Assiniboine River Juvenile Lake Sturgeon Population Inventory Fall 2022

Manitoba Natural Resources
and Northern Development
2022

Introduction

Lake sturgeon (Acipenser fulvescens) were once plentiful in the Assiniboine/Red River (and Lake Winnipeg) system, but are believed to have been historically extirpated with over-harvest suspected to be a critical factor (Cleator et al. 2010). COSEWIC (2017) summarized that abundance of both adults and juveniles was unknown within the upper Assiniboine River (upstream of the Portage Diversion). In an attempt to recover the population, Manitoba Fisheries Branch stocked over 12000 fingerlings and 4000 fry into the Assiniboine River from 1996 to 2008, an additional 15000 fry in 2013 and 33 sub-adults in 2015.

Lake sturgeon captures are now frequently reported by anglers, with some exceeding the Master Angler length requirement of 109 cm (43 inches), and the largest measuring 148.08 cm (58.3 inches). Manitoba Fisheries Branch reports that lake sturgeon are currently known to be present as far upstream the Assiniboine River as Shellmouth Dam and are also known to occur in the Qu'Appelle River and Little Saskatchewan River as far upstream as Rivers Dam. The Shellmouth Dam (constructed for flood protection and water supply) prevents upstream movement into the upper reaches of the Assiniboine, while Brandon's 3rd Street Dam (constructed to maintain water levels) may be a barrier during low water conditions (MCWS 2012).

ASSINIBOINE RIVER LAKE STURGEON STOCKING PROGRAM	
2015	17 Adult (>30cm)
2015	16 Adult (>30cm)
2013	2,500 Fry
2013	2,500 Fry
2013	2,500 Fry
2013	2,500 Fry
2013	2,500 Fry
2013	2,500 Fry
2008	7,900 Fingerling
2006	5 Adult (>30cm)
2004	55 Adult (>30cm)
2003	160 (12-15cm)
2002	2,000 Fry
2001	156 (12-15cm)
2000	1,000 (12-15cm)
2000	2,000 Fry
1999	1,000 Fry
1997	1,000 (12-15cm)
1996	1,000 Fingerling

Given the duration of the stocking program and the size of the lake sturgeon caught by anglers on the Assiniboine River, it is possible that some of the lake sturgeon stocked into the Assiniboine River have reached sexual maturity. A juvenile lake sturgeon assessment conducted in the fall of 2022 would begin to address the question of whether the lake sturgeon stocked in the Assiniboine River between 1996 and 2015 have reached sexual maturity and whether there is natural recruitment now occurring in the Assiniboine River. Manitoba Fisheries Branch and Manitoba Hydro share the desire to gain a better understanding of the lake sturgeon population dynamics within the Assiniboine River and the natural spawning and recruitment of the population. With the assistance of North/South Consultants, and joint efforts between Manitoba Hydro and Manitoba Fisheries Branch, a juvenile lake sturgeon inventory was conducted in the fall of 2022.

Overview

The 2022 Assiniboine River Juvenile Lake Sturgeon Inventory occurred between Sept. 19, 2022 and Sept. 28, 2022. Capture methods included gill net and set line sets targeting juvenile lake sturgeon. 59 total gillnets were set, resulting in an average catch-per-unit-effort (CPUE = # fish/ (net length/100m)/ (set duration/24 hrs)) of 17.11. The Deerboine reach had the highest CPUE at an average of 32.24 while the Virden reach had the lowest with an average of 10.30.

Reach	Net Sets	CPUE
Virden	15	10.30
Miniota	10	10.59
Deerboine	8	32.24
Little Saskatchewan	2	32.20
St. Lazare	24	17.80
Total	59	17.11

A total of 442 fish (1 LKST recap) consisting of 16 species were captured with walleye (Sander vitreus) resulting in 26.3% of total catch, channel catfish (Ictalurus punctatus) resulting in 22.45% of total catch, and shorthead redhorse (Maxostama macrolepidotum) resulting in 16.1% of total catch. 4 lake sturgeon (Acipenser fulvescens; LKST) were captured near the Qu'Appelle River confluence ranging from 724-864mm, (including 1 additional recapture) with ages ranging from 6-8 years old.

Study Area

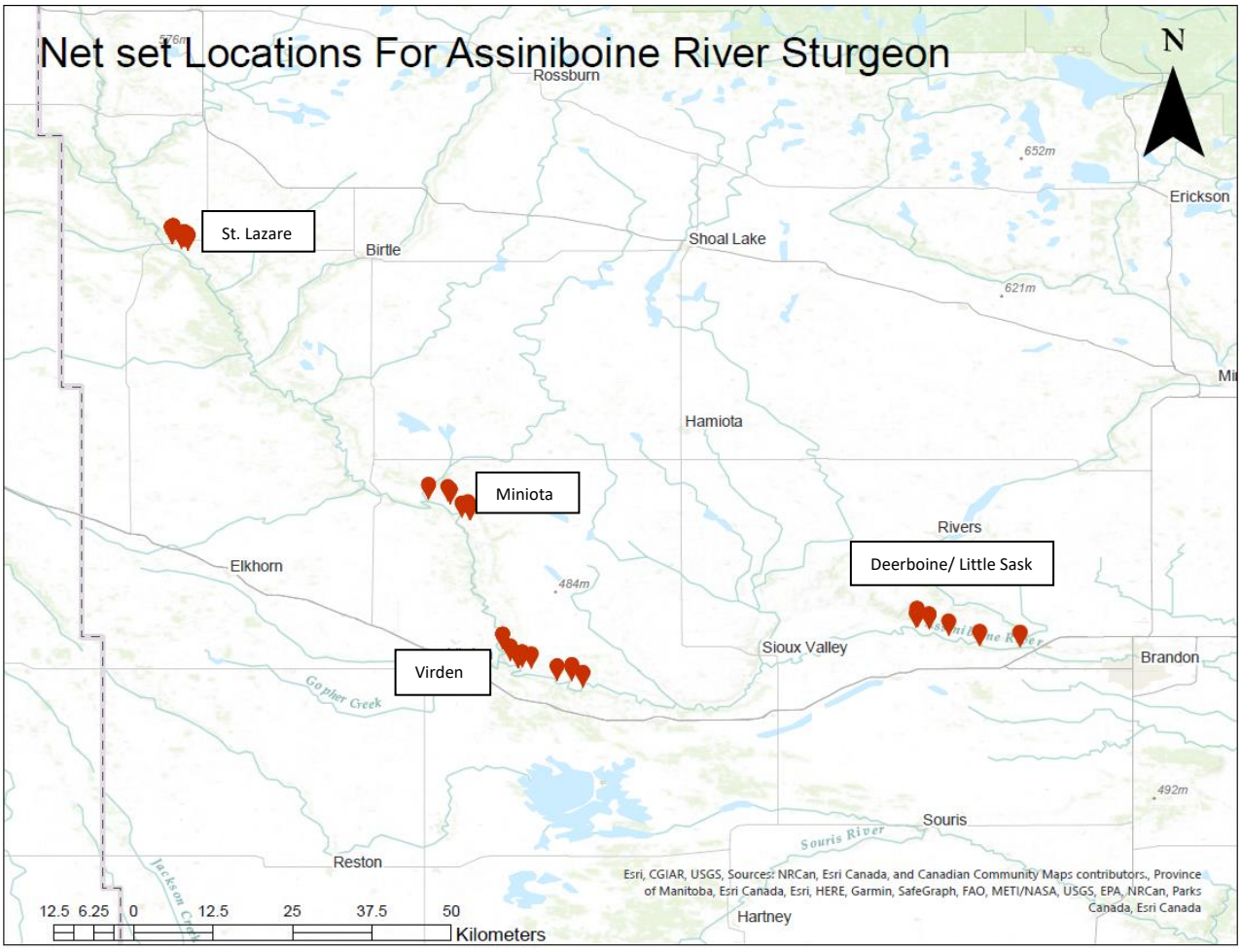


Figure 1. Map of project area.

Figure 2. Map of Little Saskatchewan and Deerboine Colony net set locations.

Figure 3. Map of Virden net set locations.

Figure 4. Map of Miniota net set locations.

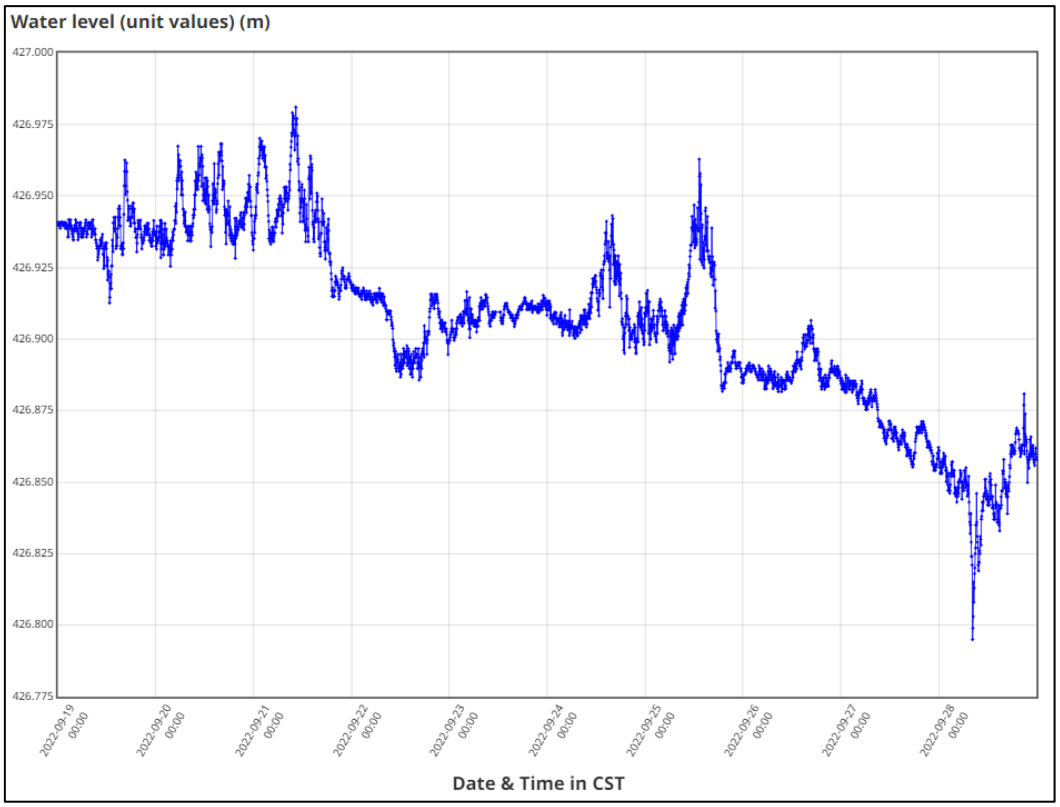
Figure 5. Map of St. Lazare net set locations.

Methods

Physical Monitoring

North/South Consultants provided 2014 bathymetric data collected for Manitoba Hydro from the Little Saskatchewan confluence, upstream to the Qu'Appelle River confluence. Approximate netting and set line locations were determined based on the 2014 bathymetric data, then precise set locations were selected in field by fisheries biologists based on site-by-site depth profile, substrate characteristics and debris density. Characteristics of targeted sites consisted of depths >7ft or areas determined to be "holes" in stretches consisting of little bathymetric variation.

All sampling sites were recorded using a Lowrance Fishfinder or Garmin GPSmap 76CSx handheld receivers. Depth and temperature data were recorded using a Lowrance Fishfinder or handheld depth sounder and handheld thermometers. Daily water level and discharge data was retrieved from the Water Survey of Canada gauging station records (Government of Canada) for Lake of the Prairies near Shellmouth (05MD009).



