

A PROFILE OF MANITOBA'S COMMERCIAL FISHERY

**Manitoba Water Stewardship
Fisheries Branch
200 Saulteaux Crescent
Winnipeg, Manitoba
R3J 3W3**

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Allocation of Lakes and Licences - Potential Commercial Harvest

There are some 295 lakes, in addition to Manitoba's three major waterbodies - Lake Winnipeg, Winnipegosis, and Manitoba - listed in the commercial harvest schedule. The schedule lists seasons, limits, and conditions applied to commercial fisheries on each of these lakes. The primary fish species under quota restrictions are walleye (pickerel), sauger, whitefish, northern pike, goldeye, and trout.

Although total quota for commercially fished lakes in the province is approximately 13.0 million kgs, significant harvest of non-quota species (e.g. suckers, carp, tullibee) also occurs. Most lake quotas have been set for many years, and were originally based on traditional harvests adjusted by maximum sustainable yield estimates. Most northern lakes have lake quotas; a set number of fishermen are licensed and they all fish until the entire lake quota is harvested for the season. Generally, local fishermen's associations recommend to Manitoba Water Stewardship (MWS) fisheries managers the individuals to fill vacant licences. Lakes Winnipeg and Winnipegosis have individual quota entitlements (access rights) that fishermen may buy and sell. Fishermen wishing to buy quota entitlements must meet certain eligibility criteria (residency, fishing experience). The number and size of quotas were originally established based on the number of participants, average harvests, and the total lake quotas at the time of implementation. It should be noted that fishermen still must be licensed with individual quotas specified on the licence to use the access rights that they have purchased.

Fishing seasons are categorized as open water or winter. On Lake Winnipeg, there are actually two specified open water seasons: summer and fall. Opening dates for open water seasons and closing dates for winter fisheries generally are set to avoid typical spawning times. Opening dates for winter and closing dates for open water are set around typical ice freeze-up times to avoid unsafe ice conditions.

Not all lakes on the schedule are fished every year. Weather conditions, ice breakup and freeze-up, water levels, transportation costs, fish prices, subsidies, and market demand can all affect the fishery and/or a fisherman's decision to fish.

In general, most lakes in the province suitable for commercial fishing are listed in the harvest schedule. In some cases, MWS has allowed fishermen to test fish lakes not listed in the commercial harvest schedule for their commercial potential under an experimental commercial fishing licence. In other cases, MWS allows intermittent fishing (every second or third year) of lakes which show potential but cannot sustain annual harvest. This is referred to as "pulse fishing".

Commercial Production and Value

Between 1997/98 and 2006/07, Manitoba's commercial fisheries produced an average of over 13 million kgs of fish annually (Table 1). Pickerel comprise the greatest portion of production by weight (34%), followed by mullet (or suckers) at 25%, whitefish (17%), pike (11%), and sauger (5%).

Pickereel are also the most valuable species, averaging \$20 million or 67% of the average landed value of the total catch of \$30 million (Table 2). Whitefish comprise the second-highest contribution to total landed value (10%), followed by sauger (9%). Perch, pike, and suckers each contribute about 4% of the total landed value. Prices are low for suckers, which are considered an "underutilized species", which is why the significant harvest of suckers by weight contributes only 4% of the total landed value of Manitoba's commercial fisheries.

Lake Winnipeg is the largest commercial fishery, contributing over 40% of the province's total production and 64% of landed value of the harvest (Table 3). Northern lakes contribute 21% of total production and about 17% of landed value.

Almost 70% of the total harvest occurs during open water (Table 4). Northern lakes are primarily summer fisheries and 86% of Lake Winnipeg production occurs during open water. However, Lake Manitoba is primarily a winter fishery; summer production is strictly for carp and suckers. Lake Winnipegosis has been commercially fished as both a summer and winter fishery since 1921, with slightly more production (55%) during the winter. About 65% of production from "Other Lakes" occurs during the winter.

In 2006/07, almost 80% of summer production on Lake Winnipeg was pickereel/sauger; 15% of production was whitefish (Table 5). Whitefish comprised 47% and pickereel/sauger 40% of winter production on Lake Winnipeg in 2006/07. Production on Lake Manitoba in winter 2006/07 was 32% mullet (sucker), 21% pickereel/sauger, 19% perch, 16% pike, and 11% carp. The Lake Winnipegosis summer fishery has become primarily a mullet/carp fishery (73% of production) with some pickereel (18%), and a small amount of pike and whitefish (6% and 3%, respectively). The winter fishery is a mullet/carp fishery (71%) with some pike (23%) and a small amount of pickereel and whitefish (3% and 2%, respectively).

