

Summary of Sea Lice Data Collected on Atlantic Salmon Farms

KEY

Mobile ~ *Lepeophtheirus* sp (pre adult and adult stages)
Female ~ Adult female *Lepeophtheirus* sp (adult female)
Caligus ~ sp. (pre adult and adult)

Yearclass 1 ~ For salmon 1 year or less in seawater.
Yearclass 2 ~ For Salmon 1 years or more in seawater.

Atlantic Salmon Sea Lice Abundances

Yearclass 1

Yearclass 2

ZONE/SUBZONE 2.3	Mobile	Female	Caligus	n
Jan-10	0.38	0.15	0.14	5(7)
std error	0.20	0.09	0.10	
Feb-10	0.33	0.13	0.31	6(9)
std error	0.18	0.09	0.17	
Mar-10	0.39	0.12	0.47	6(8)
std error	0.16	0.06	0.41	
Apr-10	0.35	0.09	0.36	5(7)
std error	0.22	0.07	0.30	
May-10	0.12	0.03	0.03	5(7)
std error	0.07	0.02	0.03	
Jun-10	0.17	0.05	0.05	5(9)
std error	0.08	0.02	0.01	
Jul-10	0.09	0.03	0.00	5(7)
std error	0.04	0.02	0.00	
Aug-10	0.08	0.04	0.04	5(10)
std error	0.03	0.02	0.02	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 2.3	Mobile	Female	Caligus	n
Jan-10	0.62	0.30	0.04	4(7)
std error	0.27	0.09	0.02	
Feb-10	0.77	0.42	0.43	3(6)
std error	0.54	0.31	0.22	
Mar-10	1.28	0.59	0.27	3(4)
std error	0.67	0.37	0.23	
Apr-10	0.44	0.12	0.46	4(6)
std error	0.19	0.07	0.38	
May-10	0.26	0.13	0.25	4(5)
std error	0.14	0.07	0.23	
Jun-10	0.16	0.10	0.07	5(9)
std error	0.08	0.06	0.04	
Jul-10	0.18	0.14	0.07	3(4)
std error	0.14	0.13	0.07	
Aug-10	0.17	0.11	0.05	3(6)
std error	0.06	0.02	0.01	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 2.4	Mobile	Female	Caligus	n
Jan-10	3.52	1.38	0.79	6(8)
std error	0.73	0.37	0.38	
Feb-10	1.64	0.40	0.10	5(6)
std error	0.58	0.15	0.05	
Mar-10	1.22	0.32	0.20	5
std error	0.60	0.16	0.19	
Apr-10	0.22	0.12	0.12	5
std error	0.12	0.06	0.11	
May-10	0.09	0.01	0.00	2
std error	0.04	0.01	0.00	
Jun-10	0.11	0.03	0.02	2
std error	0.04	0.03	0.00	
Jul-10	0.43	0.04	0.03	2
std error	0.28	0.04	0.03	
Aug-10	1.45	0.46	0.13	2(3)
std error	0.83	0.21	0.10	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 2.4	Mobile	Female	Caligus	n
Jan-10	10.80	5.70	0.00	3(5)
std error	3.82	2.68	0.00	
Feb-10	6.67	3.17	0.00	5(6)
std error	3.37	1.62	0.00	
Mar-10	0.59	0.27	0.00	3
std error	0.15	0.03	0.00	
Apr-10	0.95	0.37	0.06	2
std error	0.42	0.12	0.05	
May-10	0.34	0.09	0.43	5
std error	0.07	0.04	0.34	
Jun-10	0.55	0.34	0.22	5(6)
std error	0.11	0.12	0.16	
Jul-10	0.66	0.29	0.07	5(6)
std error	0.19	0.11	0.07	
Aug-10	1.21	0.67	0.03	5(6)
std error	0.76	0.46	0.02	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

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Female ~ Adult female *Lepeophtheirus* sp (adult female)
Caligus ~ sp. (pre adult and adult)

Yearclass 1 ~ For salmon 1 year or less in seawater.
Yearclass 2 ~ For Salmon 1 years or more in seawater.

