

Appendix Table I. Precision (CV) of total discards, by species and fleet based on 2004 observer data.

Gear Type	Access Area (Open-Closed)	Trip Category (General/Limited)	Region	mesh groups	BLUEFISH	HERRING	SALMON	RED CRAB	SCALLOP	MACK-LSQUID-BUTTERFISH	Mackerel	Illex	Loligo	Butterfish	MONKFISH
Longline	all	all	NE	all	*	*	*	*	*	*	*	*	*	*	*
Longline	all	all	MA	all											
Otter Trawl	all	all	NE	small	0.508	0.437	*	0.428	0.710	0.227	0.634	0.320	0.309	0.366	0.405
Otter Trawl	all	all	NE	large	2.474	1.313	*	0.280	0.350	0.572	0.520	1.097	0.610	0.756	0.088
Otter Trawl	all	all	MA	small	0.903	0.784	*	1.394	0.574	0.561	1.044	0.635	0.735	0.571	0.354
Otter Trawl	all	all	MA	large	1.906	0.775	*	*	0.444	0.390	0.489	0.710	0.456	0.502	0.295
Scallop Trawl	open	limited	MA	all	*	*	*	*	0.000	0.000	*	*	0.000	*	0.000
Scallop Trawl	open	general	MA	all	1.141	*	*	0.640	0.224	0.354	*	0.343	0.252	0.976	0.194
Shrimp Trawl	all	all	NE	all	*	0.479	*	*	0.965	0.981	*	*	*	0.981	0.235
Shrimp Trawl	all	all	MA	all	*	*	*	*	*	*	*	*	*	*	*
Sink, Anchor, Drift Gillnet	all	all	NE	small	*	*	*	*	*	0.000	0.000	*	*	*	*
Sink, Anchor, Drift Gillnet	all	all	NE	large	0.220	0.229	*	0.625	0.969	0.841	0.876	1.067	*	1.520	0.210
Sink, Anchor, Drift Gillnet	all	all	NE	xlq	0.181	0.378	*	0.998	0.421	0.498	0.500	*	*	0.906	0.174
Sink, Anchor, Drift Gillnet	all	all	MA	small	*	*	*	*	*	0.000	*	*	*	0.000	*
Sink, Anchor, Drift Gillnet	all	all	MA	large	1.216	*	*	*	*	*	*	*	*	*	*
Sink, Anchor, Drift Gillnet	all	all	MA	xlq	0.304	*	*	*	0.587	*	*	*	*	*	0.273
Scallop Dredge	open	limited	NE	all	*	*	*	0.842	0.159	0.689	*	0.490	1.112	1.662	0.319
Scallop Dredge	open	limited	MA	all	*	*	*	1.304	0.200	0.305	1.304	0.514	0.383	0.620	0.174
Scallop Dredge	open	general	NE	all	*	*	*	*	0.094	1.274	*	1.274	*	*	0.560
Scallop Dredge	open	general	MA	all	*	*	*	*	0.359	0.865	*	*	0.865	*	0.202
Scallop Dredge	closed	limited	NE	all	0.934	0.160	*	0.793	0.170	0.425	0.160	0.511	0.443	0.195	0.252
Scallop Dredge	closed	limited	MA	all	0.992	0.580	*	0.295	0.202	0.318	0.558	0.365	0.615	0.295	0.262
Scallop Dredge	closed	general	NE	all											
Scallop Dredge	closed	general	MA	all	*	*	*	*	0.000	*	*	*	*	*	0.000
Mid-water paired & single Trawl	all	all	NE	all	0.770	0.770	*	*	1.464	0.429	0.430	0.872	1.457	1.387	0.724
Mid-water paired & single Trawl	all	all	MA	all	0.539	0.982	*	*	*	0.546	0.540	0.547	0.539	0.539	1.108
Fish Pots/ Traps	all	all	NE	all											
Fish Pots/ Traps	all	all	MA	all	*	*	*	*	*	*	*	*	*	*	0.408
Purse Seine	all	all	NE	all	*	0.981	*	*	*	0.935	*	0.935	*	*	*
Purse Seine	all	all	MA	all											
Hand Line	all	all	NE	all	*	*	*	*	*	*	*	*	*	*	*
Hand Line	all	all	MA	all											
Scottish Seine	all	all	NE	all	*	*	*	*	*	*	*	*	*	*	*
Clam Quahog Dredge	all	all	NE	all											
Clam Quahog Dredge	all	all	MA	all											
Crab Pots	all	all	NE	all											
Crab Pots	all	all	MA	all											
Lobster Pots	all	all	NE	all											
Lobster Pots	all	all	MA	all											