Northern lakes produced pickereel (37%), pike (25%), whitefish (25%), and mullet (9%) in the summer (Table 5). In winter, they produced primarily pike (42%), whitefish (23%), mullet (19%), and pickereel (13%).

The importance of commercial fishing to local economies cannot be overstated. An average of 3,185 licensed fishermen and hired helpers have been employed annually in commercial fishing in the province (Table 6). Over 30% of these fishermen are employed on Lake Winnipeg, Manitoba's largest fishery.

Average annual income per fisherman (including hired helpers) is \$9,391 (Table 7). Average incomes are highest on Lake Winnipeg at \$18,259, and lowest on Lake Manitoba at \$3,112. The average income per Lake Winnipegosis fisherman is \$4,953. Lake Manitoba and Winnipegosis fishermen rely heavily on fishing to supplement their income. However, in Northern Manitoba, with the decline of the fur industry, commercial fishing is often one of the few economic opportunities available for many communities. Northern Manitoba commercial fisheries employ an average of 760 fishermen and hired hands annually for an average individual income of \$6,860. It should be noted that in 1992, individual employment incomes averaged only \$4,917 for First Nations communities in Northern Manitoba and \$8,835 for Northern Affairs communities (Northern Manitoba Economic Development Commission 1992).

Marketing

In 1969, the Freshwater Fish Marketing Act established the Freshwater Fish Marketing Corporation (FFMC) as a federal Crown corporation with exclusive rights to inter-provincial and export trade of freshwater fish products from Manitoba, Saskatchewan, Alberta, the Northwest Territories and Northwestern Ontario. FFMC buys all fish offered by Manitoba fishermen.

Fishermen may sell fish outside the FFMC directly to final consumers. They can also have a representative sell fish on their behalf, but this must be authorized in writing by the Director of Fisheries.

MB Water Stewardship introduced a new trade record system in the winter of 1994/95 that requires fishermen to record all species sold and to whom. The FFMC also issues Special Dealer Licences which allow the licensee to sell fish in local markets or to markets outside Manitoba where FFMC sales (and thus revenues to the aggregate group of fishermen) will not be jeopardized.

A Fish Transportation Loadslip Regulation was introduced in 1994 that allowed for the control of transporting fish within the province. The main purpose for the loadslip regulation is to provide an authorizing mechanism for the movement of fish and to assist in the determination of fish being illegally harvested, transported or sold.

The FFMC has found that economies of scale render the current process of shipping to and processing in the main Transcona plant more economically efficient than operating smaller regional processing facilities, which experience higher transportation costs. However, there continues to be pressure from some northern fisheries to opt out of the FFMC. As a result of the report of the Parliamentary Standing Committee on Fisheries and Oceans, in 1995, Island Lake fishermen were allowed to market outside the FFMC.

MB Water Stewardship continues to support the FFMC as the single desk marketing agency for most of Manitoba's commercial fishermen. There is no question that the FFMC has benefited Manitoba's commercial fishermen since its inception, and the Corporation continues to help maintain the economic viability of our commercial fisheries.

However, the Department continues to work with the FFMC to seek new ways to improve benefits to commercial fishermen. MB Water Stewardship has encouraged them to expand their use of Special Dealer Licences to enable more fishermen to explore markets for underutilized fish species or new value-added products. To this end, in consultation with MB Water Stewardship, the FFMC has developed new policies for controlling fish sales. A new Export Dealer Licence and a new Manitoba Special Dealer Licence for intra-provincial sales have been introduced.

Transportation Logistics

Fishermen deliver their fish to the FFMC's packing stations, local agents, or the FFMC's main plant in Transcona. The FFMC operates (either directly or through agents) approximately 28 packing stations in Manitoba during the summer and 20 stations in winter, depending on production (Figure 1).

The major packing stations in Northern Manitoba are located at The Pas, Easterville, Kisseynew Lake, Wabowden, Leaf Rapids, South Indian Lake, Nelson House, and Reindeer Lake. Northern fishermen either boat, truck or fly their fish to the nearest station where it is weighed, packed, and then trucked by commercial carrier to Winnipeg. Pukatawagan fishermen bring their fish back to the community and send the fish by train to The Pas. Thicket Portage fishermen also send their fish by train, either to the Wabowden packing plant when it is operating, or to The Pas. The fish are trucked from The Pas and Wabowden to Winnipeg by commercial carrier. Easterville fishermen on Cedar Lake operate a packing station in their community. Fish are trucked from Easterville to Winnipeg.

