

What you need to know about Mercury, PCBs, and other contaminants when fishing in Montana.

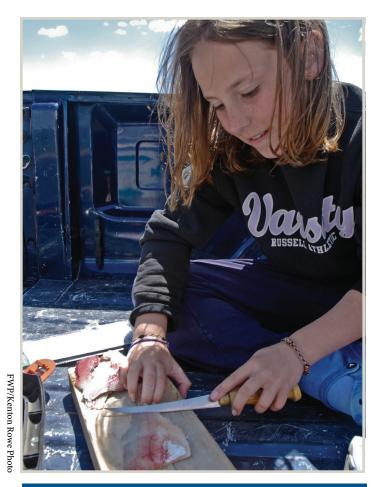
This guide provides information about how to enjoy healthy meals from wild fish caught in Montana. It provides specific scientific data about the water bodies which have been tested, plus more general information for areas that have not yet been tested.







- For information on collection and laboratory testing of fish from Montana waters, call MT Fish, Wildlife and Parks at 406-444-2449.
- For information on the health risks of eating fish, call MT Health & Human Services 406-444-2837 or email: HHSFCS@mt.gov.
- This on-line version of the brochure will be updated as new data is gathered: fwp.mt.gov/fishing



What Are Sport Fish Consumption Guidelines?

These guidelines provide recommendations on the amount and type of sport fish to eat. They also tell you how to prepare your catch to minimize health risks, and what precautions should be taken by high-risk individuals.

On the other side of this brochure is a detailed chart listing all waters in Montana that have been tested for the presence of certain environmental contaminants. It gives recommendations for eating fish caught in those waters.

Although these guidelines are not regulatory standards, by using them you'll help ensure that the fish you catch can be a safe part of your diet.

These guidelines are generally designed to protect pregnant women, women of childbearing age, children, and anglers who regularly consume larger quantities of fish caught in Montana waters over long periods of time.

What Are the Health <u>Benefits</u> of Eating Fish?

When properly prepared, fish provide a diet high in protein and low in saturated fats. Many researchers suggest that eating a half-pound of fish each week helps to prevent heart disease.

Almost any kind of fish can have real health benefits if eaten as an alternative to high-fat protein in your diet. You can get the health benefits of fish and reduce unwanted contaminants by following the guidelines in this pamphlet.

What Are the Health <u>Risks</u> of Eating Contaminated Fish?

PCBs & METHYL MERCURY build up in the body tissue over time. It may take months or years of regularly eating contaminated fish to accumulate levels that could become a health concern.

METHYL MERCURY — Our bodies can safely metabolize small amounts of consumed methyl mercury, but larger amounts may cause damage to the nervous system. It most severely affects developing fetuses in pregnant women. It is recommended that women of childbearing age avoid those species of fish and seafood known to contain high concentrations of mercury.

PCBs — Dietary exposure to PCBs has been linked to infant development problems in children whose mothers were exposed to PCBs before becoming pregnant. The consumption advice for PCBs is intended to protect children from developmental problems and damage to their immune systems. In addition, PCBs are known to cause cancer in laboratory animals and may cause cancer in humans.

What Contaminants Are Found in Montana's Wild Fish?

MERCURY is a widespread and naturally occurring element that concentrates in many soils and rocks. Mercury may also enter Montana waters via household refuse, batteries, mining and industrial wastes, and from burning fossil fuels. Once in a lake, mercury is converted to methyl mercury by bacteria and other processes. Fish absorb methyl mercury into their tissues from their food and from water. There is no method of cooking or cleaning fish that will reduce the amount of mercury in a meal.

POLYCHLORINATED BIPHENYLS (PCBs) are a group of man-made chemicals once used as lubricants, coolants, and in ink and paint additives. The manufacture of PCBs in the United States was banned in 1977, yet trace levels of PCBs remain in the environment. Everyone is exposed to some PCBs, as they are found everywhere. Fish absorb PCBs from water, sediments, and food. PCBs concentrate in the fat of fish, and other animals. Cleaning and cooking fish to remove fat will lower the amount of PCBs in a fish meal.

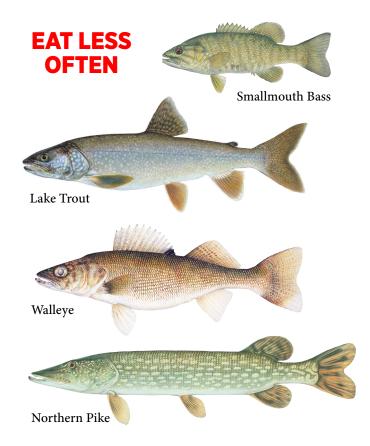
CADMIUM is released into the environment from mining operations and is used in the manufacturing of paints, alloys, batteries, and plastics. Cadmium is a known carcinogen that has been shown to cause renal dysfunction and a degenerative bone disease.

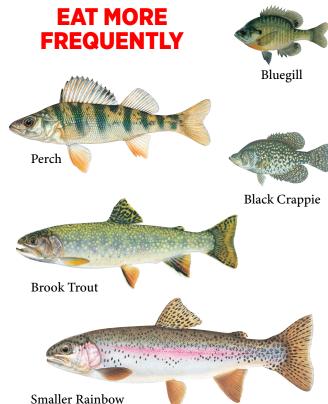
ARSENIC is a naturally occurring element that has increased in the environment due to industrial emissions from coal burning facilities and as a byproduct of mining operations. Only the inorganic fraction of arsenic found in fish tissues is considered toxic to humans, but it can still accumulate to levels of concern.

SELENIUM is an essential micro-nutrient for humans, but becomes toxic at slightly higher concentrations. Selenium is found in all fish species, but is not considered a carcinogen.

DIOXINS are a group of synthetic organic chemicals that contain 210 structurally related individual polychlorinated dibenzopdioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs). Dioxins are primarily produced as byproducts of chlorine bleaching in pulp and paper mills, industrial waste incineration, combustion of fossil fuels and wood, and as contaminants in the manufacture of certain organic chemicals. Dioxins are also natural products of forest fires and other natural processes.