Note: when discard ratio = 0, CV is null (*); Gray-shaded cells indicate unlikely species/gear combinations.

Appendix Table I *continued*. Precision (CV) of total discards, by species and fleet based on 2004 observer data .

Gear Type	Access Area (Open-Closed)	Trip Category (General/Limited)	Region	mesh groups	NE MULTI-SPP (LARGE-MESH)														
					Cod	Had-dock	Yellowtail fltd	American plaice	Witch fltd	Winter fltd	Pollock	Redfish	White hake	Window-pane	Halibut	Ocean pout			
Longline	all	all	NE	all	0.335	0.401	0.389	*	*	*	*	1.191	*	*	*	*	0.569		
Longline	all	all	MA	all															
Otter Trawl	all	all	NE	small	0.233	0.658	0.696	0.409	0.304	0.332	0.430	0.546	0.593	0.459	0.291	0.753	0.321		
Otter Trawl	all	all	NE	large	0.101	0.176	0.265	0.222	0.254	0.145	0.429	0.640	0.248	0.235	0.206	0.424	0.161		
Otter Trawl	all	all	MA	small	0.326	*	*	1.081	1.476	0.489	0.561	*	0.905	0.989	0.399	*	1.506		
Otter Trawl	all	all	MA	large	0.251	3.122	*	0.669	*	0.292	0.413	3.122	0.974	3.133	0.312	*	0.477		
Scallop Trawl	open	limited	MA	all	0.000	*	*	*	*	*	*	*	*	*	0.000	*	*		
Scallop Trawl	open	general	MA	all	0.170	*	*	1.036	*	0.471	0.464	*	*	0.640	0.237	*	*		
Shrimp Trawl	all	all	NE	all	0.224	0.352	0.659	0.552	0.305	0.928	0.269	0.473	0.374	0.232	0.207	*	0.960		
Shrimp Trawl	all	all	MA	all	*	*	*	*	*	*	*	*	*	*	*	*	*		
Sink, Anchor, Drift Gillnet	all	all	NE	small	*	*	*	*	*	*	*	*	*	*	*	*	*		
Sink, Anchor, Drift Gillnet	all	all	NE	large	0.092	0.121	0.186	0.198	0.281	0.406	0.288	0.182	0.261	0.231	0.432	0.449	0.437		
Sink, Anchor, Drift Gillnet	all	all	NE	xlg	0.159	0.175	0.246	0.361	0.337	1.018	0.557	0.317	0.364	0.372	0.815	0.436	0.421		
Sink, Anchor, Drift Gillnet	all	all	MA	small	*	*	*	*	*	*	*	*	*	*	*	*	*		
Sink, Anchor, Drift Gillnet	all	all	MA	large	0.868	*	*	*	*	*	*	*	*	*	0.868	*	*		
Sink, Anchor, Drift Gillnet	all	all	MA	xlg	*	*	*	*	*	*	*	*	*	*	*	*	*		
Scallop Dredge	open	limited	NE	all	0.480	0.850	0.848	0.637	0.848	0.485	1.022	0.848	*	0.525	0.454	*	0.656		
Scallop Dredge	open	limited	MA	all	0.242	*	*	0.705	0.809	0.496	0.581	*	*	0.521	0.323	*	1.091		
Scallop Dredge	open	general	NE	all	0.358	1.226	*	0.494	0.908	0.902	0.213	*	*	*	0.438	*	1.287		
Scallop Dredge	open	general	MA	all	0.311	*	*	0.865	0.857	0.650	0.421	*	*	0.653	0.333	*	*		
Scallop Dredge	closed	limited	NE	all	0.137	0.443	0.366	0.181	0.740	0.249	0.177	*	*	0.456	0.306	0.160	0.414		
Scallop Dredge	closed	limited	MA	all	0.631	*	*	1.044	0.295	0.356	1.053	*	*	0.624	0.726	*	1.023		
Scallop Dredge	closed	general	NE	all															
Scallop Dredge	closed	general	MA	all	*	*	*	*	*	*	*	*	*	*	*	*	*		
Mid-water paired & single Trawl	all	all	NE	all	0.669	1.198	0.951	*	1.155	1.203	1.298	0.967	0.996	1.604	*	*	*		
Mid-water paired & single Trawl	all	all	MA	all	0.742	*	*	*	*	1.166	*	*	*	0.542	*	*	*		
Fish Pots/ Traps	all	all	NE	all															
Fish Pots/ Traps	all	all	MA	all	*	*	*	*	*	*	*	*	*	*	*	*	*		
Purse Seine	all	all	NE	all	0.973	*	*	*	*	*	*	*	0.973	*	*	*	*		
Purse Seine	all	all	MA	all															
Hand Line	all	all	NE	all	4.030	4.030	*	*	*	*	*	*	*	*	*	*	*		
Hand Line	all	all	MA	all															
Scottish Seine	all	all	NE	all	0.289	0.279	0.279	*	0.279	*	0.543	*	*	0.279	0.354	*	*		
Clam Quahog Dredge	all	all	NE	all															
Clam Quahog Dredge	all	all	MA	all															
Crab Pots	all	all	NE	all															
Crab Pots	all	all	MA	all															
Lobster Pots	all	all	NE	all															
Lobster Pots	all	all	MA	all															