Fish Capture

Sampling for juvenile lake sturgeon during the 2022 Assiniboine River Juvenile Lake Sturgeon Inventory utilized two capture methods. Non-lethal gill net sampling efforts consisted of two panels (76mm and 152mm (3” and 6”) or 51mm and 127mm (2” and 5”)), each measuring 22.9m long by 1.8m deep, where set locations allowed for 2 mesh gangs to be deployed. In holes or areas of interest <30m in length, a single panel net was deployed. Gill nets were set for a targeted effort of 20 hours.

The second capture method was through the use of bottom set set-lines. Set lining is a proven method of lake sturgeon capture used across North America both to supplement netting data and to target areas where a gill net was unable to be set. A set line consists of a 25m nylon rope (main line) connecting two anchors and respective floats. Each set line was equipped with 8-12 octopus hooks (number 5/0) baited with night crawlers and tied to braided fishing line and clipped to the nylon rope using a slip clip. With the main line stretched between anchors, the baited lines drift freely in the current, avoiding entanglement.

Biological Sampling

Lake Sturgeon Sampling

Lake sturgeon were held in live-wells prior to sampling and then subsequently released in close proximity to their location of capture. Lake sturgeon were enumerated by net set, location, date and time, measured for fork length (mm), total length (mm) and weighed for round weight (g). Ageing structures were collected from each lake sturgeon

upon initial capture. The leading ray of each specimens left pectoral fin was removed by clipping just above where the fin meets the body, and removing the ray from the fin. Fin clippings were allowed to dry before being sealed in envelopes for further analysis.

By-Catch Sampling

All incidental by-catch species captured throughout the 2022 Fall Juvenile Lake Sturgeon Inventory were identified to species, enumerated by net set, location, date and time, measured for fork length (mm) and weighed for round weight (g). Otoliths were collected from deceased walleye, and dorsal spines were collected from living walleye. Cleithra from deceased northern pike were also collected. All living fish were released back into the Assiniboine River at their point of initial capture. Ageing structures were allowed to dry before being sealed in envelopes for further analysis.

Tagging

Floy and PIT Tags

Captured lake sturgeon were affixed with a white T-Bar style FD-94 Floy Tag (Floy-Tag & Manufacturing, Inc., Seattle, WA, USA) numbered 1526 to 1530 with inscription “Fisheries.” Floy tags were administered using “Mark III” tagging guns, by Avery Dennison. Lake sturgeon were also tagged with a passive internal transponder (PIT) tag under the third dorsal scute of each specimen. Biologists used Grip Injector tagging guns with corresponding needle size per the tag requirements. Once PIT tags were injected under the third dorsal scute of each specimen, biologists utilized a PIT tag reader to gather tag identification data.

Results

59 gill net sets totalling 1310.7 hours and 19 set line sets totaling 411.28 hours resulted in a grand total of 1722.08 hours of total effort during the fall program of 2022.

Table 1. Total effort by gear type and reach.

Gill Nets (59 Total)		Set Lines (19 Total)		Total Effort (Hours)
St. Lazare	528.17	St. Lazare	273.43	801.59
Little Saskatchewan	37.37	Little Saskatchewan	0	37.37
Deerboine	197.55	Deerboine	0	197.55
Miniota	231.38	Miniota	18.63	250.02
Virden	316.23	Virden	119.32	435.55
	1310.7		411.38	1722.08

A total of 442 fish (1 LKST recapture) consisting of 16 species were capture during the 2022 Assiniboine River Juvenile Lake Sturgeon Inventory. All lake sturgeon captured were in the St. Lazare reach within close proximity of the Qu'Appelle River confluence. Lake sturgeon fork lengths ranged from 654 mm to 770 mm and aged between 6 and 8 years of age.

Table 2. Biological data and tag information for lake sturgeon captured during 2022 fall program.

Date	Site Location	Gang	Mesh	ID	FL (mm)	TL (mm)	Weight (g)	k	Floy #	PIT #	Age
2022-09-24	St. Lazare	S-GN-07	5	15	654	724	2000	0.714985	1526	767791	7
2022-09-24	St. Lazare	S-GN-07	5	16	680	762	1817	0.577867	1528	767721	6
2022-09-26	St. Lazare	S-GN-03	6	102	764	840	2800	0.627882	1529	767720	8
2022-09-27	St. Lazare	S-GN-12	6	104	770	864	3250	0.711887	1530	767715	8

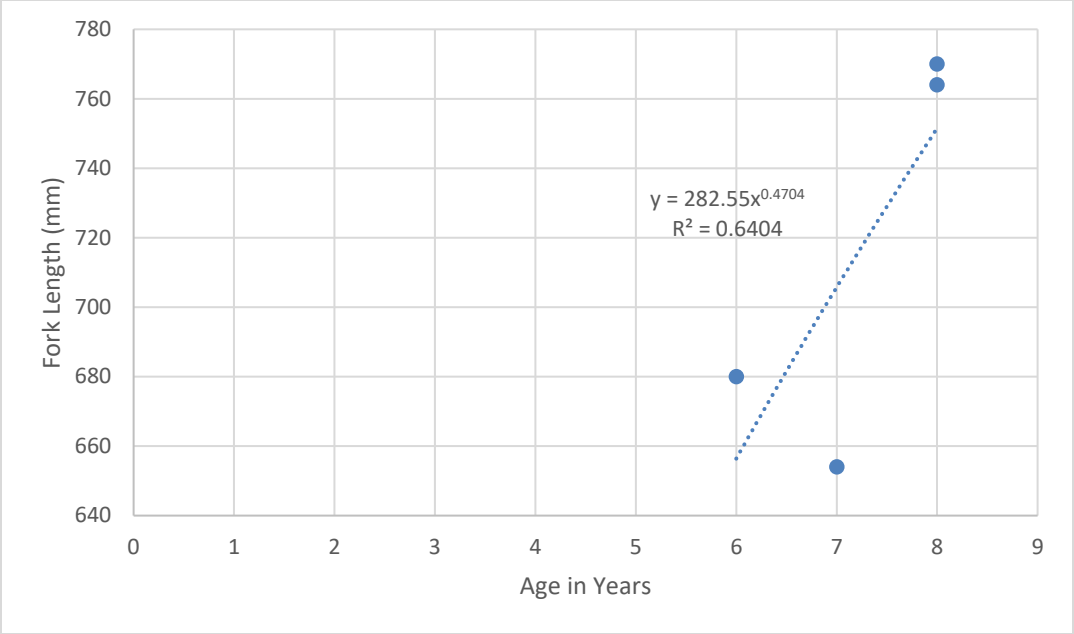


Figure 6. Length at age relationship for lake sturgeon captured during the fall 2022 program.

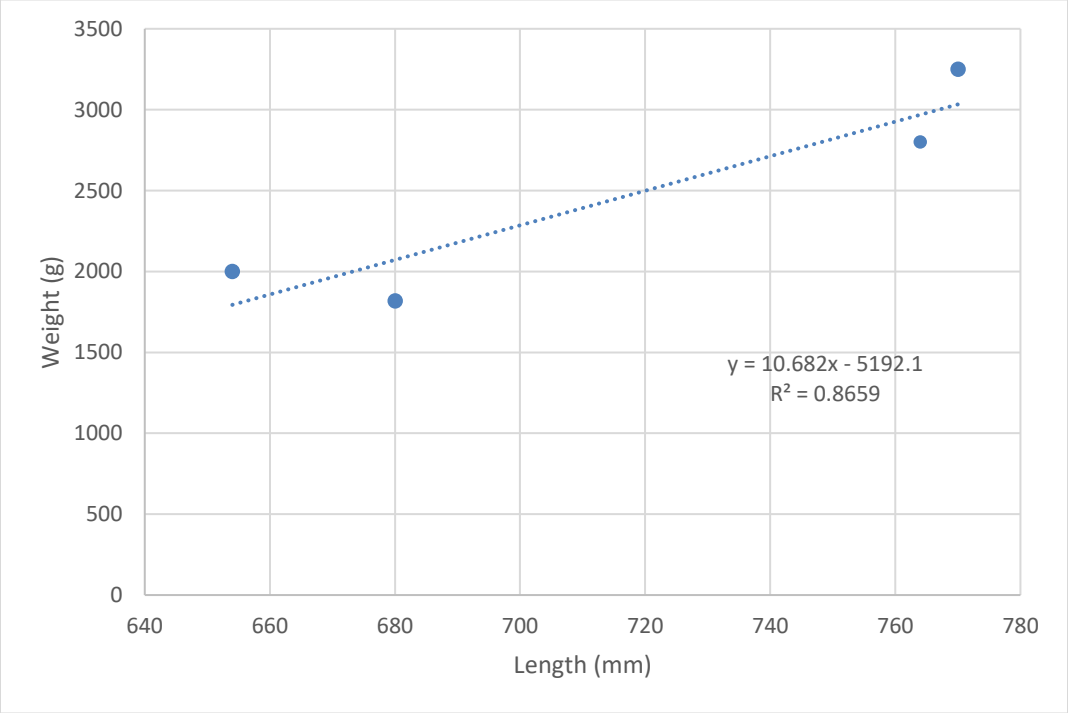


Figure 7. Length-weight regression of lake sturgeon captured during the fall 2022 program.

In addition to 4 lake sturgeon (*Acipenser fulvescens*; LKST), gill net and set line efforts resulted in fifteen other species being captured. The most abundant by-catch species included walleye (*Sander vitreus*; WALL) resulting in 26.3% of total catch, channel catfish (*Ictalurus punctatus*; CCAT) resulting in 22.45% of total catch, and shorthead redhorse (*Maxostama macrolepidotum*; SHRD) resulting in 16.1% of total catch. Other by-catch species captured include brown bullhead (*Ameiurus nebulosus*; BRBH), common carp (*Cyprinus carpio*; CARP), chestnut lamprey (*Ichthyomyzon castaneus*; CHLM), flathead chub (*Platygobio gracilis*; FLCH), mooneye (*Hiodon tergisus*; MOON), northern pike (*Esox lucius*; NRPK), quillback (*Carpiodes cyprinus*; QUIL), rock bass (*Ambloplites rupestris*; RCBS), sauger (*Sander canadensis*; SAUG), silver redhorse (*Moxostoma anisurum*; SLRD), white sucker (*Catostomus commersonii*; WHSC), and *yellow bullhead (Amieurus natalis; YLBH).*

Table 3. Species composition of 2022 fall program by total catch %.

