

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 2 years or more in seawater.

Atlantic Salmon Sea Lice Abundances

Yearclass 1				
ZONE/SUBZONE 2.3	Mobile	Female	Caligus	n
Jan-08	4.53	2.21	0.15	3(5)
std error	3.87	1.92	0.02	
Feb-08	1.18	0.57	0.00	2(3)
std error	1.10	0.57	0.00	
Mar-08	0.41	0.22	0.03	2(3)
std error	0.23	0.19	0.03	
Apr-08	0.43	0.09	0.03	3
std error	0.16	0.02	0.01	
May-08	0.28	0.02	0	1
std error				
Jun-08	0.64	0.10	0.00	2
std error	0.64	0.10	0.00	
Jul-08	0.31	0.06	0.03	2(3)
std error	0.31	0.06	0.03	
Aug-08	0.35	0.11	0.03	3(4)
std error	0.15	0.04	0.03	
Sep-08	0.64	0.22	3.96	5(7)
std error	0.24	0.08	3.86	
Oct-08	0.88	0.19	0.17	4
std error	0.22	0.05	0.09	
Nov-08	0.97	0.35	1.66	5(6)
std error	0.33	0.14	1.33	
Dec-08	0.90	0.48	1.07	5(6)
std error	0.50	0.30	0.92	

Yearclass 2				
ZONE/SUBZONE 2.3	Mobile	Female	Caligus	n
Jan-08	2.32	1.08	0.00	3
std error	2.14	0.99	0.00	
Feb-08	0.68	0.27	0.02	3(6)
std error	0.279	0.10	0.02	
Mar-08	0.85	0.27	0.07	2(4)
std error	0.64	0.23	0.07	
Apr-08	1.49	0.58	0.25	2(3)
std error	1.39	0.57	0.25	
May-08	1.27	0.60	0.15	4(7)
std error	0.72	0.41	0.06	
Jun-08	2.42	0.72	0.24	3
std error	1.88	0.62	0.13	
Jul-08	0.19	0.07	0.00	3(4)
std error	0.12	0.04	0.00	
Aug-08	0.28	0.20	0.03	1
std error				
Sep-08	*	*	*	
std error				
Oct-08	0.02	0.00	0.00	1
std error				
Nov-08	1.47	0.90	0.17	1
std error				
Dec-08	0.25	0.17	0.00	1
std error				

Yearclass 1				
ZONE/SUBZONE 2.4	Mobile	Female	Caligus	n
Jan-08	3.05	0.83	0.00	2(3)
std error	0.83	0.64	0.00	
Feb-08	1.96	1.05	0.00	2
std error	1.31	1.02	0.00	
Mar-08	0.83	0.46	0.00	2
std error	0.83	0.46	0.00	
Apr-08	0.30	0.18	0.00	2
std error	0.30	0.18	0.00	
May-08	0.28	0.14	0.00	2
std error	0.11	0.12	0.00	
Jun-08	0.07	0.02	0.00	3
std error	0.05	0.01	0.00	
Jul-08	0.03	0.00	0.00	1
std error				
Aug-08	0.20	0.08	0.00	2
std error	0.13	0.06	0.00	
Sep-08	0.40	0.20	0.00	1
std error				
Oct-08	4.84	1.16	0.19	3
std error	3.44	0.57	0.19	
Nov-08	2.97	1.33	0.12	2
std error	2.15	0.90	0.12	
Dec-08	3.17	1.39	0.99	2
std error	2.65	1.17	0.99	

Yearclass 2				
ZONE/SUBZONE 2.4	Mobile	Female	Caligus	n
Jan-08	0.94	0.41	0.00	7(8)
std error	0.25	0.06	0.00	
Feb-08	1.34	0.53	0.18	6
std error	0.78	0.25	0.17	
Mar-08	0.47	0.23	0.00	7
std error	0.12	0.07	0.00	
Apr-08	0.47	0.13	0.01	6
std error	0.23	0.06	0.01	
May-08	0.48	0.22	0.00	6
std error	0.24	0.11	0.00	
Jun-08	0.77	0.33	0.01	5
std error	0.49	0.21	0.01	
Jul-08	1.06	0.36	0.01	7
std error	0.53	0.24	0.01	
Aug-08	2.02	0.80	0.08	6(7)
std error	1.15	0.37	0.08	
Sep-08	4.27	1.23	0.00	3
std error	3.27	0.59	0.00	
Oct-08	0.86	0.66	0.04	2
std error	0.27	0.21	0.02	
Nov-08	1.67	0.78	0.00	3
std error	0.53	0.56	0.00	
Dec-08	2.72	1.60	0.08	4
std error	1.64	1.01	0.08	

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 2 years or more in seawater.

