,124	281	5,031	21
Stream	7,443	61	6,674	54	769	7
Total:	49,598	363	43,798	335	5,800	28
Middle Clark Fork R	iver					
Lake	7,118	56	6,868	54	250	2
Stream	100,344	662	61,955	434	38,389	228
Total:	107,462	718	68,823	488	38,639	230
Middle Milk River						
Undesig	180	1			180	1
Lake	25,192	189	20,477	168	4,715	21
Stream	21,085	142	20,445	137	640	5
Total:	46,457	332	40,922	305	5,535	27
Middle Yellowstone I	River					
Lake	19,598	169	19,100	164	498	5
Stream	39,967	313	38,361	299	1,605	14
Total:	59,565	482	57,461	463	2,103	19
Missouri River - Dear	rborn					
Lake	3,856	31	3,856	31		
Stream	196,272	1,361	126,733	877	69,539	484
Total:	200,128	1,392	130,589	908	69,539	484
Missouri River - Judi	th					
Lake	10,731	76	10,138	71	594	5
Stream	39,081	288	36,743	270	2,338	18
Total:	49,812	364	46,881	341	2,932	23
Missouri River - Popl	ar					
Lake	1,677	13	1,137	10	540	3
Stream	16,273	114	13,799	97	2,474	17
Total:	17,950	127	14,936	107	3,014	20
Musselshell River						
Lake	18,594	142	17,795	137	799	5
Stream	20,904	158	17,303	134	3,600	24

Table 6. Angling Pressure in angler days by Drainage by Lake or Stream (continued)

	Totals -		Residen		Non-Resi	
	Pressure	Trips	Pressure	Trips	Pressure	Trips
NA	0.705					_
Lake	8,583	58	8,068	53	516	5
Stream	3,150	18	3,150	18		
Total:	11,733	76	11,218	71	516	5
NA - St. Mary and Bo	elly Rivers					
Lake	1,085	3	728	1	357	2
Total:	1,085	3	728	1	357	2
Powder River						
Lake	478	5	478	5		
Stream	770	6	593	5	177	1
Total:	1,248	11	1,071	10	177	1
Red Rock River						
Lake	37,517	217	20,976	140	16,541	77
Stream	6,454	47	2,482	21	3,972	26
Total:	43,970	264	23,458	161	20,513	103
Ruby River						
Lake	8,998	52	7,704	45	1,295	7
Stream	23,478	153	9,206	70	14,272	83
Total:	32,476	205	16,910	115	15,567	90
Smith River						
Lake	17,620	117	15,798	108	1,822	9
Stream	48,149	409	28,296	240	19,853	169
Total:	65,769	526	44,094	348	21,675	178
South Fork Flathead	River					
Lake	12,649	108	9,974	82	2,676	26
Stream	22,727	167	13,234	109	9,493	58
Total:	35,377	275	23,208	191	12,169	84
Sun River						
Lake	25,825	186	24,336	179	1,489	7
Stream	17,652	126	11,926	93	5,726	33
Total:	43,476	312	36,262	272	7,215	40
Swan River						
Lake	19,763	134	13,473	92	6,291	42
Stream	8,102	52	6,286	39	1,816	13
Total:	27,865	186	19,759	131	8,107	55
i Juli	27,003	100	17,137	1.51	0,107	55

Table 6. Angling Pressure in angler days by Drainage by Lake or Stream (continued)

	Totals		Resident		Non-Resident	
	Pressure	Trips	Pressure Trips		Pressure Trips	
Teton River						
Lake	5,324	37	4,874	33	451	4
Stream	7,099	49	6,041	44	1,058	5
Total:	12,424	86	10,915	77	1,509	9
Tongue River						
Lake	14,678	127	10,787	96	3,892	31
Stream	23,653	133	18,191	97	5,462	36
Total:	38,331	260	28,978	193	9,354	67
Undesignated Central	l District					
Undesig	6,760	55	6,114	49	646	6
Total:	6,760	55	6,114	49	646	6
Undesignated Eastern	n District					
Undesig	131	1	131	1		
Total:	131	1	131	1		
Undesignated R1						
Undesig	1,567	8	549	4	1,018	4
Total:	1,567	8	549	4	1,018	4
Undesignated R2						
Undesig	2,010	9	99	1	1,911	8
Total:	2,010	9	99	1	1,911	8
Undesignated R3						
Undesig	2,164	13	810	6	1,353	7
Total:	2,164	13	810	6	1,353	7
Undesignated R4						
Undesig	2,092	13	661	5	1,431	8
Total:	2,092	13	661	5	1,431	8
Undesignated R5						
Undesig	691	4	99	1	592	3
Total:	691	4	99	1	592	3
Undesignated Statewi	ide					
Undesig	14,780	110	9,588	76	5,192	34
Lake	525	4	525	4		
Total:	15,305	114	10,113	80	5,192	34
Undesignated Wester						
Undesig	1,762	12	517	5	1,246	7
Total:	1,762	12	517	5	1,246	7

Table 6. Angling Pressure in angler days by Drainage by Lake or Stream (continued)

Totals		Resident		Non-Resident	
Pressure	Trips	Pressure	Trips	Pressure	Trips
er					
5,922	39	5,247	35	675	4
39,269	283	33,173	245	6,096	38
45,191	322	38,420	280	6,771	42
14,739	107	12,560	97	2,178	10
8,260	50	8,260	50		
22,999	157	20,820	147	2,178	10
229,902	1,695	210,685	1,556	19,217	139
124,264	774	104,152	643	20,111	131
354,166	2,469	314,837	2,199	39,328	270
ver					
59,024	451	46,600	372	12,425	79
350,595	2,372	221,506	1,575	129,090	797
409,620	2,823	268,106	1,947	141,515	876
	7,922 39,269 45,191 14,739 8,260 22,999 229,902 124,264 354,166 ver 59,024 350,595	Pressure Trips er 5,922 39 39,269 283 45,191 322 14,739 107 8,260 50 22,999 157 229,902 1,695 124,264 774 354,166 2,469 ver 59,024 451 350,595 2,372	Pressure Trips Pressure er 5,922 39 5,247 39,269 283 33,173 45,191 322 38,420 14,739 107 12,560 8,260 50 8,260 22,999 157 20,820 229,902 1,695 210,685 124,264 774 104,152 354,166 2,469 314,837 ver 59,024 451 46,600 350,595 2,372 221,506	Pressure Trips Pressure Trips er 5,922 39 5,247 35 39,269 283 33,173 245 45,191 322 38,420 280 14,739 107 12,560 97 8,260 50 8,260 50 22,999 157 20,820 147 229,902 1,695 210,685 1,556 124,264 774 104,152 643 354,166 2,469 314,837 2,199 ver 59,024 451 46,600 372 350,595 2,372 221,506 1,575	Pressure Trips Pressure Trips Pressure 6r 5,922 39 5,247 35 675 39,269 283 33,173 245 6,096 45,191 322 38,420 280 6,771 14,739 107 12,560 97 2,178 8,260 50 8,260 50 22,999 157 20,820 147 2,178 229,902 1,695 210,685 1,556 19,217 124,264 774 104,152 643 20,111 354,166 2,469 314,837 2,199 39,328 ver 59,024 451 46,600 372 12,425 350,595 2,372 221,506 1,575 129,090

3.3 ANGLER PRESSURE ESTIMATES SUMMER (MAY-SEPTEMBER)

The "summer" season for angling in Montana is considered that period of the year from the first of May through the end of September. In 2020, 2,729,607 (68%) days of angling pressure occurred during this period (Table 7). Residents accounted for 1,875,891 angler days (68.7%) and nonresidents made up the remaining 853,716 angler days (31.3%). Resident summer pressure increased 31% compared to 2019 (n=1,433,306 angler days), while non-resident summer pressure increased just 5.8% compared to 2019 (n=807,176 angler days).

Angling on lotic waters (streams/rivers) accounted for 64% (1,745,748 angler days) of the statewide pressure during the summer season, which is a 21.6% increase over 2019 (n=1,436,206 angler days). Lentic waters (lakes/ponds/reservoirs) accounted for 35.2% (961,293 angler days) of the summer pressure, which is a 21.2% increase over 2019 (n=793,047 angler days). Undesignated waters accounted for 0.8% (22,566 angler days) of the pressure (Table 7). Estimates for individual waters were sorted alphabetically and are presented in Appendix B of this report. Monthly estimates for all waters are also provided in Appendix D.

Table 7. Statewide Summer Pressure Estimates for the 2020 Survey License Year

	Totals		Resident		Non-Resident	
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Undesig	22,566	182	15,530	131	7,036	51
Lake	961,293	8,090	774,173	6,638	187,120	1,452
Stream	1,745,748	13,765	1,086,188	9,101	659,560	4,664
Statewide Total	2,729,607	22,037	1,875,891	15,870	853,716	6,167

The distribution of angler pressure among FWP regions during summer (Figure 12, Table 8) is heavily skewed toward the western and central portions of the state. Region 3 received the most angling pressure with 731,681 angler days (27%), followed by Region 4 with 526,224 angler days (19%). Regions 2, 1 and 5 were next in order and close to each other, with 498,538 (18%), 396,398 (15%), and 296,976 (11%) angler days respectively. The easternmost regions of 6 and 7 were the lowest in pressure with 198,280 (7%) and 62,665 (2%) angler days respectively.

Residents (Figure 13, Table 8) exerted the majority of angling pressure during the 2020 summer season in all regions. Regions 1, 6, and 7 had a slight decrease in the percentage of resident anglers compared to 2019, while regions 2 through 5 had an increase in the percentage of resident anglers compared to 2019 summer season. The percent of summer angling pressure by residents for each region was:

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Region 1 = 70% residents (2019 = 71%) Region 2 = 68% residents (2019 = 62%) Region 3 = 53% residents (2019 = 45%) Region 4 = 81% residents (2019 = 77%) Region 6 = 82\% residents (2019 = 89%) Region 6 = 82\% residents (2019 = 89%)
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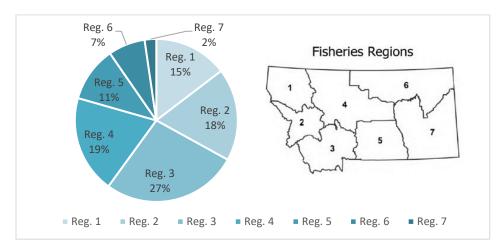


Figure 12. Percent of summer angling pressure by region

Regions 1 and 6 were the two regions in which lake angling pressure exceeded stream pressure during the 2020 summer season (60% and 77%, respectively, from lakes), although the lake pressure in Region 6 was due primarily to angling on one water (Fort Peck Reservoir) (Table 8, Figure 14). Region 4 was closely balanced between stream and lake angling (54 and 46%, respectively). Regions 2, 3, 5 and 7 were dominated by stream anglers, and Region 3 had the highest number of stream anglers for any region (610,296 angler days) and the highest percentage (84%) of anglers that were stream anglers.

Angling pressure during the summer was summarized within the 40 major drainages (Figure 11, Table 9). The pressure by drainage ranged from a high of 295,612 for the Upper Yellowstone River drainage, followed by 267,258 angler days for the Madison River drainage to a low of 751 angler days for the Powder River drainage and 876 angler days for the Little Missouri River drainage. The drainages with the highest percentage of resident anglers were the Lower Milk River, Lower Missouri River, Little Missouri River at 100% residents, while the Madison had the lowest percentage of resident anglers (36.7%). Fort Peck Reservoir had the highest percentage of lake anglers (86.7%) followed by the Marias (84.9%), mainly due to the influence of Tiber Reservoir, the Swan River (73.8%), and the Upper Milk River Drainage (73%). The Lower Milk and Beaverhead Rivers had the lowest percentage of lake anglers (2.6% and 4.6% respectively) except for the Belt Creek Drainage where there was no lake fishing reported.

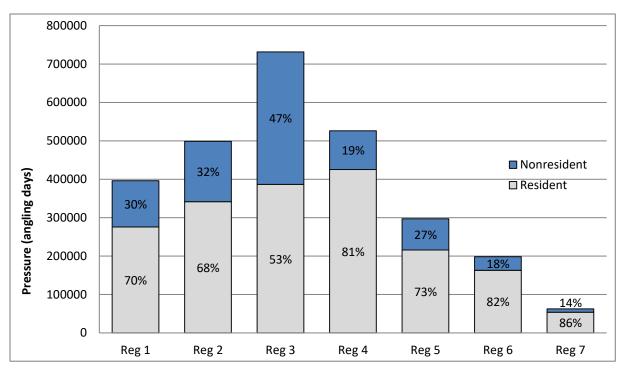


Figure 13. Statewide Angling Pressure Comparing Region and Residency - Summer Months 2020

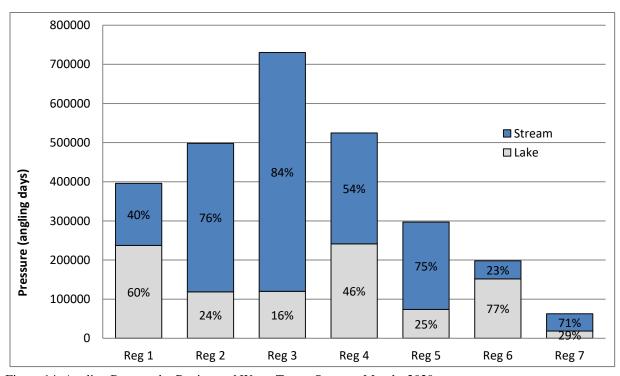


Figure 14. Angling Pressure by Region and Water Type - Summer Months 2020

Table 8. Regional angling pressure in angler days by lake or stream for the 2020 summer season May - September

		Tota	ls	Reside	nt	Non-Resid	dent
		Pressure	Trips	Pressure	Trips	Pressure	Trips
Region Undesig	1	549	4	549	4		
Lake		237,072	1,958	176,424	1,496	60,648	462
Stream		158,777	1,177	98,653	793	60,124	384
Region	Total:	396,398	3,139	275,626	2,293	120,772	846
Undesig		240	2	99	1	141	1
Lake		118,559	962	97,062	810	21,498	152
Stream		379,738	2,974	244,272	2,043	135,466	931
Region	Total:	498,538	3,938	341,433	2,854	157,105	1,084
Undesig		1,475	10	943	7	531	3
Lake		119,910	979	71,985	620	47,925	359
Stream		610,296	4,726	313,572	2,622	296,724	2,104
	Total:	731,681	5,715	386,500	3,249	345,180	2,466
Region Undesig	4	1,704	11	536	4	1,168	7
Lake		241,356	2,059	228,858	1,943	12,498	116
Stream		283,164	2,344	196,081	1,662	87,083	682
Region	Total:	526,224	4,414	425,475	3,609	100,749	805
Undesig	·	99	1	99	1		
Lake		73,561	619	62,198	542	11,363	77
Stream		223,316	1,769	153,550	1,283	69,767	486
D .	Total:	296,976	2,389	215,847	1,826	81,130	563
Region Undesig	6	180	1			180	1
Lake		151,833	1,341	121,275	1,080	30,559	261
Stream		46,267	407	41,884	376	4,383	31
	Total:	198,280	1,749	163,159	1,456	35,122	293
Region	7						
Lake		18,476	168	15,845	143	2,630	25
Stream		44,189	368	38,176	322	6,013	46
	Total:	62,665	536	54,021	465	8,643	71

Table 9. Angling pressure in angler days by drainage, lake or stream for the 2020 summer season May - September