Note: when discard ratio = 0, CV is null (*); Gray-shaded cells indicate unlikely species/gear combinations.

Appendix Table I *continued*. Precision (CV) of total discards, by species and fleet based on 2004 observer data .

Gear Type	Access Area (Open-Closed)	Trip Category (General/Limited)	Region	mesh groups	Species																
					NE MULTI-SPP (SMALL-MESH)	Silver hake	Offshore hake	Red hake	SKATE	DOG FISH	FLUKE/SCUP/BLK SEA BASS	Fluke	Scup	Black sea bass	SURF CLAM/ OCEAN QUAHOG	TILEFISH					
Longline	all	all	NE	all	0.910	*	*	0.910	0.614	0.654	*	*	*	*	*	*					
Longline	all	all	MA	all																	
Otter Trawl	all	all	NE	small	0.235	0.219	1.511	0.406	0.691	0.322	0.309	0.276	0.551	0.708	1.028	0.304					
Otter Trawl	all	all	NE	large	0.182	0.227	0.322	0.353	0.175	0.245	0.319	0.328	0.918	0.833	1.512	0.529					
Otter Trawl	all	all	MA	small	0.508	0.625	0.683	0.587	0.222	0.367	0.386	0.278	0.560	0.502	0.464	1.155					
Otter Trawl	all	all	MA	large	0.827	0.451	*	1.811	0.209	0.557	0.246	0.266	0.354	0.652	0.609	*					
Scallop Trawl	open	limited	MA	all	*	*	*	*	0.000	*	0.000	0.000	*	0.000	*	*					
Scallop Trawl	open	general	MA	all	0.496	0.508	*	1.141	0.347	0.675	0.505	0.608	0.731	0.638	*	*					
Shrimp Trawl	all	all	NE	all	0.557	0.567	*	0.537	0.799	0.960	*	*	*	*	*	*					
Shrimp Trawl	all	all	MA	all	*	*	*	*	*	*	*	*	*	*	*	*					
Sink, Anchor, Drift Gillnet	all	all	NE	small	*	*	*	*	*	0.000	*	*	*	*	*	*					
Sink, Anchor, Drift Gillnet	all	all	NE	large	0.183	0.238	*	0.219	0.228	0.106	0.845	0.898	*	1.602	*	*					
Sink, Anchor, Drift Gillnet	all	all	NE	xlg	0.624	0.207	*	0.864	0.117	0.162	0.233	0.233	0.904	*	*	0.256					
Sink, Anchor, Drift Gillnet	all	all	MA	small	*	*	*	*	*	0.000	0.000	0.000	*	*	*	*					
Sink, Anchor, Drift Gillnet	all	all	MA	large	*	*	*	*	1.118	1.083	*	*	*	*	*	*					
