

Errata: New Biomass Values

An error occurred in the average temperatures used to calculate biomass. This error had the effect of decreasing the absolute values of biomass before and after the project, but did not change their relative values, i.e., the percentage of change anticipated as a result of the project.

The corrected biomass values are given below.

Volume 2, Chapter 10

- *Page 10-80:* see new Table 10-18 in this file.
- *Page 10-86, fifth paragraph:*
58 kg/ha is changed for **30.4** kg/ha and
64 kg/ha is changed for **33.7** kg/ha.
- *Page 10-103, third paragraph:*
3.09 kg/ha is changed for **1.63** kg/ha,
1.55 kg/ha is changed for **0.81** kg/ha,
1.49 kg/ha is changed for **0.78** kg/ha and
1.06 kg/ha is changed for **0.55** kg/ha.
- *Page 10-108, fourth paragraph:*
548 t is changed for **291.8** t.
- *Page 10-108, fifth paragraph:*
1000.4 t is changed for **525.5** t and
452.7 t is changed for **233.7** t.
- *Page 10-109, last paragraph:*
199.2 t is changed for **105.7** t.
- *Page 10-109:* see new Table 10-27 in this file.
- *Page 10-110, first paragraph:*
255.6 t is changed for **134.2** t,
56.4 t is changed for **28.5** t and
509 t is changed for **262.2** t.
- *Page 10-110:* see new Table 10-28 in this file.

Volume 2, Chapter 11

- *Page 11-90, last paragraph:*
41.0 kg/ha is changed for **21.6** kg/ha.
- *Page 11-91:* see new Table 11-29 in this file.
- *Page 11-101, first paragraph:*
2.12 t is changed for **1.1** t and
0.1 t is changed for **0.05** t.
- *Page 11-101:* see new Table 11-32 in this file.
- *Page 11-112, second paragraph:*
1042 t is changed for **547.8** t
468 t is changed for **246.2** t
88 t is changed for **46** t and
954 t is changed for **501.4** t.
- *Page 11-112, last paragraph:*
574 t is changed for **301.5** t
481.7 t is changed for **253.1** t
468 t is changed for **246.2** t and
472 t is changed for **248.3** t.
- *Page 11-112:* see new Table 11-35 in this file.
- *Page 11-118, second paragraph:*
88 t is changed for **46** t.

Volume 4, Chapter 17

- *Page 17-73, first paragraph:*
500 t is changed for **260** t.

Volume 4, Chapter 23

- *Page 23-17, first paragraph:*
88 t is changed for **46 t**
509 t is changed for **262 t** and
421 t is changed for **216 t**.
- *Page 23-18:* see new Table 23-2 in this file.
- *Page 23-42, Table 23-4 (1 of 9), first bullet:*
509 t is changed for **262 t**.
- *Page 23-47, Table 23-4 (2 of 9), first bullet:*
88 t is changed for **46 t**.

Volume 6, Method M-10 (fish)

- *Page M10-38, second paragraph, first sentence:* remove the end of the sentence after the comma, "**considering 0°C as the minimum monthly temperature.**"

Summary Report, Chapter 6

- *Page 6-12, second paragraph:*
88 t is changed for **46 t**
509 t is changed for **262 t** and
421 t is changed for **216 t**.
- *Page 6-13:* see new Table 6-2 in this file.

Chapter 10, page 10-80

Table 10-18: Rupert diversion bay section – Catch per unit effort (CPUE), relative abundance and fish biomass in lakes – 2002

Species	Rupert forebay			Rupert tailbay		
	CPUE (fish per net-day)	Relative abundance (%)	Biomass (kg/ha)	CPUE (fish per net-day)	Relative abundance (%)	Biomass (kg/ha)
Mottled sculpin	0.01	0.04	< 0.01	—	—	—
Lake cisco	3.85	19.41	0.20	3.62	21.76	0.31
Walleye	8.85	44.62	13.46	5.50	33.07	9.23
Lake sturgeon	0.01	0.04	0.08	—	—	—
Northern pike	0.72	3.61	3.83	1.05	6.30	5.74
Lake whitefish	2.02	10.17	3.35	4.38	26.34	11.55
Burbot	—	—	—	0.08	0.50	0.14
Lake chub	0.18	0.92	0.01	—	—	—
Round whitefish	0.02	0.08	0.04	—	—	—
White sucker	2.60	13.11	5.97	1.76	10.59	5.99
Longnose sucker	0.59	2.98	1.46	—	—	—
Brook trout	0.17	0.84	0.32	—	—	—
Trout-perch	—	—	—	0.01	0.07	< 0.01
Yellow perch	0.31	1.55	0.01	0.14	0.86	<0.01
Lake trout	0.52	2.61	1.63	0.08	0.50	0.78
Total	19.83	100.00	30.35	16.63	100.00	33.74

