# Fishing Guide Logbook Progress Report 2023

### Washington Department of Fish and Wildlife



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### Introduction

The fishing guide industry plays an important role in Washington's recreational fisheries, recruiting new anglers into sportfishing and increasing access for existing anglers. The industry supports jobs at guide businesses, bait and tackle shops and supports tourism, providing economic contributions to rural communities across Washington. Washington's fishing guides are used by anglers from across the globe. They provide training on fishing techniques and etiquette, supply clients with equipment so they can access Washington's world class fisheries. Fishing guides play a critical role in Recruitment, Retention, and Reactivation (R3) efforts (Washington Hunting and Angling Recruitment, Retention and Reactivation (R3) Plan, 2022).

Fishing guides operating in Washington State must hold a business license, a commercial food fish, game fish or combination guide's license and must be insured to operate in Washington State in accordance with RCW 77.65.560. <sup>1</sup> There is no limit to the number of fishing guide licenses the department can issue annually and the number of fishing guides licensed to operate in Washington State varies year to year based on fish abundance and fishing seasons. The department issues between five hundred and six hundred fishing guide licenses annually.



Figure 1: Guide license trends 2016 - 2023

Some in the guiding, fishing, and conservation community have expressed concerns that concentrated guiding activities in certain fisheries have increased pressure on salmon and steelhead stocks and limited opportunities for non-guided anglers. In response to these concerns, the Washington Department of Fish and Wildlife (WDFW) held several public

<sup>&</sup>lt;sup>1</sup> Guiding services discussed in this report refer only to trips to freshwater fisheries by guides with one of these three licenses. These trips are distinct from saltwater charter trips, though some guides also own charter licenses and provide saltwater fishing opportunities.



meetings with the guide industry in 2018 before proposing to collect trip data from guides to better understand industry trends and demographics. In 2018 the Washington State Legislature provided authority to require logbooks for fishing guides and in 2019 the Washington Fish and Wildlife Commission passed a rule requiring guides to submit trip reports, effective January 1, 2020. Data gathered from logbooks provides the agency important information on the demographics of guides and their customers, the geographic and seasonal distribution of guide activity, and their contributions to local economies and recruitment.

This annual progress report provides an update on implementation of the logbook program, including enforcement of the revised rule and an analysis of the data collected through the guide logbooks. We focus first on guide demographics and the distribution of guided trips across the state. Next, we examine trends and demographics among guide customers to answer questions about who takes guided trips, including where they come from, how often they use guide services, and their previous experiences with Washington recreational fisheries. We end with next steps for the logbook program and other data gathering efforts related to Washington's guide industry.

### **Implementation** Updates

#### Participation in guide logbook reporting

In 2023 the Fish and Wildlife Commission revised the logbook reporting rule to help enhance enforcement and compliance. Changes were adopted February of 2023 and went into effect April 1 of 2023. Specific changes to the WAC included:

- Requiring certain trip information (date, location and guide license #) to be entered at the start of fishing day;
- Removing the reference to vessel and boat launch to clarify that this reporting requirement applies to all fishing guides including shore fishing;
- Removing the web reporting option that is underutilized, and simplifying down to two reporting tools mobile and paper; and
- Increasing the paper logbook return time to twice monthly vs once monthly to increase enforcement capacity to follow through on contacts made.

The fish program and enforcement division worked together on education materials for guides, letters went out to guides prior to April and also worked on a plan to conduct emphasis patrols in various popular guide fisheries. While the logbook reporting rule revisions went into effect part way through the license year, these revisions seem to have had a positive effect on compliance rates. The percent of licensed guides reporting trips in 2023 was fifty five percent.

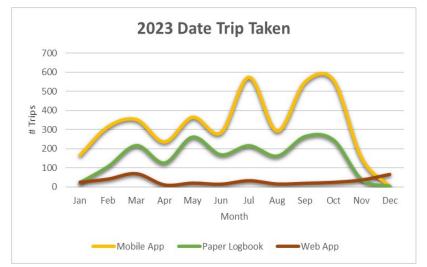
Between 2021 and 2022 there was a five percent increase in reporting and between 2022 and 2023 there was an eight percent increase in logbook reporting (Table 1).