Species	Scientific Name	ID Code	Total (n)	Total (%)
Brown Bullhead	*Ameiurus nebulosus*	BRBH	1	0.23%
Common Carp	*Cyprinus carpio*	CARP	7	1.59%
Channel Catfish	*Ictalurus punctatus*	CCAT	99	22.45%
Chestnut Lamprey	*Ichthyomyzon castaneus*	CHLM	1	0.23%
Flathead Chub	*Platygobio gracilis*	FLCH	2	0.45%
Lake Sturgeon	*Acipenser fulvescens*	LKST	5	1.13%
Mooneye	*Hiodon tergisus*	MOON	9	2.04%
Northern Pike	*Esox lucius*	NRPK	11	2.49%
Quillback	*Carpiodes cyprinus*	QUIL	6	1.36%
Rock Bass	*Ambloplites rupestris*	RCBS	32	7.26%
Sauger	*Sander canadensis*	SAUG	39	8.84%
Shorthead Redhorse	*Maxostama macrolepidotum*	SHRD	71	16.10%
Silver Redhorse	*Moxostoma anisurum*	SLRD	33	4.08%
Walleye	*Sander vitreus*	WALL	116	26.30%
White Sucker	*Catostomus commersonii*	WHSC	8	1.81%
Yellow Bullhead	*Amieurus natalis*	YLBH	1	0.23%
Total			441	100%

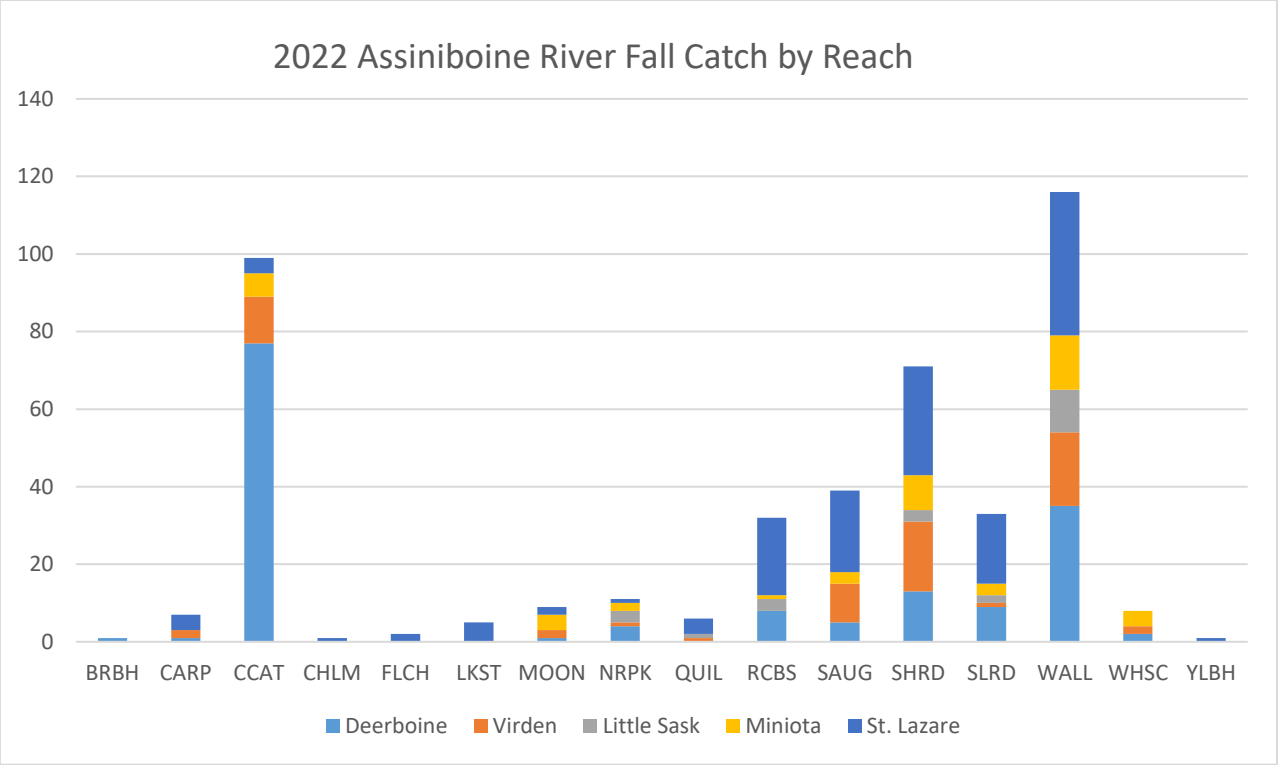


Figure 8. Species abundance distribution by reach of 2022 fall program.

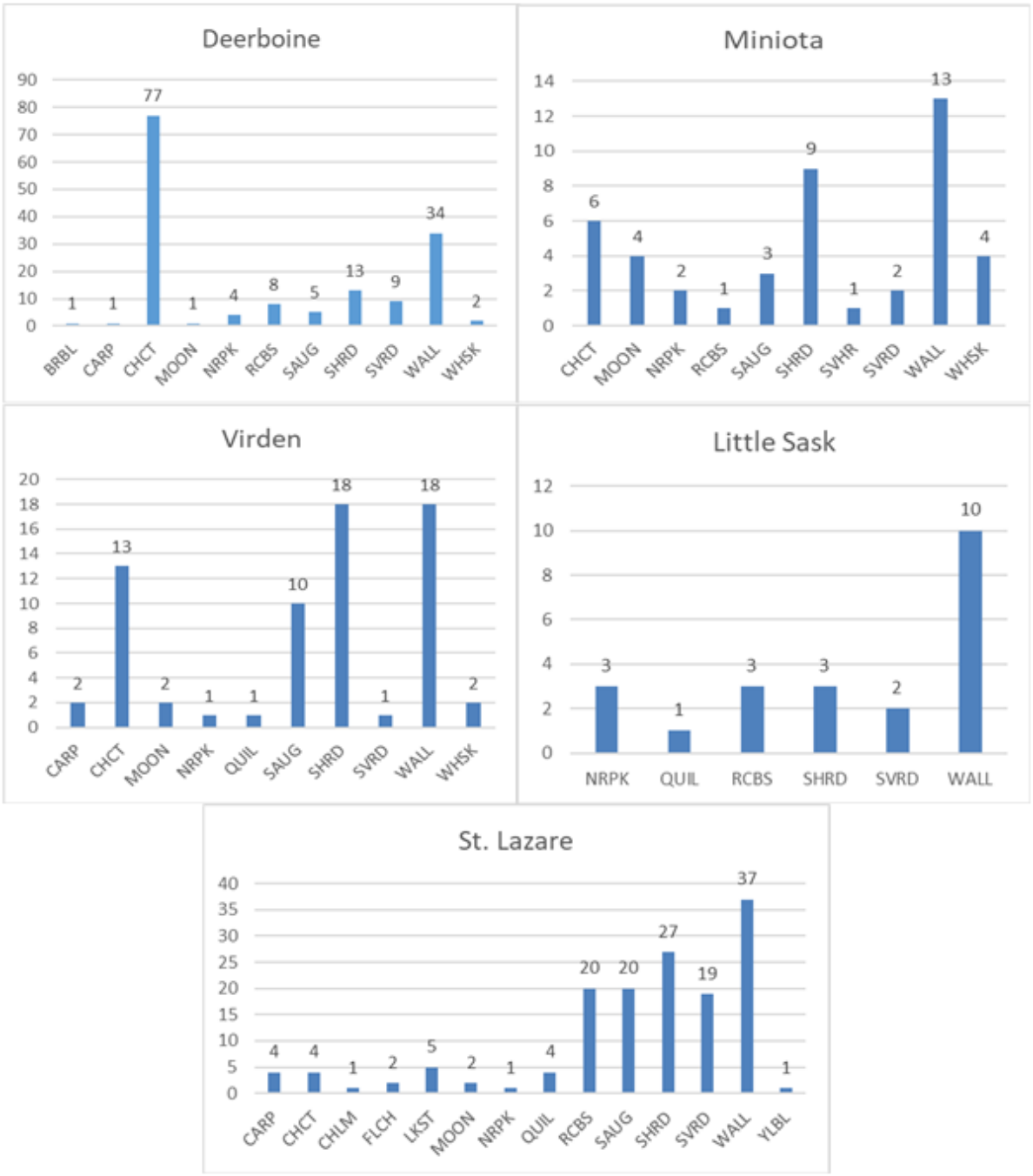


Figure 9. Species composition of 2022 fall program by reach.

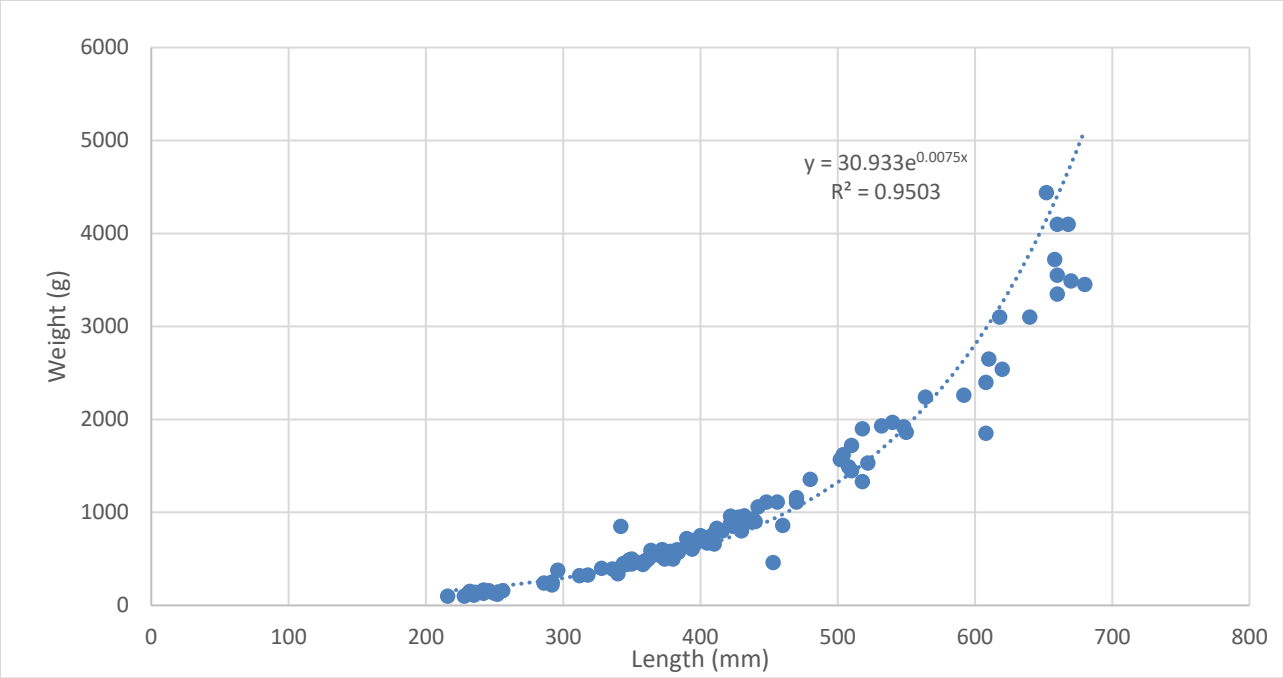


Figure 10. Length-weight regression of walleye captured in the Assiniboine River during the fall 2022 program.