OTHER metals, pesticides, and organic compounds are present in Montana's fish, but are less common, or a health concern has not been established at this time.





Meal Advice for Individuals at Increased Risk

Children age six and younger, nursing mothers, and women who are pregnant, or might become pregnant, are at greatest risk of adverse health effects, and should be more conservative in their fish-eating habits.

These guidelines apply to fish species in waterbodies where contaminant data has not yet been collected and is not listed on the next pages of this pamphlet.

ONE MEAL **ONE MEAL TWO MEALS** AVOID **PER MONTH PER WEEK PER WEEK** Walleye over 22" Walleye less than 22" Northern Pike over 28" Northern Pike 20-28" Northern Pike less than 20" Lake Trout less than 15" Lake Trout over 28" Lake Trout 20-28" Lake Trout 15-20" Bass over 15" Bass 13-15" Bass 11-13" Bass less than 11" Brown Trout over 20 " Brown Trout 15-20" Brown Trout less than 15" Yellow Perch 10-14" Yellow Perch less than 10" Whitefish less than 18" Whitefish over 18" Rainbow Trout less than 18" Rainbow Trout over 18" Cutthroat Trout, Kokanee, Brook Trout, Sunfish, **Arctic Grayling**

Reduce Your Health Risk

1. KEEP SMALLER FISH FOR EATING.

Contamination increases as fish get larger and older. Predatory fish, such as lake trout, walleye, smallmouth bass and northern pike often accumulate more contaminants because they eat other fish. Smaller panfish such as bluegill, crappies, brook trout, yellow perch and smaller rainbow trout usually have low levels of contamination.

2. CLEAN AND COOK YOUR FISH PROPERLY.

Certain contaminants build up in a fish's fat deposits and just underneath the skin.

3. TO REDUCE CONTAMINANT LEVELS:

- Fillet the fish & remove the skin.
- Cut away the fat from back, side & belly.
- Bake or broil the trimmed fish on a rack, or grill it, so the remaining fat drips away.

4. SERVING SIZE MATTERS.

Adult serving size is 8 oz. uncooked or 6 oz. cooked. It is about the size and thickness of your hand (large oval in photo below). A child's serving is 4 oz. or 3 oz. cooked (small oval, or about the size of an adult's palm).

Montana Fish, Wildlife & Parks has analyzed fish for contaminants from many of Montana's lakes and streams. The chart on the following pages will help you plan how many fish meals you can safely eat per month, based on fish size and measured concentrations of contaminants found in the fish.

These guidelines are based on an 8-ounce serving (weight before cooking) for a 176-pound man, and a 3-ounce serving for women of childbearing age or for children age six and younger.

How to use the chart on the following pages:

- 1. Find the lake or river in which the fish was caught (listed in alphabetical order).
- 2. Determine the species & length of the fish.
- 3. If your fishing location or species isn't listed here, follow the "Reduce Your Health Risk" guidelines on page 4.

- ALL = Everyone
- M = Men & Women (not childbearing age)
- **WC** = Women (childbearing age) & Children
- = Fish are safe to eat
- 1 = Number of safe meals per month
- = Fish should be avoided
- = Fish have not been analyzed PCBs = Polychlorinated biphenyls
- D/F = Dioxins/Furans
- As = Arsenic
- Hg = Mercury
- Se = Selenium
- Cd = Cadmium

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These charts will help you plan meals, with advice for individuals at increased risk

Children age six and younger, nursing mothers, and women who are pregnant, or might become pregnant, are at greatest risk of adverse health effects, and should be more conservative in the fish-eating habits.

Cooking tips plus general guidelines for waterbodies not yet tested for contaminants can be found on page 4.

					=	nouth in	inaha	٠,١		
Location	Species F	Person	6-10	10-14	14-18	18-22	inche: 22-26	26-30	30+	Contaminant
	w trout	М		~~~	<₩					Hg
		wc		8	6					Hg
Alder Gulch Rainbo	w trout	М	4	7						Hg
Vigilante Pond at Virginia City		wc	2	3						Hq
<u> </u>	w trout	M	<u>~</u>							Hg
, isoto tinginia ony	-	wc	7							Hg
Bair Reservoir Rainbo	w trout	M	•	6						Hg
East of White Sulphur Springs	w trout	wc		3						Hg
	w trout	M	***							Hg
Dasiii Creek Near Dasiii	w trout	wc	12							Hg
Basin Creek Reservoir Cutthro	eat trout	M	11	7	6					As
Cultility Creek Reservoir	Lat IIOUI	wc	5	3	3					As
D. H. O I. N D. H	tt		5		3					
Belt Creek Near Belt Brown		ALL		₹	4					Hg
Between Neihart & Monarch Brown	trout	M	4	4	4					As/Hg
		WC	2	2	2					As/Hg
Rainbo	w trout	М			}					Hg
		WC			8					Hg
Upstream of Neihart Brook	rout	M	6	7						Hg
		wc	3	3						Hg
Cutthro	at trout	M	}	₹						Hg
		wc	10	11						Hg
Big Casino Creek Reservoir Yellow	Perch	М		<₩						Hg
		wc		9						Hg
Big Spring Creek Brown	trout	ALL			4					PCBs
	w trout	ALL		4	-					PCBs
Downstream of East Fork Big Spring Brown		ALL			~~~					PCBs
• • • • • • • • • • • • • • • • • • •		ALL		~~	Sur					PCBs
	w trout			<₩	~~-					
Downstream of Hwy 191 Bridge Brown		ALL		000	}					PCBs
	w trout	ALL		₩						PCBs
Bighorn Reservoir Brown	trout	М	<=====================================	***	6	2	1	1		Hg
		wc	9	8	2	1	[[**]		Hg
Burbot		M			3	2	2	2		Hg
		wc			1	1	1	1		Hg
Chann	el catfish	М	2	2	2	1	1			Hg
		wc	1	1	(**)	[++]	(**)			Hg
Rainbo	w trout	М		***	33	5				Hg
		wc		11	6	2				Hg
Sauge		М	4	2	2	1	[++-]			Hq
Juage	<u> </u>	wc	2	1	1	[#]				Hg
Smallr	nouth bass	M		2	(**)	14	IL 21			Hg
Silialiii	-	wc		1	(**)					Hg
Walley	_	M	6	3	-	17-44-71	**	17-44-71		Hg
vvalley	e _	WC	3		7 31	<u> </u>	[T XI	[[
			3	1	(**)		**		IV VI	Hg
Bitterroot River Northe	rn pike	M			8	3	4			D/F, PCBs
		WC			3	1	2		*	D/F, PCBs
Rainbo	w trout	М		7	2					D/F, PCBs
		wc		3	1					D/F, PCBs
Blacktfoot River Rainbo	w trout	М		<=====================================						D/F, PCBs
		wc		10						D/F, PCBs
Blacktail Creek Butte Brook	rout	M		4	6					As/Hg
		wc		1	3					As/Hg
Boulder Creek Trib to Flint Creek Brown	trout	М	₩ ₩	8						Hg
Downstream South Boulder Creek	<u> </u>	wc	~~~	3						Hg
	at trout	М	<₩	~~~						Hg
Gatano		wc	12	9						Hg
Upstream Princeton Gulch Brown	trout	M	~~~	7						Hg
DPS::Cart IIIICEICH CUICH IDIUMI	- L	wc	\$\$ \$\$	3						Hg
· [Hg
	ot trout	M '								
	eat trout	M	~~~~	~~~						
Cutthro		wc	₹¥	8						Hg
Cutthro	w trout	WC M	} }	8 5						Hg Hg
Cutthro Boulder River Near Bernice Rainbo	w trout	WC M WC	₹¥	8						Hg Hg Hg
Cutthro	w trout	WC M	} }	8 5	5 2	4 2	1	2	2	Hg Hg