Year	2020	2021	2022	2023
Unique guides reporting	215	206	227	256
Total licensed guides	472	502	493	470
Compliance rate	46%	41%	46%	55%

 Table 1. Logbook compliance, 2020-2023.

### **Data Analysis**



#### Seasonality - When are guided fishing trips more common?

In 2023, the highest volume of reports submitted were in the months of June, July and September (Figure 2). A total of 6,113 reports were submitted in 2023 with 63% submitted via mobile application and 30% submitted via paper logbook and 7% through the web app (Figure 3).

Figure 2: Trips reported by season and reporting tool

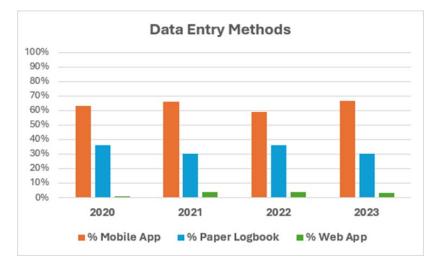


Figure 3: Percentage of trips reported by reporting tool since 2020.

## Geographic distribution – Which fisheries are most utilized by fishing guides?

We looked at trends in reporting across geographic areas, Columbia River, North Coast, Willapa Bay, Grays Harbor, Puget Sound, Eastside Lakes and Westside Lakes. Regions shown in the maps below (Figure 4).

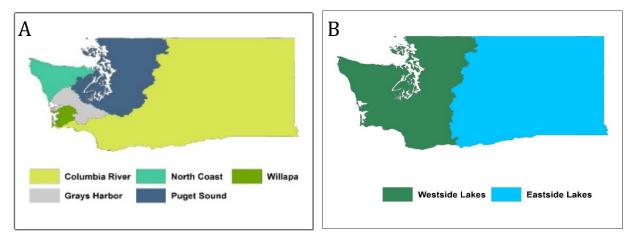


Figure 4: Reporting areas by Rivers, Streams and Lakes

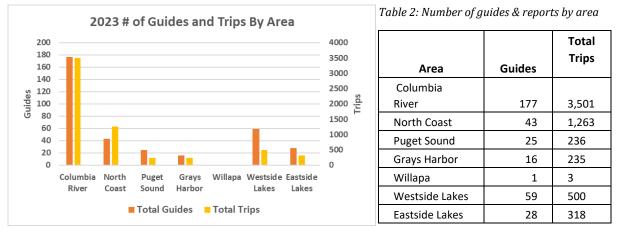


Figure 5: Number of guides and trips reporting by fishing area.

The majority of guided fishing trips in 2023 occurred in the Columbia River Basin, with 3,501 trips reported by 177 guides. The second highest volume region was the North Coast with 1,263 trips reported by 43 guides (see Figure 5 and Table 2).

Within these regions with high guide activity, the waterbodies with the highest volumes of guides were the Cowlitz, Hoh and Sol Duc Rivers along with sections of the Columbia River (the Hanford Reach and above Wells Dam). While the Lower Columbia River, popularly known as Buoy 10, is a popular guide fishery, these trips are not reported because Washington food fish, and combination guides cannot guide clientele below the Longview Bridge. Guided trips to the Buoy 10 fishery must be led by a guide licensed in Oregon or a



Washington licensed charter boat. Below is a list of the top waterbodies utilized by guides according to guide logbook reports from 2023 (Table 3).

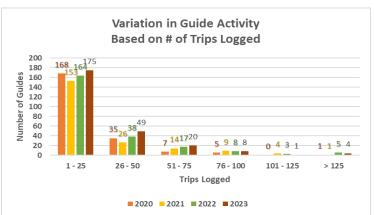
Waterbody	Trips	Days with Guiding Activity	Avg # of Trips / Days Fished	Highest # of Trips in a Day	Date of Highest # of Trips	Most Frequently Encountered Species	Encounters
Cowlitz River	569	203	2.8	9	3/12/2023	Steelhead	1,646
Hoh River	488	155	3.1	9	2/18/2023	Steelhead	773
Sol Duc River	464	154	3	12	2/9/2023	Steelhead	1,095
Columbia River - 545	437	52	8.4	21	7/15/2023	Sockeye	4,912
Columbia River - 536	396	54	7.3	17	10/6/2023	Chinook	1,365
Drano Lake	365	89	4.1	18	5/6/2023	Chinook	1,372
Yakima	343	189	1.8	9	5/24/2023	Rainbow Trout	3,749
Snake River	312	180	1.7	5	6/21/2023	Walleye	2,534
Bogachiel	209	97	2.2	6	1/26/2023	Steelhead	305
Columbia River - 523	182	80	2.3	6	9/10/2023	Chinook	509