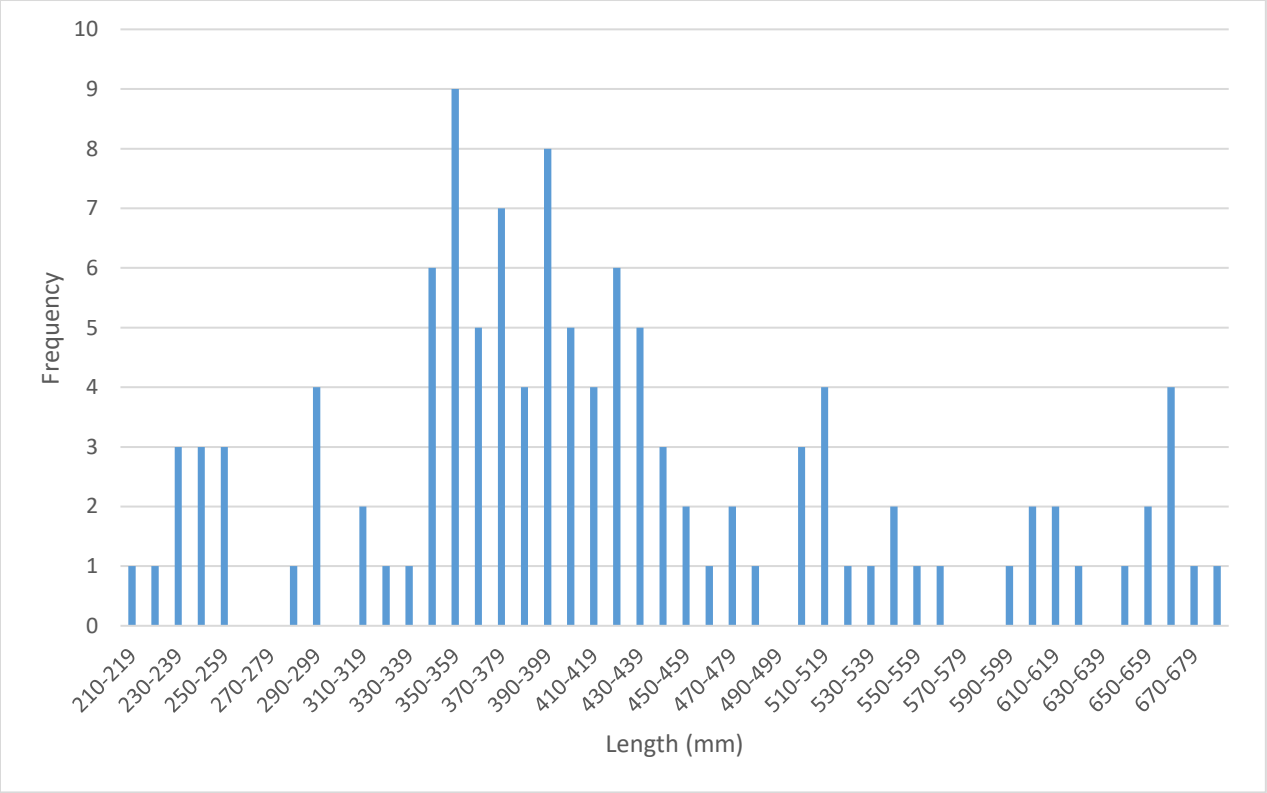


Figure 11. Length frequency distribution of Assiniboine River walleye captured during the fall 2022 program.

Master Angler Results

Travel Manitoba's Master Angler (MA) Program offers valuable information to help assess fisheries performance and a waterbodies' ability to produce large fish. Many factors affect the number of fish reported in the program: increased knowledge of the program, ease of reporting, the minimum size standard; and the number of trophy fish in a population, their catchability, and the amount of effort directed at those fish. The MA size standard for lake sturgeon is 109cm (43 inch).

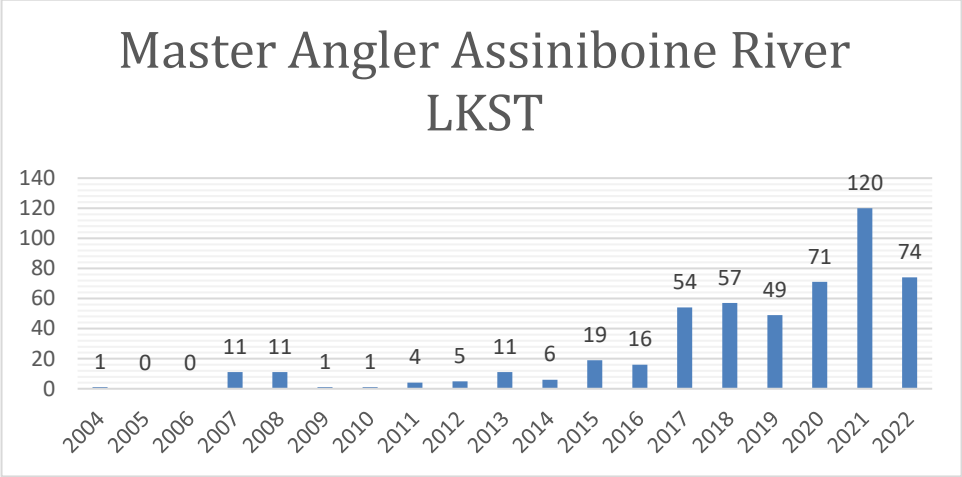


Figure 12. Master Angler lake sturgeon caught on the Assiniboine River from 2004-2022.

Figure 13. Angler Riley Harrison with a Master Angler lake sturgeon caught on the Assiniboine River near Brandon. Photo Credit: Riley Harrison

Summary

The following points summarize the 2022 Assiniboine River Juvenile Lake Sturgeon Inventory conducted by Manitoba Fisheries Branch and Manitoba Hydro through professional expertise provided by North/South Consultants. This program investigated the Assiniboine River from the confluence of the Little Saskatchewan River, upstream to the confluence of the Qu'Appelle River.

- 59 gill net sets totalling 1310.7 hours and 19 set line sets totaling 411.38 hours resulted in a grand total of 1722.08 hours of total effort during the fall program of 2022.
- Lake sturgeon were the 12th most abundant species captured, with 4 lake sturgeon captured, resulting in 1.13% of the total catch.
- Lake Sturgeon were only captured during investigations of the St. Lazare (Qu'Appelle River) reach. The reaches identified as Little Saskatchewan, Deerboine, Virden and Miniota did not prove successful in capturing juvenile lake sturgeon.
- Four juvenile lake sturgeon were captured near the Qu'Appelle River confluence, just outside of St. Lazare. The four juvenile sturgeon captured at this reach were determined to consist of three cohorts (2014, 2015 and 2016 year classes.)
- Although evidence suggests that lake sturgeon may be successfully spawning in the Assiniboine River, further assessment work must be conducted to confirm the success of their natural recruitment.

- The lake sturgeon captured ranged in fork length of 654mm to 770 mm and ages ranged from 6 to 8 years of age, with all lake sturgeon being captured in either 127mm (5”) or 152mm (6”) mesh.
- Lake sturgeon with Floy tag #1526 was originally tagged on September 24th and recaptured September 25th, in the same location.
- The most abundant by-catch species included walleye (Sander vitreus; WALL) resulting in 26.3% of total catch, channel catfish (Ictalurus punctatus; CCAT) resulting in 22.45% of total catch, and shorthead redhorse (Maxostama macrolepidotum; SHRD) resulting in 16.1% of total catch.

At the time of study, approximately 200cfs (cubic feet per second) of water was being released from Shellmouth Dam. Fisheries Branch has determined that 200cfs may be the lowest allowable level in order to conduct similar assessments on the Assiniboine River. Any less water may cause greater difficulties in accessing the river and specific netting sites, mobility once on the river and will present an increased risk of incidents with debris.

The 2022 Assiniboine River Juvenile Lake Sturgeon Inventory identified an area in which juvenile lake sturgeon were found, consisting of three cohorts. Beyond identifying juvenile lake sturgeon presence, a strong species abundance structure was developed for the Assiniboine River which will aid in future decisions regarding the Assiniboine River fishery and ongoing lake sturgeon assessments. The protocol used during this assessment proved successful and will be used and replicated to assess the same reaches and to expand efforts moving forward.

References

Cleator, H., K.A. Martin, T.C. Pratt, B. Bruderlin, M. Erickson, J. Hunt, D. Kroeker, D. Leroux, L. Skitt and D. Watkinson. (2010). *Information relevant to a recovery potential assessment of Lake Sturgeon: Red- Assiniboine rivers – Lake Winnipeg populations (DU4). DFO Canadian Science Advisory Secretariat Document 2010.*

COSEWIC. 2017. *COSEWIC assessment and status report on the Lake Sturgeon Acipenser fulvescens, Western Hudson Bay populations, Saskatchewan- Nelson River populations, Southern Hudson Bay – James Bay populations and Great Lakes- Upper St. Lawrence populations in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa.*

Manitoba Conservation and Water Stewardship Annual Report (2012).

Appendix

Table A1: *Raw net set data for 2022 Assiniboine River Juvenile Lake Sturgeon Inventory.*

Set ID	Date Set	Time Set	Date Pulled	Time Pulled	Effort (Hours)	Mesh (in)	Depth (m)
V-GN-01	2022-09-19	18:11	2022-09-20	13:53	19.700	3,6	3.2-3.3
V-GN-02	2022-09-19	18:38	2022-09-20	14:00	19.367	5,2	3.7-2.9
V-GN-03	2022-09-19	19:11	2022-09-20	14:10	18.817	6,3	1.9-2.8
V-SET-01	2022-09-19	18:51	2022-09-20	14:20	19.483	-	2.7-2.6
V-GN-04	2022-09-20	14:10	2022-09-21	10:10	20.000	6,3	2.8-2.5
V-GN-05	2022-09-20	14:40	2022-09-21	10:56	20.267	2,5	2.6-3.3
V-GN-06	2022-09-20	15:39	2022-09-21	12:10	20.517	2,5	3-2.5
V-SET-02	2022-09-20	17:02	2022-09-21	10:32	17.500	-	2.8-2.7
V-GN-06	2022-09-21	12:20	2022-09-22	10:20	22.000	2,5	3-2.5
V-GN-07	2022-09-21	12:55	2022-09-22	11:00	22.083	6,3	5.-5
V-GN-08	2022-09-21	14:45	2022-09-22	12:40	21.917	-	4.4-4.2
V-SET-03	2022-09-21	15:11	2022-09-22	12:30	21.317	-	2.9-4.3
V-SET-04	2022-09-21	16:05	2022-09-22	11:50	19.750	-	3.7-5.1
V-GN-03	2022-09-20	14:15	2022-09-21	10:27	20.200	3,6	1.9-2.8
V-SET-01	2022-09-20	14:30	2022-09-21	10:38	20.133	-	2.7-2.6
V-GN-09	2022-09-20	15:20	2022-09-21	11:45	20.417	6,3	3.1-3.6
V-GN-10	2022-09-20	13:50	2022-09-21	13:35	23.750	5,2	3.2-3.6
V-GN-03	2022-09-21	10:37	2022-09-22	9:40	23.050	3,6	1.9-2.8
V-GN-09	2022-09-21	12:06	2022-09-22	10:20	22.233	6,3	3.1-3.6
V-GN-10	2022-09-21	13:45	2022-09-22	11:40	21.917	5,2	3.2-3.6
V-SET-05	2022-09-21	14:12	2022-09-22	11:20	21.133	-	4.3-4.3
M-GN-01	2022-09-22	11:45	2022-09-23	13:15	25.500	5,2	7.5- 6.5 ft
M-GN-02	2022-09-22	12:30	2022-09-23	14:13	25.717	6,3	9.8-11.5 ft
M-GN-03	2022-09-22	13:20	2022-09-23	15:15	25.917	6,3	11.5- 13 ft
M-GN-04	2022-09-22	13:45	2022-09-23	15:40	25.917	5,2	9.8-10.2 ft
M-GN-01	2022-09-23	13:35	2022-09-24	10:50	21.250	5,2	7.5- 6.5 ft
M-GN-05	2022-09-23	13:40	2022-09-24	11:00	21.333	3,6	1.5-1.6
M-GN-02	2022-09-23	14:35	2022-09-24	14:06	23.517	6,3	9.8-11.5 ft
M-GN-04	2022-09-23	15:45	2022-09-24	12:44	20.983	5,2	9.8-10.2 ft
M-GN-06	2022-09-23	15:50	2022-09-24	12:30	20.667	6,3	3.2-2.9
M-GN-07	2022-09-23	16:30	2022-09-24	13:05	20.583	5,2	1.8-.6
M-SET-01	2022-09-23	16:50	2022-09-24	11:28	18.633	-	3.8-3.7
D-GN-01	2022-09-25	12:20	2022-09-26	16:48	28.467	6,3	4.3-3.8
D-GN-02	2022-09-25	12:32	2022-09-26	16:10	27.633	2,5	4.2-4.8
D-GN-03	2022-09-25	12:40	2022-09-26	15:43	27.050	2,5	5.8-4.2
D-GN-04	2022-09-25	12:52	2022-09-26	14:18	25.433	3,6,2,5	5.6-3.8
D-GN-05	2022-09-26	13:45	2022-09-27	11:40	21.917	2,5,3,6	4.6-3
D-GN-04	2022-09-26	15:30	2022-09-27	13:38	22.133	3,6,2,5	5.6-3.8

