



Title	The influence of warp length on trawl dimension and catch of walleye pollock <i>Theragra chalcogramma</i> in a bottom trawl survey
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Table 1 Wing spread and bottom clearance as measured by scanmar sensor and the trawl height calculated from the data of depth recorder.

	Scope ratio	Wing spread		Trawl height		Bottom clearance	
		Avg.	S.D.	Avg.	S.D.	Avg.	S.D.
Exp. 1	2.5	16.1	1.71	6.4	0.19	0.1	0.30
	3.0	17.4	0.83	5.1	0.15	0.0	0.12
	3.5	18.3	3.78	5.0	0.16	0.0	0.15
Exp. 2	2.5	16.1	1.69	7.1	0.17	0.1	0.29
	3.0	17.4	1.46	5.6	0.15	0.1	0.17
	3.5	18.1	1.54	5.1	0.16	0.0	0.18

Table 2 Number of walleye pollock caught with catch weight for it and other species in each tow

Species	Scope ratio												
	2.5				3.0				3.5				
	Number	Weight (kg)	Percentage (%)	Ratio*	Number	Weight (kg)	Percentage (%)	Ratio*	Number	Weight (kg)	Percentage (%)	Ratio*	
Exp. 1	Walleye pollock	3704	67.6	80	1.0	3936	83.3	69	1.2	6945	146.9	70	2.2
	Pacific cod	-	0	0	1.0	-	5	4	-	-	0	0	-
	Sculpins	-	11.2	13	1.0	-	11.2	9	1.0	-	34.3	16	3.1
	Flatfishes	-	1.7	2	1.0	-	5.3	5	3.1	-	14.8	7	8.7
	Others	-	4.2	5	1.0	-	15.9	13	3.8	-	14.7	7	3.5
	Total		84.7				120.7				210.7		
Exp. 2	Walleye pollock	2547	36.2	79	1.0	4167	99.7	70	2.8	4862	101.5	47	2.8
	Pacific cod	-	0	0	1.0	-	1.2	1	-	-	1.1	0	-
	Sculpins	-	6.9	15	1.0	-	20.5	14	3.0	-	87	40	12.6
	Flatfishes	-	0.8	2	1.0	-	8.1	6	10.1	-	15.6	7	19.5
	Others	-	2.2	4	1.0	-	12.7	9	5.8	-	12.6	6	5.7
	Total		46.1				142.2				217.8		

*: The ratio was obtained by dividing the weight of each W/D ratio by the weight in 2.5 W/D ratio.

Table 3 Mean fork length of walleye pollock caught at different scope ratios in each experiment (N=300)

	Scope ratio	Fork length (cm)	S.D.
Exp. 1	2.5	13.5	2.73
	3.0	13.7	3.43
	3.5	14.3	3.15
Exp. 2	2.5	13.6	2.17
	3.0	13.7	2.75
	3.5	14.1	2.50