Fish from the south end of Playgreen Lake are delivered to Playgreen Point, packed and then boated to Norway House, and then trucked to Winnipeg. Fish from the north end of Playgreen Lake, as well as Stevenson, Kiskittogisu, and Bigstone lakes are now being boated to the Whiskey Jack station which opened in the summer of 1993. From Whiskey Jack, the fish are trucked directly to Winnipeg.

Lake Winnipegosis fish are delivered to Dawson Bay, Duck Bay or the community of Winnipegosis, to be trucked to Winnipeg.

There are approximately 12 delivery points on Lake Winnipeg alone. On Lake Winnipeg, the FFMC operates a fish boat out of Matheson Island during the open water fisheries, collecting fish from McBeth Point, George's Island, Negginan, and Berens River. The fish are then trucked from Matheson Island to FFMC's Transcona plant. Fish delivered to the other packing stations on Lake Winnipeg, which are road-accessible, are trucked to the Transcona plant. In winter, Lake Winnipeg fishermen transport their fish to the nearest road-accessible packing station by bombardier or snow machine.

Lake Manitoba and Winnipegosis fishermen deliver their fish to the nearest packing station by boat or truck in summer, and by bombardier or snow machine in winter, where it is then trucked to Winnipeg. Some fishermen on southern lakes truck their fish directly to the Transcona plant.

Fish harvested from southern Manitoba lakes can reach the FFMC's Transcona plant the same day. In Northern Manitoba, transport of fish may take a day from lakeside to the nearest packing plant and then another day from the plant to FFMC Transcona. Conceivably, northern fishermen can get their catch to Transcona the same day if they lift their nets early enough in the day to reach the packing station and catch the commercial carrier to Winnipeg. However, this can only occur when production is high and the plant is loading a truck for Winnipeg daily. When production drops off, a truck may be going to Winnipeg only every three days or so.

Transportation Costs

Certain lakes are eligible for assistance under Manitoba's Northern Fishermen's Freight Assistance (NFFA) Program, which was established in 1976, to assist marginally viable commercial fishing operations through partial subsidization of the cost of transporting selected fish species from lakeside to Winnipeg. Under the NFFA Program, fishermen pay the first 20¢/kg of freight costs to FFMC in Transcona, the Province pays the next 45¢/kg, and fishermen then pay any freight costs in excess of 65¢/kg. Eligible species for freight assistance are whitefish, pike, lake trout, perch, goldeye, and tullibee.

Subsidy payments to fishermen are issued by FFMC on behalf of Manitoba on weekly fish cheques. Total NFFA Program expenditures were capped in 1991 at \$250,000, however due to significant increases in transportation costs in recent years, program funding was increased to \$410,000 in 2001. A subsidy of 7¢/kg on suckers coming from subsidized lakes was also added to the program in 2001.

As an additional precaution, to allow for higher than average production years, fishermen receive an initial subsidy payment of 70% of the estimated full subsidy for which they are eligible. They receive a final payment at the end of the fishing year which may total the expected remaining 30%. However, in years of high production, final payments may be less than expected. In low production years, final payments may result in a higher subsidy rate than promised.

Transportation methods used by fishermen to deliver their fish to the packing stations are varied, and actual costs are not readily available. Transportation tariffs (estimates of costs per mile of various transport modes), from which Fisheries Branch estimates NFFA subsidy rates, had not been changed since 1984 and did not represent the fishermen's true costs of transporting their fish. Tariffs were therefore updated with introduction of the higher program funding cap in 2001.

The FFMC negotiates with truck, rail, and air transport operators to determine appropriate backoffs (freight charges) to fishermen to transport their fish from delivery points to the main FFMC plant in Transcona. These backoffs are deducted from the FOB Winnipeg price to establish the fish price paid to fishermen.

Conclusion

Manitoba's commercial fishery is an important industry and a major provider of employment in Northern Manitoba and the Interlake. In addition to the direct income to fishermen from the fish they sell (\$30 million), Manitoba also benefits from annual sales by the FFMC of over \$60 million in value-added processed fish products.