D-GN-03	2022-09-26	16:04	2022-09-27	14:35	22.517	2,5	5.8-4.2
D-GN-02	2022-09-26	16:30	2022-09-27	14:54	22.400	2,5	4.2-4.8
LS-GN-01	2022-09-27	17:40	2022-09-28	11:45	18.083	2,5	5.8-3
LS-GN-02	2022-09-27	17:58	2022-09-28	13:15	19.283	3,6	3.2-3.7
S-SET-01	2022-09-23	15:25	2022-09-24	13:45	22.333	-	1.8-1.8
S-SET-02	2022-09-23	15:40	2022-09-24	13:20	21.667	-	1.8-2.3
S-GN-03	2022-09-23	15:33	2022-09-24	15:33	24.000	3,6	4.1-2.7
S-SET-03	2022-09-23	16:20	2022-09-24	15:07	22.783	-	2.9-3.3
S-GN-04	2022-09-23	16:36	2022-09-24	14:40	22.067	2,5	2.2-2.3
S-GN-05	2022-09-23	16:56	2022-09-24	14:20	21.400	5,2	3.7-4
S-GN-06	2022-09-23	16:00	2022-09-24	11:37	19.617	2 only	5.9-2
S-GN-07	2022-09-23	16:51	2022-09-24	12:05	19.233	5 only	6.2-3
S-SET-04	2022-09-23	17:10	2022-09-24	12:40	19.500	-	3-2.5
S-GN-06	2022-09-24	12:00	2022-09-25	13:15	25.250	2 only	5.9-2
S-GN-07	2022-09-24	12:30	2022-09-25	13:30	25.000	5 only	6.2-3
S-SET-05	2022-09-24	13:10	2022-09-25	14:30	25.333	-	4-2.8
S-SET-02	2022-09-24	13:30	2022-09-25	14:50	25.333	-	-
S-SET-01	2022-09-24	13:45	2022-09-25	15:10	25.417	-	-
S-GN-03	2022-09-24	14:48	2022-09-25	16:45	25.950	3,6	4.1-2.7
S-SET-03	2022-09-24	15:21	2022-09-25	16:30	25.150	-	2.9-3.3
S-GN-04	2022-09-24	14:45	2022-09-25	16:10	25.417	2,5	2.2-2.3
S-GN-05	2022-09-24	14:31	2022-09-25	15:50	25.317	5,2	3.7-4
S-GN-06	2022-09-25	13:25	2022-09-26	11:25	22.000	2 only	5.9-2
S-GN-07	2022-09-25	13:40	2022-09-26	12:10	22.500	5 only	6.2-3
S-SET-06	2022-09-25	14:40	2022-09-26	12:20	21.667	5 only	6.2-3
S-SET-02	2022-09-25	15:00	2022-09-26	12:30	21.500	-	-
S-SET-01	2022-09-25	15:30	2022-09-26	12:50	21.333	-	-
S-GN-05	2022-09-25	16:00	2022-09-26	13:15	21.250	5,2	3.7-4
S-GN-04	2022-09-25	16:20	2022-09-26	13:40	21.333	2,5	2.2-2.3
S-GN-03	2022-09-25	16:55	2022-09-26	14:15	21.333	3,6	4.1-2.7
S-SET-03	2022-09-25	16:35	2022-09-26	14:00	21.417	-	2.9-3.3
S-GN-08	2022-09-26	16:30	2022-09-27	11:55	19.417	3 only	3.1-2.5
S-GN-09	2022-09-26	16:40	2022-09-27	13:10	20.500	3,6	4.2-2.4
S-GN-10	2022-09-26	17:50	2022-09-27	13:30	19.667	2,5	2.8-4.5
S-GN-11	2022-09-26	18:10	2022-09-27	10:10	16.000	2,5	5.7-4
S-GN-12	2022-09-26	18:20	2022-09-27	10:25	16.083	6,3	4-3.5
S-GN-11	2022-09-27	10:45	2022-09-28	10:40	23.917	2,5	5.7-4
S-GN-12	2022-09-27	10:50	2022-09-28	11:20	24.500	6,3	4-3.5
S-GN-09	2022-09-27	13:25	2022-09-28	12:10	22.750	3,6	4.2-2.4
S-GN-10	2022-09-27	14:05	2022-09-28	13:45	23.667	2,5	2.8-4.5

Table A2. *Catch-per-unit-effort data for gill net sets- 2022 Assiniboine River Juvenile Lake Sturgeon Inventory.*

Net ID	Date Pulled	Effort	Catch	Total	CPUE
V-GN-01	2022-09-20	19.70	1 SHRD	1	2.70
V-GN-02	2022-09-20	19.37	1 WALL, 1 SHRD	2	5.45
V-GN-03	2022-09-20	18.82	1 CARP, 1 WALL	2	5.67
V-GN-04	2022-09-21	20.00	1 SAUG, 1 WALL, 2 SHRD	4	10.48
V-GN-05	2022-09-21	20.27	3 WALL, 1 SAUG, 4 SHRD	8	20.79
V-GN-06	2022-09-21	20.52	2 WALL	2	5.16
V-GN-06	2022-09-22	22.00	1 SAUG, 1 WALL	2	4.76
V-GN-07	2022-09-22	22.08	5 CHCT, 4 WALL, 2 SHRD	11	26.14
V-GN-08	2022-09-22	21.92	2 SAUG	2	4.86
V-GN-03	2022-09-21	20.20	-	0	0.00
V-GN-09	2022-09-21	20.42	3 SHRD, 1 WHSK, 2 CHCT, 2 WALL, 1 SAUG, 1 MOON	10	25.88
V-GN-10	2022-09-21	23.75	1 CHCT, 1 SAUG	2	4.47
V-GN-03	2022-09-22	23.05	1 SAUG, 1 SHRD	2	4.55
V-GN-09	2022-09-22	22.23	1 CARP, 1 WHSK, 1 NRPK, 1 QUIL, 1 SLRD, 1 MOON, 1 CHCT, 2 WALL	8	18.93
V-GN-10	2022-09-22	21.92	1 CHCT, 2 SHRD, 2 WALL, 1 SAUG	6	14.59
M-GN-01	2022-09-23	25.50	2 CHCT, 1 SHRD	3	6.21
M-GN-02	2022-09-23	25.72	3 SHRD, 2 MOON, 2 CHCT, 2 WALL, 1 WHSK,	10	20.61
M-GN-03	2022-09-23	25.92	3 WALL, 1 SAUG	4	8.20
M-GN-04	2022-09-23	25.92	-	0	0.00
M-GN-01	2022-09-24	21.25	1 SVRD, 2 SHRD, 2 SAUG, 1 WALL, 1 ROCK, 2 CHCT	9	22.30
M-GN-05	2022-09-24	21.33	1 MOON, 1 NRPK, 1 WALL	3	7.42
M-GN-02	2022-09-24	23.52	4 WALL, 2 SHRD, 1 WHSK, 1 SVRH	8	17.98
M-GN-04	2022-09-24	20.98	-	0	0.00
M-GN-06	2022-09-24	20.67	1 SVRH, 2 WHSK, 1 MOON, 1 WALL, 1 NRPK	6	15.41
M-GN-07	2022-09-24	20.58	2 WALL, 1 SHRD	3	7.73
D-GN-01	2022-09-26	28.47	2 WHSK, 1 WALL, 3 ROCK, 1 SHRD, 1 NRPK, 1 SAUG	9	16.68
D-GN-02	2022-09-26	27.63	2 WALL, 1 ROCK, 1 NRPK, 2 SHRD, 1 SVRH	7	13.40
D-GN-03	2022-09-26	27.05	5 WALL, 1 SAUG, 1 MOON, 3 SHRD	10	19.39
D-GN-04	2022-09-26	25.43	29 CHCT, 1 NRPK, 1 WALL, 1 CARP, 1 SAUG, 1 SHRD	34	70.53
D-GN-05	2022-09-27	21.92	15 WALL, 1 SAUG, 2 SHRD, 34 CHCT, 1 NRPK, 7 SVRH, 1 ROCK	62	75.38
D-GN-04	2022-09-27	22.13	7 WALL, 3 SHRD, 2 ROCK, 13 CHCT	25	29.67
D-GN-03	2022-09-27	22.52	4 WALL, 1 SAUG, 1 ROCK, 1 SVRH, 1 SHRD, 1 BRBL, 1 CHCT	14	32.88
D-GN-02	2022-09-27	22.40	-	0	0.00
LS-GN-01	2022-09-28	18.08	4 WALL, 1 NRPK, 2 ROCK, 2 SVRH	9	26.13
LS-GN-02	2022-09-28	19.28	7 WALL, 1 QUIL, 2 NRPK, 1 ROCK, 3 SHRD	14	38.27

S-GN-03	2022-09-24	24.00	5 SHRD, 5 WALL, 2 SAUG, 1 QUIL, 1 CARP, 1 MOON, 2 CHCT	17	37.12
S-GN-04	2022-09-24	22.07	1 SAUG	1	2.38
S-GN-05	2022-09-24	21.40	1 SHRD, 1 WALL	2	4.93
S-GN-06	2022-09-24	19.62	1 FLCH, 1 SHRD, 2 RCBS, 3 SAUG, 1 WALL	8	43.28
S-GN-07	2022-09-24	19.23	2 LKST	2	10.95
S-GN-06	2022-09-25	25.25	2 SHRD, 2 SAUG, 1 WALL	5	20.84
S-GN-07	2022-09-25	25.00	1 LKST	1	4.19
S-GN-03	2022-09-25	25.95	1 SHRD, 1 RCBS, 1 WALL	3	6.15
S-GN-04	2022-09-25	25.42	1 SVRD, 1 WALL	2	4.15
S-GN-05	2022-09-25	25.32	1 SVRD, 2 SHRD, 1 WALL	4	8.32
S-GN-06	2022-09-26	22.00	3 SHRD, 5 SAUG, 1 RCBS	9	42.87
S-GN-07	2022-09-26	22.50	-	0	0.00
S-GN-05	2022-09-26	21.25	1 RCBS, 2 WALL,1 SVRD	3	7.43
S-GN-04	2022-09-26	21.33	1 WALL, 1 MOON	2	4.94
S-GN-03	2022-09-26	21.33	2 CARP, 1 QUIL, 1 WALL, 1 LKST, 2 SHRD	7	17.30
S-GN-08	2022-09-27	19.42	6 WALL, 1 SVRD, 3 SHRD, 2 SAUG	12	65.33
S-GN-09	2022-09-27	20.50	2 WALL, 2 RCBS, 2 SHRD, 1 SVRD	7	18.07
S-GN-10	2022-09-27	19.67	1 SHRD, 1 SVRD, 1 FLCH	3	8.10
S-GN-11	2022-09-27	16.00	5 RCBS, 1 WALL, 1 SAUG, 1 CHCT	8	26.20
S-GN-12	2022-09-27	16.08	1 CARP, 1LKST	2	6.53
S-GN-11	2022-09-28	23.92	7 RCBS, 1 YLBL, 1 SHRD, 2 SAUG, 1 WALL, 1 NRPK	13	28.93
S-GN-12	2022-09-28	24.50	1 SHRD, 1 SVRD, 1 QUIL	3	6.47
S-GN-09	2022-09-28	22.75	6 WALL, 3 SAUG, 1 SVRD, 1 SHRD, 1 RCBS	12	28.01
S-GN-10	2022-09-28	23.67	2 WALL, 1 QUIL, 8 SVRD	11	24.63