**Table 3.** Guiding activity on ten most frequently guided waterbodies, 2023.

#### Demographics - What do we know about who guides?

In 2023 there were 470 licensed fishing guides operating in Washington State (Figure 1). Ninety percent of licensed fishing guides are residents of Washington State, while 10 percent are non-residents primarily from neighboring or nearby states including Oregon, Idaho and Montana.

Fishing guides in Washington rely on a variety of business models. Some license holders guide full time, moving their operations to different fisheries across the state throughout the year. Others guide in multiple states with trips in Washington making up just a portion of their business portfolio. A third group of license holders are part-time guides and work another full-time job. Based on logbook trip report data



*Figure 6: Guide activity based on the number of trips logged* 

submitted in 2023, the majority of guides are part-time and take between 1-25 trips per year. In 2023, 175 guides logged between 1-25 trips, 49 guides reported between 26-50 trips and only five guides logged over 100 trips (Figure 6).

Guide businesses operate throughout the state and many guides travel great distances to participate in fisheries. Table 4 shows where guides travel from to participate in our most



popular guided fisheries. For Olympic Peninsula waterbodies (Table 4 A), 30 percent of trips were led by guides with residences outside the region. For Southwest Washington (Table 4B) 65 percent of trips were led by guides with residences outside the region. For the Hanford Reach of the Columbia (Table 4C) 48 percent of trips were led by guides with residences outside the region.

**Table 4.** Guided trips by county of residence, 2023.

В

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Olympic Peninsula						
Guide County of Residence	Trips	State				
*Clallam	791	WA				
Thurston	78	WA				
King	66	WA				
OUT-OF- STATE	61	мт				
Kittitas	53	WA				
Kitsap	40	WA				
Whatcom	25	WA				
Pierce	21	WA				

SW Washington							
Guide County of Residence	Trips	State					
*Lewis	210	WA					
Pierce	191	WA					
*Clark	133	WA					
Clallam	102	WA					
Thurston	86	WA					
Yakima	78	WA					
*Cowlitz	69	WA					
OUT-OF- STATE	40	OR					
Asotin	39	WA					
King	39	WA					
Franklin	36	WA					
Grays Harbor	30	WA					
Spokane	29	WA					
OUT-OF- STATE	28	ID					
Kitsap	24	WA					
Benton	13	WA					
Snohomish	13	WA					
Douglas	3	WA					
Adams	2	WA					
Pacific	1	WA					

Hanford Reach - Columbia R						
Guide County of Residence	Trips	State				
*Benton	125	WA				
Spokane	64	WA				
Douglas	53	WA				
OUT-OF-STATE	36	ID				
*Grant	35	WA				
*Franklin	32	WA				
*Adams	27	WA				
Chelan	20	WA				
Clallam	17	WA				
OUT-OF-STATE	10	OR				
Walla Walla	2	WA				

С



In recent years, there has been increasing interest in the prevalence of guides taking multiple trips in a day. With that in mind, we calculated the typical trip length and the occurrence of multiple trip days. From 2020 – 2023 multiple trip days made up only three percent of the overall trips logged (Figure 7A). The average number of clients taken out per guided fishing trip is between two and three, and, based on trip reports, most guides are running just one trip per day. The average trip is seven hours in length (Figure 7B).



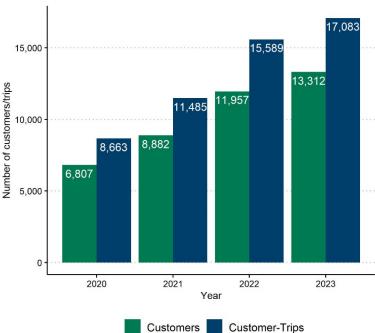
Figure 7. Percent of trips (A) by muli-trip days and (B) by hours fished.