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Location	Species	Person	6-10		14-18	18-22	22-26	26-30	30+	Contaminant
Browns Gulch Near Rocker	Brook trout	M		1	14.10	.0		20 00	001	As/Hg
		wc	()							As/Hg
	Cutthroat trout	М	1	1						As/Hg
		WC	[++]	**						As/Hg
Bynum Reservoir	Walleye	М	2	1	1	1				Hg
		wc	1	[[**]	**				Hg
Cabinet Gorge Reservoir	Brown trout	M		8	3	1				Hg
		wc		4	1	**				Hg
	Crayfish (all sizes)	M	3							Hg
	-	WC	1	~ .						Hg
	Cutthroat trout	M		₹						Hg
		wc		6		_				Hg
	Lake whitefish	M		5	3	7				Hg
	NI antha anno milan	WC		2	1	3		4	4	Hg
	Northern pike	M			5	4	2	1	1 7 44 71	Hg
	Smallmouth bass	WC M		1	1	2	1			Hg Hg
	Smailmouth bass	WC		—						Hg
	Walleye	M		2		1	[44]			нg
	Walleye	WC		1	2 [44]		(**)			Hg
	Yellow perch	M	5		FXI	[KX]	[KX]			Hg
	Tellow percit	wc	2							Hg
Canyon Ferry Reservoir	Burbot	M			5					Hg
Carryon Forty Roberton	Baibot	wc			2					Hg
	Rainbow trout	M	9	9		3				Hg
		WC	4	4		1				Hg
	Walleye	М	7	5	4	2	2	2	1	Hg
	'	wc	3	2	2	1	1	1	[Hg
	Yellow perch	М	9	5						Hg
		WC	4	2						Hg
Carpenter Creek Near Belt Creek	Brook trout	M	4							As/Hg
		WC	2							As/Hg
	Cutthroat trout	ALL	[++]							As/Hg
	Rainbow trout	M	2	2						As/Hg
		WC	1	1						As/Hg
Castlerock Lake Colstrip	Black crappie	М		7						Hg
		wc		3						Hg
	Largemouth bass	M		4						Hg
		WC		2						Hg
	Northern pike	M				3	3			Hg
)A/ II	WC		-	-	1	1			Hg
	Walleye	M		7	5	2				Hg
Ostonost Onesla Nasa Dasia	Rainbow trout	WC M		3 8	2	1				Hg
Cataract Creek Near Basin	Rainbow trout	WC		4						Hg Hg
Chrome Lake Above Stillwater Mine	Cutthroat trout	M			6					Hg
Cilionie Lake Above Stillwater Wille	Cuttilloat trout	WC			3					Hg
	Arctic grayling	M		8	,		 			Hg
	5	wc		4						Hg
Clark Canyon Reservoir	Brown trout	M				4				Hg
• • • • • • • • • • • • • • • • • • • •		WC				2				Hg
	Burbot	M				8				Hg
		wc				4				Hg
	Rainbow trout	М		<₩	8	6				Hg
		WC		6	4	3				Hg
Clark Fork River	Brown trout	М		<₩						Hg
Below Warm Springs Ponds to Galen		WC		8						Hg
	Mountain whitefish	М		***************************************	9					Hg
		WC		7	4					Hg
Gold Creek to Flint Creek	Brown trout	М		4						Hg
		WC		2						Hg
	Mountain whitefish	М	<₩	6						Hg
		WC	5	3						Hg
Flint Creek to Rock Creek	Mountain whitefish	M		5	2					Hg
		WC		2	1					Hg
Rock Creek to Blackfoot River	Rainbow trout	M WC		5	12		-			D/F, PCBs D/F, PCBs
					6			i	i	D/F DCDa