Atlantic Salmon Sea Lice Abundances

Yearclass 1

Yearclass 2

ZONE/SUBZONE 3.1	Mobile	Female	Caligus	n
Jan-10	0.00	0.00	0.00	1
std error				
Feb-10	0.13	0.00	0.00	1
std error				
Mar-10	0.28	0.00	0.00	3
std error	0.21	0.00	0.00	
Apr-10	0.14	0.08	0.02	3(4)
std error	0.09	0.08	0.02	
May-10	0.36	0.04	0.00	2
std error	0.18	0.04	0.00	
Jun-10	0.04	0.00	0.32	2
std error	0.02	0.00	0.28	
Jul-10	0.00	0.00	0.05	1
std error				
Aug-10	0.15	0.07	0.05	1
std error				
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 3.1	Mobile	Female	Caligus	n
Jan-10	2.30	1.14	0.50	2(3)
std error	2.30	1.14	0.50	
Feb-10	4.65	1.52	0.63	1(2)
std error				
Mar-10	0.02	0.00	0.00	2
std error	0.02	0.00	0.00	
Apr-10	0.09	0.03	0.00	2
std error	0.02	0.03	0.00	
May-10	0.29	0.16	0.00	2
std error	0.01	0.03	0.00	
Jun-10	0.81	0.47	0.16	2
std error	0.54	0.39	0.16	
Jul-10	*	*	*	
std error				
Aug-10	*	*	*	
std error				
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 3.2	Mobile	Female	Caligus	n
Jan-10	1.71	0.54	0.52	6(9)
std error	0.66	0.27	0.36	
Feb-10	0.30	0.05	0.82	7
std error	0.06	0.02	0.32	
Mar-10	0.23	0.05	0.61	9(10)
std error	0.06	0.01	0.29	
Apr-10	0.33	0.07	0.79	9(11)
std error	0.14	0.04	0.37	
May-10	0.31	0.06	0.63	7(10)
std error	0.05	0.02	0.15	
Jun-10	0.74	0.12	0.83	6(7)
std error	0.19	0.05	0.21	
Jul-10	1.27	0.36	1.38	5(6)
std error	1.15	0.16	0.54	
Aug-10	0.92	0.33	0.33	6(9)
std error	0.23	0.11	0.16	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 3.2	Mobile	Female	Caligus	n
Jan-10	1.17	0.66	0.12	2
std error	1.06	0.60	0.08	
Feb-10	2.83	1.26	1.61	2
std error	2.77	1.26	1.61	
Mar-10	0.57	0.14	2.08	3
std error	0.22	0.10	1.09	
Apr-10	1.44	0.50	2.69	3(4)
std error	0.74	0.21	1.99	
May-10	0.93	0.36	0.59	5(7)
std error	0.56	0.24	0.28	
Jun-10	0.42	0.10	0.60	7(9)
std error	0.10	0.03	0.27	
Jul-10	0.21	0.10	0.28	7
std error	0.07	0.04	0.20	
Aug-10	1.22	0.60	0.43	6(8)
std error	0.30	0.18	0.13	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

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Yearclass 2 ~ For Salmon 1 years or more in seawater.