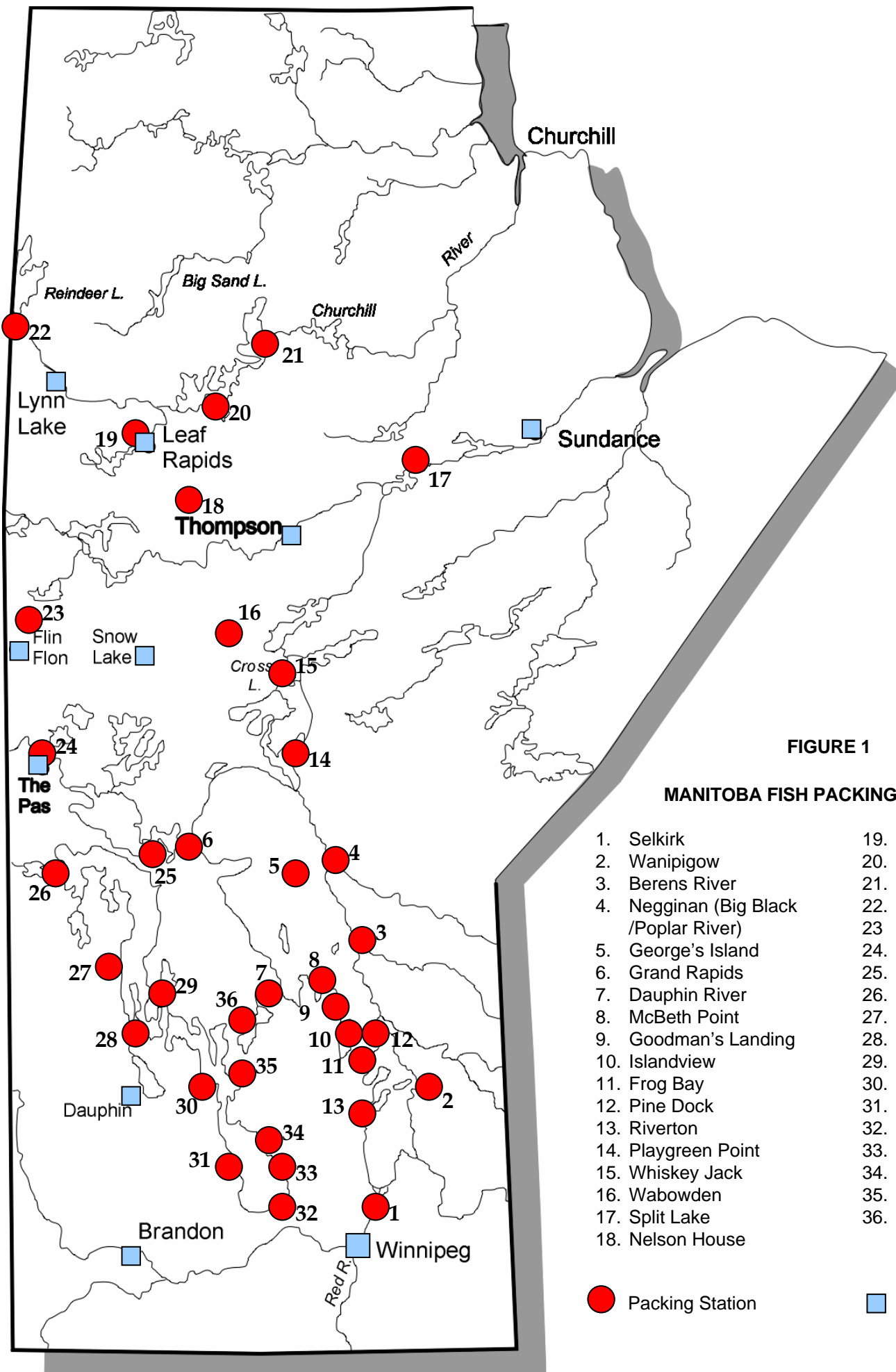


TABLE 1. COMMERCIAL FISHING PRODUCTION BY SPECIES

SPECIES	PRODUCTION (KGS ROUND WEIGHT)										% OF	
	1997/98	1998/99	1999/2000	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	AVERAGE	TOTAL
BASS	45,100	25,850	45,450	28,650	34,550	27,900	16,100	15,150	7,700	15,600	26,205	0.2%
CARP	569,950	397,050	652,600	487,200	628,450	976,000	435,200	534,950	491,300	534,750	570,745	4.3%
CATFISH	250	500	50	50	0	0	0	50	0	Tr	90	0.0%
GOLDEYE	17,500	16,150	8,500	9,300	5,850	5,500	10,300	7,700	9,350	44,850	13,500	0.1%
MARIA	Trace	102,450	2,450	48,000	4,450	26,850	14,950	0	0	0	19,915	0.1%
MULLET	2,716,050	3,289,150	4,206,850	4,719,850	4,131,050	4,114,650	3,832,550	2,297,300	2,214,900	1,731,250	3,325,360	24.8%
PERCH	229,850	246,400	226,200	161,200	562,350	478,900	277,600	185,050	167,000	206,250	274,080	2.0%
PICKEREL	2,239,750	3,219,600	4,156,450	5,270,600	4,584,300	4,502,200	5,161,550	5,253,650	5,725,300	6,175,150	4,628,855	34.5%
PIKE	1,674,350	1,796,900	1,753,250	1,728,500	1,545,400	1,573,950	1,665,800	1,279,700	874,950	1,321,650	1,521,445	11.3%
SAUGER	965,750	1,117,950	984,400	582,700	682,750	775,550	765,250	585,300	311,650	163,800	693,510	5.2%
TROUT	54,100	44,650	40,550	26,050	39,250	31,050	33,050	40,700	48,650	40,000	39,805	0.3%
TULLIBEE	75,100	101,950	116,200	128,250	103,250	108,500	53,900	63,900	82,150	56,800	89,000	0.7%
WHITEFISH	1,924,150	1,844,800	1,904,100	2,334,350	2,499,550	2,472,700	2,690,700	2,486,350	2,130,350	1,911,150	2,219,820	16.5%
TOTAL	10,511,900	12,203,400	14,097,050	15,524,700	14,821,200	15,093,750	14,956,950	12,749,800	12,063,300	12,201,250	13,422,330	100.0%

TABLE 2. VALUE OF COMMERCIAL FISHERY BY SPECIES

SPECIES	VALUE (\$ 2008)										% OF	