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Location	Species	Person	6-10	10-14	14-18	18-22	22-26	26-30	30+	Contaminant
Clark Fork River continued	Northern pike	M	0-10	10-14	17-10	10-22	22-20	10	JUT	D/F, PCBs
Blackfoot River to Bitterroot River	TVOI II CITT PINC	wc						5		D/F, PCBs
Black oct throi to Black oct throi	Rainbow trout	M		1	2					D/F, PCBs
		WC		[44]	1					D/F, PCBs
Bitterroot River to Flathead River	All species	М	(**)		(**)	(**)	(**)	[++]	(**)	D/F, PCBs
	'	wc	—	[—	*		[]	[-+-]	D/F, PCBs
Clear Lake South of Superior	Brook trout	M	11							Hg
		WC	5							Hg
Cliff Lake Jewel Basin	Cutthroat trout	M				<=====================================				Hg/PCBs
		wc				7				Hg/PCBs
Cooney Reservoir	Rainbow trout	M	₹	***************************************	₹					Hg
		WC	7	10	10					Hg
	Walleye	M	}	11		2	2			Hg
		wc	6	5		1	1			Hg
Crystal Lake Tobacco Root Mtns	Cutthroat trout	M WC		12	1				<u> </u>	Hg
Culver Pond Red Rocks NWR	Brook trout	ALL	₹	~~~						Hg Hg
Dailey Lake	Rainbow trout	ALL	Sun	Sul	<=====================================					Hg
Dalley Lake	Walleye	M			~~~					Hg
	Walleye	WC			8					Hg
	Yellow perch	M		~~~	-					Hg
	T Cllow peron	wc		10						Hg
Douglas Creek Near Hall	Brown trout	ALL	***							Hg
	Cutthroat trout	ALL	₹							Hg
Dry Fork Belt Creek Near Monarch	Brook trout	M	1							As/Hg
•		wc	[As/Hg
	Cutthroat trout	М	1							As/Hg
		wc	[As/Hg
	Rainbow trout	М	(**)	2						As/Hg
		WC	[**]	1						As/Hg
East Fork Reservoir Lewistown	Northern pike	M					9			Hg
		WC					4			Hg
	Yellow perch	M		₹						Hg
		wc		9						Hg
Ennis Lake	Brown trout	M		<~~	<=====================================		10			Hg
		WC		6	8		4			Hg
	Rainbow trout	M		<₩						Hg
	D / /	wc	4	8						Hg
Firehole River Yellowstone National Park	Brown trout	M WC	1	1						Hg
near Lower Geyser	Rainbow trout	M	2	1						Hg Hg
liear Lower Geyser	INAIIIDOW LIOUL	WC	1							Hg
Yellowstone National Park	Brown trout	M	2							Hg
near Madison Jct.	Diowii dodt	wc	1	[]						Hg
	Rainbow trout	М	4	K . 2	3					Hg
		wc	2		1					Hg
Flathead Lake	Lake trout	М	12	12	7	6	4	1	[Hg/PCBs
		WC	6	5	3	2	1	—	—	Hg/PCBs
	Lake whitefish	М			7	2				Hg/PCBs
		wc			3	1				Hg/PCBs
Flint Creek South of Drummond	Brown trout	M	₩ ₩	4	6					Hg
Upstream of Fred Burr Creek	_	WC	7	2	2					Hg
Fred Burr Creek to Boulder Creek	Brown trout	M	5	2	1					Hg
		wc	2	1	**					Hg
Boulder Creek to Lower Willow Creek	Brown trout	M	6	5	<₩					Hg
	Mountain whitefish	WC M	3	2	6 2					Hg Hg
	Wountain whiterish	WC		2	1					Hg
Lower Willow Creek to Clark Fork	Brown trout	M	₹	~~~	5					Hg
LOWS WINOW OFER TO CIAIR FOR	DIOWII tiout	WC	\$\$	6	2					Hg
	Mountain whitefish	M	7~~	4	2					Hg
		wc		2	1					Hg
Fort Peck Reservoir	Chinook salmon	M						2	2	Hg
		WC						1	1	Hg
	Lake trout	М					3	2	1	Hg
		wc					1	1	[Hg
	Northern pike	М				3	3	2	1	Hg
				1		1	1	1	**	Hg
		wc							V-A	
	Walleye	M WC		3	3	3	1	'	F XI	Hg Hg

										Page 9
Location	Species	Person	6.10				inches		30+	Contaminant
Fred Burr Creek	Brown trout	M	3	10-14	14-10	10-22	22-20	20-30	30.	Hg
Below Rumsey Mill to Swimming Hole	Brown trout	WC	1							Hg
Downstream of Swimming Hole	Brown trout	M	2							Hg
Downstream of Ownmining Flore	Brown trout	WC	1							Hg
Frenchman Reservoir Malta	Northern pike	M		<₩						Hg/PCBs
Fieliciiliali Reservoii ivialia	Northern pike	WC		7						Hg/PCBs
Fresno Reservoir	Plank grappie	M	8	1						Hg
rresno Reservoir	Black crappie									
	N. a. a.	WC	4						4	Hg
	Northern pike	M				3	3	3	7 1	Hg
		WC				1	1	1	*	Hg
	Walleye	M		2	2	11	1			Hg
		wc		1	1		**			Hg
	Yellow perch	M	5	3						Hg
		WC	2	1						Hg
Georgetown Lake	Brook trout	M		<=====================================	<					Hg
		WC		6	6					Hg
	Kokanee salmon	М		₩ ₩						Hg
		wc		10						Hg
Gibbon River	Brown trout	M	2	1	3	2				Hg
Yellowstone National Park	Brown trout	WC	1	[44]	1	1				Hg
Tellowstolle National Fair	Rainbow trout	M		2	3	4				Hg
	Italiibow trout	WC		1	1	2				Hg
Hardwald Co. 1 N. 6 1 D. 1					-					
Harrison Lake Glacier National Park	Lake trout	M				3	2	2	2	Hg
	_	WC			0.4	1	1	1	*	Hg
Hauser Reservoir	Brown trout	М			₹					Hg
		wc			7	7				Hg
	Kokanee salmon	M	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\	\{	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				Hg
		WC	10	10	₹	₹				Hg
	Rainbow trout	М			₹	₹				Hg
		wc			8	9				Hg
	Walleye	М		10	10	5				Hg
	, raileye	WC		4	4	2				Hg
	Yellow perch	M	~~~	~~~	-	_				Hg
	reliow percit									
		WC	₹	6			4			Hg
Hebgen Reservoir	Brown trout	M		6	4	2	1 7 21 71			Hg/PCBs
		WC		3	1	1	[**]			Hg/PCBs
	Rainbow trout	М		5	3	3				Hg
		wc		2	1	1				Hg
Holter Reservoir	Kokanee salmon	M		}	\{\}	}				Hg
		wc		7	7	10				Hg
	Rainbow trout	M		₹	₹	9	₹			Hg
		wc		6	8	4	9			Hq
	Walleye	М		8	7	3	2			Hg/PCBs
	1	WC		4	3	1	1			Hg/PCBs
	Yellow perch	M	5	4		-				Hg
	T Chow peron	WC	2	1						Hg
Hyalite Lake South of Bozeman	Cutthroat trout	M								•
nyante Lake South of Bozeman	Cultifical frout		12	₹						Hg
	N. o	WC	12							Hg
Island Lake Southeast of Libby	Northern pikeminnow	ALL		₹						Hg
	Yellow perch	M	4							Hg
		WC	2							Hg
Judith River Below Big Spring Creek	Brown trout	ALL	₹¥							Hg
	Rainbow trout	М	<₩	}						Hg
		wc	<	8						Hg
Kootenai River	Bull trout	M			9					Hg
Libby Dam to Troy		wc			4					Hg
	Kokanee salmon	М	₹	₹						Hg
		wc	10	8						Hg
	Largescale sucker	M	<₩		<₩	8				Hg
		WC	***************************************		6	4				Hg
	Mountain whitefish	M	~~	₹	< ₩					Hg
	HVIOUHILAHI WHILEHSH			7	8					
				/	ő					Hg
Libbu Dom to Trav		WC								1.1
Libby Dam to Troy	Northern pikeminnow	М	4	2						Hg
Libby Dam to Troy	Northern pikeminnow		2	1						Hg
Libby Dam to Troy		М								
Libby Dam to Troy	Northern pikeminnow	M WC	2	1						Hg
Libby Dam to Troy	Northern pikeminnow	M WC M	9	1	6					Hg Hg