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Table 10-27: Rupert forebay – Fish biomass before and after diversion

Species	Biomass (t)			After diversion
	Before diversion			
	Lakes	Rivers	Streams	Rupert forebay
Lake sturgeon	0.7	1.1	—	19.9
Longnose sucker	12.9	0.7	—	17.2
White sucker	52.7	2.4	1.0	91.4
Lake cisco	1.7	<0.1	—	5.5
Mottled sculpin	<0.1	—	0.8	<0.1
Lake whitefish	29.6	0.6	< 0.1	53.4
Lake chub	0.1	—	1.5	0.1
Whitefish sp.	—	—	—	<0.1
Northern pike	33.7	4.5	0.4	86.9
Burbot	—	—	1.3	1.6
Spottail shiner	—	< 0.1	—	<0.1
Yellow perch	0.1	< 0.1	< 0.1	0.4
Round whitefish	0.3	0.1	—	1.0
Brook trout	2.9	—	2.3	9.0
Lake trout	14.3	—	—	16.9
Fallfish	—	0.1	—	<0.1
Walleye	118.8	6.0	0.3	222.2
Other species	—	—	0.9	—
Total	267.8	15.5	8.5	525.5
	291.8			
Total gain	233.7			

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Table 10-28: Rupert tailbay – Fish biomass before and after diversion

Species	Biomass (t)			
	Before diversion			After diversion
	Lakes	Rivers	Stream	Lakes
White sucker	17.8	—	0.8	23.8
Lake cisco	0.9	<0.1	—	1.2
Lake whitefish	34.4	0.7	—	46.0
Northern pike	17.1	0.9	0.3	22.9
Burbot	0.4	—	0.7	0.5
Yellow perch	<0.1	< 0.1	< 0.1	< 0.1
Lake trout	2.3	—	—	3.1
Walleye	27.5	1.2	—	36.7
Other species	< 0.1	—	0.6	< 0.1
Total	100.4	2.9	2.4	134.2
	105.7			
Total gain	28.5			

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Table 11-29: Rupert River – Fish biomass – 2002

Species	Rupert River ^a		Lake Nemiscau	
	Biomass		Biomass	
	kg/ha	%	kg/ha	%
Lake sturgeon	2.69	12.5	0.72	3.3
Longnose sucker	2.40	11.1	1.08	5.0
White sucker	1.46	6.8	1.53	7.1
Lake cisco	0.01	< 0.1	0.21	1.0
Lake whitefish	1.62	7.5	3.08	14.3
Northern pike	6.69	31.0	8.20	38.1
Burbot	0.20	0.9	0.07	0.3
Spottail shiner	< 0.01	< 0.1	< 0.01	< 0.1
Yellow perch	0.01	< 0.1	0.08	0.4
Omisco	< 0.01	< 0.1	–	–
Round whitefish	0.11	0.5	0.06	0.3
Brook trout	0.05	0.2	0.53	2.5
Fallfish	0.05	0.2	–	–
Walleye	6.27	29.1	5.99	27.8
Total	21.55	100.0	21.55	100.0

a. Excluding Lake Nemiscau.

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Table 11-32: Rupert River – Fish biomass loss from construction of hydraulic structures in the lower reaches of the river

Species	Biomass loss (t)	
	Temporary	Permanent
Lake sturgeon	0.14	0.01
Longnose sucker	0.12	0.01
White sucker	0.08	<0.01
Lake cisco	<0.01	< 0.01
Lake whitefish	0.08	<0.01
Northern pike	0.34	0.01
Burbot	0.01	< 0.01
Spottail shiner	< 0.01	< 0.01
Yellow perch	<0.01	< 0.01
Omisco	< 0.01	< 0.01
Round whitefish	0.01	< 0.01
Brook trout	<0.01	< 0.01
Fallfish	< 0.01	< 0.01
Walleye	0.32	0.02
Total^a	1.10	0.05

a. Rounding off may cause the totals to be different from the sum of the values.