	1997/98	1998/99	1999/2000	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	AVERAGE	TOTAL
BASS	\$47,941	\$42,321	\$56,676	\$24,715	\$19,409	\$19,006	\$9,774	\$6,786	\$3,304	\$8,742	\$23,867	0.1%
CARP	\$215,579	\$143,586	\$236,858	\$180,057	\$324,163	\$447,480	\$206,797	\$221,284	\$212,902	\$225,040	\$241,375	0.8%
CATFISH	\$308	\$609	\$60	\$58	\$0	\$0	\$0	\$54	\$0	\$0	\$109	0.0%
GOLDEYE	\$59,787	\$47,497	\$32,011	\$27,629	\$18,955	\$19,174	\$29,488	\$20,195	\$20,346	\$94,984	\$37,007	0.1%
MARIA	\$0	\$52,490	\$1,374	\$19,527	\$1,362	\$6,596	\$3,954	\$0	\$0	\$0	\$8,530	0.0%
MULLET	\$922,844	\$1,119,705	\$1,536,414	\$1,610,316	\$1,302,215	\$1,217,223	\$1,052,765	\$639,134	\$742,851	\$587,490	\$1,073,096	3.6%
PERCH	\$1,084,991	\$1,392,750	\$1,341,421	\$1,038,667	\$3,140,331	\$2,036,605	\$1,029,647	\$647,751	\$566,604	\$667,869	\$1,294,664	4.3%
PICKEREL	\$10,151,033	\$17,115,569	\$21,233,758	\$25,869,343	\$23,294,353	\$23,297,331	\$19,604,646	\$19,403,116	\$19,143,180	\$21,276,610	\$20,038,894	67.1%
PIKE	\$1,369,427	\$1,706,655	\$1,716,894	\$1,660,329	\$1,343,132	\$1,249,421	\$1,181,643	\$821,590	\$542,115	\$810,781	\$1,240,199	4.2%
SAUGER	\$3,169,641	\$4,698,706	\$3,825,328	\$2,354,620	\$3,361,548	\$3,530,979	\$2,736,849	\$1,839,584	\$971,695	\$480,267	\$2,696,922	9.0%
TROUT	\$58,800	\$46,705	\$42,881	\$25,648	\$37,910	\$29,403	\$32,123	\$32,689	\$38,543	\$30,496	\$37,520	0.1%
TULLIBEE	\$51,704	\$62,598	\$82,715	\$106,962	\$88,191	\$94,247	\$38,383	\$39,529	\$59,204	\$45,615	\$66,915	0.2%
WHITEFISH	\$2,218,786	\$2,702,503	\$2,986,947	\$4,362,298	\$3,710,568	\$3,567,203	\$3,561,346	\$2,974,871	\$2,638,837	\$2,492,307	\$3,121,567	10.4%
TOTAL	\$19,350,840	\$29,131,694	\$33,093,338	\$37,280,170	\$36,642,138	\$35,514,668	\$29,487,415	\$26,646,582	\$24,939,580	\$26,720,200	\$29,880,663	100.0%