***Table A3**. Biological data for 2022 Assiniboine River Juvenile Lake Sturgeon Inventory by-catch.*

Date	Site Location	Gang	Mesh	ID	Species	Length (FL)	Weight (g)	Age
2022-09-20	Virden	V-GN-03	5	1	WALL	480	1356	
2022-09-20	Virden	V-GN-02	-	34	WALL	428	930	
2022-09-20	Virden	V-GN-01	-		SHRD	302	380	
2022-09-20	Virden	V-GN-02	-		SHRD	294	380	
2022-09-20	Virden	V-GN-03	5		CARP	452	1682	
2022-09-21	Virden	V-SET-01	2	2	SAUG	320	303	
2022-09-21	Virden	V-GN-09	2	3	WALL	410	775	
2022-09-21	Virden	V-GN-09	2	4	WALL	383	598	
2022-09-21	Virden	V-GN-09	2	5	SAUG	363	490	
2022-09-21	Virden	V-GN-09	2	6	MOON	252	241	
2022-09-21	Virden	V-GN-10	2	7	SAUG	316	331	
2022-09-21	Virden	V-GN-05	-	35	WALL	610	2650	
2022-09-21	Virden	V-GN-05	-	36	SAUG	346	410	
2022-09-21	Virden	V-GN-05	-	37	WALL	348	490	
2022-09-21	Virden	V-GN-05	-	38	WALL	374	500	
2022-09-21	Virden	V-GN-06	-	39	WALL	448	1110	
2022-09-21	Virden	V-GN-06	-	40	WALL	350	490	
2022-09-21	Virden	V-GN-04	-		SAUG	400	640	
2022-09-21	Virden	V-GN-04	-		SHRD	330	540	
2022-09-21	Virden	V-GN-04	-		SHRD	332	600	
2022-09-21	Virden	V-GN-04	-		WALL	380	500	
2022-09-21	Virden	V-GN-05	-		SHRD	298	360	
2022-09-21	Virden	V-GN-05	-		SHRD	312	450	
2022-09-21	Virden	V-GN-05	-		SHRD	330	590	
2022-09-21	Virden	V-GN-05	-		SHRD	312	530	
2022-09-21	Virden	V-GN-09	2		CHCT	342	442	
2022-09-21	Virden	V-GN-09	2		CHCT	318	413	
2022-09-21	Virden	V-GN-09	2		SHRD	330	532	
2022-09-21	Virden	V-GN-09	2		SHRD	342	694	
2022-09-21	Virden	V-GN-09	2		SHRD	320	472	
2022-09-21	Virden	V-GN-09	2		WHSK	353	603	
2022-09-21	Virden	V-GN-10	2		CHCT	662	4540	
2022-09-21	Virden	V-SET-01	-		CHCT	300	321	
2022-09-21	Virden	V-SET-01	-		SHRD	261	365	
2022-09-21	Virden	V-SET-01	-		SHRD	299	368	
2022-09-22	Virden	V-GN-03	2	8	SAUG	254	179	
2022-09-22	Virden	V-GN-09	3	9	MOON	244	214	
2022-09-22	Virden	V-GN-09	3	10	WALL	394	699	
2022-09-22	Virden	V-GN-10	2	11	WALL	318	328	
2022-09-22	Virden	V-GN-06	2	41	SAUG	290	240	

2022-09-22	Virden	V-GN-06	2	42	WALL	350	450	
2022-09-22	Virden	V-GN-07	3	43	WALL	362	500	
2022-09-22	Virden	V-GN-07	3	44	WALL	358	440	
2022-09-22	Virden	V-GN-07	3	45	WALL	396	660	
2022-09-22	Virden	V-GN-07	3	46	WALL	405	670	
2022-09-22	Virden	V-GN-08	3	47	SAUG	366	500	
2022-09-22	Virden	V-GN-08	3	48	SAUG	382	570	
2022-09-22	Virden	V-GN-03	2		SHRD	256	245	
2022-09-22	Virden	V-GN-07	-		CHCT	346	480	
2022-09-22	Virden	V-GN-07	-		CHCT	322	420	
2022-09-22	Virden	V-GN-07	-		CHCT	302	350	
2022-09-22	Virden	V-GN-07	-		CHCT	414	920	
2022-09-22	Virden	V-GN-07	-		CHCT	314	350	
2022-09-22	Virden	V-GN-07	-		SHRD	352	620	
2022-09-22	Virden	V-GN-07	-		SHRD	356	660	
2022-09-22	Virden	V-GN-09	3		CARP	514	2256	
2022-09-22	Virden	V-GN-09	3		CHCT	292	368	
2022-09-22	Virden	V-GN-09	3		NRPK	534	1248	
2022-09-22	Virden	V-GN-09	3		QUIL	182	127	
2022-09-22	Virden	V-GN-09	3		SVRD	408	1107	
2022-09-22	Virden	V-GN-09	3		WALL	336	393	
2022-09-22	Virden	V-GN-09	3		WHSK	352	547	
2022-09-22	Virden	V-GN-10	2		CHCT	136	34	
2022-09-22	Virden	V-GN-10	2		SAUG	234	142	
2022-09-22	Virden	V-GN-10	2		SHRD	254	270	
2022-09-22	Virden	V-GN-10	2		SHRD	230	165	
2022-09-22	Virden	V-GN-10	2		WALL	256	159	
2022-09-22	Virden	V-SET-03	-		CHCT	212	90	
2022-09-22	Virden	V-SET-05	-		CHCT	206	137	
2022-09-23	Miniota	M-GN-02	2	49	WALL	508	1490	
2022-09-23	Miniota	M-GN-03	3	50	WALL	384	570	
2022-09-23	Miniota	M-GN-03	3	51	WALL	412	830	
2022-09-23	Miniota	M-GN-03	3	52	SAUG	384	450	
2022-09-23	Miniota	M-GN-03	3	53	WALL	350	500	
2022-09-23	Miniota	M-GN-01	2		CHCT	308	360	
2022-09-23	Miniota	M-GN-01	2		CHCT	212	110	
2022-09-23	Miniota	M-GN-01	2		SHRD	240	210	
2022-09-23	Miniota	M-GN-02	2		CHCT	180	90	
2022-09-23	Miniota	M-GN-02	2		CHCT	288	300	
2022-09-23	Miniota	M-GN-02	2		MOON	260	260	
2022-09-23	Miniota	M-GN-02	2		MOON	264	260	
2022-09-23	Miniota	M-GN-02	2		SHRD	350	710	
2022-09-23	Miniota	M-GN-02	2		SHRD	318	460	

2022-09-23	Miniota	M-GN-02	5		SHRD	304	480	
2022-09-23	Miniota	M-GN-02	5		WALL	392	650	
2022-09-23	Miniota	M-GN-02	5		WHSK	316	560	
2022-09-24	Miniota	M-GN-01	2	54	WALL	370	540	
2022-09-24	Miniota	M-GN-01	2	55	SAUG	314	270	
2022-09-24	Miniota	M-GN-06	6	56	WALL	352	470	
2022-09-24	Miniota	M-GN-07	5	57	WALL	550	1860	
2022-09-24	Miniota	M-GN-07	5	58	WALL	532	1930	
2022-09-24	Miniota	M-GN-02	3	59	WALL	392	650	
2022-09-24	Miniota	M-GN-02	3	60	WALL	608	2400	
2022-09-24	Miniota	M-GN-02	3	61	WALL	660	3350	
2022-09-24	Miniota	M-GN-01	2		CHCT	118	110	
2022-09-24	Miniota	M-GN-01	2		CHCT	286	300	
2022-09-24	Miniota	M-GN-01	2		RCBS	190	130	
2022-09-24	Miniota	M-GN-01	2		SAUG	372	560	
2022-09-24	Miniota	M-GN-01	2		SHRD	244	200	
2022-09-24	Miniota	M-GN-01	2		SHRD	210	110	
2022-09-24	Miniota	M-GN-01	5		SVRD	462	1650	
2022-09-24	Miniota	M-GN-02	3		SHRD	386	700	
2022-09-24	Miniota	M-GN-02	3		SHRD	360	750	
2022-09-24	Miniota	M-GN-02	3		SVRD	480	1600	
2022-09-24	Miniota	M-GN-02	3		WALL	350	450	
2022-09-24	Miniota	M-GN-02	3		WHSK	358	650	
2022-09-24	Miniota	M-GN-05	3		MOON	280	280	
2022-09-24	Miniota	M-GN-05	3		NRPK	540	1180	
2022-09-24	Miniota	M-GN-05	3		WALL	410	660	
2022-09-24	Miniota	M-GN-06	6		MOON	250	200	
2022-09-24	Miniota	M-GN-06	6		NRPK	630	1640	
2022-09-24	Miniota	M-GN-06	6		SVHR	516	1900	
2022-09-24	Miniota	M-GN-06	6		WHSK	340	490	
2022-09-24	Miniota	M-GN-06	6		WHSK	346	600	
2022-09-24	Miniota	M-GN-07	2		SHRD	232	210	
2022-09-24	St. Lazare	S-GN-06	-	12	SAUG	364	520	
2022-09-24	St. Lazare	S-GN-06	-	13	SAUG	302	280	
2022-09-24	St. Lazare	S-GN-06	-	14	SAUG	290	230	
2022-09-24	St. Lazare	S-SET-04	-	17	WALL	618	3100	
2022-09-24	St. Lazare	S-SET-02	-	18	WALL	436	900	
2022-09-24	St. Lazare	S-GN-05	-	19	WALL	518	1900	
2022-09-24	St. Lazare	S-GN-04	5	20	SAUG	394	715	
2022-09-24	St. Lazare	S-SET-03	-	21	WALL	620	2540	
2022-09-24	St. Lazare	S-GN-03	3	22	WALL	346	445	
2022-09-24	St. Lazare	S-GN-03	3		CARP	478	1770	
2022-09-24	St. Lazare	S-GN-03	3		CHCT	540	2520	

2022-09-24	St. Lazare	S-GN-03	3		CHCT	536	1970	
2022-09-24	St. Lazare	S-GN-03	3		MOON	262	250	
2022-09-24	St. Lazare	S-GN-03	3		QUIL	460	1605	
2022-09-24	St. Lazare	S-GN-03	3		SAUG	320	370	
2022-09-24	St. Lazare	S-GN-03	3		SAUG	332	460	
2022-09-24	St. Lazare	S-GN-03	6		SHRD	308	445	
2022-09-24	St. Lazare	S-GN-03	6		SHRD	336	620	
2022-09-24	St. Lazare	S-GN-03	6		SHRD	314	470	
2022-09-24	St. Lazare	S-GN-03	3		SHRD	328	530	
2022-09-24	St. Lazare	S-GN-03	3		SHRD	476	1940	
2022-09-24	St. Lazare	S-GN-03	3		WALL	422	960	
2022-09-24	St. Lazare	S-GN-03	3		WALL	510	1450	
2022-09-24	St. Lazare	S-GN-03	3		WALL	456	1110	
2022-09-24	St. Lazare	S-GN-03	3		WALL	390	720	
2022-09-24	St. Lazare	S-GN-05	-		SHRD	220	130	
2022-09-24	St. Lazare	S-GN-06	-		FLCH	214	106	
2022-09-24	St. Lazare	S-GN-06	-		RCBS	122	50	
2022-09-24	St. Lazare	S-GN-06	-		RCBS	146	90	
2022-09-24	St. Lazare	S-GN-06	-		SHRD	372	830	
2022-09-24	St. Lazare	S-GN-06	-		WALL	344	450	
2022-09-24	St. Lazare	S-SET-03	-		CHLM			
2022-09-25	St. Lazare	S-GN-06	2	23	SAUG	302	244	
2022-09-25	St. Lazare	S-GN-06	2	24	SAUG	308	295	
2022-09-25	St. Lazare	S-GN-06	2	25	WALL	328	399	
2022-09-25	St. Lazare	S-GN-05	2	26	WALL	246	159	
2022-09-25	St. Lazare	S-GN-04	3	27	WALL	350	448	
2022-09-25	St. Lazare	S-GN-03	3	28	WALL	394	606	
2022-09-25	St. Lazare	S-GN-02	-		SVRD	328	530	
2022-09-25	St. Lazare	S-GN-03	3		RCBS	184	160	
2022-09-25	St. Lazare	S-GN-03	3		SHRD	280	333	
2022-09-25	St. Lazare	S-GN-04	6		SVRD	476	1820	
2022-09-25	St. Lazare	S-GN-05	-		CHCT	138	31	
2022-09-25	St. Lazare	S-GN-05	2		SHRD	328	530	
2022-09-25	St. Lazare	S-GN-05	2		SHRD	204	122	
2022-09-25	St. Lazare	S-GN-05	5		SVRD	450	1527	
2022-09-25	St. Lazare	S-GN-06	2		SHRD	230	155	
2022-09-25	St. Lazare	S-GN-06	2		SHRD	310	500	
2022-09-26	Deerboine	D-GN-04	3	62	WALL	416	800	
2022-09-26	Deerboine	D-GN-04	5	63	SAUG	340	480	
2022-09-26	Deerboine	D-GN-03	5	64	WALL	660	3550	
2022-09-26	Deerboine	D-GN-03	5	65	WALL	592	2260	
2022-09-26	Deerboine	D-GN-03	5	66	SAUG	270	300	
2022-09-26	Deerboine	D-GN-03	2	67	WALL	540	1970	