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Table 11-35: Rupert River – Fish biomass before and after diversion

Species	Lake Nemiscau ^a			Rupert River ^b			Entire river		
	Before (t)	After (t)	Change (t)	Before (t)	After (t)	Change (t)	Before (t)	After (t)	Change (t)
Lake sturgeon	8.2	8.3	+0.1	37.6	31.6	-6	45.9	39.9	-6
Longnose sucker	12.3	12.4	+0.1	33.5	28.1	-5.4	45.9	40.6	-5.3
With sucker	17.4	17.6	+0.2	20.4	17.1	-3.3	37.9	34.7	-3.2
Lake cisco	2.4	2.4	<+0.1	0.1	0.1	0	2.5	2.5	0
Lake whitefish	35.2	35.5	0.3	22.7	19.0	-3.7	57.8	54.5	-3.3
Northern pike	93.7	94.5	0.8	93.6	78.6	-15	187.3	173.1	-14.2
Burbot	0.8	0.8	<+0.1	2.8	2.4	-0.4	3.7	3.2	-0.5
Spottail shiner	<0.01	<0.01	<+0.1	<0.1	<0.01	<- 0.01	<0.1	<0.01	<- 0.01
Yellow perch	0.9	0.9	<+0.1	0.1	0.1	0	1	1	0
Omisco	-	-		<0.1	<0.01	<- 0.01	<0.1	<0.01	<- 0.01
Round whitefish	0.7	0.7	<+0.1	1.6	1.3	-0.3	2.2	2	-0.2
Brook trout	6.0	6.1	0.1	0.7	0.6	-0.1	6.7	6.7	0
Fallfish	-	-	-	0.6	0.5	-0.1	0.6	0.5	-0.1
Walleye	68.5	69.1	+0.6	87.8	73.7	-14.1	156.2	142.7	-13.5
Total	246.1	248.3	+2.2 [+ .9%]	301.5	253.1	- 48.4 [-6.1%]	547.7	501.4	-46.3 [- 8.5%]

a. From KP 170 to KP 195.

b. Excluding Lake Nemiscau.

Chapter 23, page 23-18

Table 23-2: Fish biomass gains and losses in the part of the Rupert watershed affected by the diversion

Species	Biomass gain or loss (t)			
	Rupert forebay	Rupert tailbay	Lower Rupert	Total
Lake sturgeon	18.1	—	- 6.0	12.1
Suckers	38.9	5.2	- 8.4	35.7
Lake cisco	3.8	0.3	0.0	4.1
Lake whitefish	23.2	10.8	- 4.4	30.7
Northern pike	48.3	4.5	- 14.3	38.5
Yellow perch	0.3	—	0.0	0.2
Brook trout	3.8	—	- 0.1	3.8
Lake trout	2.6	0.8	—	3.4
Walleye	97.1	8.0	- 13.5	91.6
Other species	- 2.2	- 1.2	- 0.8	-4.2
Total*	233.8	28.5	- 46.4	215.9

a. Totals may differ from the sums of the values since the latter were initially calculated in kilograms, then expressed in metric tons and rounded off.

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Table 6-2 : Fish biomass gains and losses in the part of the Rupert watershed affected by the diversion

Species	Biomass gain or loss (t)			
	Rupert forebay	Rupert tailbay	Lower Rupert	Total
Lake sturgeon	18.1	—	-6.0	12.1
Suckers	38.9	5.2	-8.4	35.7
Lake cisco	3.8	0.3	0.0	4.1
Lake whitefish	23.2	10.8	-4.4	30.7
Northern pike	48.3	4.5	-14.3	38.5
Yellow perch	0.3	—	0.0	0.2
Brook trout	3.8	—	-0.1	3.8
Lake trout	2.6	0.8	—	3.4
Walleye	97.1	8.0	-13.5	91.6
Other species	-2.2	-1.2	-0.8	-4.2
Total^a	233.8	28.5	-46.4	215.9

a. Totals may differ from the sums of the values since the latter were initially calculated in kilograms, then expressed in metric tons and rounded off.