#### Demographics - What do we know about guided customers?

One of the required fields for fishing guides to enter on their logbook is their customers WILD ID, a uniquely identifiable number attached to any customer who has purchased a Washington fishing or hunting license product. In 2023, WDFW began linking customer WILD IDs reported in guide logbooks with demographic information and product purchase histories stored in the WDFW licensing system to better understand who patronizes Washington guide businesses.

WILD IDs are not available for every trip reported in the logbook database, and not every WILD ID recorded could be matched to a WILD ID in the licensing database. Note that there are several reasons customers may not provide WILD IDs. Youth (14-



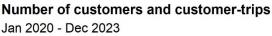


Figure 8. Guide customers and customer-trips, by year.

years-old and younger) are not required to purchase fishing licenses and therefore are not always reported with unique WILD IDs. Customers can purchase one-day guide stamps which are also not tied to unique WILD IDs. Finally, anglers with Oregon or Idaho fishing licenses can fish on border waters with Washington licensed guides (i.e., Columbia and Snake rivers). None of these three groups have unique WILD IDs or associated information in the licensing database and therefore the reported data do not include trips or customers from these groups.

Improved matching methods in this year's report resulted in an upward revision of the number of uniquely identified customers and associated customer trips. The results presented in this report supersede results presented in the Fishing Guide Logbook Progress Report published in 2023 (Publication No. FPA 23-04).

Fishing guides reported serving 11 percent more licensed customers in 2023 than 2022, taking an average 1.3 trips per customer (Figure 8). Between January 2020 and December 2023, we were able to identify 26,050 unique licensed guided customers. These customers

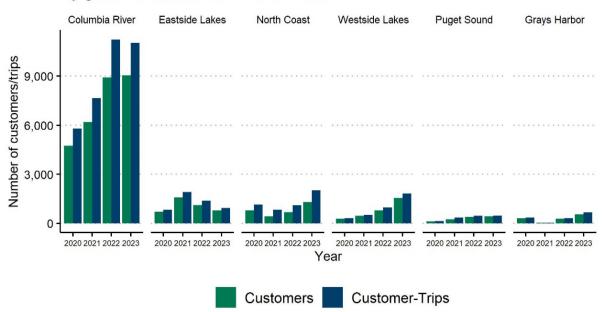


took a total of 39,855 customer-trips<sup>2</sup> and fished for a total of 273,863 hours. During the four years the logbook program has been in effect, 76 percent of customers took only a single guided trip, 15 percent took two trips, and 9 percent took three or more trips, for an average of 1.4 trips per customer.

Ninety-two percent of customers patronized a single guide, though among customers who took more than one trip 32 percent patronized two or more guides suggesting healthy competition in the guide market.

The Columbia River was the most popular place to book guided fishing trips based on logbook data (Figure 9). Among licensed guide customers in all four years the Columbia River had the most customer trips logged by a wide margin, followed by Eastside Lakes, North Coast, and Westside Lakes guide regions. Westside Lakes and North Coast guide regions showed strong growth in 2023, with both regions nearly doubling the number of recorded customers. Trips to the Eastside Lakes guide region declined, while guide activity in the Columbia River guide region remained steady.

Figure 9. Guide customers and customer-trips, by year and guide area.



#### Number of customers and customer-trips

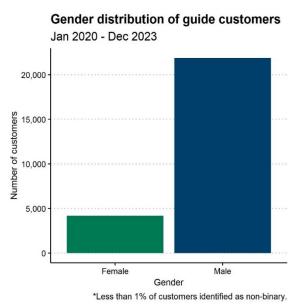
By guide area, Jan 2020 - Dec 2023

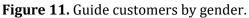
<sup>&</sup>lt;sup>2</sup> A customer trip is a unit measuring the number of customers times the number of trips. That is, a trip with three customers would count as three customer-trips.

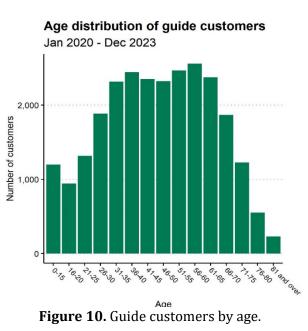


#### Age and gender -

Guides served customers of all ages; the youngest customer observed was a one-year-old and the oldest was 98 (Figure 10). The mean customer age was 46 years old, and 50 percent of customers were between the ages of 33 and 60. Additionally, 84 percent of guide customers were male (Figure 11). During the time period covered in this report (January 2020 and December of 2023), the average fishing license holder was 43-years-old and 73 percent of license holders were male.