Sink, Anchor, Drift Gillnet	all	all	MA	xlg	*	*	*	*	0.115	0.129	0.303	0.303	*	*	*	*					
Scallop Dredge	open	limited	NE	all	0.414	0.764	1.173	0.352	0.236	0.515	0.458	0.474	0.322	0.622	0.391	*					
Scallop Dredge	open	limited	MA	all	0.758	0.856	0.738	0.402	0.126	0.230	0.259	0.272	0.704	0.558	0.771	*					
Scallop Dredge	open	general	NE	all	0.104	1.300	*	0.103	0.177	0.318	0.092	0.092	*	*	1.287	*					
Scallop Dredge	open	general	MA	all	0.482	0.467	*	0.857	0.202	0.550	0.461	0.461	*	*	0.830	*					
Scallop Dredge	closed	limited	NE	all	0.374	0.390	0.649	0.421	0.134	0.349	0.344	0.345	0.450	0.160	0.412	*					
Scallop Dredge	closed	limited	MA	all	0.264	0.321	*	0.277	0.135	0.364	0.311	0.312	0.921	0.365	0.295	*					
Scallop Dredge	closed	general	NE	all																	
Scallop Dredge	closed	general	MA	all	*	*	*	*	0.000	*	0.000	0.000	*	*	*	*					
Mid-water paired & single Trawl	all	all	NE	all	0.994	1.000	*	0.748	1.177	0.418	0.628	*	0.671	1.626	*	*					
Mid-water paired & single Trawl	all	all	MA	all	0.539	0.539	*	0.539	*	0.246	1.172	1.164	*	1.176	*	*					
Fish Pots/ Traps	all	all	NE	all																	
Fish Pots/ Traps	all	all	MA	all	*	*	*	*	*	*	0.161	*	0.163	0.161	*	*					
Purse Seine	all	all	NE	all	*	*	*	*	*	0.972	*	*	*	*	*	*					
Purse Seine	all	all	MA	all																	
Hand Line	all	all	NE	all	*	*	*	*	*	*	*	*	*	*	*	*					
Hand Line	all	all	MA	all																	
Scottish Seine	all	all	NE	all	0.279	0.279	*	0.279	0.319	*	0.253	0.259	0.808	0.808	*	*					
Clam Quahog Dredge	all	all	NE	all																	
Clam Quahog Dredge	all	all	MA	all																	
Crab Pots	all	all	NE	all																	
Crab Pots	all	all	MA	all																	
Lobster Pots	all	all	NE	all																	
Lobster Pots	all	all	MA	all																	