Atlantic Salmon Sea Lice Abundances

Yearclass 1

Yearclass 2

ZONE/SUBZONE 3.3	Mobile	Female	Caligus	n
Jan-10	0.19	0.04	0.15	5(8)
std error	0.05	0.02	0.06	
Feb-10	1.06	0.30	0.09	5
std error	0.65	0.13	0.06	
Mar-10	0.30	0.04	0.11	4
std error	0.14	0.03	0.05	
Apr-10	0.36	0.05	0.24	5(8)
std error	0.20	0.03	0.16	
May-10	0.42	0.08	0.31	7(8)
std error	0.26	0.06	0.11	
Jun-10	0.39	0.01	0.35	6(8)
std error	0.17	0.01	0.19	
Jul-10	0.23	0.03	0.09	8(12)
std error	0.12	0.02	0.06	
Aug-10	0.52	0.26	0.06	9(10)
std error	0.38	0.21	0.04	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 3.3	Mobile	Female	Caligus	n
Jan-10	1.64	0.84	0.08	9(10)
std error	1.00	0.54	0.04	
Feb-10	0.37	0.22	0.04	7
std error	0.24	0.13	0.03	
Mar-10	0.34	0.15	0.24	9
std error	0.12	0.07	0.16	
Apr-10	0.80	0.28	1.70	8
std error	0.39	0.17	0.94	
May-10	0.77	0.29	1.86	6(8)
std error	0.25	0.11	0.79	
Jun-10	0.46	0.14	0.33	8(10)
std error	0.14	0.04	0.14	
Jul-10	0.21	0.10	0.28	7
std error	0.07	0.04	0.20	
Aug-10	0.43	0.20	0.05	5
std error	0.17	0.10	0.03	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 3.4	Mobile	Female	Caligus	n
Jan-10	0.10	0.03	0.20	1
std error				
Feb-10	0.37	0.03	0.33	1
std error				
Mar-10	0.75	0.22	0.22	1
std error				
Apr-10	1.11	0.34	0.44	2(3)
std error	1.02	0.34	0.29	
May-10	0.13	0.01	0.13	3
std error	0.07	0.01	0.09	
Jun-10	0.28	0.05	0.50	2
std error	0.18	0.05	0.08	
Jul-10	0.73	0.09	1.28	3(4)
std error	0.22	0.04	0.06	
Aug-10	0.73	0.12	0.77	3
std error	0.11	0.06	0.20	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 3.4	Mobile	Female	Caligus	n
Jan-10	3.37	2.25	0.32	5
std error	1.25	1.09	0.23	
Feb-10	2.92	1.40	0.24	4
std error	1.19	0.63	0.10	
Mar-10	3.77	1.75	0.24	4(7)
std error	1.53	0.87	0.15	
Apr-10	0.97	0.44	0.03	3(4)
std error	0.66	0.26	0.03	
May-10	1.10	0.34	0.06	4
std error	0.95	0.28	0.06	
Jun-10	0.14	0.01	0.04	4
std error	0.07	0.01	0.02	
Jul-10	0.13	0.03	0.77	3(4)
std error	0.10	0.03	0.45	
Aug-10	0.20	0.03	0.16	3
std error	0.09	0.02	0.08	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

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Mobile ~ *Lepeophtheirus* sp (pre adult and adult stages)
Female ~ Adult female *Lepeophtheirus* sp (adult female)
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Yearclass 1 ~ For salmon 1 year or less in seawater.
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Atlantic Salmon Sea Lice Abundances

ZONE/SUBZONE 3.5	Yearclass 1			n
	Mobile	Female	Caligus	
Jan-10	*	*	*	
std error				
Feb-10	0.29	0.02	0.02	1
std error				
Mar-10	0.60	0.25	0.25	1
std error				
Apr-10	0.20	0.03	0.07	1
std error				
May-10	0.25	0.02	0.03	1
std error				
Jun-10	0.07	0.00	0.07	1
std error				
Jul-10	2.00	1.21	0.01	2(3)
std error	1.95	1.18	0.02	
Aug-10	1.01	0.41	0.18	2
std error	0.68	0.29	0.18	
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

ZONE/SUBZONE 3.5	Yearclass 2			n
	Mobile	Female	Caligus	
Jan-10	3.62	1.68	0.06	5
std error	1.37	0.67	0.04	
Feb-10	2.63	1.52	0.01	3
std error	0.63	0.24	0.01	
Mar-10	1.30	0.71	0.04	4(5)
std error	0.60	0.38	0.03	
Apr-10	0.14	0.04	0.01	4
std error	0.03	0.01	0.01	
May-10	0.21	0.02	0.06	3
std error	0.15	0.00	0.05	
Jun-10	0.81	0.37	0.04	3
std error	0.34	0.18	0.04	
Jul-10	0.87	0.60	0.05	1
std error				
Aug-10				
std error				
Sep-10				
std error				
Oct-10				
std error				
Nov-10				
std error				
Dec-10				
std error				

() - total number of site counts for months where two counts have been requested.

*** Reasons for missing site lice counts**

- Site is fallow
- Site is harvesting and < 3 pens left on site
- Smolt entry and < 3 pens on site, or <1 month since third smolt pen entered
- Fish being treated for sea lice
- *Fish being treated/ managed for other fish health problem
- Fish could not be handled due to environmental concerns, e.g. low DO