TABLE 3. COMMERCIAL FISHING PRODUCTION AND VALUE BY REGION

YEAR	NORTHERN LAKES		LAKE WINNIPEG		LAKE MANITOBA		LAKE WINNIPEGOSIS		OTHER LAKES		TOTAL	
	WEIGHT (KGS)	VALUE (\$2008)	WEIGHT (KGS)	VALUE (\$2008)	WEIGHT (KGS)	VALUE (\$2008)	WEIGHT (KGS)	VALUE (\$2008)	WEIGHT (KGS)	VALUE (\$2008)	WEIGHT (KGS)	VALUE (\$2008)
1997/98	2,621,550	\$4,400,120	3,991,600	\$10,291,585	1,518,000	\$2,724,415	1,465,050	\$1,040,011	915,700	\$894,708	10,511,900	\$19,350,840
1998/99	2,761,800	\$5,298,321	4,825,600	\$17,195,461	1,734,450	\$2,782,578	2,106,550	\$2,304,992	775,000	\$1,550,342	12,203,400	\$29,131,694
1999/00	3,235,650	\$6,076,736	5,419,050	\$20,285,847	1,943,950	\$2,886,913	2,719,850	\$2,706,910	778,550	\$1,136,932	14,097,050	\$33,093,338
2000/01	3,318,650	\$6,538,726	6,217,850	\$23,766,826	2,342,400	\$3,319,084	2,753,550	\$2,336,492	892,250	\$1,319,042	15,524,700	\$37,280,170
2001/02	3,188,100	\$6,063,135	6,237,950	\$23,132,215	2,115,750	\$4,309,805	2,577,000	\$2,095,938	702,400	\$1,041,045	14,821,200	\$36,642,138
2002/03	3,260,350	\$6,428,500	6,204,150	\$23,359,939	2,286,850	\$3,217,213	2,681,150	\$1,583,535	661,250	\$925,480	15,093,750	\$35,514,668
2003/04	3,025,250	\$5,362,776	6,543,300	\$18,703,163	1,995,650	\$2,188,117	2,221,550	\$1,220,465	1,171,200	\$2,012,894	14,956,950	\$29,487,415
2004/05	2,813,900	\$4,630,760	6,380,100	\$18,013,910	1,362,650	\$1,127,586	1,079,350	\$906,894	1,113,800	\$1,967,432	12,749,800	\$26,646,582
2005/06	2,231,600	\$3,288,294	6,397,500	\$17,552,652	1,074,000	\$1,260,110	1,343,600	\$895,659	1,016,600	\$1,942,866	12,063,300	\$24,939,580
2006/07	2,294,400	\$4,011,635	6,355,550	\$18,212,498	1,211,950	\$1,620,431	1,228,900	\$942,638	1,110,450	\$1,932,998	12,201,250	\$26,720,200
AVERAGE	2,875,125	\$5,209,900	5,857,265	\$19,051,410	1,758,565	\$2,543,625	2,017,655	\$1,603,353	913,720	\$1,472,374	13,422,330	\$29,880,663
% OF TOTAL	21.4%	17.4%	43.6%	63.8%	13.1%	8.5%	15.0%	5.4%	6.8%	4.9%	100.0%	100.0%