2022-09-26	Deerboine	D-GN-03	2	68	WALL	232	150	
2022-09-26	Deerboine	D-GN-02	6	69	WALL	504	1620	
2022-09-26	Deerboine	D-GN-02	3	70	NRPK	748	3650	4
2022-09-26	Deerboine	D-GN-02	3	71	WALL	358	460	
2022-09-26	Deerboine	D-GN-01	3	72	SAUG	380	640	
2022-09-26	Deerboine	D-GN-01	3	73	WALL	548	1920	
2022-09-26	Deerboine	D-GN-01	3	74	NRPK	665	2230	4
2022-09-26	Deerboine	D-GN-01	3		RCBS	194	130	
2022-09-26	Deerboine	D-GN-01	3		RCBS	192	160	
2022-09-26	Deerboine	D-GN-01	3		RCBS	183	150	
2022-09-26	Deerboine	D-GN-01	3		SHRD	340	450	
2022-09-26	Deerboine	D-GN-01	3		WHSK	362	700	
2022-09-26	Deerboine	D-GN-01	3		WHSK	302	360	
2022-09-26	Deerboine	D-GN-02	3		RCBS	130	50	
2022-09-26	Deerboine	D-GN-02	3		SHRD	220	140	
2022-09-26	Deerboine	D-GN-02	3		SHRD	224	180	
2022-09-26	Deerboine	D-GN-02	6		SVRD	355	1440	
2022-09-26	Deerboine	D-GN-03	2		MOON	152	30	
2022-09-26	Deerboine	D-GN-03	2		SHRD	120	220	
2022-09-26	Deerboine	D-GN-03	2		SHRD	296	110	
2022-09-26	Deerboine	D-GN-03	2		SHRD	330	530	
2022-09-26	Deerboine	D-GN-03	2		WALL	236	140	
2022-09-26	Deerboine	D-GN-04	5		CARP	520	2100	
2022-09-26	Deerboine	D-GN-04	2		CHCT	290	300	
2022-09-26	Deerboine	D-GN-04	2		CHCT	320	420	
2022-09-26	Deerboine	D-GN-04	2		CHCT	300	330	
2022-09-26	Deerboine	D-GN-04	2		CHCT	298	330	
2022-09-26	Deerboine	D-GN-04	2		CHCT	286	300	
2022-09-26	Deerboine	D-GN-04	2		CHCT	348	510	
2022-09-26	Deerboine	D-GN-04	2		CHCT	306	350	
2022-09-26	Deerboine	D-GN-04	2		CHCT	320	400	
2022-09-26	Deerboine	D-GN-04	2		CHCT	240	200	
2022-09-26	Deerboine	D-GN-04	2		CHCT	380	500	
2022-09-26	Deerboine	D-GN-04	2		CHCT	348	400	
2022-09-26	Deerboine	D-GN-04	2		CHCT	360	410	
2022-09-26	Deerboine	D-GN-04	2		CHCT	280	240	
2022-09-26	Deerboine	D-GN-04	2		CHCT	342	450	
2022-09-26	Deerboine	D-GN-04	2		CHCT	330	440	
2022-09-26	Deerboine	D-GN-04	2		CHCT	288	300	
2022-09-26	Deerboine	D-GN-04	2		CHCT	320	360	
2022-09-26	Deerboine	D-GN-04	2		CHCT	315	400	
2022-09-26	Deerboine	D-GN-04	2		CHCT	328	440	
2022-09-26	Deerboine	D-GN-04	2		CHCT	320	460	

2022-09-26	Deerboine	D-GN-04	2		CHCT	316	400	
2022-09-26	Deerboine	D-GN-04	2		CHCT	262	300	
2022-09-26	Deerboine	D-GN-04	2		CHCT	340	420	
2022-09-26	Deerboine	D-GN-04	2		CHCT	240	170	
2022-09-26	Deerboine	D-GN-04	2		CHCT	364	610	
2022-09-26	Deerboine	D-GN-04	2		CHCT	318	380	
2022-09-26	Deerboine	D-GN-04	2		CHCT	318	400	
2022-09-26	Deerboine	D-GN-04	2		CHCT	262	290	
2022-09-26	Deerboine	D-GN-04	2		CHCT	316	380	
2022-09-26	Deerboine	D-GN-04	6		NRPK	340	1250	
2022-09-26	Deerboine	D-GN-04	3		SHRD	310	440	
2022-09-26	St. Lazare	S-GN-06	2	29	SAUG	344	427	
2022-09-26	St. Lazare	S-GN-06	2	30	SAUG	374	597	
2022-09-26	St. Lazare	S-GN-06	2	31	SAUG	388	677	
2022-09-26	St. Lazare	S-GN-06	2	32	SAUG	362	545	
2022-09-26	St. Lazare	S-GN-06	2	33	SAUG	290	251	
2022-09-26	St. Lazare	S-SET-02	-	97	WALL	424	906	
2022-09-26	St. Lazare	S-GN-05	2	98	WALL	242	164	
2022-09-26	St. Lazare	S-GN-05	2	99	WALL	312	321	
2022-09-26	St. Lazare	S-GN-04	3	100	WALL	470	1160	
2022-09-26	St. Lazare	S-GN-03	6	101	WALL	364	593	
2022-09-26	St. Lazare	S-GN-03	6		CARP	480	1874	
2022-09-26	St. Lazare	S-GN-03	6		CARP	482	1561	
2022-09-26	St. Lazare	S-GN-03	6		QUIL	410	1242	
2022-09-26	St. Lazare	S-GN-03	3		SHRD	300	413	
2022-09-26	St. Lazare	S-GN-03	3		SHRD	382	962	
2022-09-26	St. Lazare	S-GN-04	3		MOON	256	241	
2022-09-26	St. Lazare	S-GN-05	2		RCBS	180	51	
2022-09-26	St. Lazare	S-GN-05	2		SVRD	466	1828	
2022-09-26	St. Lazare	S-GN-06	2		RCBS	180	148	
2022-09-26	St. Lazare	S-GN-06	2		SHRD	188	107	
2022-09-26	St. Lazare	S-GN-06	2		SHRD	346	694	
2022-09-26	St. Lazare	S-GN-06	2		SHRD	370	904	
2022-09-26	St. Lazare	S-SET-01	-		SVRD	372	900	
2022-09-26	St. Lazare	S-SET-02	-		SVRD	350	609	
2022-09-26	St. Lazare	S-SET-06	-		SHRD	392	796	
2022-09-27	Deerboine	D-GN-05	2	75	WALL	608	1850	
2022-09-27	Deerboine	D-GN-05	2	76	SAUG	248	140	
2022-09-27	Deerboine	D-GN-05	2	77	WALL	228	100	
2022-09-27	Deerboine	D-GN-05	2	78	WALL	250	130	
2022-09-27	Deerboine	D-GN-05	2	79	WALL	292	240	
2022-09-27	Deerboine	D-GN-05	5	80	WALL	378	580	
2022-09-27	Deerboine	D-GN-05	5	81	WALL	460	860	

2022-09-27	Deerboine	D-GN-05	5	82	WALL	440	900	
2022-09-27	Deerboine	D-GN-05	5	83	WALL	470	1110	
2022-09-27	Deerboine	D-GN-05	5	84	WALL	438	930	
2022-09-27	Deerboine	D-GN-05	5	85	NRPK	848	4120	6
2022-09-27	Deerboine	D-GN-03	2		BRBL	200	120	
2022-09-27	Deerboine	D-GN-03	2		CHCT	172	70	
2022-09-27	Deerboine	D-GN-03	2		RCBS	174	120	
2022-09-27	Deerboine	D-GN-03	2		SAUG	368	450	
2022-09-27	Deerboine	D-GN-03	2		SHRD	284	390	
2022-09-27	Deerboine	D-GN-03	5		SVRD	482	1460	
2022-09-27	Deerboine	D-GN-03	5		WALL	670	3490	
2022-09-27	Deerboine	D-GN-03	2		WALL	296	380	
2022-09-27	Deerboine	D-GN-03	2		WALL	346	440	
2022-09-27	Deerboine	D-GN-03	2		WALL	242	130	
2022-09-27	Deerboine	D-GN-04	3		CHCT	300	310	
2022-09-27	Deerboine	D-GN-04	3		CHCT	380	650	
2022-09-27	Deerboine	D-GN-04	3		CHCT	304	360	
2022-09-27	Deerboine	D-GN-04	3		CHCT	309	340	
2022-09-27	Deerboine	D-GN-04	3		CHCT	312	410	
2022-09-27	Deerboine	D-GN-04	3		CHCT	290	310	
2022-09-27	Deerboine	D-GN-04	3		CHCT	316	370	
2022-09-27	Deerboine	D-GN-04	3		CHCT	312	380	
2022-09-27	Deerboine	D-GN-04	3		CHCT	316	320	
2022-09-27	Deerboine	D-GN-04	3		CHCT	300	330	
2022-09-27	Deerboine	D-GN-04	3		CHCT	286	290	
2022-09-27	Deerboine	D-GN-04	3		CHCT	290	280	
2022-09-27	Deerboine	D-GN-04	3		CHCT	258	210	
2022-09-27	Deerboine	D-GN-04	5		RCBS	190	90	
2022-09-27	Deerboine	D-GN-04	3		RCBS	202	160	
2022-09-27	Deerboine	D-GN-04	5		SHRD	382	780	
2022-09-27	Deerboine	D-GN-04	5		SHRD	340	560	
2022-09-27	Deerboine	D-GN-04	3		SHRD	290	310	
2022-09-27	Deerboine	D-GN-04	5		WALL	658	3720	
2022-09-27	Deerboine	D-GN-04	5		WALL	408	680	
2022-09-27	Deerboine	D-GN-04	3		WALL	453	460	
2022-09-27	Deerboine	D-GN-04	3		WALL	442	1060	
2022-09-27	Deerboine	D-GN-04	3		WALL	502	1570	
2022-09-27	Deerboine	D-GN-04	3		WALL	360	470	
2022-09-27	Deerboine	D-GN-04	3		WALL	372	600	
2022-09-27	Deerboine	D-GN-05	2		CHCT	306	300	
2022-09-27	Deerboine	D-GN-05	2		CHCT	318	380	
2022-09-27	Deerboine	D-GN-05	2		CHCT	270	210	
2022-09-27	Deerboine	D-GN-05	2		CHCT	356	500	