	Total	- Totals Resident		Non-Resident		
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Beaverhead River						
Lake	1,694	13	1,517	12	177	1
Stream	34,737	282	17,279	145	17,458	137
Total:	36,430	295	18,796	157	17,635	138
Belt Creek						
Stream	8,474	60	4,755	39	3,719	21
Total:	8,474	60	4,755	39	3,719	21
Big Hole River						
Undesig	133	1	133	1		
Lake	8,481	68	7,256	58	1,225	10
Stream	97,597	787	62,352	531	35,245	256
Total:	106,211	856	69,741	590	36,470	266
Bighorn River						
Lake	9,086	73	6,473	55	2,614	18
Stream	37,289	303	17,251	148	20,038	155
Total:	46,376	376	23,724	203	22,652	173
Bitterroot River	-,-		-,-		,	
Lake	12,434	95	6,999	58	5,435	37
Stream	119,237	945	75,760	642	43,478	303
Total:	131,671	1,040	82,759	700	48,913	340
Blackfoot River						
Lake	38,830	325	34,636	291	4,194	34
Stream	94,329	737	64,844	536	29,485	201
Total:	133,159	1,062	99,480	827	33,679	235
Boulder River						
Lake	787	6	787	6		
Stream	7,489	59	6,282	52	1,207	7
Total:	8,275	65	7,069	58	1,207	7
Clark Fork River - Fli	int / Rock					
Lake	56,877	457	45,934	382	10,943	75
Stream	69,756	542	34,879	299	34,876	243
Total:	126,633	999	80,813	681	45,819	318
Flathead River						
Lake	113,091	939	82,148	705	30,944	234
Stream	71,055	517	43,390	341	27,665	176
Total:	184,146	1,456	125,538	1,046	58,609	410
Fort Peck Reservoir						
Lake	120,849	1,062	91,326	810	29,522	252
Stream	18,522	155	14,626	133	3,896	22
Total:	139,371	1,217	105,952	943	33,418	274

Table 9 Continued. Angling pressure in angler days by drainage, lake or stream for the 2020 summer season May – September

	Totals		Resident		Non-Res	ident
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Gallatin River						
Lake	16,673	139	13,703	120	2,971	19
Stream	109,751	828	58,096	475	51,655	353
Total:	126,425	967	71,799	595	54,626	372
Jefferson River						
Lake	7,590	66	6,637	59	953	7
Stream	13,016	107	9,729	83	3,288	24
Total:	20,606	173	16,366	142	4,241	31
Kootenai River						
Lake	42,164	349	29,555	249	12,609	100
Stream	28,095	202	15,858	129	12,237	73
Total:	70,259	551	45,413	378	24,846	173
Little Missouri River						
Lake	99	1	99	1		
Stream	777	7	777	7		
Total:	876	8	876	8		
Lower Clark Fork Riv	ver					
Lake	50,025	408	42,412	353	7,613	55
Stream	30,546	239	20,801	172	9,745	67
Total:	80,571	647	63,213	525	17,358	122
Lower Milk River						
Lake	96	1	96	1		
Stream	3,628	30	3,628	30		
Total:	3,724	31	3,724	31		
Lower Missouri River						
Lake	3,709	33	3,709	33		
Stream	1,515	13	1,515	13		
Total:	5,224	46	5,224	46		
Lower Yellowstone Ri	ver					
Lake	5,861	50	5,773	49	88	1
Stream	31,526	260	29,129	244	2,397	16
Total:	37,387	310	34,902	293	2,485	17
Madison River						
Lake	58,716	470	22,743	197	35,973	273
Stream	208,542	1,597	75,445	651	133,098	946
Total:	267,258	2,067	98,188	848	169,071	1,219
Marias River						
Lake	30,493	255	30,333	253	161	2
Stream	5,407	47	4,638	40	769	7
Total:	35,900	302	34,971	293	930	9

Table 9 Continued. Angling pressure in angler days by drainage, lake or stream for the 2020 summer season May - September ___

	Tota	ls	Reside	ent	Non-Resid	dent
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Middle Clark Fork R	River					
Lake	6,174	52	5,924	50	250	2
Stream	66,198	509	42,684	354	23,514	155
Total:	72,372	561	48,608	404	23,764	157
Middle Milk River						
Undesig	180	1			180	1
Lake	16,148	147	15,827	143	321	4
Stream	10,339	97	9,896	93	443	4
Total:	26,668	245	25,723	236	944	9
Middle Yellowstone l	River					
Lake	16,147	151	15,648	146	498	5
Stream	30,601	272	28,996	258	1,605	14
Total:	46,748	423	44,644	404	2,103	19
Missouri River - Dea	rborn					
Lake	3,325	28	3,325	28		
Stream	125,991	1,030	77,958	652	48,033	378
Total:	129,316	1,058	81,283	680	48,033	378
Missouri River - Judi	ith					
Lake	8,546	67	7,953	62	594	5
Stream	28,024	242	26,262	227	1,762	15
Total:	36,571	309	34,215	289	2,356	20
Missouri River - Pop	lar					
Lake	1,411	12	871	9	540	3
Stream	8,716	78	7,927	69	789	9
Total:	10,127	90	8,798	78	1,329	12
Musselshell River						
Lake	13,498	119	12,912	115	586	4
Stream	16,764	135	14,749	118	2,015	17
Total:	30,261	254	27,661	233	2,601	21
Powder River						
Lake	478	5	478	5		
Stream	273	2	96	1	177	1
Total:	751	7	574	6	177	1
Red Rock River						
Lake	15,659	129	11,694	100	3,966	29
Stream	5,648	43	2,482	21	3,166	22
Total:	21,307	172	14,176	121	7,132	51
Ruby River	*		,		,	
Lake	3,125	29	2,897	27	229	2
Stream	13,040	99	7,088	59	5,951	40
Total:	16,165	128	9,985	86	6,180	42

Table 9 Continued. Angling pressure in angler days by drainage, lake or stream for the 2020 summer season May - September

	Totals		Resid	dent	Non-Res	ident
	Pressure	Trips	Pressure	e Trips	Pressure	Trips
Smith River						
Lake	11,337	93	10,346	87	991	6
Stream	42,358	383	23,728	222	18,630	161
Total:	53,694	476	34,074	309	19,621	167
South Fork Flathead						
Lake	12,525	107	9,849	81	2,676	26
Stream	21,896	164	13,234	109	8,662	55
Total:	34,421	271	23,083	190	11,338	81
Sun River	•		,		,	
Lake	17,767	154	17,413	152	354	2
Stream	14,000	106	9,605	79	4,394	27
Total:	31,767	260	27,018	231	4,748	29
Swan River	,		,		,	
Lake	15,303	117	9,013	75	6,291	42
Stream	5,444	42	3,629	29	1,816	13
Total:	20,747	159	12,642	104	8,107	55
Teton River	•		,		,	
Lake	2,950	26	2,732	23	219	3
Stream	4,491	34	3,960	31	531	3
Total:	7,441	60	6,692	54	750	6
Tongue River						
Lake	12,037	112	9,494	88	2,543	24
Stream	10,629	93	8,075	69	2,553	24
Total:	22,666	205	17,569	157	5,096	48
Upper Clark Fork Ri	iver					
Lake	4,244	33	3,568	29	675	4
Stream	30,219	241	26,107	212	4,113	29
Total:	34,463	274	29,675	241	4,788	33
Upper Milk River						
Lake	9,717	87	9,542	85	175	2
Stream	3,637	33	3,637	33		
Total:	13,353	120	13,179	118	175	2
Upper Missouri Rive	r					
Lake	158,318	1,361	148,657	1,266	9,661	95
Stream	69,022	558	58,964	480	10,058	78
Total:	227,339	1,919	207,621	1,746	19,719	173
Upper Yellowstone R	liver					
Lake	50,183	407	39,923	338	10,260	69
Stream	245,430	1,874	154,337	1,262	91,093	612
Total:	295,612	2,281	194,260	1,600	101,353	681

3.4 ANGLER PRESSURE ESTIMATES WINTER (OCTOBER-APRIL)

The "winter" season for angling is from March through April and October through February of the following year. In 2020-21, 1,285,196 angler days (32%) of the annual fishing pressure occurred during this period, which represents a 42.4% increase in angler days compared to the 2019-20 winter season (n=902,624) (Table 10). Residents accounted for 805,248 angler days (62.7%) and nonresidents made up the remaining 479,947 angler days (37.3%). Estimates for individual waters for the winter season sorted alphabetically are presented in Appendix C of this report. Monthly estimates for the winter months for waters sorted alphabetically are provided in Appendix E.

Table 10. Statewide Pressure Estimates for Winter months by Survey License Year

	Totals		Resider	Resident		Non-Resident	
	Pressure	Trips	Pressure	Trips	Pressure	Trips	
Undesig	9,702	45	3,169	18	6,533	27	
Lake	485,494	1,977	331,101	1,348	154,392	629	
Stream	790,000	3,657	470,978	2,115	319,022	1,542	
Statewide Total	1,285,196	5,679	805,248	3,481	479,947	2,198	

The distribution of angler pressure distributed among FWP regions during winter (Figure 15, Table 11) is heavily skewed toward the western and central portions of the state. Region 3 received the most angling pressure with 366,310 angler days (29%), followed by Region 4 with 250,867 angler days (20%). Regions 2, 1 and 5 were next in order and close to each other, with 211,488 (16%), 153,198 (12%), and 142,255 (11%) angler days respectively. The easternmost regions of 6 and 7 were the lowest in pressure with 116,588 (9%) and 39,378 (3%) angler days respectively.

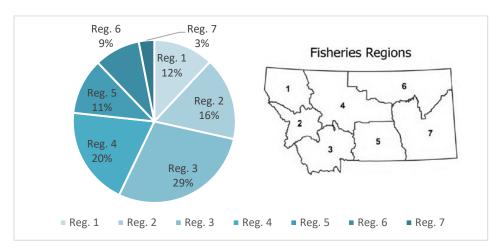


Figure 15. Percent of winter angling pressure by region

Residents (Figure 16, Table 11) exerted the majority of angling pressure during the winter season in 2020-21 in all regions but Regions 3 and 6. Compared to the 2019-20 winter season, all regions had an increase in the percentage of resident anglers.

```
Region 1 = 81% residents (2019=75.2%)
Region 2 = 63% residents (2019=60.1%)
Region 3 = 47% residents (2019=43%)
Region 4 = 80% residents (2019=67.6%)
Region 6 = 46\% residents (2019=41.5%)
Region 6 = 46\% residents (2019=56%)
```

Angling on lotic waters (streams/rivers) accounted for 61.4% (790,000 angler days) of the statewide pressure during the winter season, a 34% increase from 2019. Angling on lentic waters (lakes/ponds/reservoirs) accounted for 37.8% (485,494 angler days) of the pressure, which is a 55.6% increase in angler days compared to 2019. Undesignated waters accounted for less than 0.8% (9,702 angler days) of the pressure (Table 10).

Regions 1 and 6 were the regions in which lake angling pressure exceeded stream pressure during the winter season (80% and 75% respectively, from lakes), although Region 1 had the highest number of lake anglers (121,239) (Table 11, Figure 17). Region 4 had a significant percent of lake anglers, but stream angling was dominant (43% and 57%, respectively). Regions 2, 3, 5 and 7 were dominated by stream anglers, and Region 3 had the highest number of stream anglers for any region (295,405 angler days) while Region 5 had the highest percentage (84%) of anglers that were stream anglers.

Angling pressure during winter was summarized within the 40 major drainages (Figure 11, Table 12). The highest pressure by drainage was 126,826 angler days for the Upper Missouri River, followed by 120,957 for the Madison River drainage, and 114,007 for the Upper Yellowstone River drainage. The lowest pressure by drainage was 395 angler days for the Boulder River drainage, followed by 497 for the Powder River, and 956 for the South Fork Flathead River. The drainages with the highest percentage of resident anglers were the Powder and Swan Rivers at 100% resident, followed by Missouri River-Judith at 96%, Belt Creek at 91%, Lower Milk and Kootenai River at 90%. The lowest percentage of resident anglers were Fort Peck Reservoir at 27% resident, followed by the Madison River at 32%, and Bighorn River at 39%. The Red Rock River (96%), Lower Missouri River (96%) and Fort Peck Reservoir (95%) had the highest percentage of lake anglers. The Boulder River (0%), Belt Creek (0%), and Lower Milk River (0%) reported the lowest percentage lake angling, followed by Missouri River - Dearborn (0.7%) and the Big Hole River (0.9%) drainages.

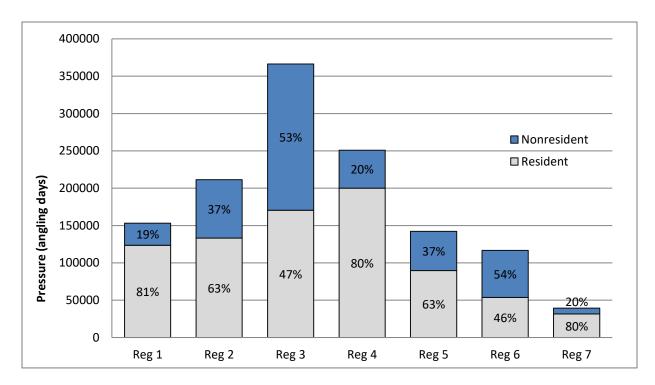


Figure 16. Statewide Angling Pressure by Region and Residency - Winter Months 2020-21

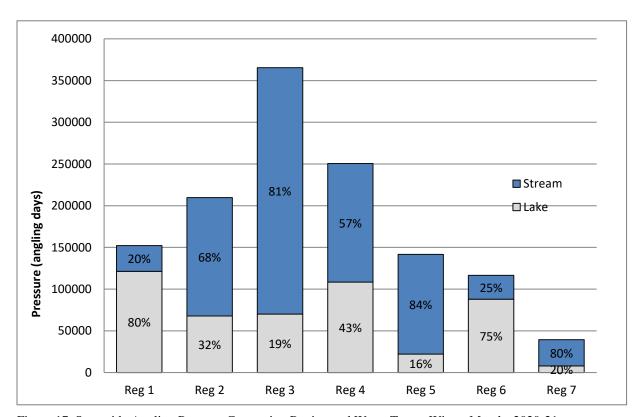


Figure 17. Statewide Angling Pressure Comparing Region and Water Type - Winter Months 2020-21

Table 11. Regional angling pressure in angler days by lake or stream for the 2020-21 winter season (March-April and October – February of the survey license year)

		Totals		Resident	t	Non-Reside	ent
		Pressure	Trips	Pressure	Trips	Pressure	Trips
Region	1						
Undesig	;	1,018	4			1,018	4
Lake		121,239	473	100,470	383	20,769	90
Stream		30,941	140	23,084	102	7,857	38
Region	Total:	153,198	617	123,554	485	29,644	132
Undesig		1,770	7			1,770	7
Lake		67,733	261	49,104	183	18,629	78
Stream		141,985	679	84,005	396	57,979	283
Region	Total:	211,488	947	133,109	579	78,378	368
Undesig		822	4			822	4
Lake		70,083	288	33,979	140	36,104	148
Stream		295,406	1,423	136,473	653	158,933	770
Region	Total:	366,310	1,715	170,452	793	195,859	922
Undesig	;	388	2	124	1	263	1
Lake		108,410	484	90,836	408	17,574	76
Stream		142,070	631	109,111	464	32,958	167
	Total:	250,867	1,117	200,071	873	50,795	244
Region Undesig	5	592	3			592	3
Lake		22,148	72	20,888	66	1,261	6
Stream		119,514	525	68,845	291	50,669	234
Danian	Total:	142,255	600	89,733	357	52,522	243
Region Lake	6	88,001	363	29,294	139	58,707	224
Stream		28,587	128	24,425	108	4,163	20
Region	Total:	116,588	491	53,719	247	62,870	244
Lake	,	7,880	36	6,531	29	1,349	7
Stream		31,497	131	25,035	101	6,462	30
	Total:	39,378	167	31,566	130	7,811	37

		nse year)				
	Total		Resid		Non-Resi	
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Beaverhead River						
Lake	280	1	280	1		
Stream	11,510	58	5,551	30	5,959	28
Total:	11,790	59	5,831	31	5,959	28
Belt Creek						
Stream	1,594	9	1,450	8	144	1
Total:	1,594	9	1,450	8	144	1
Big Hole River						
Lake	283	1	283	1		
Stream	31,363	127	25,379	99	5,984	28
Total:	31,646	128	25,662	100	5,984	28
Bighorn River						
Lake	11,455	18	11,311	17	144	1
Stream	56,487	234	15,268	47	41,219	187
Total:	67,942	252	26,579	64	41,363	188
Bitterroot River						
Lake	1,668	8	801	4	867	4
Stream	58,684	296	36,778	189	21,906	107
Total:	60,352	304	37,579	193	22,773	111
Blackfoot River						
Lake	16,519	68	12,150	50	4,368	18
Stream	17,823	77	12,680	51	5,143	26
Total:	34,342	145	24,830	101	9,511	44
Boulder River						
Stream	395	2			395	2
Total:	395	2			395	2
Clark Fork River - Flin	nt / Rock					
Lake	46,925	175	33,531	119	13,394	56
Stream	22,281	111	8,208	43	14,073	68
Total:	69,206	286	41,739	162	27,467	124
Flathead River						
Lake	71,147	268	59,005	216	12,142	52
Stream	11,334	46	9,428	37	1,906	9
Total:	82,480	314	68,433	253	14,048	61