#### **Customer origin**

The logbook data shows a variety of home locations for guide customers, with 75 percent of customers residing in Washington, and 25 percent traveling from other states or countries (Figure 12). King County was the county of origin best represented among guide customers (19 percent of customers), followed by Spokane (11 percent), Pierce (10 percent), Snohomish (8 percent) and Benton (8 percent) Counties. Beyond Washington, Idaho was the state of origin best represented (7 percent) followed by Oregon (5 percent) and California (3 percent) (Figure 14). Ninety-nine customers had foreign home addresses, though these customers are more likely to use stamps and therefore are likely underrepresented in the data. Washington guides had customers from every state except for West Virginia. (See Appendix 4 for breakdowns of customer origins by guide area.)



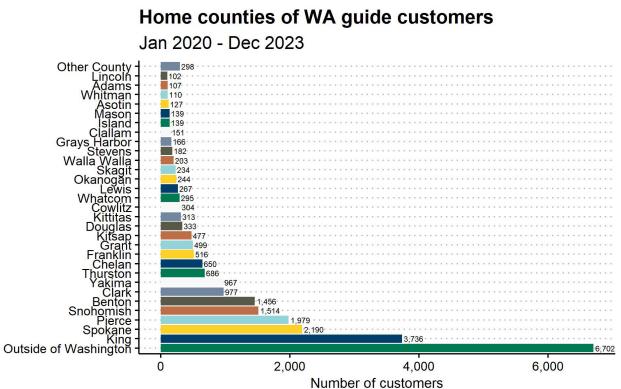


Figure 12. Guide customers by county of residence.

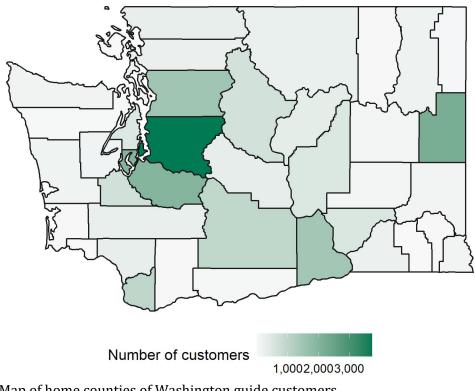


Figure 13. Map of home counties of Washington guide customers.

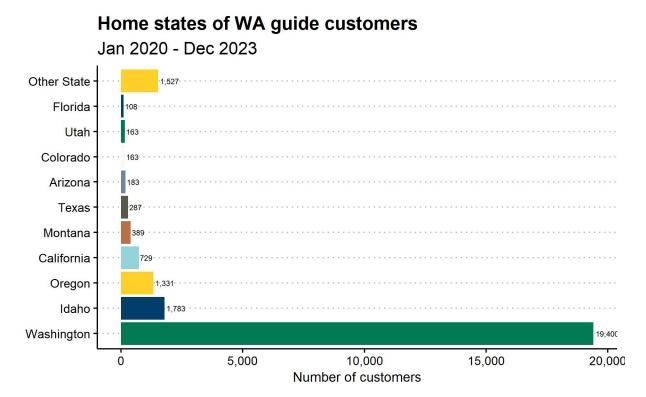


Figure 14. Guide customers by home state.

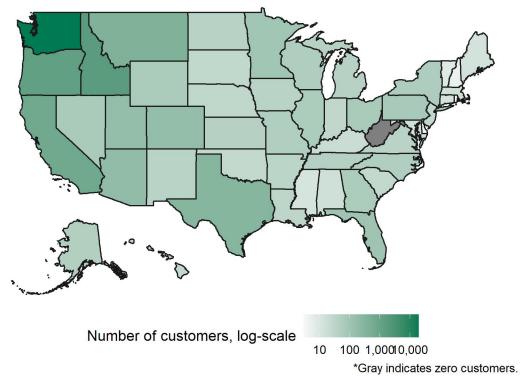


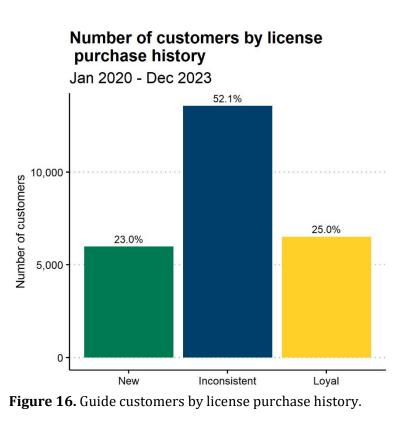
Figure 15. Map of home states of Washington guide customers.



