

**WASSIP sampling and associated harvest rates for Nelson River sockeye**

Dates sampled, sample size, and harvest in the first of three strata. Total number of sampling days and the total sample across all strata. (Source: Eggers et al. 2011)

Section	2006	2007	2008	2009
<b>OPH</b>	<del>not fished</del>	6/20, 6/25 (400) 85,576 6 days, 1200 sel.	6/30 (400) 130,762 4 days, 1200 sel.	<del>6/24, 7/1</del> <del>566 coll, none sel.</del> <del>400, 399</del> <del>5 days, none selected</del>
<b>Ilnik northern</b>	6/25, 6/29 (400) 83,223 11 days, 1200 sel.	6/20, 6/26, 6/27 (400) 121,611 7 days, 1200 sel.	<del>0 collected</del> <del>none selected</del> <del>0</del> <del>4 days, 719 sel.</del>	<del>6/27</del> <del>210 coll, none sel.</del> <del>175, 515</del> <del>5 days, none selected</del>
<b>Ilnik southern</b>	6/25, 7/2 (400) 301,660 10 days, 1200 sel.	6/20, 6/22, 6/24 (400) 201,954 6 days, 1187 sel	7/2 (400) 100,032 4 days, 800 sel	<del>6/27</del> <del>299 coll, none sel.</del> <del>62,449</del> <del>4 days, none selected</del>

Harvest rates for Nelson Lagoon sockeye (% median, 90% CI) from Habicht et al. 2012

Section	2006	2007	2008	2009
<b>OPH</b>	<del>0 (0, 0)</del>	0.7 (0.4, 1.2)	<del>0 (0, 0)</del>	
<b>Ilnik northern</b>	3.1 (2.0, 4.4)	3.4 (2.3, 4.7)	0.5 (0.1, 1.3)	
<b>Ilnik southern</b>	5.3 (3.9, 7.0)	6.5 (5.0, 8.2)	2.9 (1.9, 4.2)	
<b>Bear River</b>	4.1 (3.2, 5.1)	2.7 (2.2, 3.4)	0.0 (0.0, 0.0)	
<b>Three Hills</b>	1.3 (1.0, 1.7)	0.0, (0.0, 0.1)	0.0 (0.0, 0.0)	
<b>All area and temporal stratum combined <sup>a)</sup></b>	14.8 (12.3, 17.9)	14.1 (12.0, 16.4)	<del>4.9 (3.2, 7.4)</del>	

Source: For sampling see Eggers et al. 2011, p. 140-153 and for estimated harvest rates, see Habicht et al. 2012 p. 722-724. Note, the first temporal stratum for Ilnik North ended in all years on June 30<sup>th</sup>, for OPH on June 27<sup>th</sup> in 2007, July 3<sup>rd</sup> in 2008, and July 4<sup>th</sup> in 2009, Ilnik South July 4<sup>th</sup> in 2006, June 27<sup>th</sup> in 2007, July 3<sup>rd</sup> in 2008, and June 29<sup>th</sup> in 2009.

a) Combined harvest rates across all areas extending the Northern District from Habicht et al. 2012, p. 152-154.

**Questions:**

1. How can OPH have an estimated 0% harvest rate with 100% certainty (see credible interval of 0,0) when no sample was taken in 2006?
2. Similarly, how can the estimated 0% harvest rate in OPH for 2008 have 100% certainty with a sample of 400 fish? It is possible but in light of Q3, this harvest rate raises more questions.
3. Why were no harvest rates estimated in 2009, despite over 1000 fish sampled in the first temporal stratum (the stratum of main intercept concern for Nelson River sockeye, see decades long debate in BoF documents), and compared to other WASSIP years, very large OPH harvests?