	Total	ls	Reside	ent	Non-Resi	dent
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Fort Peck Reservoir						
Lake	71,106	287	18,541	87	52,565	200
Stream	4,031	22	2,040	13	1,991	9
Total:	75,136	309	20,581	100	54,556	209
Gallatin River						
Lake	10,928	43	3,807	15	7,121	28
Stream	65,814	322	33,316	168	32,498	154
Total:	76,742	365	37,123	183	39,619	182
Jefferson River						
Lake	9,517	26	8,358	21	1,159	5
Stream	6,881	35	3,690	19	3,191	16
Total:	16,398	61	12,048	40	4,350	21
Kootenai River						
Lake	22,823	94	22,037	91	786	3
Stream	5,506	28	3,438	18	2,068	10
Total:	28,329	122	25,475	109	2,854	13
Little Missouri River						
Lake	559	2	559	2		
Stream	790	4			790	4
Total:	1,349	6	559	2	790	4
Lower Clark Fork Riv	ver					
Lake	18,313	75	10,472	40	7,841	35
Stream	9,348	49	6,152	32	3,196	17
Total:	27,661	124	16,624	72	11,037	52
Lower Milk River						
Stream	1,486	7	1,342	6	144	1
Total:	1,486	7	1,342	6	144	1
Lower Missouri River						
Lake	3,230	16	2,535	13	695	3
Stream	144	1	_,000		144	1
Total:	3,375	17	2,535	13	839	4
Lower Yellowstone Ri	ver					
Lake	4,680	19	4,680	19		
Stream	17,186	83	14,422	69	2,764	14
Total:	21,866	102	19,102	88	2,764	14

	Total	s	Reside	ent	Non-Resi	ident
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Madison River						
Lake	18,737	93	5,816	37	12,921	56
Stream	102,220	503	33,119	166	69,101	337
Total:	120,957	596	38,935	203	82,022	393
Marias River						
Lake	11,662	47	6,792	28	4,870	19
Stream	2,036	14	2,036	14	,	-
Total:	13,698	61	8,828	42	4,870	19
Middle Clark Fork R	iver					
Lake	944	4	944	4		
Stream	34,147	153	19,272	80	14,875	73
Total:	35,091	157	20,216	84	14,875	73
Middle Milk River						
Lake	9,044	42	4,650	25	4,393	17
Stream	10,746	45	10,548	44	197	1
Total:	19,789	87	15,198	69	4,590	18
Middle Yellowstone I	River					
Lake	3,452	18	3,452	18		
Stream	9,365	41	9,365	41		
Total:	12,817	59	12,817	59		
Missouri River - Dear	rborn					
Lake	531	3	531	3		
Stream	70,281	331	48,775	225	21,506	106
Total:	70,812	334	49,306	228	21,506	106
Missouri River - Judi	ith					
Lake	2,185	9	2,185	9		
Stream	11,057	46	10,481	43	575	3
Total:	13,241	55	12,666	52	575	3
Missouri River - Popl	lar					
Lake	266	1	266	1		
Stream	7,557	36	5,871	28	1,686	8
Total:	7,823	37	6,137	29	1,686	8
Musselshell River						
Lake	5,097	23	4,883	22	214	1
Stream	4,140	23	2,554	16	1,586	7
Total:	9,237	46	7,437	38	1,800	8

	Total	ls	Resid	ent	Non-Resi	ident
	Pressure	Trips	Pressure	Trips	Pressure	Trips
Powder River						
Stream	497	4	497	4		
Total:	497	4	497	4		
Red Rock River						
Lake	21,857	88	9,282	40	12,575	48
Stream	806	4	,		806	4
Total:	22,663	92	9,282	40	13,381	52
Ruby River						
Lake	5,873	23	4,807	18	1,066	5
Stream	10,438	54	2,117	11	8,321	43
Total:	16,311	77	6,924	29	9,387	48
Smith River						
Lake	6,284	24	5,452	21	832	3
Stream	5,791	26	4,568	18	1,223	8
Total:	12,075	50	10,020	39	2,055	11
South Fork Flathead	River					
Lake	124	1	124	1		
Stream	832	3			832	3
Total:	956	4	124	1	832	3
Sun River						
Lake	8,057	32	6,923	27	1,134	5
Stream	3,652	20	2,321	14	1,331	6
Total:	11,709	52	9,244	41	2,465	11
Swan River						
Lake	4,460	17	4,460	17		
Stream	2,658	10	2,658	10		
Total:	7,118	27	7,118	27		
Teton River						
Lake	2,374	11	2,142	10	232	1
Stream	2,608	15	2,081	13	527	2
Total:	4,982	26	4,223	23	759	3
Tongue River						
Lake	2,641	15	1,292	8	1,349	7
Stream	13,024	40	10,116	28	2,908	12
Total:	15,665	55	11,408	36	4,257	19

	Totals		Resid	Resident		Non-Resident	
	Pressure	Trips	Pressure	Trips	Pressure	Trips	
Upper Clark Fork River							
Lake	1,678	6	1,678	6			
Stream	9,050	42	7,067	33	1,983	9	
Total:	10,728	48	8,745	39	1,983	9	
Upper Milk River							
Lake	5,022	20	3,019	12	2,003	8	
Stream	4,624	17	4,624	17			
Total:	9,645	37	7,643	29	2,003	8	
Upper Missouri River							
Lake	71,585	334	62,028	290	9,556	44	
Stream	55,242	216	45,188	163	10,054	53	
Total:	126,826	550	107,216	453	19,610	97	
Upper Yellowstone River	r						
Lake	8,842	44	6,677	34	2,165	10	
Stream	105,166	498	67,168	313	37,997	185	
Total:	114,007	542	73,845	347	40,162	195	

3.5 PRIMARY SPECIES FISHED FOR

The mail questionnaire asked anglers to indicate the primary species they were fishing for. The answers to this question provide a good generalization regarding angler preferences and intentions but are probably inaccurate on some waters because anglers often will intentionally fish for more than one species but can only indicate one on the questionnaire. Another innacuracy occurs in situations where anglers are fishing for one of many species of co-existing trout in a lake or stream. The angler may typically expect to catch a rainbow, cutthroat, brown, or brook trout depending on the situation. It is most likely for this reason that a common response to the survey, particularly in the trout-dominant rivers of southwestern Montana, was "trout."

On a statewide basis, the most common response was "trout" (43.45%), followed by rainbow trout (11.19%), walleye (9.82%), brown trout (7.01%), cutthroat trout (5.84%), bass (2.6%), and channel catfish 2.25% (Table 13). Salmonids (trout, salmon, char, whitefish and grayling) collectively are indicated as the primary species by 73.45% of anglers.

Although salmonid fishing dominates on a statewide basis in terms of angler days, there are notable geographic differences (Table 14). Salmonid fishing comprises the majority of angling pressure in every drainage west of the Continental Divide except for the lower Clark Fork, which is heavily influenced by fishing on Noxon Rapids Reservoir for bass (34.92%), walleye (14.92%), and yellow perch (14.24%). The salmonid-dominant drainages west of the divide have some notable differences. Lake trout are a very highly sought species in the Flathead River drainage (16.21%), primarily due to Flathead Lake as well as the Swan River drainage (12.37%). Cutthroat trout constitute the majority of angling interest in the South Fork Flathead drainage (68%). Cutthroat trout is also the dominant species (outside of "trout") in the Upper Clark Fork River drainage (16.77%), Blackfoot River drainage (17.56%) and the Bitterroot River drainage (18.01%). Salmon fishing (Kokanee plus "salmon") is most prominent in the Kootenai River drainage (23.03%), primarily due to fishing on Lake Koocanusa.

The Missouri headwater drainages in Region 3 of southwest Montana are dominated by trout fishing, primarily for rainbow and brown trout in the valley-bottom rivers. For these two species plus "trout", the percentage ranges from 79.1% in the Boulder River drainage to 93.88% in the Madison River drainage. Cutthroat and brook trout, where indicated as the primary species, are numerically low (typically below 12%), but are often the only game species in the mountain lakes and streams in these drainages.

The upper and middle Misouri River and the drainages in Region 4 represent a transition from salmonids to cool-water species. The Upper Missouri River drainage, which contains Canyon Ferry, Hauser and Holter reservoirs is dominated by "trout" and rainbow trout as a primary species (55.08%), although walleye represent a significant component (33.99%). Downstream in the Missouri-Dearborn drainage, "trout," rainbow trout and brown trout are the overwhelming favorite species and make up close to 86.86% of the effort. Further downstream in the Missouri River-Judith drainage, "trout"/rainbow trout still comprise the majority of species being fished for, but cool-water species such as walleye (9.92%) and yellow perch (3.68%), as well as warm-water

species such as channel catfish (9.63%) and sturgeon (3.97%) are important to anglers. The Marias River drainage is the most notable tributary to the Missouri in Region 4, due to its high emphasis on walleye (73.55%), sturgeon (4.41%) and yellow perch (3.86%).

The lower Missouri River mainstem drainages within Region 6 are dominated by walleye and northern pike fishing. Combined, these two species comprise 61.12% of angler preference in Fort Peck Reservoir, 65.36% in the Missouri River-Poplar, and 55.55% in the Lower Missouri drainage. Channel catfish is the primary target species on the Lower Milk River (34.21%), and also popular in the Lower Missouri River drainage (9.52%) and Fort Peck Reservoir (6.18%).

Species preferences within the Yellowstone River drainage show a longitudinal shift from salmonid fishing in the headwaters to cool and warm water species in eastern Montana. In the Upper Yellowstone drainage within Region 3, the combination of "trout," rainbow trout, brown trout and cutthroat trout comprise 93.56% of angler preferences. Further downstream in Region 5, but still within the Upper Yellowstone drainage, these same species make up over 85.43% of preferences. The Middle Yellowstone River drainage still has a substantial component of anglers seeking trout (roughly 33.19% for "trout," rainbow trout and brown trout), but warm-water species dominate, led by channel catfish (30.91%), bass (17.22%) and smallmouth bass (5.19%). The Lower Yellowstone River drainage is dominated by fishing for channel catfish (40.55%), followed by Walleye (26.21%), Bass (9.47%), and Sauger (4.85%). Of note, restrictions on paddlefish licenses in 2020 due to Covid-19 removed this popular species from the primary species list. Notable tributary drainages to the Yellowstone include the Bighorn River drainage (72.61% for "trout," rainbow trout and brown trout), and the Tongue River drainage which has high levels for walleye (29.62%), bass (18.46%), channel catfish (17.31%) and crappie (15%) based primarily on fishing in Tongue River Reservoir.

Table 13. Percent of trips for each primary species fished for statewide in 2020 license year

Trout	43.45%	Common Carp	0.18%
Rainbow Trout	11.19%	Rainbow Trout X Cutthroat	0.15%
Walleye	9.82%	Sauger	0.14%
Brown Trout	7.01%	Paddlefish	0.11%
Cutthroat Trout	5.84%	Bluegill	0.10%
Bass	2.60%	Golden Trout	0.07%
Channel Catfish	2.25%	Bull Trout	0.07%
Lake Trout	1.93%	Sucker	0.06%
Yellow Perch	1.71%	Goldeye	0.03%
Salmon	1.29%	Chinook Salmon	0.03%
Brook Trout	1.00%	Bigmouth Buffalo	0.02%
Nothern Pike	0.95%	Sunfish	0.01%
Kokanee salmon	0.83%	Pumpkinseed	0.01%
Smallmouth Bass	0.55%	Blue Sucker	0.01%
Whitefish	0.36%	Rainbow Smelt	0.01%
Burbot	0.31%	Lake Whitefish	0.01%

Crappie	0.25%	Coho Salmon	0.01%
Largemouth Bass	0.24%	Mountain Whitefish	0.00%
Sturgeon	0.22%	Peamouth	0.00%
Arctic Grayling	0.21%	Rainbow Trout X Golden	0.00%

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Drainage	Primary Species Fished for	Percent of days for species	
Region: 1			
Flathead Rive	r (47.12% of days fished in this Region.)		
	Trout	19.38%	
	Lake Trout	16.21%	
	Cutthroat Trout	13.22%	
	Yellow Perch	7.63%	
	Rainbow Trout	5.82%	
	Bass	5.82%	
	Salmon	5.59%	
	Kokanee salmon	3.84%	
	Whitefish	2.94%	
	Nothern Pike	1.24%	
	Smallmouth Bass	1.13%	
	Arctic Grayling	1.07%	
	Crappie	0.79%	
	Rainbow Trout X Cutthroat Trout Hybrid	0.73%	
	Largemouth Bass	0.40%	
	Brook Trout	0.23%	
	Lake Whitefish	0.11%	
	Sturgeon	0.11%	
	Walleye	0.11%	
	Pumpkinseed	0.11%	
	Blue Sucker	0.06%	
	Brown Trout	0.06%	
Kootenai Rive	er (17.92% of days fished in this Region.)		
	Trout	30.31%	
	Rainbow Trout	15.30%	
	Salmon	12.18%	
	Kokanee salmon	10.85%	
	Bass	9.81%	
	Yellow Perch	6.54%	
	Cutthroat Trout	1.93%	
	Smallmouth Bass	0.59%	
	Largemouth Bass	0.59%	
	Lake Trout	0.45%	
	Brook Trout	0.45%	
	Sunfish	0.45%	
	Sucker	0.30%	
	Blue Sucker	0.30%	
	Nothern Pike	0.30%	
	Whitefish	0.15%	
	Peamouth	0.15%	

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Drainage	Primary Species Fished for	Percent of days for species
Lower Clark Fork	River (20.50% of days fished in this Region.)	
	Trout	20.26%
	Bass	19.48%
	Yellow Perch	9.48%
	Walleye	6.75%
	Smallmouth Bass	4.42%
	Brown Trout	3.38%
	Rainbow Trout	2.99%
	Cutthroat Trout	1.82%
	Lake Trout	1.56%
	Nothern Pike	1.56%
	Salmon	1.43%
	Kokanee salmon	1.04%
	Largemouth Bass	0.78%
	ead River (7.32% of days fished in this Region.)	
	Cutthroat Trout	68.00%
	Trout	17.45%
	Bull Trout	6.55%
	Rainbow Trout	2.55%
	Whitefish	1.82%
	Brown Trout	0.73%
	Brook Trout	0.36%
	% of days fished in this Region.)	0.000
	Trout	41.40%
	Rainbow Trout	13.44%
	Lake Trout	12.37%
	Cutthroat Trout	9.68%
	Nothern Pike	3.23%
	Bass	1.08%
	Golden Trout	0.54%
	Yellow Perch	0.54%
	Salmon	0.54%
Region: 2		
Bitterroot River (27.51% of days fished in this Region.)	
	Trout	58.48%
	Cutthroat Trout	18.01%
	Rainbow Trout	10.49%
	Brown Trout	5.65%
	Whitefish	1.19%
	Nothern Pike	1.12%
	Brook Trout	1.12%
	Rainbow Trout X Cutthroat Trout Hybrid	0.37%
	Lake Trout	0.07%