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Location	Species	Doroca	6.40				inche		20.1	Contaminant
Location Kootenai River continued	Species Cutthroat trout	Person	6-10	10-14	14-18	16-22	22-26	20-30	30+	Contaminant Hg
Troy to MT/ID border	Cullinoal trout	WC	3		8					Hg
Troy to WiThib border	Kokanee salmon	M	m	<₩	-					Hg
	Tokanee Samon	WC		7						Hg
	Largescale sucker	M		,	9	6				Hg
	Largesoule sucker	WC			4	3				Hg
	Mountain whitefish	M	₩	12	-	-				Hg
	Woulder Willonsin	WC	10	5						Hg
	Northern pikeminnow	M	10	8	8					Hg
	Trefuelli piloniiniio	wc		3	3					Hg
	Peamouth	M		9						Hg
		wc		4						Hg
	Rainbow trout	M	₩	~~~						Hg
	Tambon a sat	wc	₹	<₩						Hg
Krieder Reservoir Near Sand Springs	Rainbow trout	М		5						Hg
Tanoadi Nodo von Nodi Sana Spinigo	Tambon a sat	WC		2						Hg
Lake Frances	Northern pike	M	8	5	4	3	2			Hg
	·	wc	3	2	2	1	1			Hg
	Walleye	М	7	3	2	1	[Hg
		WC	3	1	1	**				Hg
	Yellow perch	М	4	3	2					Hg
		WC	1	1	1					Hg
Lake Helena	Walleye	М		\\\	10	3	[As/Hg
	-	WC		7	5	1	**			As/Hg
Lake Koocanusa	Bull trout	M		11	12	5	6			As/Hg
		wc		5	5	2	2			As/Hg
	Burbot	M			₹	6	5	4	3	Hg
		WC			8	3	2	2	1	Hg
	Cutthroat trout	M		₹						As
		WC	00	7						As
	Kokanee salmon	M	}	₹						As/Hg
		WC	8	9						As/Hg
	Largescale suckers	M		₹	6	7				As/Hg
		WC		6	3	3				As/Hg
	Longnose suckers	M		₹	8					Hg
	Mountain whitefish	WC M		9	3					Hg
	Mountain whiterish	WC		2						As/Hg As/Hg
	Northern pikeminnow	M		6	5	4	3			As/Hg
	Northern pikerninnow	WC		3	2	1	2			As/Hg
	Peamouth	M	₹	₹		-				As/Hg
	l camoun	wc	8	10						As/Hg
	Rainbow trout	M	10		6					As/Hg
	Tambow trout	WC	5	10	3					As/Hg
	Yellow perch	M	11	6						Hg
	, s ps. s	WC	5	3						Hg
Lake Mary Ronan	Kokanee salmon	М	\\\							Hg
•		wc	7	5						Hg
	Rainbow trout	ALL		~~	<=====================================					Hg
	Yellow perch	М	10	4						Hg
		WC	5	2						Hg
Lake McDonald Glacier National Park	Bull trout	М			5	7	6			Hg
		WC			2	3	3			Hg
	Lake trout	M		10	5	3	2			Hg
		WC		5	2	1	1			Hg
	Lake whitefish	M			₹	7				Hg
		WC			6	3				Hg
Lee Metcalf National Wildlife Refuge	Largemouth bass	M	₹¥	9	3					Hg
Whistlers Pond	D 11	WC	6	4	1					Hg
Leigh Lake Cabinet Mountains	Brook trout	M	3							Hg/PCBs
Liber Banda E'01 Ot 1	Drook travit	WC	1	T,as II	II aa II					Hg/PCBs
Libby Ponds Fifth Street	Brook trout	ALL			[]			-		Hg/PCBs
Ctimppen Fire	Largescale suckers	ALL		(44)						Hg/PCBs
Stimpson Fire	Largescale suckers	ALL		<=====================================	<~≈×	0				Hg/PCBs
Lower Stillwater Lake	Northern pike	M WC			7	9				Hg Hg
	Yellow perch	M	}		3	4				Hg Hg
	reliow percit	WC	7							Hg