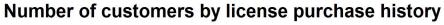
#### **License Purchase Patterns**

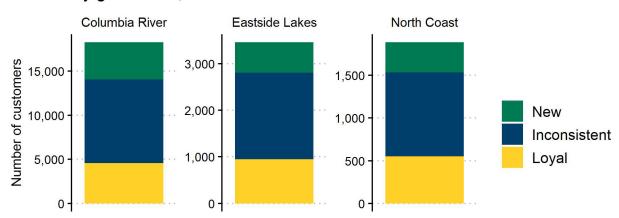
To study the contribution of guided fishing opportunities to the recruitment of new anglers, we pulled records of past fishing license purchasing patterns for each customer between 2012 and 2023. We assigned customers to one of three groups:

- New anglers customers who only have a single license purchase.
- Inconsistent anglers customers who have purchased licenses in multiple years but not all years.
- Loyal anglers customers who have purchased licenses in all years.



Twenty-three percent of customers were new anglers, 52 percent were inconsistent anglers, and 25 percent were loyal anglers (Figure 16). The Columbia River served proportionally more new customers relative to other parts of the state while customers in





By guide area, Jan 2020 - Dec 2023

Figure 17. Guide customers by license purchase history and guide area.

the North Coast were more likely to be loyal customers, i.e., those who buy a fishing license every year (Figure 17). These shares are roughly consistent with statewide patterns across all license holders (25 percent new, 50 percent inconsistent, 25 percent loyal)

Guides play an important role in R3 by providing an entry point for new anglers into the sport. Among the 1,467 new angler guide customers in 2020, 38 percent purchased a fishing license in 2021 suggesting retention of recruited anglers. For Washington new angler guide customers in 2020, the retention rate was 50 percent. Retention was weaker in 2021. Among 1,692 new angler guide customers in 2021, only 20 percent purchased a fishing license in 2022 (27 percent among Washington customers).

#### What are people fishing for on guided fishing tours?

Guides and their customers targeted a variety of species across the state. Selected encounters data is presented by guide area and species (Table 5).

Total Total Total						
Cuido Aroa	Spacias Cought			Released		
Guide Area	Species Caught	Encounters	Retained			
	Rainbow Trout	9396	75	9321		
Columbia River	Sockeye	7778	7771	7		
Columbia River	Chinook	3968	3449	519		
	Walleye	3809	3330	479		
	Smallmouth Bass	3250	826	2424		
	Coho	782	614	168		
Grays Harbor	Chinook	19	15	4		
Grays Harbor	Steelhead	3	3	0		
	Chum	3	0	3		
	Steelhead	813	35	778		
	Coho	411	169	242		
North Coast	Chinook	204	130	74		
	Coastal Cutthroat	177	0	177		
	Dolly/Bull Trout	98	0	98		
	Dolly/Bull Trout	197	0	197		
	Coho	169	152	17		
Puget Sound	Chinook	128	106	22		
	Coastal Cutthroat	38	0	38		
	Steelhead	32	6	26		
	Chinook	759	724	35		
	Kokanee	427	408	19		
Westside Lakes	Smallmouth Bass	346	0	346		
	Rainbow Trout	33	27	6		
	Sockeye	26	26	0		
	Kokanee	2889	2889	0		
	Walleye	2724	2616	108		
Eastside Lakes	Lake Trout	1020	1017	3		
	Rainbow Trout	481	390	91		
	White Sturgeon	310	25	285		

Table 5. Encounters by top 5 species and guide area.



### **Next Steps**

Recent revisions to the logbook reporting rule will allow us to enforce the logbook reporting rule more effectively. These changes, along with focused education with guides to encourage migration to the mobile reporting platform is anticipated to support an increase in compliance in the coming year.