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Drainage	Primary Species Fished for	Percent of days for species
Blackfoot River	(24.71% of days fished in this Region.)	
	Trout	43.74%
	Cutthroat Trout	17.56%
	Rainbow Trout	11.68%
	Brown Trout	6.71%
	Yellow Perch	3.48%
	Bass	2.15%
	Kokanee salmon	0.99%
	Salmon	0.91%
	Nothern Pike	0.91%
	Rainbow Trout X Cutthroat Trout Hybrid	0.66%
	Brook Trout	0.41%
	Largemouth Bass	0.41%
	Walleye	0.17%
	Arctic Grayling	0.17%
	Bull Trout	0.17%
	Smallmouth Bass	0.08%
		0.06%
Clark Fork Rive	r - Flint / Rock (26.31% of days fished in this Region.)	
	Trout	51.52%
	Rainbow Trout	18.29%
	Cutthroat Trout	11.52%
	Brown Trout	6.69%
	Kokanee salmon	2.88%
	Salmon	2.72%
	Brook Trout	1.48%
	Arctic Grayling	0.47%
	Coho Salmon	0.16%
	Rainbow Trout X Cutthroat Trout Hybrid	0.16%
	Lake Trout	0.08%
Middle Clark For	k River (14.70% of days fished in this Region.)	
	Trout	49.44%
	Rainbow Trout	20.75%
	Cutthroat Trout	11.14%
	Brown Trout	3.20%
	Bass	2.92%
	Brook Trout	1.39%
	Nothern Pike	0.70%
	Whitefish	0.56%
	Rainbow Smelt	0.28%
	Yellow Perch	0.14%
	Largemouth Bass	0.14%
	Rainbow Trout X Cutthroat Trout Hybrid	0.14%
H Cl. I.E.		0.1470
Upper Clark For	k River (6.59% of days fished in this Region.)	
	Trout	51.55%
	Cutthroat Trout	16.77%
	Brown Trout	13.98%
	Rainbow Trout	7.76%
	Sturgeon	3.11%
	Rainbow Trout X Cutthroat Trout Hybrid	1.55%
	Whitefish	1.24%
	Brook Trout	1.24%

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Drainage	Primary Species Fished for	Percent of days for species	
Region: 3			
Beaverhead Ri	ver (4.76% of days fished in this Region.)		
	Trout	57.06%	
	Brown Trout	26.55%	
	Rainbow Trout	6.50%	
	Brook Trout	2.26%	
	Cutthroat Trout	0.85%	
	Golden Trout	0.28%	
Big Hole River	(13.24% of days fished in this Region.)		
	Trout	51.93%	
	Brown Trout	21.85%	
	Rainbow Trout	6.61%	
	Brook Trout	5.08%	
	Cutthroat Trout	4.07%	
	Arctic Grayling	1.42%	
	Burbot	0.81%	
	Golden Trout	0.20%	
	Lake Trout	0.10%	
Boulder River	(0.90% of days fished in this Region.)		
	Trout	43.28%	
	Brown Trout	19.40%	
	Rainbow Trout	16.42%	
	Brook Trout	7.46%	
	Whitefish	4.48%	
Gallatin River	(17.93% of days fished in this Region.)		
	Trout	55.26%	
	Rainbow Trout	19.97%	
	Brown Trout	9.83%	
	Cutthroat Trout	7.06%	
	Largemouth Bass	1.05%	
	Golden Trout	0.60%	
	Brook Trout	0.60%	
	Lake Trout	0.30%	
	Bluegill	0.15%	
	Yellow Perch	0.08%	
	Smallmouth Bass	0.08%	
	Whitefish	0.08%	
	Arctic Grayling	0.08%	
Jefferson River	(3.15% of days fished in this Region.)		
	Trout	68.38%	
	Brown Trout	9.83%	
	Rainbow Trout	8.97%	
	Cutthroat Trout	5.98%	
	Brook Trout	0.43%	
Lower Clark F	ork River (0.01% of days fished in this Region.)		
	Trout	100.00%	

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Drainage	Primary Species Fished for	Percent of days for species
Madison River	(35.84% of days fished in this Region.)	
	Trout	60.76%
	Brown Trout	17.12%
	Rainbow Trout	16.00%
	Cutthroat Trout	1.13%
	Bluegill	0.30%
	Whitefish	0.19%
	Largemouth Bass	0.19%
	Bass	0.15%
	Brook Trout	0.08%
	Sucker	0.08%
	Arctic Grayling	0.04%
	Mountain Whitefish	0.04%
	Rainbow Smelt	0.04%
	Sunfish	0.04%
Red Rock River	(3.55% of days fished in this Region.)	
red reek rever	Trout	51 140/
	Rainbow Trout	51.14% 16.67%
	Burbot	
		14.39%
	Cutthroat Trout Brown Trout	6.06%
		3.79%
	Brook Trout	1.89%
	Lake Trout	0.76% 0.76%
	Common Carp	
	Rainbow Trout X Cutthroat Trout Hybrid	0.76%
	Nothern Pike	0.38%
Ruby River (2.7	6% of days fished in this Region.)	
	Trout	50.24%
	Brown Trout	20.98%
	Rainbow Trout	12.20%
	Brook Trout	7.32%
	Cutthroat Trout	4.88%
Upper Missouri	River (3.06% of days fished in this Region.)	
	Trout	44.93%
	Walleye	19.38%
	Rainbow Trout	11.89%
	Brook Trout	10.57%
	Common Carp	5.73%
	Arctic Grayling	2.20%
	Cutthroat Trout	1.76%
	Brown Trout	0.44%
Upper Yellowst	one River (14.62% of days fished in this Region.)	
TT.	Trout	64.55%
	Brown Trout	11.97%
	Rainbow Trout	10.13%
	Cutthroat Trout	6.91%
	Yellow Perch	0.92%
	Rainbow Trout X Cutthroat Trout Hybrid	0.28%
	Whitefish	0.28%
	Brook Trout	0.28%
	Lake Trout	0.28%
	Walleye	0.18%
	Bass	0.16%
	Dass	0.07/0

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Drainage	Primary Species Fished for	Percent of days for species	
Region: 4			
Belt Creek (1.	25% of days fished in this Region.)		
	Trout	62.32%	
	Brown Trout	27.54%	
	Rainbow Trout	7.25%	
	Brook Trout	2.90%	
Marias River (6.56% of days fished in this Region.)		
	Walleye	73.55%	
	Trout	5.51%	
	Sturgeon	4.41%	
	Yellow Perch	3.86%	
	Nothern Pike	2.75%	
	Rainbow Trout	2.20%	
	Goldeye	1.65%	
	Channel Catfish	1.65%	
	Bigmouth Buffalo	1.38%	
	Lake Trout	0.83%	
Missouri Rive	r - Dearborn (25.17% of days fished in this Region.)		
	Trout	67.39%	
	Rainbow Trout	19.47%	
	Brown Trout	6.32%	
	Walleye	3.45%	
	Bass	0.79%	
	Brook Trout	0.36%	
	Channel Catfish	0.29%	
Missouri Rive	r - Judith (6.38% of days fished in this Region.)		
	Trout	37.11%	
	Rainbow Trout	11.05%	
	Walleye	9.92%	
	Channel Catfish	9.63%	
	Sturgeon	3.97%	
	Yellow Perch	3.68%	
	Brown Trout	3.12%	
	Brook Trout	2.83%	
	Sucker	2.83%	
	Common Carp	1.98%	
	Cutthroat Trout	1.13%	
	Bass	0.85%	
	Paddlefish	0.85%	
	Sauger	0.85%	
	Smallmouth Bass	0.28%	
Musselshell R	iver (2.93% of days fished in this Region.)		
	Trout	41.36%	
	Rainbow Trout	15.43%	
	Walleye	9.88%	
	Channel Catfish	9.26%	
	Lake Trout	6.17%	
	Brown Trout	4.32%	
	Bass	3.09%	
	Common Carp	2.47%	
	Brook Trout	2.47%	
	Largemouth Bass	1.23%	

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Drainage	Primary Species Fished for	Percent of days for species
NA - St. Mary	and Belly Rivers (0.05% of days fished in this Region.)	
·	Brook Trout	33.33%
	Rainbow Trout	33.33%
	Cutthroat Trout	33.33%
Smith River (9	.51% of days fished in this Region.)	
	Trout	52.28%
	Brown Trout	19.39%
	Rainbow Trout	16.92%
	Burbot	3.61%
	Cutthroat Trout	2.85%
	Brook Trout	1.33%
	Kokanee salmon	0.57%
	Salmon	0.57%
Sun River (5.64	4% of days fished in this Region.)	
	Trout	42.31%
	Rainbow Trout	25.00%
	Cutthroat Trout	5.45%
	Brown Trout	5.13%
	Kokanee salmon	2.24%
	Salmon	2.24%
	Largemouth Bass	2.24%
	Yellow Perch	1.92%
	Walleye	0.96%
	Channel Catfish	0.96%
	Bass	0.96%
	Arctic Grayling	0.96%
	Nothern Pike	0.64%
	Brook Trout	0.32%
Teton River (1.	.55% of days fished in this Region.)	
	Trout	32.56%
	Rainbow Trout	20.93%
	Sturgeon	11.63%
	Cutthroat Trout	9.30%
	Common Carp	6.98%
	Yellow Perch	5.81%
	Bass	2.33%
	Channel Catfish	2.33%
Upper Milk Ri	ver (0.14% of days fished in this Region.)	
	Walleye	37.50%
	Trout	12.50%

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Drainage	Primary Species Fished for	Percent of days for species	
Upper Missou	uri River (40.54% of days fished in this Region.)		
	Trout	40.99%	
	Walleye	33.99%	
	Rainbow Trout	14.09%	
	Yellow Perch	2.68%	
	Brown Trout	0.89%	
	Kokanee salmon	0.85%	
	Bass	0.71%	
	Common Carp	0.67%	
	Burbot	0.58%	
	Salmon	0.45%	
	Lake Trout	0.27%	
	Brook Trout	0.22%	
	Nothern Pike	0.18%	
	Channel Catfish	0.09%	
	Largemouth Bass	0.04%	
	Pumpkinseed	0.04%	
Region: 5			
Bighorn Rive	r (21.01% of days fished in this Region.)		
	Trout	53.98%	
	Brown Trout	10.99%	
	Rainbow Trout	7.64%	
	Walleye	5.10%	
	Bass	4.78%	
	Smallmouth Bass	4.46%	
	Yellow Perch	2.39%	
	Cutthroat Trout	2.07%	
	Channel Catfish	1.91%	
	Sauger	1.27%	
	Crappie	0.80%	
	Burbot	0.16%	
Middle Yello	wstone River (16.13% of days fished in this Region.)	
	Channel Catfish	30.91%	
	Trout	28.84%	
	Bass	17.22%	
	Smallmouth Bass	5.19%	
	Rainbow Trout	2.90%	
	Yellow Perch	1.66%	
	Walleye	1.45%	
	Bluegill	1.45%	
	Brown Trout	1.45%	
	Sauger	1.04%	
	Common Carp	0.62%	
	Burbot	0.62%	
	Largemouth Bass	0.41%	
	Crappie	0.41%	
	Goldeye	0.21%	

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Musselshell River (4.0% of days fished in this Region.) Trout	Drainage	Primary Species Fished for	Percent of days for species	
Channel Carlish 25.36% 34.49% 31.04% 31.04% 31.04% 31.04% 31.04% 31.04% 31.04% 31.04% 31.04% 31.05% 31.000 3	Musselshell Riv	ver (4.62% of days fished in this Region.)		
Bass Walleye 13,104% Brown Trout 2,90% Rainbow Trout 2,17% Kokanee salmon 2,17% Salmon 1,45% Smallmouth Bass 1,45% Upper Yellowstone River (Sk.11% of days fished in this Region.)		Trout	31.88%	
Walleye 13.04% 15.00%		Channel Catfish	25.36%	
Brown Trout			14.49%	
Rainbow Trout		Walleye		
Kokanee salmon 1.45% Salmon 1.45% Salmon 1.45% Smallmouth Bass 1.45%		Brown Trout	2.90%	
Salmon		Rainbow Trout	2.17%	
Smallmouth Bass 1,45% Upper Yellowstone River (58.11% of days fished in this Region.) Trout		Kokanee salmon	2.17%	
Upper Yellowstone River (58.11% of days fished in this Region.) Trout		Salmon	1.45%	
Trout		Smallmouth Bass	1.45%	
Rainbow Trout	Upper Yellows	tone River (58.11% of days fished in this Region.)		
Brown Trout Walleye		Trout	64.54%	
Walleye Cutthroat Trout Brook Trout Brook Trout Brook Trout Brook Trout Brook Trout Brook Trout Cutthroat Trout Brook Trout Brook Trout Arctic Grayling Golden Trout Qu46% Golden Trout Yellow Perch Whitefish Ou35% Channel Catfish Rainbow Trout X Cutthroat Trout Hybrid Bluegil Bluegil Ou17% Sucker Lake Trout Burbot Rainbow Trout X Golden Trout Hybrid Crappie Sucker Un17% Burbot Rainbow Trout X Golden Trout Hybrid Crappie Sucker Un17% Burbot Rainbow Trout X Golden Trout Hybrid Ou66% Rainbow Trout X Golden Trout Hybrid Ou66% Rainbow Trout X Golden Trout Hybrid Crappie Sucker Un17% Burbot Rainbow Trout X Golden Trout Hybrid Ou66% Rainbow Trout 11.58% Channel Catfish Nothern Pike Alleye Channel Catfish Al-14% Walleye Crappie Lower Milk River (1.70% of days fished in this Region.) Channel Catfish Walleye Sutrgeon Trout Sutrgeo			10.65%	
Cutthroat Trout		Brown Trout	6.79%	
Brock Trout		Walleye	5.76%	
Bass 0.98% Arctic Grayling 0.46% Golden Trout 0.46% Vellow Perch 0.40% Whitefish 0.35% Channel Catfish 0.23% Rainbow Trout X Cutthroat Trout Hybrid 0.17% Bluegill 0.17% Sucker 0.17% 0.06% Rainbow Trout X Golden Trout Hybrid 0.16% 0.06% Rainbow Trout X Golden Trout Hybrid 0.06% Crappie		Cutthroat Trout	3.45%	
Arctic Grayling Golden Trout Golden Trout Vellow Perch Whitefish Channel Catfish Rainbow Trout X Cutthroat Trout Hybrid Bluegill O.17% Bluegill O.17% Lake Trout Lake Trout Arainbow Trout X Golden Trout Hybrid Burbot Crappie O.06% Rainbow Trout X Golden Trout Hybrid O.06% Burbot Crappie O.06% O.06% O.06% O.06% Crappie O.06% O.06% O.06% O.06% O.06% O.06% Crappie O.06% O		Brook Trout	2.59%	
Golden Trout		Bass	0.98%	
Yellow Perch 0.40% Whitefish 0.35% Channel Catfish 0.23% Rainbow Trout X Cutthroat Trout Hybrid 0.17% Bluegill 0.17% Sucker 0.17% Lake Trout 0.06% Burbot 0.06% Rainbow Trout X Golden Trout Hybrid 0.06% Crappie 0.06% ***********************************		Arctic Grayling	0.46%	
Whitefish		Golden Trout	0.46%	
Channel Catfish 0.23% Rainbow Trout X Cutthroat Trout Hybrid 0.17% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.2% 1.7% 1.2% 1.		Yellow Perch	0.40%	
Rainbow Trout X Cutthroat Trout Hybrid Bluegill		Whitefish	0.35%	
Bluegill 0.17% Sucker 0.17% Sucker 0.17% Channel Catfish Carppie 0.17% Channel Catfish Carppie 0.06% Carppie 0		Channel Catfish	0.23%	
Sucker		Rainbow Trout X Cutthroat Trout Hybrid	0.17%	
Sucker 1.1		Bluegill	0.17%	
Burbot		Sucker	0.17%	
Rainbow Trout X Golden Trout Hybrid Crappie 0.06% Crappie 0.06% Region: 6 55.00% Fort Peck Reservoir (67.86% of days fished in this Region.) 55.00% Walleye 55.00% Lake Trout 11.58% Channel Catfish 6.18% Nothern Pike 6.12% Salmon 5.99% Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) 5.26% Lower Missouri River (2.81% of days fished in this Region.) 44.44% Walleye 11.11% Walleye 11.11% Channel Catfish 9.52%		Lake Trout	0.06%	
Crappie 0.06% Region: 6 Fort Peck Reservoir (67.86% of days fished in this Region.) Walleye 55.00% Lake Trout 11.58% Channel Catfish 6.18% Nothern Pike 6.12% Salmon 5.99% Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) 44.44% Nothern Pike 44.44% Walleye 11.11% Channel Catfish 9.52%		Burbot	0.06%	
Region: 6 Fort Peck Reservoir (67.86% of days fished in this Region.) Walleye 55.00% Lake Trout 11.58% Channel Catfish 6.18% Nothern Pike 6.12% Salmon 5.99% Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) 44.44% Nothern Pike 44.44% Walleye 11.11% Channel Catfish 9.52%		Rainbow Trout X Golden Trout Hybrid	0.06%	
Fort Peck Reservoir (67.86% of days fished in this Region.) Walleye 55.00% Lake Trout 11.58% Channel Catfish 6.18% Nothern Pike 6.12% Salmon 5.99% Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) Channel Catfish 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) Nothern Pike 44.44% Walleye 11.11% Channel Catfish 9.52%		Crappie	0.06%	
Walleye 55.00% Lake Trout 11.58% Channel Catfish 6.18% Nothern Pike 6.12% Salmon 5.99% Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) 44.44% Nothern Pike 44.44% Walleye 11.11% Channel Catfish 9.52%	Region: 6			
Walleye 55.00% Lake Trout 11.58% Channel Catfish 6.18% Nothern Pike 6.12% Salmon 5.99% Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) 44.44% Nothern Pike 44.44% Walleye 11.11% Channel Catfish 9.52%	Fort Peck Rese	rvoir (67.86% of days fished in this Region.)		
Lake Trout 11.58% Channel Catfish 6.18% Nothern Pike 6.12% Salmon 5.99% Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) Wothern Pike Walleye 44.44% Walleye 11.11% Channel Catfish 9.52%		The state of the s	55.00%	
Nothern Pike 5.99%				
Salmon 5.99% Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) Nothern Pike Walleye 11.11% Channel Catfish 9.52%		Channel Catfish	6.18%	
Salmon 5.99% Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) Nothern Pike Walleye 11.11% Channel Catfish 9.52%		Nothern Pike	6.12%	
Bass 1.84% Paddlefish 1.84% Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Channel Catfish 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Chower Missouri River (2.81% of days fished in this Region.) Nothern Pike 44.44% Walleye 11.11% Channel Catfish 9.52% Second Possible Common Catfish Second Possible Common Cat			5.99%	
Smallmouth Bass 0.86% Trout 0.72% Chinook Salmon 0.46% Crappie 0.33%				
Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Channel Catfish 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) 44.44% Nothern Pike 44.44% Walleye 11.11% Channel Catfish 9.52%		Paddlefish	1.84%	
Trout 0.72% Chinook Salmon 0.46% Crappie 0.33% Lower Milk River (1.70% of days fished in this Region.) 34.21% Channel Catfish 34.21% Walleye 28.95% Sturgeon 26.32% Trout 5.26% Lower Missouri River (2.81% of days fished in this Region.) 44.44% Nothern Pike 44.44% Walleye 11.11% Channel Catfish 9.52%		Smallmouth Bass		
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Walleye 11.11% Channel Catfish 9.52%			44.44%	
Channel Catfish 9.52%				
DASS / 94%		Bass	7.94%	
Trout 4.76%				