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Gear Type	Access Area (Open-Closed)	Trip Category (General/Limited)	Region	mesh groups	Species											SEA BIRDS (ALL)	ALL SPECIES	PILOT coverage
					WHALE, PILOT, LONG-FIN	WHALE, MINKE	WHALE, NK	DOLPHINS/PORPOISE	DOLPHIN WHITE-SIDED	DOLPHIN-COMMON	DOLPHIN-BOTTLE-NOSE	PORPOISE-HARBOR	PORPOISE/DOLP HIN, NK					
Longline	all	all	NE	all	*	*	*	*	*	*	*	*	*	*	0.425	0.489		
Longline	all	all	MA	all	*	*	*	*	*	*	*	*	*	*	*		pilot	
Otter Trawl	all	all	NE	small	0.931	*	*	0.650	0.936	0.713	*	*	*	*	0.548	0.193		
Otter Trawl	all	all	NE	large	1.089	*	*	0.389	0.389	*	*	*	*	0.489	0.124			
Otter Trawl	all	all	MA	small	*	*	*	0.557	*	0.557	*	*	*	0.706	0.247			
Otter Trawl	all	all	MA	large	*	*	*	*	*	*	*	*	*	0.672	0.185			
Scallop Trawl	open	limited	MA	all	*	*	*	*	*	*	*	*	*	*	0.000	pilot		
Scallop Trawl	open	general	MA	all	*	*	*	*	*	*	*	*	*	*	0.243	pilot		
Shrimp Trawl	all	all	NE	all	*	*	*	*	*	*	*	*	*	*	0.310			
Shrimp Trawl	all	all	MA	all	*	*	*	*	*	*	*	*	*	*	0.052	pilot		
Sink, Anchor, Drift Gillnet	all	all	NE	small	*	*	*	*	*	*	*	*	*	*	0.000	pilot		
Sink, Anchor, Drift Gillnet	all	all	NE	large	*	*	*	0.359	0.977	*	*	0.384	*	0.342	0.092			
Sink, Anchor, Drift Gillnet	all	all	NE	xlq	*	*	*	0.288	*	*	0.751	0.300	*	0.602	0.085			
Sink, Anchor, Drift Gillnet	all	all	MA	small	*	*	*	*	*	*	*	*	*	0.582	0.000	pilot for fish		
Sink, Anchor, Drift Gillnet	all	all	MA	large	*	*	*	*	*	*	*	*	*	0.618	1.078	pilot for fish		
Sink, Anchor, Drift Gillnet	all	all	MA	xlq	*	*	*	0.924	*	*	*	0.924	*	0.693	0.052	pilot for fish		
Scallop Dredge	open	limited	NE	all	*	*	*	*	*	*	*	*	*	0.896	0.197			
Scallop Dredge	open	limited	MA	all	*	*	*	*	*	*	*	*	*	*	0.112			
Scallop Dredge	open	general	NE	all	*	*	*	*	*	*	*	*	*	*	0.325	pilot		
Scallop Dredge	open	general	MA	all	*	*	*	*	*	*	*	*	*	*	0.184			
Scallop Dredge	closed	limited	NE	all	*	*	*	*	*	*	*	*	*	0.157	0.132			
Scallop Dredge	closed	limited	MA	all	*	*	*	*	*	*	*	*	*	*	0.118			
Scallop Dredge	closed	general	NE	all	*	*	*	*	*	*	*	*	*	*		pilot		
Scallop Dredge	closed	general	MA	all	*	*	*	*	*	*	*	*	*	*	0.000	pilot		
Mid-water paired & single Trawl	all	all	NE	all	1.114	*	*	0.786	0.786	*	*	*	*	0.554	0.317			
Mid-water paired & single Trawl	all	all	MA	all	*	*	*	*	*	*	*	*	*	*	0.412			
Fish Pots/ Traps	all	all	NE	all												pilot		
Fish Pots/ Traps	all	all	MA	all	*	*	*	*	*	*	*	*	*	*	0.137	pilot		
Purse Seine	all	all	NE	all	*	*	*	*	*	*	*	*	*	*	0.715			
Purse Seine	all	all	MA	all	*	*	*	*	*	*	*	*	*	*		pilot		
Hand Line	all	all	NE	all	*	*	*	*	*	*	*	*	*	*	4.030	pilot		
Hand Line	all	all	MA	all	*	*	*	*	*	*	*	*	*	*		pilot		
Scottish Seine	all	all	NE	all	*	*	*	*	*	*	*	*	*	*	0.423	pilot		
Clam Quahog Dredge	all	all	NE	all												pilot		
Clam Quahog Dredge	all	all	MA	all												pilot		
Crab Pots	all	all	NE	all												pilot		
Crab Pots	all	all	MA	all												pilot		
Lobster Pots	all	all	NE	all	*	*	*	*	*	*	*	*	*	*		pilot		
Lobster Pots	all	all	MA	all	*	*	*	*	*	*	*	*	*	*		pilot		

Note: when discard ratio = 0, CV is null (*); Gray-shaded cells indicate unlikely species/gear combinations.