

Michigan Fish Contaminant Monitoring Program  
2010 Annual Edible Portion Report

SUMMARY

The 2010 Annual Report (MI/DEQ/WRD-11/028) presents results of the analysis of samples collected primarily in 2009. The report summarizes the analyses of edible portion samples of 293 fish collected from 28 locations in 2009, 145 fish collected from 13 locations in 2008, 39 fish collected from 4 locations in 2007, and 89 fish collected from 8 locations in 2006. In all, 14 species of fish were analyzed as edible portion samples for this report.

Edible portion samples included fish from the Lake Erie, Lake Huron, Lake Michigan, and Lake Superior watersheds. Fish consumption advisory recommendations based on analysis of the edible portion samples are summarized in the attached table. The recommendations have been reviewed by the Michigan Department of Community Health and will be incorporated into the 2011 Fish Consumption Guide (available online).

Fish consumption advisories were removed for rock bass from the Rifle River (Arenac and Ogemaw Counties), and chlordane was removed as a contaminant causing advisories in carp from Lake Orion (Oakland County).

Consumption advisories were added or expanded for 6 waterbodies; two of the locations with expanded advisories (Lange/Revere canals in Lake St. Clair and the upper Escanaba River Middle and East Branches) had not been sampled previously.

The consumption advisories for lake trout from northern Lake Michigan (based on samples from Grand Traverse Bay) and lake trout from Glen Lake (Leelanau County) were expanded due to a change in the method of calculating the 2,3,7,8 TCDD TEQ: the Dept of Community Health, following EPA/WHO guidance, now includes dioxin-like PCB congeners in the calculation. Because of this change consumption advice for certain species/locations is likely to be more restrictive as more data become available, even though Michigan and other trend data indicate that dioxins and PCB levels in fish are gradually declining,

Results for the trend element of the FCMP will be reported separately. In addition, caged fish studies will be reported individually by watershed.

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Summary of Advisory Recommendations

Watershed	Waterbody	Species	Advisory Recommendations		
			No Change	Relaxed	Expanded
Lake Erie	Baseline Lake, Livingston/Washtenaw Counties	<i>Carp</i>	X		
		<i>Largemouth bass</i>	X		
	Detroit River	Lake sturgeon	X		
	Lake Orion, Oakland County	Carp		X*	
	Lake St. Clair, Lange/Revere Canals, St. Clair Shores	<i>Carp</i>			X
		<i>Largemouth bass</i>			X
	Portage Lake, Livingston/Washtenaw Counties	<i>Carp</i>			X
		Walleye	X		
	South Lake, Washtenaw County	Northern Pike			X
	St. Clair River, Marine City	Carp	X		
Walleye		X			
Lake Huron	Lake Huron, Black & Swan Rivers	Chinook salmon	X		
	Au Sable River, Mio Dam Pond	<i>Northern pike</i>	X		
	Avery Lake, Montmorency County	<i>Largemouth bass</i>	X		
	Bad River, Saginaw County	Northern pike	X		
	Crooked Lake, Alcona County	<i>Walleye</i>	X		
	Horseshoe Lake, Ogemaw County	<i>Largemouth bass</i>	X		
	Mullet Lake, Cheboygan County	Smallmouth bass	X		
	Rifle River, Arenac/Ogemaw Counties	Redhorse sucker	X		
		Rock bass		X	
	Tawas Lake, Iosco County	<i>Black crappie</i>	X		
Thunder Bay River, 7-Mile Pond	<i>Smallmouth bass</i>	X			
Lake Michigan	L. Michigan, Grand Traverse Bay	Lake trout			X
	Lake Michigan, Platte & St. Joseph Rivers	Chinook salmon	X		
		Coho salmon	X		
	Big Crooked Lake, Van Buren Co.	<i>Largemouth bass</i>	X		
	Boardman River, Brown Bridge Pond	<i>Northern pike</i>	X		
		<i>White sucker</i>	X		
	Campbell Lake, Kent County	<i>Largemouth bass</i>	X		
	Chicagon Lake, Iron County	Walleye	X		
	Clear Lake, St. Joseph County	<i>Northern pike</i>	X		
	Crooked Lake, Baraga County	<i>Largemouth bass</i>	X		
	Deer Lake, Iron County	<i>Northern pike</i>	X		
	Dodge Lake, Schoolcraft County	<i>Largemouth bass</i>	X		
	Eel Lake, Gogebic County	<i>Black crappie</i>	X		
	Escanaba River, East & Middle Br	<i>Brook trout</i>			X
	Fish Lake, Marquette County	Northern pike	X		
	Glen Lake, Leelanau County	Lake trout			X
Indian Lake, Iron County	<i>Northern pike</i>	X			
Mary Lake, Dickinson County	<i>Largemouth bass</i>	X			

Italicized species names indicate previously un-sampled populations

\* - chlordane removed from list of contaminants

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			No Change	Relaxed	Expanded
Lake Michigan	Michigamme River, Michigamme Reservoir	Northern pike	X		
		Walleye	X		
	Payne Lake, Barry County	<i>Northern pike</i>	X		
	Pere Marquette Lake, Mason Co	Northern pike	X		
	Thumb Lake, Charlevoix County	<i>Largemouth bass</i>	X		
		<i>Smallmouth bass</i>	X		
	Twin Lake, Luce County	<i>Northern pike</i>	X		
	Wells Lake, Osceola County	<i>Northern pike</i>	X		
Lake Superior	L Superior, Tahquamenon River	<i>Walleye</i>	X		
	Bobcat Lake, Gogebic County	<i>Northern pike</i>	X		
	Bodi Lake, Luce County	<i>Northern pike</i>	X		
	Chaney Lake, Gogebic County	Northern pike	X		
	Clearwater Lake, Gogebic County	<i>Northern pike</i>	X		
	Engman Lake, Marquette County	<i>Northern pike</i>	X		
	Johnson Lake, Marquette County	<i>Northern pike</i>	X		
	Kingston Lake, Alger County	Largemouth bass	X		
	L. Fannie Hooe, Keweenaw Co	<i>Smallmouth bass</i>	X		
	Monacle Lake, Chippewa County	<i>Walleye</i>	X		
	Muskallonge Lake, Luce County	<i>Walleye</i>	X		
	Nawakwa Lake, Alger County	<i>Rock bass</i>	X		
		Walleye	X		
	Pike Lake, Houghton County	<i>Northern pike</i>	X		
	Tank Lake, Luce County	<i>Splake</i>	X		

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