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

dle Milk River (14.82% of days fished in this Region.) Walleye Trout Nothern Pike Brook Trout Channel Catfish Rainbow Trout Yellow Perch Smallmouth Bass Bass Cutthroat Trout Souri River - Judith (0.49% of days fished in this Region.) Walleye Souri River - Poplar (5.67% of days fished in this Region.) Walleye Nothern Pike Trout Channel Catfish Yellow Perch Sauger Goldeye er Milk River (6.65% of days fished in this Region.) Walleye Trout Channel Catfish Yellow Perch Crappie Nothern Pike On: 7 Peck Reservoir (0.85% of days fished in this Region.) Walleye Channel Catfish e Missouri River (1.99% of days fished in this Region.) Rainbow Trout Nothern Pike Channel Catfish Trout Largemouth Bass Per Yellowstone River (58.61% of days fished in this Region.) Channel Catfish Walleye	35.54% 31.02% 5.72% 3.92% 3.01% 2.11% 0.90% 0.60% 0.60% 0.30%
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Yellow Perch Crappie Nothern Pike On: 7 Peck Reservoir (0.85% of days fished in this Region.) Walleye Channel Catfish e Missouri River (1.99% of days fished in this Region.) Rainbow Trout Nothern Pike Channel Catfish Trout Largemouth Bass er Yellowstone River (58.61% of days fished in this Region.) Channel Catfish	5.37%
Crappie Nothern Pike on: 7 Peck Reservoir (0.85% of days fished in this Region.) Walleye Channel Catfish e Missouri River (1.99% of days fished in this Region.) Rainbow Trout Nothern Pike Channel Catfish Trout Largemouth Bass eer Yellowstone River (58.61% of days fished in this Region.) Channel Catfish	2.01%
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Largemouth Bass er Yellowstone River (58.61% of days fished in this Region.) Channel Catfish	21.43%
rer Yellowstone River (58.61% of days fished in this Region.) Channel Catfish	14.29%
Channel Catfish	7.14%
	/.17/0
Walleye	
•	40.53%
Bass	40.53% 26.21%
Sauger	40.53% 26.21% 9.47%
Yellow Perch	40.53% 26.21% 9.47% 4.85%
Trout	40.53% 26.21% 9.47% 4.85% 3.64%
Bluegill	40.53% 26.21% 9.47% 4.85% 3.64% 2.43%
Smallmouth Bass	40.53% 26.21% 9.47% 4.85% 3.64% 2.43% 2.18%
Brown Trout	40.53% 26.21% 9.47% 4.85% 3.64% 2.43% 2.18% 1.70%
Nothern Pike	40.53% 26.21% 9.47% 4.85% 3.64% 2.43% 2.18% 1.70% 1.70%
Cutthroat Trout	40.53% 26.21% 9.47% 4.85% 3.64% 2.43% 2.18% 1.70%
Rainbow Trout	40.53% 26.21% 9.47% 4.85% 3.64% 2.43% 2.18% 1.70% 1.70%

Table 14. Percent of trips for each primary species fished for by region and drainage during 2020 survey year

Drainage	Primary Species Fished for	Percent of days for species	_			
Powder River (1.56% of days fished in this Region.)						
	Channel Catfish	54.55%				
	Trout	45.45%				
Tongue River	(36.98% of days fished in this Region.)					
	Walleye	29.62%				
	Bass	18.46%				
	Channel Catfish	17.31%				
	Crappie	15.00%				
	Smallmouth Bass	4.23%				
	Yellow Perch	2.31%				
	Rainbow Trout	1.15%				
	Trout	0.38%				
	Largemouth Bass	0.38%				
	Brown Trout	0.38%				
	Nothern Pike	0.38%				

3.6 BOAT USE – Aquatic Invasive Species Question

All anglers were asked if they use a boat, regardless if they did or did not report a fishing trip during the month they were surveyed. If respondents said "yes" they were asked if they pull the drain plug when taking out of water. This question is related to Montana FWP's "Clean. Drain. Dry." education campaign to help stop the spread of aquatic invasive species (AIS).

Out of all surveys returned, 52% (n=10,870) said they do not use a boat, while 29% (n=5,993) use a boat, and 19% (n=3,845) did not answer the question (Figure 18, Table 15). Out of the 5,993 respondents who do use a boat, 82% (n=4,916) said they pull the drain plug when taking out of water, while 10% (n=596) do not pull drain plug, and 8% (n=481) did not answer the question. Some respondents left a comment explaining why they do not pull the drain plug which was because they use a canoe, for example, or because they were with a guide.

Table 15 breaks down all responses by residency and according to whether they reported a fishing trip or did not fish. Up to 47% of residents who reported going fishing during the month surveyed said they use a boat, while just 23% of residents who did not go fishing during the month surveyed use a boat. The question was meant to imply using a boat in general, and not specifically using a boat during the month they were surveyed. It is possible anglers misunderstood the question given the range of boat use by those residents who reported a fishing trip, and those who did not fish.

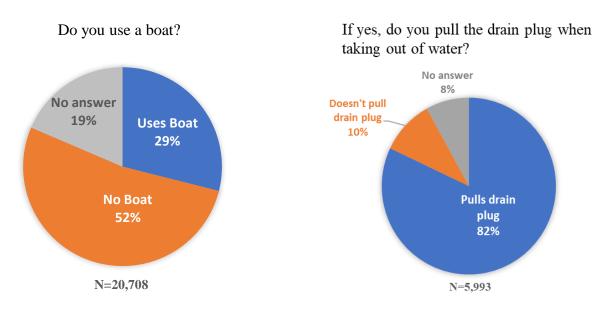


Figure 18. Responses to the questions "Do you use a boat" and "If yes, do you drain the plug when taking out of water?"

Table 15. Crosstab of responses to the AIS questions by residency and fishing status

	Total	#	#	#	%	%	%	#Yes	#No	#Null	%Yes	%No	%Null
		Uses	Null	No	No	Null	Yes	Pulls	Pulls	Pulls	Pulls	Pulls	Pulls
		Boat	Boat	boat	Boat	Boat	Boat	Plug	Plug	Plug	Plug	Plug	Plug
DID NOT FISH													
NonResident	2426	324	745	1357	56%	31%	13%	265	36	23	82%	11%	7%
Resident	11093	2583	2249	6262	56%	20%	23%	2263	219	101	88%	8%	4%
FISHED													
NonResident	2595	945	303	1348	52%	12%	36%	609	130	205	64%	14%	22%
Resident	4594	2142	550	1903	41%	12%	47%	1779	211	152	83%	10%	7%
COMBINED Fished / Did not fish													
NonResident	5021	1269	1048	2705	54%	21%	25%	874	166	228	69%	13%	18%
Resident	15687	4725	2799	8165	52%	18%	30%	4042	430	253	86%	9%	5%
TOTAL	20708	5994	3847	10870	52%	19%	29%	4916	596	481	82%	10%	8%

3.7 ANGLER ACCESS

On the questionnaire, anglers were asked if they had mostly fished from shore, boat, both shore and boat, or ice. When considered on a drainage basis (Table 16), the Fort Peck Reservoir had the lowest percentage (10.55%) fishing from shore, and the highest percent fishing from boats (68.48%). The Powder River drainage had the most fishing from shore (100%), followed by the Boulder River (95.52%), Little Missouri River (92.86%) Gallatin River (88.06%), and Upper Clark Fork (85.4%) drainages. The Powder River had the least fishing by boat (0%). For those drainages where there was ice fishing, the drainages with less than 1% included the South Fork Flathead River, Upper and Middle Clark Fork River, Beaverhead River, Big Hole River, Bighorn River, Bitterroot River, Upper Yellowstone, Missouri River - Judith and Missouri River - Dearborn. Fort Peck Reservoir, Clark Fork River - Flint / Rock, Little Missouri River, Lower Milk River, Missouri River - Poplar, and Red Rock River drainages all had greater than 10% of the anglers fishing through the ice.

Region 6 had the lowest percentage of anglers fishing from shore (20.89%) while Regions 2, 3, and 5 had the greatest percent (59.78%, 60.11% and 61.41% respectively) (Table 17). In terms of fishing from a boat, Regions 5, 3 and 2 were the lowest (25.16%, 27.29% and 28.45%), while Region 6 was highest at 57.68%. Region 5 had the lowest level of ice anglers (0.94%), while Region 6 had the highest level (12.32%). Nonresidents were slightly more likely to fish from shore (51.66%) than were residents (48.84%) (Table 18). More residents fished from a boat (37.41%) compared to non-residents (33.57%). A greater percentage of non-residents (6.35%) ice fished compared to residents (3.12%). Appendix F provides percentage of anglers accessing the water by each of these types for individual waterbodies.

Table 16. Angler types of fishing by drainage (total days fished and percentages)

Drainage Name	Shore	Boat	Shore/ Boat		Ice	Ice /Shore	Total
Beaverhead River	210 (59.32%)	86 (24.29%)	53 (14.97%)		1 (0.28%)		354
Belt Creek	58 (84.06%)	4 (5.8%)	3 (4.35%)				69
Big Hole River	469 (47.66%)	381 (38.72%)	127 (12.91%)		4 (0.41%)		984
Bighorn River	131 (20.86%)	300 (47.77%)	191 (30.41%)		5 (0.8%)		628
Bitterroot River	839 (62.43%)	374 (27.83%)	129 (9.6%)		1 (0.07%)		1344
Blackfoot River	549 (45.48%)	483 (40.02%)	118 (9.78%)		52 (4.31%)		1207
Boulder River	64 (95.52%)	1 (1.49%)					67
Clark Fork River - Flint / Rock	805 (62.65%)	281 (21.87%)	54 (4.2%)		132 (10.27%)	6 (0.47%)	1285
Flathead River	514 (29.04%)	937 (52.94%)	136 (7.68%)		156 (8.81%)		1770
Fort Peck Reservoir	161 (10.55%)	1045 (68.48%)	104 (6.82%)		208 (13.63%)		1526
Gallatin River	1173 (88.06%)	66 (4.95%)	50 (3.75%)		36 (2.7%)		1332
Jefferson River	145 (61.97%)	71 (30.34%)	8 (3.42%)		10 (4.27%)		234
Kootenai River	254 (37.74%)	336 (49.93%)	38 (5.65%)		43 (6.39%)		673
Little Missouri River	13 (92.86%)	1	1 (7.14%)				14
Lower Clark Fork River	284 (36.84%)	388 (50.32%)	66 (8.56%)		28 (3.63%)		771
Lower Milk River	30 (78.95%)	4 (10.53%)			4 (10.53%)		38
Lower Missouri River	23 (36.51%)	15 (23.81%)	19 (30.16%)		6 (9.52%)		63
Lower Yellowstone River	234 (56.8%)	120 (29.13%)	44 (10.68%)		14 (3.4%)		412
Madison River	1409 (52.91%)	866 (32.52%)	316 (11.87%)		54 (2.03%)	6 (0.23%)	2663
Marias River	82 (22.59%)	209 (57.58%)	39 (10.74%)		32 (8.82%)		363
Middle Clark Fork River	447 (62.26%)	212 (29.53%)	52 (7.24%)	- 1	3 (0.42%)		718
Middle Milk River	167 (50.3%)	106 (31.93%)	33 (9.94%)	i	26 (7.83%)		332

Middle Yellowstone River	384 (79.67%)	1	65 (13.49%)	1	26 (5.39%)		7 (1.45%)		482
Missouri River - Dearborn	571 (41.02%)	İ	625 (44.9%)	İ	195 (14.01%)	ĺ	1 (0.07%)	İ	1392
Missouri River - Judith	269 (73.9%)		72 (19.78%)		20 (5.49%)		3 (0.82%)		364
Missouri River - Poplar	48 (37.8%)		41 (32.28%)		18 (14.17%)		20 (15.75%)		127
Musselshell River	227 (75.67%)		47 (15.67%)		11 (3.67%)		14 (4.67%)		300
Powder River	11 (100%)								11
Red Rock River	77 (29.17%)		95 (35.98%)		14 (5.3%)		75 (28.41%)		264
Ruby River	169 (82.44%)		16 (7.8%)		3 (1.46%)		17 (8.29%)		205
Smith River	166 (31.56%)		234 (44.49%)		105 (19.96%)		21 (3.99%)		526
South Fork Flathead River	138 (50.18%)		90 (32.73%)		47 (17.09%)				275
Sun River	217 (69.55%)		56 (17.95%)		26 (8.33%)		11 (3.53%)		312
Swan River	95 (51.08%)		76 (40.86%)		7 (3.76%)				186
Teton River	57 (66.28%)		15 (17.44%)		6 (6.98%)		8 (9.3%)		86
Tongue River	91 (35%)		126 (48.46%)		25 (9.62%)		15 (5.77%)		260
Upper Clark Fork River	275 (85.4%)		37 (11.49%)		8 (2.48%)		2 (0.62%)		322
Upper Milk River	44 (28.03%)		76 (48.41%)		22 (14.01%)		15 (9.55%)		157
Upper Missouri River	951 (38.52%)		1205 (48.81%)		211 (8.55%)		84 (3.4%)		2469
Upper Yellowstone River	1769 (62.66%)		774 (27.42%)		244 (8.64%)		15 (0.53%)		2823

Table 17. Angler types of fishing by Region (days fished and percentages) for license survey year 2020

Region (Year)	Shore	Boat	Shore/ Boat	Ice	Ice /Shore	Total
1	1284 (34.95%)	1827 (49.73%)	294 (8%)	227 (6.18%)		3674
2	2915 (59.78%)	1387 (28.45%)	361 (7.4%)	190 (3.9%)	6 (0.12%)	4876
3	4458 (60.11%)	2024 (27.29%)	691 (9.32%)	201 (2.71%)	6 (0.08%)	7417
4	2312 (41.94%)	2403 (43.59%)	603 (10.94%)	172 (3.12%)		5513
5	1833 (61.41%)	751 (25.16%)	354 (11.86%)	28 (0.94%)		2985
6	468 (20.89%)	1292 (57.68%)	196 (8.75%)	276 (12.32%)		2240
7	350 (49.79%)	251 (35.7%)	70 (9.96%)	29 (4.13%)		703

Table 18. Angler types of fishing by residency within the state (percent is based on the total number of days which includes null responses)

Residency	Shore	Boat	Shore/ Boat	Ice	Ice /Shore	Total Days	
R	9342 (48.84%)	7155 (37.41%)	1905 (9.96%)	597 (3.12%)	11 (0.06%)	19,127	
N	4278 (51.66%)	2780 (33.57%)	664 (8.02%)	526 (6.35%)	1 (0.01%)	8281	

3.8 ANGLER SATISFACTION RATINGS

Licensed anglers fishing on Montana waters rated their fishing experience on a scale of 1 = poor to 5 = excellent for the 2020 license year. The average satisfaction rating overall for all trips on all waterbodies was 2.91 (Table 19). Region 3 had the highest overall satisfaction rating of 3.05 while Region 7 had the lowest satisfaction rating of 2.7. Satisfaction ratings for individual waters can be found in Appendix H of this report, while Appendix I shows crowding ratings by drainage for summer and winter months.