TABLE 4. COMMERCIAL FISHING PRODUCTION BY SEASON

YEAR	PRODUCTION (KGS)											
	NORTHERN LAKES		LAKE WINNIPEG		LAKE MANITOBA		LAKE WINNIPEGOSIS		OTHER LAKES		TOTAL	
	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER
1997/98	2,159,350	462,200	3,636,300	355,300	219,700	1,298,300	347,750	1,117,300	335,950	579,750	6,699,050	3,812,850
1998/99	2,338,800	423,000	4,204,000	621,600	334,200	1,400,250	690,900	1,415,650	44,650	730,350	7,612,550	4,590,850
1999/00	2,860,850	374,800	4,736,600	682,450	632,100	1,311,850	979,300	1,740,550	114,200	664,350	9,323,050	4,774,000
2000/01	2,854,600	464,050	5,360,700	857,150	836,750	1,505,650	1,121,200	1,632,350	129,400	762,850	10,302,650	5,222,050
2001/02	2,619,450	568,650	5,192,000	1,045,950	647,050	1,468,700	1,271,600	1,305,400	119,750	582,650	9,849,850	4,971,350
2002/03	2,746,500	513,850	5,180,650	1,023,500	866,200	1,420,650	1,373,400	1,307,750	45,450	615,800	10,212,200	4,881,550
2003/04	2,417,900	607,350	5,201,750	1,341,550	874,400	1,121,250	1,214,500	1,007,050	726,850	444,350	10,435,400	4,521,550
2004/05	2,629,850	184,050	5,655,950	724,150	877,100	485,550	682,450	396,900	736,000	377,800	10,581,350	2,168,450
2005/06	2,077,100	154,500	5,701,950	695,550	296,750	777,250	713,650	629,950	528,000	488,600	9,317,450	2,745,850
2006/07	2,183,650	110,750	5,500,300	855,250	263,800	948,150	669,550	559,350	381,400	729,050	8,998,700	3,202,550
AVERAGE	2,488,805	386,320	5,037,020	820,245	584,805	1,173,760	906,430	1,111,225	316,165	597,555	9,333,225	4,089,105
% OF REGIONAL PRODUCTION	86.6%	13.4%	86.0%	14.0%	33.3%	66.7%	44.9%	55.1%	34.6%	65.4%	69.5%	30.5%
% OF SEASONAL PRODUCTION	26.7%	9.4%	54.0%	20.1%	6.3%	28.7%	9.7%	27.2%	3.4%	14.6%	100.0%	100.0%

TABLE 5. COMMERCIAL FISHING PRODUCTION (ROUND WEIGHTS KG) BY AREA AND TOTAL VALUE BY SPECIES, 2006-07

SPECIES	PRODUCTION (KGS)															
	NORTHERN LAKES		LAKE WINNIPEG		LAKE MANITOBA		LAKE WINNIPEGOSIS		OTHER LAKES ¹		TOTAL PRODUCTION			TOTAL VALUE ³		
	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	TOTAL	SUMMER	WINTER	TOTAL
BASS			13,500	2,100							13,500	2,100	15,600	\$7,050	\$1,450	\$8,500
CARP	150	50	87,400	54,950	201,100	101,950	18,550	25,350	15,850	29,400	323,050	211,700	534,750	\$124,850	\$93,950	\$218,800
CATFISH			Tr ²								Tr ²	0	0	Tr ²		Tr ²
GOLDEYE	2,700	50	37,200	4,800		Tr ²	Tr ²		100	Tr ²	40,000	4,850	44,850	\$81,450	\$10,900	\$92,350
MULLET	202,050	21,250	77,350	20,350	62,700	306,750	470,450	370,600	83,100	116,650	895,650	835,600	1,731,250	\$282,300	\$288,900	\$571,200
PERCH	450	50	9,700	6,950		181,950	50	2,800	200	4,100	10,400	195,850	206,250	\$32,850	\$616,500	\$649,350
PICKEREL	797,600	14,050	4,279,000	301,800		199,150	120,650	17,050	158,050	287,800	5,355,300	819,850	6,175,150	\$17,895,850	\$2,790,800	\$20,686,650
PIKE	535,800	46,550	68,550	18,150		151,650	41,950	130,100	107,850	221,050	754,150	567,500	1,321,650	\$451,550	\$336,750	\$788,300
SAUGER	9,950	1,100	107,400	42,100		2,900	Tr ²	Tr ²	200	150	117,550	46,250	163,800	\$335,350	\$131,600	\$466,950
TROUT	40,000										40,000		40,000	\$29,650		\$29,650
TULLIBEE	53,350	2,600	100							750	53,450	3,350	56,800	\$42,600	\$1,750	\$44,350
WHITEFISH	541,600	25,050	820,100	404,050		3,800	17,900	13,450	16,050	69,150	1,395,650	515,500	1,911,150	\$1,666,800	\$756,400	\$2,423,200
TOTAL	2,183,650	110,750	5,500,300	855,250	263,800	948,150	669,550	559,350	381,400	729,050	8,998,700	3,202,550	12,201,250	\$20,950,300	\$5,029,000	\$25,979,300

¹ INCLUDES CEDAR, CHITEK, CRAB, DAUPHIN, INLAND, LITTLE LIMESTONE, LITTLE STRONG, PELICAN, RED DEER, ST. MARTIN, SWAN, TAN, WATERHEN, WILLIAM

² SMALL AMOUNT

³ INCLUDES INITIAL AND FINAL PAYMENT (\$NOMINAL)