Further, the WDFW team is working with our Fishing Guide Advisory Committee to develop a survey of Washington guides. The objective of the survey is to gather additional information we aren't getting through the logbook program but which is necessary for assessing industry trends and economic contributions including; rates charged to customers, outside employment, lengths of guiding seasons, and participation in guiding in other states.





### Appendix 1: WAC 220-352-245

#### WAC 220-352-245

During the summer of 2019, the Fish & Wildlife Commission adopted rules requiring guides to fill out logbooks to record data on their fishing activity. The rule went into effect Jan. 1, 2020. See WAC language below:

#### Reporting required of licensed food fish, game fish and combination fishing guides.

(1) Licensed food fish, game fish and combination fishing guides shall maintain a daily logbook of guiding activity to include:

(a) Guide name and license No. for the guide leading the trip;

(b) Date that fishing took place. For multiday trips, each day is considered a separate trip;

(c) Specific name of river, stream, or lake fished;

(d) Site code of site fished as referenced within a list provided to each guide. If multiple sites are fished on the same day, each site is considered a separate trip;

(e) Client, "comped angler" and crew current fishing license number (wild ID No.) for each person on board if required to have a license or catch record card. A comped angler is an angler that fishes without charge;

(f) Indicate if person was a crew member or if angler was "comped";

(g) Species kept or released. For salmon and steelhead specify origin (hatchery, wild) and life stage (adult, jack).

(2) Logbooks are required to be completed for each trip before offloading any fish from the vessel or if no fish were kept, complete the logbook before leaving the site.

(3) Report of daily guiding activity shall be made using the department's paper logbook or online reporting application. Logbook pages must be provided to the department or postmarked within ten days following any calendar month in which the guiding activity took place.

(4) Each day of fishing that occurs on a designated WDFW licensed guide fish vessel will be required to be recorded in the logbook. This includes any personal use or nonguided fishing trips that occur.

(5) Information collected under this section may be exempt from public disclosure to the extent provided under RCW 42.56.430.



(6) Failure to report any guiding activity listed in subsections (1) through (4) of this section is an infraction, punishable under RCW 77.15.160.

(7) A fishing guide, or person under the control or direction of a fishing guide, that submits false information is guilty of a gross misdemeanor, punishable under RCW 77.15.270.



### Appendix 2: Guide Advisory Committee

### 2022 – 2024 Fishing Guide Advisory Group Member Roster

Name	Affiliation	Email
Jeff Brazda	Brazda's Guide Service	jeff@brazdasflyfishing.com
Ryan Bullock	Ryan's Guide Service	ryanjb13@gmail.com
Doug Saint-Denis	365 Charters	gofish@365charters.com
Patric Gaffney	Gaffney's Guide Service	pgaffney253@gmail.com
Caleb Hitzfeld	CH Fly Fishing	caleb@chflyfishing.com
Steve Joyce	Red's Fly Shop	steve@redsflyshop.com
Robert Kratzer	Anglers Guide Service	Anglersguideservice@gmail.com
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Roy Morris	Able Guide Service	able@olypen.com
Jan Patricio	Retired guide	jgp.private@gmail.com
Keith Robbins	A Spot Tail Fishing Guide	flymooch@aol.com
Toby Wyatt	Reel Time Fishing	twyatt1973@gmail.com
Levi Zoller	Zoller's Outfitting	zollerlevi@gmail.com



### 2022 – 2024 Fishing Guide Advisory Group Member Roster

Name	Guide Business	Email
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Steve Joyce	Reds Fly Shop	steve@redsflyshop.com
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Cary Hofmann	CNH Guide Service	cnhguideservice@gmail.com
Ravae O'Leary	Angler's Obsession	info@AnglersObsession.com
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Lael Johnson	FLY GYDE, LLC	business@flygyde.com



## **Appendix 3: Reporting Tools**

#### Paper Logbook

The paper logbook was printed into booklets of 30 carbon copied blank trip logs in a hard card waterproof binding. Along with the blank trip logs, the logbook includes reporting and return instructions. The sample below shows what a trip log looks like.