Table 19. Angler satisfaction ratings by region

Region	1-poor (count)	2 (count)	3 (count)	4 (count)	5-excellent (count)	Avg. Satisfaction Rating
1	455	277	441	288	220	2.73
2	395	359	665	463	317	2.98
3	583	547	928	760	567	3.05
4	552	325	517	385	328	2.82
5	271	222	340	262	182	2.89
6	133	106	185	127	98	2.92
7	68	42	85	41	29	2.7
Total	2457	1878	3161	2326	1741	2.91

Angler satisfaction ratings were also summarized by the 40 major drainages (Table 20). The average ratings ranged from a high of 4.3 for the St. Mary and Belly Rivers in Region 4, though only three ratings were reported. The South Fork of the Flathead River, Beaverhead River, Sun River, and Powder River followed with an average of 3.3. The lowest satisfaction ratings were for the Upper Milk River (2.1), and the Teton and Tongue Rivers (2.2).

Table 20. Fishing Satisfaction Rating by Region, Drainage and Residency for License Year 2020

REGION: 1							•										
Total	1	2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4	5
Avg.	(noot			(exc		Res						Nonres					
Flathead R	-)		(CAC	ciiciit)	Res	(poor)-			(CACC	ment)	Tionics	(poor)			(CAC	clicit)
								40.5							~ 0		
2.8	195	137	181	133	127	2.8	118	106	131	76	78	2.9	77	31	50	57	49
Kootenai F																	
2.6	81	51	80	38	32	2.6	63	32	55	26	24	2.7	18	19	25	12	8
Lower Cla	rk Fork	River															
2.5	94	47	91	48	18	2.5	62	37	70	29	11	2.5	32	10	21	19	7
NA																	
2.7	13	2	9	8	4	2.6	12	2	9	5	4	3.3	1			3	
South Forl	k Flathea	ad River															
3.3	14	13	27	29	19	3.0	10	12	17	17	9	3.6	4	1	10	12	10
Swan Rive	r																
2.4	34	9	20	13	7	2.4	20	8	14	5	6	2.4	14	1	6	8	1
REGION: 2																	
Total	1	2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4	5
Avg.	(poor	r)		(exc	ellent)	Res	(poor)-			(exce	ellent)	Nonres	(poor))		(exc	ellent)
Bitterroot	River												-				
3.0	87	100	160	126	85	2.9	57	68	96	72	33	3.3	30	32	64	54	52
Blackfoot 1		100	100	120	05	2.7	5,	00	,,,	, _	55	5.5	50	32	0.	٥.	32
2.8	126	101	208	107	76	2.8	89	70	152	79	47	2.9	37	31	56	28	29
Clark Forl				107	70	2.0	0)	70	132	12	.,	2.7	37	31	30	20	2)
3.2	81	81	157	130	100	3.1	43	54	114	75	56	3.2	38	27	43	55	44
Middle Cla			137	130	100	3.1	43	34	114	13	30	3.4	30	41	43	33	44
2.8			0.2	66	27	2.7	27	2.4	52	25	12	2.0	22	17	40	21	1.4
2.8 Upper Cla	59 rk Fork	51 River	93	66	27	2.7	37	34	53	35	13	3.0	22	17	40	31	14
			20	0.4	2.4	2.0	0.7		20	20	4.0	2.0	_	_	0		_
2.9	34	20	38	24	24	2.9	27	15	30	20	18	2.9	7	5	8	4	6

REGION: 3	3																
Total	1	2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4	5
Avg.	(poor	r)		(exc	ellent)	Res	(poor)			(exce	ellent)	Nonres	(poor)		(exc	cellent)
Beaverhea	d River																
3.3	19	21	44	38	32	3.1	10	12	23	20	8	3.5	9	9	21	18	24
Big Hole R	River																
2.9	75	75	139	79	52	2.9	44	52	86	51	31	2.9	31	23	53	28	21
Boulder R	iver																
3.0	8	4	9	6	7	2.9	7	3	8	5	5	3.3	1	1	1	1	2
Gallatin R	iver																
3.0	115	104	169	128	102	3.0	45	52	96	78	36	3.0	70	52	73	50	66
Jefferson l																	
2.7	35	18	25	23	15	2.7	27	11	20	16	11	2.7	8	7	5	7	4
Madison R																	
3.1	174	184	301	263	212	3.0	61	75	116	84	64	3.2	113	109	185	179	148
Red Rock																	
2.7	35	16	27	23	16	2.7	22	6	16	15	8	2.8	13	10	11	8	8
Ruby Rive																	
3.1	17	11	22	19	18	3.1	9	6	11	11	8	3.2	8	5	11	8	10
Upper Mis																	
2.8	21	13	23	23	8	2.7	20	11	21	16	6	3.5	1	2	2	7	2
Upper Yel	iowstone																
3.1	79	90	148	131	79	3.0	33	60	77	70	24	3.2	46	30	71	61	55

REGION: 4																	
Total	1	2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4	5
Avg.	`*	·)		(exc	ellent)	Res	(poor)-			(exce	ellent)	Nonres	(poor))		(exc	ellent)
Belt Creek																	
3.2	5	6	4	11	6	3.3	3	5	3	10	5	2.7	2	1	1	1	1
Marias Riv	ver																
2.7	29	23	31	20	13	2.6	27	21	28	18	10	3.2	2	2	3	2	3
Missouri R	Kiver - Do	earborn															
3.2	88	60	135	126	116	3.0	67	47	93	70	55	3.6	21	13	42	56	61
Missouri R																	
2.9	35	19	38	39	21	3.0	29	18	34	35	20	2.6	6	1	4	4	1
Musselshel																	
2.6 NA	27	10	22	15	8	2.6	24	9	22	11	8	2.6	3	1		4	
						4.0											
1.0 NA - St. M	1 forwand	Rolly Div	vorc			1.0	1										
	ary and	Delly Ki			2	<i>5</i> 0					1	4.0			1		1
4.3 Smith Rive	or.		1		2	5.0					1	4.0			1		1
2.9	38	29	42	33	26	2.8	25	20	32	19	17	2.0	13	9	10	14	0
Sun River	38	29	42	33	20	2.8	25	20	32	19	1 /	2.9	13	9	10	14	9
3.3	23	17	32	24	36	3.2	20	17	29	21	29	3.7	3		3	3	7
Teton Rive		17	32	24	30	5.2	20	1 /	2)	21	2)	3.7	3		3	3	,
2.2	18	7	6	2	5	2.2	14	7	6	1	4	2.2	4			1	1
Upper Mil		,	J	-	3	2.2	1.	,	J	1			•			1	•
2.0	2	1		1		2.5	1			1		1.5	1	1			
Upper Mis		ver															
2.5	278	152	204	108	89	2.4	246	137	176	95	62	2.9	32	15	28	13	27

REGION: 5 Total	1	2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4	5
Avg.	*)		(exc	ellent)	Res	(poor)			(exce	ellent)	Nonres	(poor))		(exc	ellent)
Bighorn Ri	iver																
3.1 Middle Ye l	48 llowstone	41 River	70	59	55	2.7	30	25	33	18	16	3.4	18	16	37	41	39
2.7 Musselshel	40 Il River	31	41	29	17	2.7	34	29	37	29	15	2.3	6	2	4		2
3.0 Upper Yell	12 lowstone	5 River	7	7	12	2.9	11	5	6	7	9	3.8	1		1		3
2.8	168	143	219	165	94	2.9	118	105	171	126	68	2.8	50	38	48	39	26
REGION: 6																	
Total	1	2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4	5
	Avg. (poor) Fort Peck Reservoir			(exc	ellent)	Res	(poor)			(exce	ellent)	Nonres	(poor))		(exc	ellent)
3.1 Lower Mil	70	62	110	93	73	3.1	51	43	78	69	46	3.2	19	19	32	24	27
2.7 Lower Mis	2 ssouri Riv	3 ver	4		2	2.9	1	3	4		2	1.0	1				
3.1 Middle Mi	4 lk River	2	7	3	4	3.1	4	2	5	3	4	3.0			2		
2.8 Missouri R	27 River - Ju	18 dith	36	24	12	2.7	25	15	35	22	8	3.3	2	3	1	2	4
3.5 Missouri R	River - Po	plar	3		1	3.7			2		1	3.0			1		
2.6	11	7	18	4	3	2.5	10	6	14	3	3	2.7	1	1	4	1	
Upper Mill	k River																
2.1	19	14	7	3	3	2.1	18	13	7	3	3	1.5	1	1			

REGION: 7																	
Total	1	2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4	5
Avg.	(poor)			(exc	ellent)	Res	(poor)			(exce	ellent)	Nonres	(poor))		(exc	ellent)
Fort Peck R	eservoir	•															
3.5			1	1		4.0				1		3.0			1		
Little Misso	uri Rive	r															
3.0	1	1	3	1	1	2.7	1	1	3	1		5.0					1
Lower Yello	wstone	River															
3.0	22	28	46	24	26	3.0	20	26	41	21	23	3.2	2	2	5	3	3
Powder Riv	er																
3.3	1		2	2	1	3.2	1		2	1	1	4.0				1	
Tongue Rive	er																
2.244	13	33	13	1	2.1	35	10	24	8	1	2.4	9	3	9	5		

3.9 ANGLER CROWDING RATINGS

Questions were included to ask the angler to rate the crowding from one (sparse) to five (crowded) and also to ascertain how many other recreationalists they encountered. The "Crowding Ratings" columns lists the number of responses under each rating (1-5) while the "Average Number of People Seen" columns list the average number of other people seen. The ratings were summarized for the seven Fish, Wildlife & Parks regions and are listed in Table 21. The ratings were also summarized by the 40 major drainages in the state and are listed in Table 22. The crowding ratings for individual waters can be found in Appendix H of this report, while Appendix I shows crowding ratings by drainage for summer and winter months.

The statewide average crowding rating was 2.03 for all trips on all waterbodies. When broken down by region, Region 4 had the highest crowding rating of 2.21. Region 1 had the lowest average crowding rating of 1.77. The weighted average number of people seen was 6.91 for all regions combined. The highest average number of other people seen was 10.29 in Region 6, while Region 2 had the lowest average number of people seen 6.22.

The Little Missouri River and Powder River drainages had the lowest crowding rating (1.0) while the Missouri River – Dearborn drainage had the highest average rating at 2.66 (Table 22). The Little Missouri River and Powder River drainages also had the lowest average number of people seen (0.71 and 0.83) while the Gallatin River had the highest (61.17), though this number is skewed by one angler response of seeing 10,000 other people during their trip. The next highest average number of people seen was the Missouri River – Dearborn drainage (27.55).

Table. 21 Angler crowding ratings by region

Region	1-sparse (count)	2 (count)	3 (count)	4 (count)	5-crowded (count)	Avg. Crowding Rating	Avg. People Seen
1	984	321	223	94	63	1.77	6.69
2	1063	479	333	175	151	2.03	6.22
3	1622	640	565	317	235	2.08	6.63
4	915	389	410	205	182	2.21	6.34
5	642	279	180	107	76	1.98	7.49
6	347	145	100	34	24	1.84	10.29
7	143	57	31	21	12	1.87	9.71
Total	5742	2311	1846	954	744	2.02	6.91

Table 22. Angler Crowding Ratings sorted by Region, Drainage and by Residency for the Entire License Year 2020

	ON: 1	,101 0100	vanig Kati	1155 50110	a of Reg	,ion, Dian	iugo ana c) reside	110 y 101 th	ic Entire	License	1 car 2020								
Total		2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4	5	_	People S	
Avg.	(spars	e)		(cro	wded)	Res	(sparse	e)		(cro	wded)	NonRes	(spars	se)		(cro	wded)	Total	Res	NRes
Flath	ead Riv	er																		
2.0	407	146	122	61	42	2.1	238	96	84	54	36	1.6	169	50	38	7	6	17.3	19.4	13.5
Koote	enai Riv	er																		
	202	44	23	6	7	1.5	144	30	15	5	5	1.5	58	14	8	1	2	9.5	8.4	12.2
Lowe	r Clark	Fork R	iver																	
	182	60	34	13	7	1.7	120	46	24	11	7	1.5	62	14	10	2		14.0	15.0	11.8
NA																				
1.6	23	9	2	1	1	1.6	21	7	2	1	1	1.5	2	2				5.0	4.9	6.3
South	i Fork F	lathead	River																	
1.9	52	20	22	4	3	2.0	31	12	15	3	3	1.7	21	8	7	1		10.4	12.3	7.1
	River																			
1.6	54	16	7	7	1	1.7	31	12	6	4	1	1.5	23	4	1	3		8.0	8.9	6.6
	ON: 2																			
Total		2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4	5		People S	
	` .	,		(cro	waea)	Res	(sparse	e)		(Cro	waea)	NonRes	(spars	se)		(cro	(waea)	Total	Res	NRes
	root Ri																			
	281	122	89	36	29	2.2	134	73	61	30	27	1.6	147	49	28	6	2	8.8	9.8	7.3
	foot Riv																			
	291	123	89	54	62	2.2	192	91	65	43	44	2.0	99	32	24	11	18	14.3	13.7	15.5
			lint / Roc													_				
	211 la Clark	140 - Earl D	105	49	46	2.4	114	84	67	41	37	1.9	97	56	38	8	9	15.7	18.0	12.3
		Fork R																		
	152	64	36	30	13	2.2	70	41	24	24	12	1.6	82	23	12	6	1	10.0	10.6	9.2
		Fork Ri								_				_						
1.4	107	21	8	3	1	1.4	83	16	8	2	1	1.3	24	5	1			3.6	2.9	6.3