2022-09-27	Deerboine	D-GN-05	2		CHCT	172	50	
2022-09-27	Deerboine	D-GN-05	2		CHCT	258	180	
2022-09-27	Deerboine	D-GN-05	2		CHCT	340	320	
2022-09-27	Deerboine	D-GN-05	2		CHCT	262	200	
2022-09-27	Deerboine	D-GN-05	2		CHCT	182	70	
2022-09-27	Deerboine	D-GN-05	2		CHCT	312	300	
2022-09-27	Deerboine	D-GN-05	2		CHCT	308	300	
2022-09-27	Deerboine	D-GN-05	2		CHCT	200	90	
2022-09-27	Deerboine	D-GN-05	2		CHCT	268	200	
2022-09-27	Deerboine	D-GN-05	2		CHCT	220	110	
2022-09-27	Deerboine	D-GN-05	2		CHCT	308	280	
2022-09-27	Deerboine	D-GN-05	2		CHCT	318	300	
2022-09-27	Deerboine	D-GN-05	2		CHCT	274	240	
2022-09-27	Deerboine	D-GN-05	2		CHCT	198	60	
2022-09-27	Deerboine	D-GN-05	2		CHCT	244	200	
2022-09-27	Deerboine	D-GN-05	5		CHCT	406	750	
2022-09-27	Deerboine	D-GN-05	5		CHCT	397	740	
2022-09-27	Deerboine	D-GN-05	5		CHCT	310	320	
2022-09-27	Deerboine	D-GN-05	5		CHCT	474	670	
2022-09-27	Deerboine	D-GN-05	5		CHCT	312	350	
2022-09-27	Deerboine	D-GN-05	5		CHCT	296	280	
2022-09-27	Deerboine	D-GN-05	5		CHCT	320	380	
2022-09-27	Deerboine	D-GN-05	5		CHCT	344	460	
2022-09-27	Deerboine	D-GN-05	5		CHCT	326	360	
2022-09-27	Deerboine	D-GN-05	5		CHCT	284	240	
2022-09-27	Deerboine	D-GN-05	5		CHCT	308	270	
2022-09-27	Deerboine	D-GN-05	5		CHCT	300	360	
2022-09-27	Deerboine	D-GN-05	5		CHCT	480	660	
2022-09-27	Deerboine	D-GN-05	5		CHCT	486	800	
2022-09-27	Deerboine	D-GN-05	5		CHCT	318	380	
2022-09-27	Deerboine	D-GN-05	2		RCBS	160	70	
2022-09-27	Deerboine	D-GN-05	2		SHRD	272	260	
2022-09-27	Deerboine	D-GN-05	2		SHRD	270	290	
2022-09-27	Deerboine	D-GN-05	2		SVRD	180	60	
2022-09-27	Deerboine	D-GN-05	5		SVRD	568	1630	
2022-09-27	Deerboine	D-GN-05	5		SVRD	458	1420	
2022-09-27	Deerboine	D-GN-05	5		SVRD	450	1300	
2022-09-27	Deerboine	D-GN-05	5		SVRD	450	1240	
2022-09-27	Deerboine	D-GN-05	5		SVRD	338	680	
2022-09-27	Deerboine	D-GN-05	5		SVRD	352	270	
2022-09-27	Deerboine	D-GN-05	2		WALL	292	220	
2022-09-27	Deerboine	D-GN-05	2		WALL	252	120	
2022-09-27	Deerboine	D-GN-05	5		WALL	430	820	

2022-09-27	Deerboine	D-GN-05	5		WALL	518	1330	
2022-09-27	Deerboine	D-GN-05	5		WALL	358	460	
2022-09-27	Deerboine	D-GN-05	5		WALL	430	800	
2022-09-27	St. Lazare	S-GN-11	2	103	WALL	422	885	
2022-09-27	St. Lazare	S-GN-08	3	105	WALL	680	3450	
2022-09-27	St. Lazare	S-GN-08	3	106	WALL	374	550	
2022-09-27	St. Lazare	S-GN-08	3	107	WALL	398	700	
2022-09-27	St. Lazare	S-GN-08	3	108	WALL	424	850	
2022-09-27	St. Lazare	S-GN-08	3	109	WALL	364	530	
2022-09-27	St. Lazare	S-GN-08	3	110	SAUG	330	350	
2022-09-27	St. Lazare	S-GN-08	3	111	SAUG	388	630	
2022-09-27	St. Lazare	S-GN-08	6	112	WALL	652	4440	
2022-09-27	St. Lazare	S-GN-09	3	113	WALL	428	950	
2022-09-27	St. Lazare	S-GN-09	3	114	WALL	400	750	
2022-09-27	St. Lazare	S-GN-08	3		SHRD	380	800	
2022-09-27	St. Lazare	S-GN-08	3		SHRD	372	820	
2022-09-27	St. Lazare	S-GN-08	3		SHRD	492	4000	
2022-09-27	St. Lazare	S-GN-08	3		SVRD	374	930	
2022-09-27	St. Lazare	S-GN-09	3		RCBS	200	198	
2022-09-27	St. Lazare	S-GN-09	3		RCBS	182	153	
2022-09-27	St. Lazare	S-GN-09	3		SHRD	352	700	
2022-09-27	St. Lazare	S-GN-09	3		SHRD	350	750	
2022-09-27	St. Lazare	S-GN-09	3		SVRD	484	1800	
2022-09-27	St. Lazare	S-GN-10	2		FLCH	220	124	
2022-09-27	St. Lazare	S-GN-10	2		SHRD	210	190	
2022-09-27	St. Lazare	S-GN-10	5		SVRD	450	1510	
2022-09-27	St. Lazare	S-GN-11	2		CHCT	200	185	
2022-09-27	St. Lazare	S-GN-11	2		RCBS	152	85	
2022-09-27	St. Lazare	S-GN-11	2		RCBS	140	81	
2022-09-27	St. Lazare	S-GN-11	2		RCBS	196	205	
2022-09-27	St. Lazare	S-GN-11	2		RCBS	194	181	
2022-09-27	St. Lazare	S-GN-11	2		RCBS	140	73	
2022-09-27	St. Lazare	S-GN-11	2		SAUG	300	274	
2022-09-27	St. Lazare	S-GN-12	6		CARP	570	3200	
2022-09-28	Little Sask	LS-GN-01	2	86	WALL	235	110	
2022-09-28	Little Sask	LS-GN-01	2	87	WALL	286	240	
2022-09-28	Little Sask	LS-GN-01	2	88	WALL	292	250	
2022-09-28	Little Sask	LS-GN-01	2	89	WALL	390	640	
2022-09-28	Little Sask	LS-GN-01	2	90	NRPK	612	1580	3
2022-09-28	Little Sask	LS-GN-02	3	91	WALL	360	480	
2022-09-28	Little Sask	LS-GN-02	3	92	NRPK	509	1150	2
2022-09-28	Little Sask	LS-GN-02	3	93	WALL	342	850	
2022-09-28	Little Sask	LS-GN-02	3	94	WALL	668	4100	

2022-09-28	Little Sask	LS-GN-02	3	95	WALL	216	100	
2022-09-28	Little Sask	LS-GN-02	3	96	WALL	640	3100	
2022-09-28	Little Sask	LS-GN-01	2		RCBS	144	70	
2022-09-28	Little Sask	LS-GN-01	2		RCBS	170	110	
2022-09-28	Little Sask	LS-GN-01	2		SVRD	235	190	
2022-09-28	Little Sask	LS-GN-01	2		SVRD	212	110	
2022-09-28	Little Sask	LS-GN-02	3		NRPK	542	1250	
2022-09-28	Little Sask	LS-GN-02	3		QUIL	410	1420	
2022-09-28	Little Sask	LS-GN-02	3		RCBS	200	160	
2022-09-28	Little Sask	LS-GN-02	3		SHRD	330	550	
2022-09-28	Little Sask	LS-GN-02	3		SHRD	190	80	
2022-09-28	Little Sask	LS-GN-02	3		SHRD	190	80	
2022-09-28	Little Sask	LS-GN-02	6		WALL	660	4100	
2022-09-28	Little Sask	LS-GN-02	3		WALL	564	2240	
2022-09-28	St. Lazare	S-GN-11	2	115	WALL	340	339	
2022-09-28	St. Lazare	S-GN-11	2	116	SAUG	300	277	
2022-09-28	St. Lazare	S-GN-09	3	117	WALL	406	733	
2022-09-28	St. Lazare	S-GN-09	3	118	WALL	372	600	
2022-09-28	St. Lazare	S-GN-09	3	119	WALL	432	964	
2022-09-28	St. Lazare	S-GN-09	3	120	WALL	382	585	
2022-09-28	St. Lazare	S-GN-09	3	121	WALL	378	574	
2022-09-28	St. Lazare	S-GN-09	3	122	SAUG	398	668	
2022-09-28	St. Lazare	S-GN-09	3		RCBS	190	139	
2022-09-28	St. Lazare	S-GN-09	3		SAUG	340	404	
2022-09-28	St. Lazare	S-GN-09	3		SAUG	354	499	
2022-09-28	St. Lazare	S-GN-09	3		SHRD	330	516	
2022-09-28	St. Lazare	S-GN-09	3		SVRD	382	919	
2022-09-28	St. Lazare	S-GN-09	3		WALL	406	702	
2022-09-28	St. Lazare	S-GN-10	5		QUIL	472	890	
2022-09-28	St. Lazare	S-GN-10	5		SVRD	494	2069	
2022-09-28	St. Lazare	S-GN-10	5		SVRD	464	1520	
2022-09-28	St. Lazare	S-GN-10	5		SVRD	450	1394	
2022-09-28	St. Lazare	S-GN-10	5		SVRD	442	1355	
2022-09-28	St. Lazare	S-GN-10	5		SVRD	510	2200	
2022-09-28	St. Lazare	S-GN-10	5		SVRD	484	1900	
2022-09-28	St. Lazare	S-GN-10	6		SVRD	452	1480	
2022-09-28	St. Lazare	S-GN-10	6		SVRD	460	1620	
2022-09-28	St. Lazare	S-GN-10	5		WALL	522	1530	
2022-09-28	St. Lazare	S-GN-10	5		WALL	510	1720	
2022-09-28	St. Lazare	S-GN-11	2		NRPK	460	678	
2022-09-28	St. Lazare	S-GN-11	2		RCBS	210	238	
2022-09-28	St. Lazare	S-GN-11	2		RCBS	136	66	
2022-09-28	St. Lazare	S-GN-11	2		RCBS	240	383	

2022-09-28	St. Lazare	S-GN-11	2		RCBS	130	53	
2022-09-28	St. Lazare	S-GN-11	2		RCBS	142	66	
2022-09-28	St. Lazare	S-GN-11	2		RCBS	204	220	
2022-09-28	St. Lazare	S-GN-11	2		RCBS	200	198	
2022-09-28	St. Lazare	S-GN-11	2		SAUG	400	727	
2022-09-28	St. Lazare	S-GN-11	2		SHRD	224	169	
2022-09-28	St. Lazare	S-GN-11	2		YLBL	210	148	
2022-09-28	St. Lazare	S-GN-12	5		QUIL	362	874	
2022-09-28	St. Lazare	S-GN-12	5		SHRD	400	914	
2022-09-28	St. Lazare	S-GN-12	5		SVRD	470	1385	