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Location	Species	Person	6-10	10-14	14-18	18-22	22-26	26-30	30+	Contaminant
Lower Willow Creek Near Drummond	Brown trout	M	5	10-1-	14-10	10-22	22-20	20-30	30.	Hg
Lower Willow Greek Near Brainmond	Brown trout	wc	2	[Hg
Lower Willow Creek Reservoir	Cutthroat trout	М	1	(*)	[Hg
Near Drummond		wc	[Hg
Lump Gulch Prickly Pear Drainage	Brook trout	ALL	~~~							Hg
Madison River	Brown trout	М	3		1					Hg
Above Hebgen Lake		WC	1		**					Hg
	Rainbow trout	M	5	3		3				Hg
		WC	2	1		1				Hg
Hebgen Lake to Quake Lake	Rainbow trout	M		5						Hg
		WC		2						Hg
Quake Lake to Ennis Lake	Brown trout	M		₹	9					Hg
	Dainhaustraut	WC M		8	11					Hg
	Rainbow trout	WC		10	5					Hg Hg
Below Ennis Lake	Brown trout	M		9	4					Hg
Delow Lillis Lake	Diowii tiout	WC		4	2					Hg
	Rainbow trout	M		₹	11					Hg
	Tambow trout	WC		6	5					Hg
Martinsdale Reservoir	Brown trout	M				4	4	4	4	Hg
		WC				1	1	1	1	Hg
	Rainbow trout	М		9	8					Hg
		wc		4	4					Hg
McGregor Lake Near Kalispell	Crayfish (all sizes)	М	5							Hg
		wc	2							Hg
	Lake trout	М		9	6	6	3			Hg
		wc		4	3	2	1			Hg
Medicine Lake National Wildlife	Northern pike	М				8	7	2		Hg
Refuge		wc				4	3	1		Hg
Missouri River	Brown trout	M		7						Hg
Headwaters to Toston Dam		WC		3						Hg
	Northern pike	M			5					Hg
		WC			2					Hg
	Rainbow trout	M		8						Hg
Below Toston Dam	Daimhau traut	WC M		3 <						Hg Hg
Below Toston Dam	Rainbow trout	WC		6						Hg
Upstream Black Eagle Dam	Brown trout	M	₹	6	7					As/Hg
Opsileani black Lagie Dain	Diowii tiout	WC	8	2	3					As/Hg
	Crayfish (all sizes)	ALL		_						As
	Mountain whitefish	M	K ** 21		8					Hg
		WC			4					Hg
	Mussels (all sizes)	ALL	[**]							As
	Rainbow trout	М	4	9	6					As/Hg
		wc	2	4	3					As/Hg
	Stonecat	М	4	3						Hg
		wc	2	1						Hg
	White sucker	M		4	6					As/Hg
		WC		2	3					As/Hg
	Yellow perch	M	9	₹						As/Hg
Daving tracking and DL 15 15	D 4	WC	4	9	-	_				As/Hg
Downstream Black Eagle Dam	Brown trout	M		11	7	3				As/Hg
	Crayfish (all sizes)	WC ALL	(44)	5	3	1				As/Hg As
	Mountain whitefish	M	11	7						As/Hg
	Wideliani Wintelian	WC	5	3						As/Hg
	Mussels (all sizes)	ALL								As
	Rainbow trout	M	8	<=====================================	7	4				As/Hg
		WC	4	7	3	2				As/Hg
	Stonecat	M	7							Hg
		WC	3							Hg
	Walleye	М	10	11	5					As/Hg
		WC	5	5	2					As/Hg
	White sucker	M		7	8					As/Hg
		WC		3	4					As/Hg
	Yellow perch	M	7							As/Hg
		WC	3							As/Hg
Mountain View Lake	Brook trout	M		7	1 7 . 1					Hg
Stillwater drainage		WC	I	3	[++]	1	1	l	1	Hg