REGION: 3 Total 1 Avg. (sparse	2 e)	3	4 (cro	5 wded)	Avg. Res	1 (sparse	2 e)	3	4 (cro	5 wded)	Avg. NonRes	1 (spar	2 (se)	3	4 (cro	5 wded)	Avg. Total	People S	Seen NRes
Beaverhead R			()	,		(» <u>F</u>	- /		()	,		(I	,		(1	,,			
2.2 73 Big Hole Rive	21 er	31	17	13	2.0	39	10	11	7	5	2.4	34	11	20	10	8	10.4	7.0	13.5
2.1 210 Boulder River	76 r	70	33	32	2.2	115	48	52	21	29	1.7	95	28	18	12	3	11.3	11.5	11.0
1.3 27 Gallatin Rive	5 r	2			1.3	22	4	2			1.2	5	1				2.0	1.7	3.3
2.0 308 Jefferson Riv	128 er	104	45	33	2.3	117	61	71	31	26	1.7	191	67	33	14	7	61.2	117.6	7.7
1.7 74 Madison Rive	19 er	14	5	4	1.9	47	15	14	5	4	1.1	27	4				7.7	9.4	3.2
2.4 437 Red Rock Riv	213 / er	227	143	109	2.6	123	65	91	61	55	2.2	314	148	136	82	54	18.0	21.3	16.2
1.6 77 Ruby River	25	7	6	3	1.8	40	15	4	6	3	1.3	37	10	3			10.5	12.9	7.3
1.5 59 Upper Misso u	19 ıri Rive	7 er	1	2	1.6	28	11	5	2		1.4	31	8	2	1		4.3	5.7	2.8
1.6 58 Upper Yellow	11 stone I	10 River	3	3	1.7	49	8	9	3	3	1.4	9	3	1			7.9	8.4	5.1
2.1 245	101	86	62	32	2.5	79	60	51	47	26	1.7	166	41	35	15	6	14.8	18.9	10.8
REGION: 4 Total 1 Avg. (sparse	2 e)	3	4 (cro	5 wded)	Avg. Res	1 (sparse	2 e)	3	4 (cro	5 wded)	Avg. NonRes	1 (spar	2 (se)	3	4 (cro	5 wded)	Avg. Total	People S Res	Seen NRes
Belt Creek																			
1.6 22 Marias River	5	1	3	1	1.6	19	3	1	2	1	1.8	3	2	1			3.0	2.8	4.2
1.7 73 Missouri Rive	21 e r - De a	16 arborn	3	5	1.7	64	20	14	3	5	1.4	9	1	2			16.5	17.3	9.4
2.7 147	99	133	76	69	2.8	82	58	97	44	51	2.5	65	41	36	32	18	27.5	22.5	36.3

Missouri Rive	er - Judi	ith																	
1.8 99 Musselshell R	19 River	15	11	9	1.8	86	18	14	10	9	1.4	13	1	1	1		9.4	9.6	7.5
1.7 55 NA - St. Mar	9 y and B e	14 elly River	3 's	2	1.7	48	9	13	3	2	1.3	7	1				9.3	10.0	3.1
1.3 2 Smith River	1				1.0	1					1.5	1	1				1.7	3.0	1.0
1.9 88 Sun River	31	29	10	10	2.0	59	17	20	8	9	1.8	29	14	9	2	1	15.4	16.5	13.1
1.7 79 Teton River	27	17	6	3	1.8	66	24	17	6	3	1.2	13	3				8.9	8.9	9.4
1.3 34 Upper Milk F	1 River	1		2	1.3	29	1	1		1	1.7	5	1				5.0	3.5	12.5
1.0 4 Upper Misso	uri Rive	r			1.0	2					1.0	2					8.3	4.0	10.5
2.4 291	172	184	93	81	2.5	234	148	163	86	78	1.9	57	24	21	7	3	27.0	28.3	18.4
REGION: 5																			
Total 1 Avg. (spars	2 e)	3	4 (cro	5 wded)	Avg. Res	1 (spars	2 se)	3	4 (crov	5 wded)	Avg. NonRes	1 (spars	2 se)	3	4 (cro	5 owded)	Avg. Total	People S Res	een NRes
Bighorn Rive	r																		
2.2 112 Middle Yello	70 wstone F	46 River	30	16	2.2	47	34	15	17	9	2.1	65	36	31	13	7	18.1	17.1	18.8
2.2 71 Musselshell R	31 River	29	13	14	2.2	62	29	27	12	14	1.6	9	2	2	1		10.8	11.2	6.3
1.5 31 Upper Yellow	6 v stone R	5 iver	1		1.5	27	6	4	1		1.4	4	1				7.9	6.3	20.2
1.9 425	167	96	63	44	2.0	284	133	84	52	41	1.5	141	34	12	11	3	10.6	11.0	9.6

REGION: 6																		
Total 1	2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4 5	_	People S	
Avg. (spars			(crow	vded)	Res	(spars	e)		(crov	vded)	NonRes	(spars	e)		(crowded) Total	Res	NRes
Fort Peck Re	servoir																	
1.9 210	98	60	21	18	1.9	141	70	45	16	15	1.7	69	28	15	5 3	27.4	27.7	26.7
Lower Milk l																		
1.3 8	3				1.3	7	3				1.0	1				2.9	2.6	6.0
Lower Misso																		
1.7 13	3	2	1	1	1.8	11	3	2	1	1	1.0	2				8.7	9.1	5.5
Middle Milk																		
1.8 66	19	25	7	2	1.8	61	19	19	6	2	2.3	5	6		1	10.7	8.4	30.3
Missouri Riv																		
3.0 1		1		1	2.7	1	1	1			4.0	1				21.5	18.7	30.0
Missouri Riv	_																	
1.7 23	14	5	1		1.7	18	12	5	1		1.3	5	2			10.9	11.8	6.2
Upper Milk l																		
1.8 26	7	8	4	1	1.9	24	7	8	4	1	1.0	2				10.2	10.4	6.0
REGION: 7																		
Total 1	2	3	4	5	Avg.	1	2	3	4	5	Avg.	1	2	3	4 5		People S	
Avg. (spars			(crow	vaea)	Res	(spars	e)		(crov	vaea)	NonRes	(spars	e)		(crowded) Total	Kes	NRes
Fort Peck Re																		
1.5 1					1.0	1					2.0	1				26.0	2.0	50.0
Little Missou	rı Kıver																	
1.0 7	4 10				1.0	6					1.0	1				0.7	0.8	0.0
Lower Yellov																		
1.8 85	29	17	10	4	1.8	74	27	15	10	4	1.4	11	2	2		9.0	8.9	9.9
Powder Rive	r																	
1.0 6					1.0	5					1.0	1				0.8	0.6	2.0
					1.0						1.0	1				0.0	0.0	
Tongue River	r 27	14	11	8	2.2	34	18	11	7	8	2.0	10	9	3	4	24.9	26.2	21.4

4.0 DISCUSSION AND ANALYSIS

4.1 SCOPE OF ANGLING PRESSURE

The statewide angling pressure survey was conducted from March 2020 through February 2021. Estimates of pressure by residents and nonresidents were for licensed anglers only. This would encompass anglers 12 years of age and older. Spence (1971) found that the unlicensed angler (ages 2-14) comprised 9% of the pressure on Rock Creek near Missoula. Peterson (1970) found that the unlicensed anglers accounted for 21% and 19% of the total number of anglers on Big Spring Creek near Lewistown during 1968 and 1969 respectively. On the Bighorn River near Hardin, Stevenson (1975) found that the unlicensed angler accounted for 14.2% and 15.8% of the total number of anglers during 1972 and 1973 respectively. Fredenberg (1984) found that 10% of the anglers on Bighorn Lake and 13% of the anglers on the Yellowtail Afterbay were unlicensed. It appears that the unlicensed angler makes up between 9% and 21% of the fishing pressure depending on the type of water being fished.

Some angling pressure was obtained on Indian reservations and National Parks within Montana. This pressure was incidental to other fishing trips and only included those anglers that had purchased a Montana fishing license. Since national parks and reservations require different licensing, a complete pressure estimate of waters within those regions was not obtained.

4.2 ACCURACY

4.2.1 SAMPLE

Samples were drawn and questionnaires sent to the selected anglers as soon as possible. This was usually 1-2 days after the wave being sampled had ended (see discussion under Methods for details). The use of ALS allows for samples to be drawn right after the month has ended which minimizes inaccurate responses resulting from memory loss over time, or recall bias.

4.3 RETURN RATES

Return rates (# of respondents / [# of surveys sent – nondeliverables] * 100) were calculated for every wave by residency (Table 2). The overall return rate was 31.4%. The weighted average total return rates for residents and nonresidents were 32.8% and 30.4% respectively. These are the lowest rates since the surveys first began in 1983, and reflect a consistent downward trend over that time period (Figure 19). Low return rates reduce the number of trips reported for individual waterbodies, and increase the associated error surrounding the pressure estimate. Even more problematic is the possibility that the lower return rates are causing or a result of a non-response bias, in which license holders with certain common traits are disproportionately choosing to not participate in the survey. If these non-respondents are more or less likely to be fishing than are the respondents, then it may be affecting the accuracy of the pressure estimates. Section 3.0

demonstrated the average age of survey respondents was 53 years old, compared to the average age of the licenced angler population of 44 years old. Thus, anglers ages 51 and up are disproportionately responding to the mail survey, while anglers 50 and under are less likely to respond. For example, Figure 1 shows that 26% of survey respondents were between the ages of 61 to 70, yet just 15% of licenced anglers are in that age demographic.

Due to the trend of lower response rates among all respondents, especially among the younger demographic for the angler pressure mail survey, it may be worth looking into alternative survey modes. A recent study by Pew Research (2022) reveals 93% of the US uses the internet, compared to 80% just 10 years ago. When broken down by age, 96% to 99% of the US ages 18-64 use the internet, while 75% of those 65+ are online (Pew Research 2022). A recent study by Seil et al. (2021) compared response rates of web-based versus mail-in surveys, and found respondents were 7 times more likely to complete the web-based survey, compared to mail-in. Another study found comparable research findings across survey modes (online versus paper-and-pencil surveys), meaning the survey mode did not affect how people responded to the questions (Rübsamen et al. 2017). Thus, a mixed-method approach combining both email/web-based and mail-in surveys may best target all age groups and decrease non-response bias in future surveys (Seil 2021; Kelfve et al. 2020; Rübsamen et al. 2017).

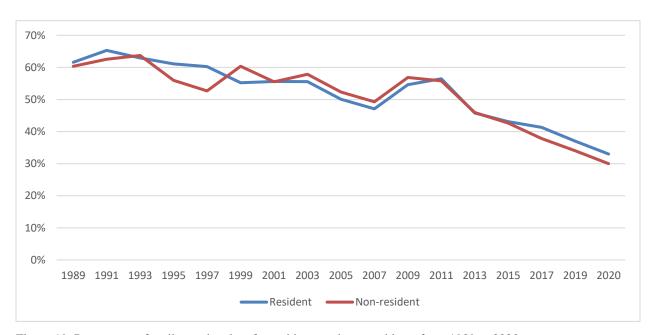


Figure 19. Return rate of mail questionaires for residents and non-residents from 1989 to 2020.

4.4 NUMBER OF LICENSED ANGLERS VS PRESSURE

The number of licensed resident anglers showed steady increases from 1967 to 1985 (Figure 20, Table 23). Since 1985 when there were 236,455 licensed anglers, the number has generally remained within 10%, reaching a low of 216,412 in 1989. In 2020, there was a 13.8% increase in resident anglers compared to 2019, reaching an all-time high of 273,077 unique resident licenses. This increase is likely attributed to Montana residents desire to get outdoors during the Covid pandemic. Nonresident licensed angler numbers showed strong growth between 1965 and peak numbers in 2002 (Figure 21), increasing from 51,798 to 220,946 during the period. Nonresident license sales then dropped markedly from 2002 through 2011, when 126,617 unique anglers purchased licenses, but has rebounded and increased to 195,941 in 2020, just a 2.7% increase over 2019 licenses.

Comparing statewide angling use from the mail survey versus number of licensed anglers shows general agreement between the two variables, at least in terms of long-term trends. The relationship between angler use and number of anglers has remained consistent for resident anglers (Figure 20). The trend for non-resident anglers is much different. The number of licensed non-resident anglers peaked in 2002 and then declined to a 21-year low in 2011. Since then, the number of licensed non-resident anglers increased almost every year reaching 195,941 in 2020. Non-resident angling pressure however, has increased by almost 113% since 2007 (Figure 21) and indicates a trend toward non-residents spending more days fishing in Montana.

Table 23 Number of licensed	anglers from 198	2 through 2020	by residency.
-----------------------------	------------------	----------------	---------------

Year	of licensed anglers from 1982 through 20 Resident Anglers	Nonresident Anglers
1982	216,689	119,293
1983	217,483	116,875
1984	232,485	102,843
1985	236,455	106,304
1986	235,403	100,456
1987	233,111	103,936
1988 1989	219,299	108,471
1989	216,412 217,370	114,254 119,611
1991	221,723	138,243
1992	222,186	134,212
1993	226,992	151,192
1994	233,630	164,841
1995	227,849	153,887
1996	227,282	150,881
1997	222,442	151,244
1998	222,329	162,067
1999	228,419	162,572
2000	219,282	152,158
2001	216,858	164,470
2002	222,510	220,946
2003	227,562	200,647
2004	223,560	200,562
2005	233,295	185,689
2006	224,526	159,846
2007	228,415	163,088
2008	240,030	155,858
2009	248,945	159,032
2010	238,942	154,184
2011	228,589	126,617
2012	241,519	157,763
2013	254,473	170,415
2014	258,846	178,290
2015	267,846	189,916
2016	254,016	192,364
2017	244,012	184,495
2018	233,597	185,045
2019	240,062	190,764
2020	273,077	195,941

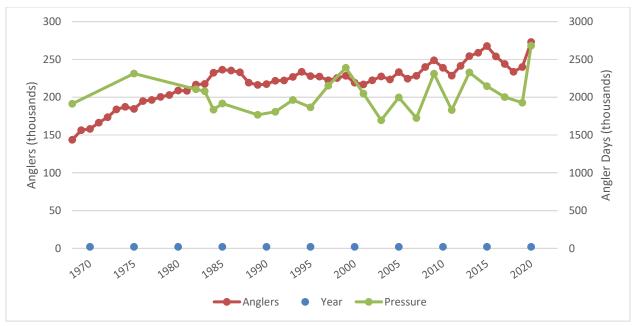
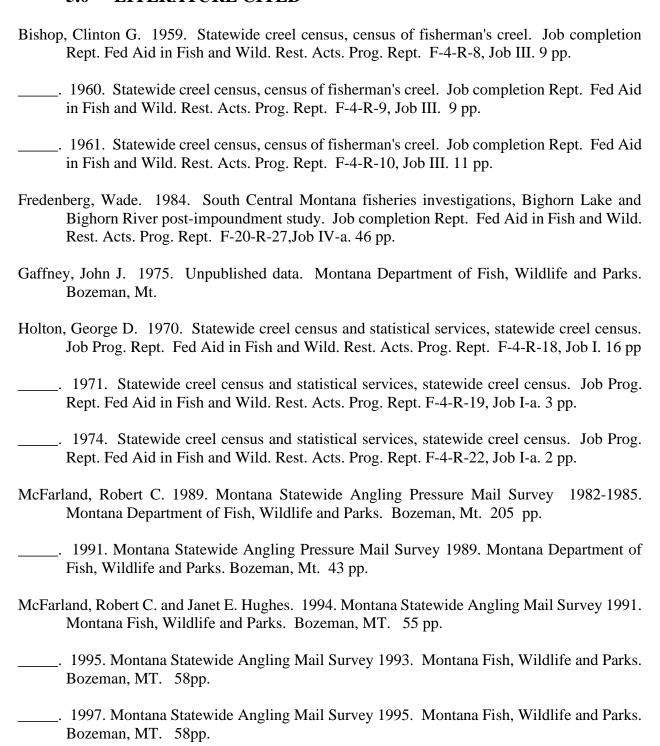


Figure 20. Angling pressure versus number of anglers for residents from 1968 to 2020



Figure 21. Angling pressure versus number of anglers for non-residents from 1970 to 2020

5.0 LITERATURE CITED

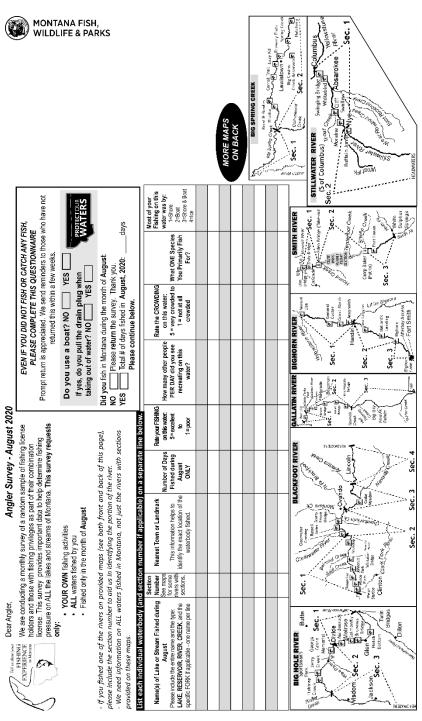


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6.0 EXAMPLES OF QUESTIONNAIRES

The August 2020 questionnaire is an example of an initial mail form, while the February 2021 questionnaire is an example of a re-mail form. The map page is printed on the back side of each survey.