TABLE 6. COMMERCIAL FISHING EMPLOYMENT

YEAR	NORTHERN LAKES			LAKE WINNIPEG			LAKE MANITOBA		
	LICENSED FISHERMEN	HIRED HELPERS	TOTAL	LICENSED FISHERMEN	HIRED HELPERS	TOTAL	LICENSED FISHERMEN	HIRED HELPERS	TOTAL
1997/98	578	245	823	791	153	944	509	367	876
1998/99	475	157	632	786	152	938	520	368	888
1999/00	527	187	714	822	161	983	506	370	876
2000/01	525	169	694	883	176	1,059	491	357	848
2001/02	469	210	679	895	178	1,073	491	368	859
2002/03	505	233	738	913	182	1,095	479	359	838
2003/04	598	274	872	921	184	1,105	466	337	803
2004/05	699	174	873	910	182	1,092	442	320	762
2005/06	650	164	814	897	179	1,076	424	307	731
2006/07	604	152	756	891	178	1,069	401	291	692
AVERAGE	563	197	760	871	173	1,043	473	344	817

YEAR	LAKE WINNIPEGOSIS			OTHER LAKES			TOTAL		
	LICENSED FISHERMEN	HIRED HELPERS	TOTAL	LICENSED FISHERMEN	HIRED HELPERS	TOTAL	LICENSED FISHERMEN	HIRED HELPERS	TOTAL
1997/98	169	123	292	287	110	397	2,257	980	3,237
1998/99	172	135	307	191	116	307	2,079	911	2,990
1999/00	177	172	349	198	185	383	2,153	1,063	3,216
2000/01	175	168	343	237	138	375	2,228	996	3,224
2001/02	171	160	331	223	170	393	2,156	1,073	3,229
2002/03	176	165	341	212	59	271	2,204	982	3,186
2003/04	170	159	329	272	32	304	2,354	986	3,340
2004/05	161	151	312	270	55	325	2,404	868	3,272
2005/06	162	146	308	252	51	303	2,310	839	3,149
2006/07	172	153	325	208	42	250	2,206	804	3,010
AVERAGE	171	153	324	235	96	331	2,235	950	3,185

*NOTE: FISHERMEN FISHING MORE THAN ONE AREA OR WHO FISH BOTH AS HIRED MEN AND LICENCE HOLDERS ARE COUNTED ONLY ONCE IN "TOTAL" COLUMN. WHERE HIRED MAN AND LICENCE HOLDER DUPLICATION OCCURS, THE INDIVIDUAL IS COUNTED AS A LICENCE HOLDER. THEREFORE TABLE DOES NOT ADD HORIZONTALLY.

TABLE 7. AVERAGE INCOME PER FISHERMAN BY REGION

YEAR	NORTHERN LAKES		LAKE WINNIPEG		LAKE MANITOBA		LAKE WINNIPEGOSIS		OTHER LAKES		TOTAL	
	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN (\$2008)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN (\$2008)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN (\$2008)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN (\$2008)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN (\$2008)	NO. OF FISHERMEN	AVERAGE INCOME PER FISHERMAN (\$2008)
1997/98	823	\$5,346	944	\$10,902	876	\$3,110	292	\$3,562	397	\$2,254	3,237	\$5,978
1998/99	632	\$8,383	938	\$18,332	888	\$3,134	307	\$7,508	307	\$5,050	2,990	\$9,743
1999/00	714	\$8,511	983	\$20,637	876	\$3,296	349	\$7,756	383	\$2,968	3,216	\$10,290
2000/01	694	\$9,422	1,059	\$22,443	848	\$3,914	343	\$6,812	375	\$3,517	3,224	\$11,563
2001/02	679	\$8,930	1,073	\$21,558	859	\$5,017	331	\$6,332	393	\$2,649	3,229	\$11,348
2002/03	738	\$8,711	1,095	\$21,333	838	\$3,839	341	\$4,644	271	\$3,415	3,186	\$11,147
2003/04	872	\$6,150	1,105	\$16,926	803	\$2,725	329	\$3,710	304	\$6,621	3,340	\$8,829
2004/05	873	\$5,304	1,092	\$16,496	762	\$1,480	312	\$2,907	325	\$6,054	3,272	\$8,144
2005/06	814	\$4,040	1,076	\$16,313	731	\$1,724	308	\$2,908	303	\$6,412	3,149	\$7,920
2006/07	756	\$5,306	1,069	\$17,037	692	\$2,342	325	\$2,900	250	\$7,732	3,010	\$8,877
AVERAGE	760	\$6,860	1,043	\$18,259	817	\$3,112	324	\$4,953	331	\$4,451	3,185	\$9,381

*NOTE: NO. OF FISHERMEN INCLUDES LICENSED FISHERMEN PLUS HIRED HELP