				9	izo (1 o	nath ir	inche	٠)		Page 12
Location	Species	Person	6-10				22-26		30+	Contaminan
Mystic Lake South of Bozeman	Brook trout	M	0-10	₩ 	<₩	10-22	22-20	20-30	301	Hg
myono zano coam or Bozoman	Brook wout	wc		8	8					Hg
	Cutthroat trout	M		8	8					Hg
		WC		3	3					Hg
	Lake trout	М					7			Hg
		wc					3			Hg
Nelson Reservoir	Black crappie	М	9							Hg
		WC	4							Hg
	Lake whitefish	М		₹		2	₹ }			Hg
		wc		7		1	8			Hg
	Northern pike	М					7	6	4	Hg
		wc					3	3	2	Hg
	Walleye	M		6	5	6	1			Hg
	N. II	WC		3	2	3	[++]			Hg
	Yellow perch	M	10	9						Hg
Ninemine Metional Middlife Deferre	l	WC	5 6	5	2	4				Hg
Ninepipe National Wildlife Refuge	Largemouth bass	WC	3	2	1	1				Hg
North Fork Lower Willow Creek	Cutthroat trout	ALL	~ ₩		1					Hg
Noxon Rapids Reservoir	Crayfish (all sizes)	M	5							Hg Hg
NOXON Napius Nesel VVII	Grayiisii (ali Sizes)	WC	2							Hg
	Lake trout	M						1		Hg
	_ano trout	WC						(44)		Hg
	Lake whitefish	M		9	9			IZ XI		Hg
	Lake Willelien	wc		4	4					Hg
	Largemouth bass	M		4						Hg
		wc		2						Hg
	Northern pike	М		5	5	3	2	1	1	D/F, Hg
	· ·	wc		2	2	1	1			D/F, Hg
	Smallmouth bass	М		2	1	—				Hg
		WC		1	[**]					Hg
	Walleye	М	1	1	1	1	1	1	**	D/F, Hg
		wc	—	**	(44)	**	(**)	**	(44)	D/F, Hg
	Yellow perch	M	3	2						Hg
		wc	1	1						Hg
Park Lake Southwest of Helena	Arctic grayling	ALL	₹	₩						Hg
	Cutthroat trout	ALL	<₩	<₩						Hg
Petrolia Reservoir South of Winnett	Northern pike	M					5			Hg
		WC					2			Hg
Piedmont Pond Whitehall	Cutthroat trout	M	2	1 7 4 7						As/Hg
Disklass December	NI - utla - uu- uu ila -	WC	1	[]	2	2	2	4		As/Hg
Pishkun Reservoir	Northern pike	M		4	3	2		1		Hg
				2	4	4	V	17 AA 71		
	Dainhau traut	WC		2	1	1		**		Hg
	Rainbow trout	М		2	4	4	2	**		Hg Hg
		M WC	3	2				**		Hg Hg Hg
	Rainbow trout Yellow perch	M WC M	3	2	4	4	2			Hg Hg Hg Hg
Prickly Pear Creek	Yellow perch	M WC M	1		4	4	2			Hg Hg Hg Hg
•	Yellow perch Brown trout	M WC M WC ALL	1 <	2	4	4	2			Hg Hg Hg Hg Hg
Upstream of ASARCO	Yellow perch Brown trout Rainbow trout	M WC M WC ALL	1		4	4	2			Hg Hg Hg Hg Hg Hg
Upstream of ASARCO	Yellow perch Brown trout	M WC M WC ALL	1 <	< <>>	1	4	2			Hg Hg Hg Hg Hg
Upstream of ASARCO	Yellow perch Brown trout Rainbow trout	M WC M WC ALL ALL	1 <		2	4	2			Hg Hg Hg Hg Hg Hg Hg Hg Ag
Upstream of ASARCO	Yellow perch Brown trout Rainbow trout Brown trout	M WC M WC ALL ALL M WC	1 <	1	1	4	2			Hg Hg Hg Hg Hg Hg Hg As As
Upstream of ASARCO Downstream of ASARCO	Yellow perch Brown trout Rainbow trout Brown trout	M WC M WC ALL ALL M WC M WC	1 <	1	1 4	4	2			Hg Hg Hg Hg Hg Hg Hg As As As As Hg
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout	M WC M WC ALL ALL M WC M WC M WC M WC	1 <	1 [44] 3 1 8 4	1 4 2	4	2			Hg H
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout Brown trout Brown trout	M WC M WC ALL ALL M WC M WC ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	1	1 1 3 1 8 4	1 4	4	2			Hg Hg Hg Hg Hg Hg As As As As Hg Hg Hg
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout	M WC ALL ALL M WC M WC ALL ALL M WC ALL M WC	1	1 3 1 8 4	1 4 2	4	2			Hg Hg Hg Hg Hg Hg Hg Hg As As As Hg Hg Hg
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout Brown trout Brown trout Brown trout	M WC M WC ALL ALL M WC M WC ALL M WC M WC M WC ALL M WC	1	1 1 3 1 8 4	1 4 2	4	2 1			Hg Hg Hg Hg Hg Hg Hg As As As Hg Hg Hg
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout Brown trout Brown trout	M WC M WC ALL ALL M WC M WC M WC M WC M WC M WC M M WC ALL M WC M M WC M M	1	1 3 1 8 4	1 4 2	4	2 1	9		Hg Hg Hg Hg Hg Hg Hg As As As As Hg Hg Hg
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout Brown trout Bull trout Mountain whitefish Northern pike	M WC M WC ALL ALL M WC M WC M WC M WC M WC M WC ALL M WC M	1	1 3 1 8 4 4	1 4 2	4	2 1			Hg H
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton Seeley Lake	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Bainbow trout Brown trout Brown trout Brown trout Bull trout Mountain whitefish Northern pike Yellow perch	M WC M WC ALL ALL M WC M WC M WC M WC M WC ALL M WC ALL	1	1 3 1 8 4 3 1 1 5	1 4 2	4	2 1	9		Hg H
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton Seeley Lake Silver Bow Creek	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout Brown trout Bull trout Mountain whitefish Northern pike	M WC M WC ALL ALL M WC M WC ALL M WC M WC ALL M WC ALL M WC M WC ALL M WC M WC	1	1 1 3 1 8 4 2 7	1 4 2	4	2 1	9		Hg H
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton Seeley Lake Silver Bow Creek Lower Area One (near lagoons)	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout Brown trout Bull trout Mountain whitefish Northern pike Yellow perch Brook trout	M WC M WC ALL ALL M WC M WC ALL M WC ALL M WC ALL M WC M	1	1 3 1 8 4 3 11 5	1 4 2	4	2 1	9		Hg Hg Hg Hg Hg Hg Hg As As As As As Hg
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton Seeley Lake Silver Bow Creek Lower Area One (near lagoons)	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Bainbow trout Brown trout Brown trout Brown trout Bull trout Mountain whitefish Northern pike Yellow perch	M WC M WC ALL ALL M WC M WC M WC ALL M WC ALL M WC M WC M WC ALL M WC M	1	1 3 1 8 4 2 11 5	4 2 1 4 2 2	4	2 1	9		Hg Hg Hg Hg Hg Hg Hg Hg Hg As As As As As Hg Hg Hg Hg Hg Hg As/Hg As/Hg As
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton Seeley Lake Silver Bow Creek Lower Area One (near lagoons) Rocker	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout Bull trout Mountain whitefish Northern pike Yellow perch Brook trout Cutthroat trout	M WC M WC ALL ALL M WC M WC M WC ALL M WC ALL M WC M	1	1 3 1 8 4 227 111 5	4 2 1 4 2 2 2 11 5	4	2 1	9		Hg Hg Hg Hg Hg Hg Hg Hg Hg As
Prickly Pear Creek Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton Seeley Lake Silver Bow Creek Lower Area One (near lagoons) Rocker Ramsey	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout Brown trout Bull trout Mountain whitefish Northern pike Yellow perch Brook trout	M WC M WC ALL ALL M WC M WC M WC M WC ALL M WC M WC ALL M WC M	1	1 3 1 8 4 11 5 7	4 2 1 4 2 2 2 7	4	2 1	9		Hg Hg Hg Hg Hg Hg Hg Hg Hg As
Upstream of ASARCO Downstream of ASARCO Rock Creek Near Alberton Seeley Lake Silver Bow Creek Lower Area One (near lagoons) Rocker	Yellow perch Brown trout Rainbow trout Brown trout Rainbow trout Brown trout Bull trout Mountain whitefish Northern pike Yellow perch Brook trout Cutthroat trout	M WC M WC ALL ALL M WC M WC M WC ALL M WC ALL M WC M	1	1 3 1 8 4 227 111 5	4 2 1 4 2 2 2 11 5	4	2 1	9		Hg Hg Hg Hg Hg Hg Hg Hg Hg As