Dear Angler, FISHING EXPERIENCE in Montana

Angler Survey - FEBRUARY 2021

We recently mailed you a request for your FEBRUARY fishing in

Montana. If you returned the survey and our mail crossed paths, please
disregard this second request. If you have not mailed in your survey,
please complete his questionnaire and return it in the provided envelope.
We appreciate your time!

Inis survey requests only:

YOUR OWN fishing activities

ALL waters fished by you

Prompt return is appreciated. We send reminders to those who have not

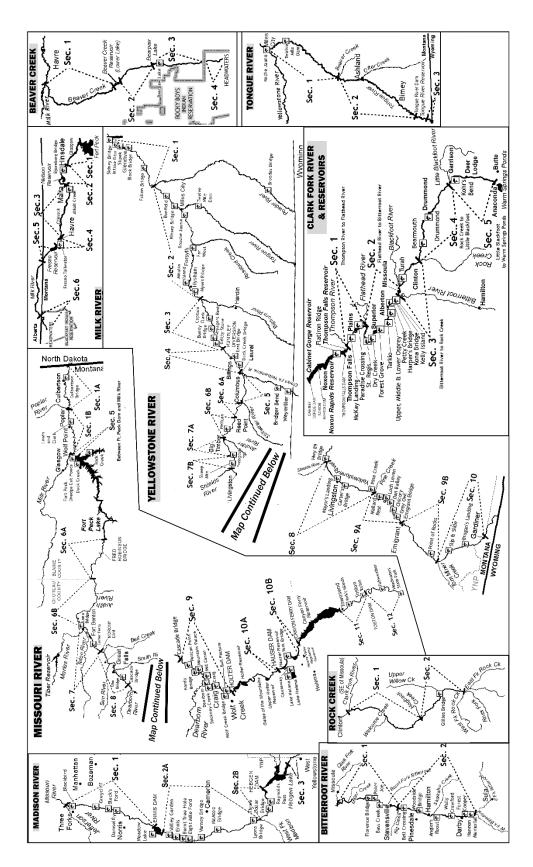
returned this within a few weeks.

Do you use a boat? NO _____ YES ____ If yes, do you pull the drain plug when taking out of water? NO ______ YES _____

EVEN IF YOU DID NOT FISH OR CATCH ANY FISH, PLEASE COMPLETE THIS QUESTIONNAIRE

- · Fished only in the month of FEBRUARY
- If you fished one of the rivers on provided maps (see both front and back of this page), please include the section number to aid us in identifying the portion of the river.
 We need information on ALL waters fished in Montana, not just the rivers with sections

l, Ri	(S				MORE MAPS	ON BACK	BIG SPRING CREEK	Red & Bowles By Soning Copy, Husse Carroll Trail Lazy KE Lazy KE Lazy KE Lazy KE Lazy KE	I Punistown	Sec. 1 Commong Comes Reservoir Hatchery	Swinging Bridge Columbus (5 of Columbus) (10 of Columbus) (10 of Columbus)	Buffalo Jumpen Nye	a Concessor	CALIVARITES
i	oveb	a de		Most of your Fishing on this water was by: 1=Shore 2=Boat 3=Shore & Boat 4=Ice						SMITH RIVER	Sec. 1	Sec. 2	Shalo Cynelk Fort Logan	White Salphur Springs
- CETODIIADV	or FEDROART. ank you. RIJARY 2021			What ONE Species You Primarily Fish For?						SMITH R	2	HOUND SECTION TEXAS	Camp Baker Shu (Put-in)	Sec. 3'
denotes ode odini lo	The montains outling the month of FEBROAN Please return the survey. Thank you. Total # of days fished in FEBRIARY 2021.	Please continue below.		Rate the CROWDING on this water: 5 = very crowded to 1 = not at all crowded						Manuel Sanuel		fr fs	on Little	sighorn
enctuck at des uses bio	NO Please return the survey. Thank you.			How many other people PER DAY did you see recreating on this water?						GALLATIN RIVER BIGHORN RIVER	fort Accorder *Belgrade	Sec. 2 Sec. 1	Sec. 3 Sec. 2.	Sec. 3
			line below.	Rate your FISHING on this water: 5 = excellent to 1 = poor						_	(100 a 8 0	MACAULA MACAUL	Big Sky	
front and back of this page).	f the river. e rivers with sa		plicable) on a separate line below.	Number of Days Fished during FEBRUARY ONLY						BLACKFOOT RIVER	Mary at A	ndo Lincoln	No.	Sec. 4
mans (see both front an	identifying the portion of in Montana, not just th		n number if applicable)	Nearest Town or Landmark This information helps to identify the exact location of the waterbody fished.						Genwater	Manual Ma	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Als Whiteser Anna Bridge Cock Bridge Anna Bridge Cock	Sec. 2 Sec. 3
n provided	to aid us ir iters fished		and sectio	Section Section See maps for some rivers with sections.						Sec. 1		Weeken T	Weigh Flats	
- If von fished one of the rivers on provided mans (see both	please include the section number to aid us in identifying the portion of the river. - We need information on ALL waters fished in Montana, not just the rivers with sections	provided on these maps.	List each individual waterbody (and section number if ap	Name(s) of Lake or Stream Fished during Number FEBRUARY Please include the entire rame and the type: ILAKE, RESERVOIR, RIVER, CREEK, and the specific FORK if applicable - one name per line						BIG HOLE RIVER Sportsman's Butte	Creek Gr	Misdom (Samonty Wisdom)	Jackson Glen Finger	BINDOS



7.0 BOUNDARIES OF WATERS BROKEN INTO SECTIONS

STREAM NAME	WATI	ER CODE	DOWNSTREAM POINT	UPSTREAM POINT
BEAVER CREEK	SEC 01 1	5-0280	MOUTH	BEAVER CREEK RES.
		5-0320	BEAVER CREEK RES	BEAR PAW LAKE
		5-0340	BEAR PAW LAKE	ROCKY BOY INDIAN R
	SEC 04 1	5-0360	ROCKY BOY INDIAN RES	HEADWATERS
BIG HOLE R.	SEC 01 02	2-0425	MOUTH	DIVIDE CREEK
	SEC 02 02	2-0450	DIVIDE CREEK	PINTLAR CREEK
	SEC 03 02	2-0475	PINTLAR CREEK	HEADWATERS
BIG SPRING CR.	SEC 01 16	5-0301	JUDITH RIVER (MOUTH)	COTTONWOOD CREEK
	SEC 02 16	5-0310	COTTONWOOD CREEK	HEADWATERS
BIGHORN RIVER	SEC 01 22	2-0490	MOUTH	LITTLE BIGHORN RIVER
	SEC 02 22	2-0495	L.BIGHORN R	BIG HORN FAS (ACCESS CR)
	SEC 03 2	22-0496	BIG HORN FAS (ACCESS CR)	AFTERBAY
BITTERROOT R.	SEC 01 03	3-0475	MOUTH	BIG CREEK
	SEC 02 0	3-0500	BIG CREEK	HEADWATERS
BLACKFOOT R.	SEC 01 04	1-0600	MOUTH	CLEARWATER RIVER
	SEC 02 04	1-0630	CLEARWATER RIVER	N FK BLACKFOOT RIVER
	SEC 03 04	1-0645	N FK BLACKFOOT RIVER	ARRASTRA CREEK
	SEC 04 04	1-0660	ARRASTRA CREEK	HEADWATERS
BOULDER RIVER	SEC 01 2	2-0742	MOUTH	BOULDER FALLS (NAT BRDG)
	SEC 02 2	2-0756	BOULDER FALLS (NAT BRDG)	BRIDGE CREEK
	SEC 03 2	22-0770	BRIDGE CREEK	HEADWATERS
CLARK FORK R.	SEC 01 05	5-1440	THOMPSON RIVER	FLATHEAD RIVER
	SEC 02 05			BITTERROOT RIVER
	SEC 03 06			ROCK CREEK
	SEC 04 06			LITTLE BLACKFOOT R
	SEC 05 06-	-1140	LITTLE BLACKFOOT R	HEADWATERS
CLARKS FK YEL				
	SEC 01 22		MOUTH	BRIDGER
	SEC 02 22		BRIDGER	WYOMING BORDER
	SEC 03 22	2-1190	WYOMING BORDER	HEADWATERS
CROW CREEK	SEC 01 07	7-1000	MOUTH	LOWER CROW RESERVOIR
	SEC 02 07	-1020	LOWER CROW RESERVOIR	HEADWATERS
CUT BANK CREE	K SEC 01 1	14-1080	MOUTH	CUT BANK
	SEC 02 1	4-1120	CUT BANK	GLACIER PARK
FLATHEAD RIVE	R SEC 01	07-1540	MOUTH	FLATHEAD LAKE
		07-1560	FLATHEAD LAKE	S FK FLATHEAD R
GALLATIN RIVE	R SEC 01 (09-2090	MOUTH	E GALLATIN RIVER
		09-6878	E GALLATIN RIVER	SPANISH CREEK
	SEC 03 (09-6916	SPANISH CREEK	HEADWATERS

STREAM NAM	E W	ATER CODE	DOWNSTREAM POINT	UPSTREAM POINT
HYALITE CREE	EK SEC 01	09-2546	MOUTH	HYALITE RESERVOIR
	SEC 02	2 09-6802	HYALITE RESERVOIR	HYALITE LAKE
	g=	1 5 1000	N. COLUMNY	DI VII CODEDII
JUDITH RIVER		16-1800	MOUTH	PLUM CREEK
	SEC 02	16-1820	PLUM CREEK	HEADWATERS
LITTLE BIGHO	RN RIVER	}		
	SEC 01	22-3654	MOUTH	LODGE GRASS CREEK
	SEC 02	22-3668	LODGE GRASS CREEK	HEADWATERS
LITTLE BLACK	FOOT R			
EITTEE BEITEI	SEC 01	06-3772	MOUTH	ELLISTON
	SEC 02	06-3591	ELLISTON	HEADWATERS
MADISON RIVE				
	SEC 01	13-3400	MOUTH	ENNIS DAM
	SEC 2A		ENNIS LAKE	LYONS BRIDGE
	SEC 2B SEC 03	13-3440	LYONS BRIDGE HEBGEN LAKE	HEBGEN DAM YELLOWSTONE PARK
	SEC 03	15-5520	HEBUEN LAKE	TELLOWSTONE PARK
MARIAS RIVER	2			
	SEC 01	14-3240	MOUTH	TIBER DAM
	SEC 02	14-3280	LAKE ELWELL	CUT BANK CREEK
MILK RIVER	SEC 01	15-2680	MOUTH	HINSDALE
	SEC 02	15-2720	HINSDALE	MALTA
	SEC 03	15-2760	MALTA	HAVRE
	SEC 04	15-2800	HAVRE	FRESNO DAM
	SEC 05	15-2840	FRESNO RESERVOIR	CANADA
	SEC 06	15-2880	CANADA	MIDDLE & SOUTH FORKS
MISSOURI RIV	ER			
		16-2420	N DAKOTA BORDER	POPLAR RIVER
	SEC 01B	16-2421	POPLAR RIVER	MILK RIVER
	SEC 05	16-2500	MILK RIVER	FORT PECK DAM
		16-2521	FT PECK RES	BLAIN/CHOUT CO LINE
		16-2522	BLAIN/CHOUT CO LINE	MARIAS RIVER
		17-4864	MARIAS RIVER	MORONY DAM
	SEC 08	17-4880	MORONY DAM	CASCADE BRIDGE
	SEC 09	17-4896	CASCADE BRIDGE	HOLTER DAM
		17-4913	HOLTER LAKE	HAUSER DAM
	SEC 10B	17-4914	HAUSER LAKE	CANYON FERRY DAM
	SEC 11 SEC 12	17-4928 17-4944	CANYON FERRY RES TOSTON DAM	TOSTON DAM HEADWATERS
	SEC 12	1/-4944	TOSTON DAM	HEADWATERS
MUSSELSHELL	RIVER			
	SEC 01	18-4320	MOUTH	RT 3 BRIDGE NEAR LAVINA
	SEC 02	18-4350	RT 3 BRIDGE NEAR LAVINA	HEADWATERS
POPLAR RIVER	SEC 01	16-2820	MOUTH	E FK POPLAR RIVER
	SEC 02	16-2375	E FK POPLAR RIVER	CANADA
PRYOR CREEK		22-4802	MOUTH	PRYOR
	SEC 02	22-4816	PRYOR	HEADWATERS

STREAM NAM	E W	ATER CODE	DOWNSTREAM POINT	UPSTREAM POINT
RED ROCK RIV	ÆR			
	SEC 01	01-6140	MOUTH	LIMA DAM
	SEC 02	01-6160	LIMA RESERVOIR	UPPER RED ROCK LK
ROCK CREEK	SEC 01	06-5263	MOUTH	HOGBACK CREEK
	SEC 02	06-5282	HOGBACK CREEK	HEADWATERS
ROCK CREEK	SEC 01	22-4928	MOUTH	W FK (CHROME CAMP)
	SEC 02	22-4956	W FK (CHROME CAMP)	HEADWATERS
RUBY RIVER	SEC 01	01-6360	MOUTH	RUBY RESERVOIR
	SEC 02	01-6380	RUBY RESERVOIR	HEADWATERS
SHIELDS RIVE	R			
	SEC 01	22-5334	MOUTH	CLYDE PARK
	SEC 02	22-5348	CLYDE PARK	WILSALL
	SEC 03	22-5362	WILSALL	HEADWATERS
SMITH RIVER	SEC 01	17-6816	MOUTH	HOUND CREEK
	SEC 02	17-6832	HOUND CREEK	CAMP BAKER
	SEC 03	17-6833	CAMP BAKER	HEADWATERS
STILLWATER I	R SEC 01	22-6104	MOUTH	WEST FORK (NYE)
	SEC 02	22-6118	WEST FORK (NYE)	HEADWATERS
SUN RIVER	SEC 01	20-6050	MOUTH	MUDDY CREEK
	SEC 02	20-6100	MUDDY CREEK	GIBSON DAM
SWAN RIVER	SEC 01	07-4560	MOUTH	SWAN LAKE
	SEC 02	07-4580	SWAN LAKE	HEADWATERS
TETON RIVER	SEC 01	14-6000	MOUTH	CHOTEAU
	SEC 02	14-6040	CHOTEAU	HEADWATERS
THOMPSON RI	VER			
	SEC 01	05-7248	MOUTH	BEND RANGER STATION
	SEC 02	05-7264	BEND RANGER STATION	HEADWATERS
TONGUE RIVE	R			
	SEC 01	21-1150	MOUTH	BEAVER CREEK
	SEC 02	21-1200	BEAVER CREEK	TONGUE RIVER DAM
	SEC 03	21-1250	TONGUE RIVER RES	WYOMING BORDER
W FK STILLWA				
	SEC 01	22-6664	MOUTH	IRON CREEK
	SEC 02	22-6678	IRON CREEK	HEADWATERS
YAAK RIVER				
	SEC 01	11-7740	MOUTH	FALLS

STREAM NAME	WATER CODE	DOWNSTREAM POINT	UPSTREAM POINT
YELLOWSTONE RIVE	3		
SEC 01	21-1350	N DAKOTA BORDER	POWDER RIVER
SEC 02	21-1400	POWDER RIVER	BIGHORN RIVER
SEC 03	3 22-7001	BIGHORN RIVER	HUNTLEY DIVERSION
SEC 04	22-7015	HUNTLEY DIVERSION	CLARKS FORK RIVER
SEC 05	5 22-7028	CLARKS FORK RIVER	STILLWATER RIVER
SEC 06	6A 22-7043	STILLWATER RIVER	REED POINT BRIDGE
SEC 06	6B 22-7044	REED POINT BRIDGE	BOULDER RIVER
SEC 07	'A 22-7057	BOULDER RIVER	SPRINGDALE
SEC 07	B 22-7058	SPRINGDALE	SHIELDS RIVER
SEC 08	3 22-7071	SHIELDS RIVER	PINE CREEK
SEC 09	PA 22-7072	PINE CREEK	EMIGRANT BRIDGE
SEC 09	PB 22-7073	EMIGRANT BRIDGE	TOM MINER CREEK
SEC 10	22-7084	TOM MINER CREEK	GARDINER