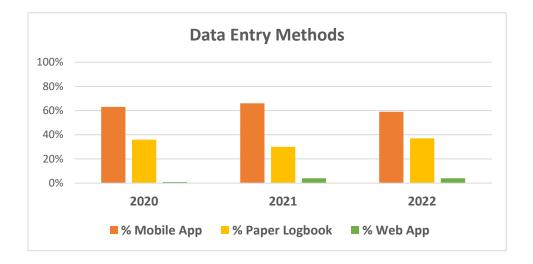
Washington Department of Fish & Wild				SAMPLE	•			##	#####
GUIDE LOGBO	ОК			FOR WDFW RECORD	S ONLY)	DATE RI	ECIEVED:		
TRIP DATE: Month / Day / Year	CHINC	ООК		СОН	0		STEELH	EAD	
GUIDE LICENSE #: License #		RETAINED	RELEASED		RETAINED	RELEASED		RETAINED	RELEASED
TRIP TYPE: GUIDED / NON-GUIDED	ADULT / HATCHERY	1	#	ADULT / HATCHERY	#	3	ADULT / HATCHERY	2	#
WATER FISHED & COUNTY:	JACK HATCHERY	1	#	JACK /HATCHERY	5	1		#	2
Washougal Hatchery on	ADULT / VILD	#	1	ADULT / WILD	#	#	ADULT / WILD	#	#
Washougal River		#	#			# רער		# FON	2
SITE CODE: 663		RETAINED	RELEASED			RELEASED		RETAINED	RELEASED
HOURS FISHED:	HATCHERY	1	#	HATCHERY	#	1	HATCHERY	1	#
CUSTOMER WILD ID <u>OR</u> GUIDE STAMP #:	WILD	#	#	WILD	#	#	WILD	#	1
ID#	WALL	EYE		LARGEMOU	TH BA	<b>SS</b>	SMALLMOU	JTH B	ASS
	RELEASED / R	ETAINED	2	RELEASED / R	ETAINED	#	RELEASED / F	RETAINED	
ANGLERS WILD ID #: PAID? <u>Angler Wild ID #</u> Y N			S	PECIES NOT LIS	STED /	ABOV	Έ		
Angler Wild ID #	SPECIES: Add if ap	plicable	9	SPECIES: Add if ap	plicable	8	SPECIES: Add if ap	plicabl	e
Angler Wild ID #	<u> </u>	ETAINED		RELEASED / R	ETAINED	#1	RELEASED / F	ETAINED	#
<u>Angler Wild ID #</u> YN <u>Angler Wild ID #</u> YN	CERTIFICATION: I certify t this form is true. Falsification punishable under RCW 77.1	n or omission	n of inform	ation is		•	PRINTED NAME: Your	Name	



#### **Mobile Reporting Application for Android and iPhones**

The mobile application includes the basic trip log function as well as a main page which lists draft reports. The mobile app allows guides to log trip data as they go and if they don't have service, it allows them to save data and sync reports when they get back into service range. The screen shots below show what the mobile WDFW Guide Logbook application looks like.

5:21	🕈 🗔	5:25	🕈 🗖	5:25		🕈 🕞
	DFW Guide Logbook	Back Add N Logbook # 1	lew Trip 610501062949 6	回 日 日 日 日 日 日 日	Harvest and Er	ncounter
	Trip Logs	Guide License Numb	ber	Species		
	SUBMITTED	01072020		Coho		
Abe Creek	Guided	Trip Date		Status		
2021-5-1	1 Angler(s) Retained: 0, Released: 3	2021-01-13		Rel	eased	Retained
	SUBMITTED	Trip Type		Life Stag	;e	
Albright Lake		Guided	Non-guided	A	dult	Jack
2021-1-7	Non-guided 1 Angler(s)	Anglers		Origin		
	Retained: 0, Released: 0	Water Fished		Hat	tchery	Wild
	SUBMITTED	Columbia River		Count		
2021-1-7	Non-guided	Site Code				1 - +
	1 Angler(s) Retained: 0, Released: 0	534			VE	
	SUBMITTED	Harvest and Encoun	ters			
Abe Creek	Nor	Hours Fished		DEL	ETE	+
2021-02-0	2 Non-guided Anology(s) Retained: 0, Color (s)		5 - +			
	Retained. 0, real 10	SAVE	REVIEW			
		SAVE	REVIEW			





### Appendix 4: Additional Figures by Guide Area