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Location	Species	Person	6.10			ngth in 18-22			30+	Contaminant
Silver Creek North of Helena	Cutthroat trout	M	3	10-14		[4]	22-20	20-30	301	Hg
Onver Oreck North of Ficienta	Outili out trout	WC	1	[]		(**)				Hg
Smart Creek Near Hall	Cutthroat trout	ALL		L 4	18 21	10. 20				Hg
Snow Creek Trib to Carpenter Creek	Cutthroat trout	ALL	(44)	[++]						As/Hg
Soda Butte Creek Cooke City	Brook trout	ALL	<=====================================							Hg
·	Cutthroat trout	ALL	₹							Hg
South Fork Lower Willow Creek Near	Cutthroat trout	М	11							Hg
Drummond		WC	5							Hg
South Sandstone Reservoir	Northern pike	М			2		1			Hg
North of Baker		wc			1		**			Hg
	Walleye	ALL								Hg
	Yellow perch	M	4							Hg
		wc	2							Hg
Spring Meadow Lake Helena	Cutthroat trout	М		2						As
		WC		1						As
	Largemouth bass	M	6	5						As/Hg
		WC	3	2	ļ					As/Hg
	Pumpkinseed	M	5							As
	D:1 1	wc	2							As
	Rainbow trout	M		₹¥						Hg
	V II	WC		7	-					Hg
	Yellow perch	M WC		9	ļ					As/Hg
St. Mary Lake Glacier National Park	Bull trout	M		4			2			As/Hg
St. Mary Lake Glacier National Park	Buil trout	WC					1			Hg Hg
	Burbot	M			6	3	3		2	Hg
	Bulbot	WC			3	1	1		<u>~</u>	Hg
	Lake trout	M			3	2	4	3		Hg
	Lake trout	WC			1	1	2	1		Hg
	Lake whitefish	M			7	7	_	•		Hg
	Lake Willelier	WC			3	3				Hg
Sun River Near Great Falls	Rainbow trout	M			7					Hg
Can ravor radar Great rane	Tumbow trout	wc			3					Hg
Swan Lake	Bull trout	M		8	3	2	3	2	2	Hg
		wc		3	1	1	1	1	1	Hg
	Kokanee salmon	М	11	₹	<₩					Hg
		wc	5	7	6					Hg
	Lake trout	М	9	6	5	3	3	2	1	Hg
		wc	4	3	2	1	1	1	**	Hg
	Northern pike	M			6	3	4		2	Hg
		wc			3	1	2		*	Hg
Tenmile Creek West of Helena	Brown trout	M	<=====================================	₹ ₹						Hg
		wc	12	12						Hg
	Rainbow trout	М	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	₹¥						Hg
		WC	10	10						Hg
Thompson Falls Reservoir	Northern pike	M			5	7	6	5	3	Hg
		WC			2	3	3	2	1	Hg
	Rainbow trout	M			11					Hg
	0 " " "	WC		_	5					Hg
	Smallmouth bass	M		5						Hg
	Yellow perch	WC	7	2						Hg
	reliow perch	WC	7							Hg Hg
Tiber Reservoir	Northern pike	M	3	3		2	2	4	17-a-1	Hg
Tiber Reservoir	Northern pike	WC		1		1	17-4-71	1	ŦŦ	Hg
	Walleye	M		1	1	1	1	الاستاا	T-A	Hg
	77 and ye	WC			[**]					Hg
	Yellow perch	M	5	3	12.73	IK 31	L 21			Hg
		WC	2	1			 			Hg
Tongue River Reservoir	Northern pike	M					6	6		Hg
5 . 3		WC					3	3		Hg
	Smallmouth bass	M	8	4						Hg
		WC	4	2						Hg
		М		5	4	3	2			Hg
	Walleye			•						
	Walleye	WC		2	1	1	1			Hg
	Walleye White crappie	WC M	4		1	1	1			Hg
	White crappie	WC	4 2		1	1	1			Hg Hg
Upper Cold Lake Mission Mountains		WC M			1	1	1			Hg

	Size (<i>Length in inches</i>) Location Species Person 6-10 10-14 14-18 18-22 22-26 26-30 30+ C										
Location	Species	Person	6-10	10-14	14-18	18-22	22-26	26-30	30+	Contaminant	
Upper Two Medicine Lake	Lake trout	M			7					Hg	
Glacier National Park		WC			3					Hg	
Warm Springs Creek Near Clancy	Brook trout	ALL	}							Hg	
Warm Springs Ponds Near Anaconda	Rainbow trout	M			}	}	}	}		Hg	
		WC			₹	***	12	}		Hg	
Waterton Lakes	Lake trout	M		6	4	3	1		1	Hg	
Glacier National Park		wc		3	2	1	**		(**)	Hg	
	Lake whitefish	M	₹	₩	8	7	6		7	Hg	
		wc	9	7	4	3	3		3	Hg	
West Fork Madison River	Brown trout	M		₹						Hg	
Downstream of Lobo Creek		WC		7						Hg	
	Rainbow trout	M		}	}					Hg	
		WC		}	7					Hg	
Upstream of Lobo Creek	Rainbow trout	M		}						Hg	
		WC		10						Hg	
Whitefish Lake	Cutthroat trout	M		}	}					Hg	
		WC		₹ }	\\\					Hg	
	Lake trout	M		10	10	5	3			Hg	
		WC		5	4	2	1			Hg	
	Lake whitefish	М		₹¥	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5				Hg	
		WC		9	8	2				Hg	
	Northern pike	M			<~~~	<=====================================	9	₹	8	Hg	
		WC			9	8	4	6	4	Hg	
Willow Creek Reservoir Near Augusta	Rainbow trout	M	}	₹	}	\\\				Hg	
		WC	8	8	8	6				Hg	
Woody Creek Near Cooke City	Cutthroat trout	ALL	₩ ₩	₹						Hg	
Yellowstone River Near Powder River	Channel catfish	М					1			Hg	
		WC					[Hg	