Atlantic Salmon Sea Lice Abundances

Yearclass 1

Yearclass 2

ZONE/SUBZONE 3.1	Mobile	Female	Caligus	n
Jan-08				
std error				
Feb-08				
std error				
Mar-08				
std error				
Apr-08				
std error				
May-08				
std error				
Jun-08				
std error				
Jul-08				
std error				
Aug-08				
std error				
Sep-08				
std error				
Oct-08				
std error				
Nov-08				
std error				
Dec-08				
std error				

ZONE/SUBZONE 3.1	Mobile	Female	Caligus	n
Jan-08				
std error				
Feb-08				
std error				
Mar-08				
std error				
Apr-08				
std error				
May-08				
std error				
Jun-08				
std error				
Jul-08				
std error				
Aug-08				
std error				
Sep-08				
std error				
Oct-08				
std error				
Nov-08				
std error				
Dec-08				
std error				

ZONE/SUBZONE 3.2	Mobile	Female	Caligus	n
Jan-08	1.61	0.77	0.15	6
std error	0.70	0.48	0.02	
Feb-08	1.17	0.55	0.34	5
std error	0.41	0.23	0.09	
Mar-08	1.37	0.42	0.19	8
std error	0.63	0.25	0.09	
Apr-08	0.94	0.12	0.15	5
std error	0.40	0.06	0.05	
May-08	0.79	0.17	0.18	4(6)
std error	0.24	0.07	0.09	
Jun-08	1.31	0.39	0.04	4
std error	0.76	0.28	0.02	
Jul-08	0.45	0.05	0.30	2
std error	0.27	0.02	0.28	
Aug-08	1.30	0.23	2.03	4
std error	0.60	0.13	1.82	
Sep-08	0.68	0.20	0.00	5
std error	0.31	0.13	0.15	
Oct-08	0.32	0.08	0.20	3
std error	0.15	0.00	0.13	
Nov-08	0.37	0.12	0.02	1
std error				
Dec-08	0.59	0.19	0.83	2
std error	0.06	0.14	0.55	

ZONE/SUBZONE 3.2	Mobile	Female	Caligus	n
Jan-08	2.35	1.30	0.14	7(8)
std error	0.64	0.40	0.06	
Feb-08	0.81	0.38	0.00	5
std error	0.62	0.30	0.00	
Mar-08	2.17	1.03	0.14	6
std error	0.82	0.39	0.11	
Apr-08	3.29	0.93	0.24	9(14)
std error	1.44	0.45	0.12	
May-08	1.72	0.79	0.12	10(11)
std error	0.68	0.33	0.08	
Jun-08	0.35	0.15	0.11	8
std error	0.10	0.04	0.11	
Jul-08	0.37	0.19	0.12	8
std error	0.13	0.09	0.05	
Aug-08	0.39	0.17	0.08	7
std error	0.14	0.06	0.01	
Sep-08	0.86	0.33	0.10	7
std error	0.23	0.12	0.03	
Oct-08	0.72	0.32	0.18	8
std error	0.15	0.10	0.07	
Nov-08	1.27	0.56	0.28	11
std error	0.28	0.17	0.12	
Dec-08	2.87	1.33	0.80	11
std error	0.51	0.31	0.37	

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 2 years or more in seawater.

Atlantic Salmon Sea Lice Abundances

		Yearclass 1			
ZONE/SUBZONE 3.3		Mobile	Female	Caligus	n
Jan-08		0.34	0.12	0.23	5
	std error	0.15	0.07	0.09	
Feb-08		0.52	0.23	0.28	3
	std error	0.27	0.13	0.19	
Mar-08		0.33	0.09	0.23	4
	std error	0.19	0.07	0.18	
Apr-08		0.18	0.14	0.27	2
	std error	0.16	0.14	0.17	
May-08		0.28	0.03	0.03	1
	std error				
Jun-08		0.21	0.02	0.16	3(4)
	std error	0.08	0.07	0.05	
Jul-08		0.11	0.05	0.02	2
	std error	0.04	0.02	0.02	
Aug-08		0.53	0.14	0.12	2
	std error	0.40	0.14	0.09	
Sep-08		0.74	0.18	0.08	5
	std error	0.37	0.13	0.08	
Oct-08		1.09	0.33	0.21	6(7)
	std error	0.40	0.16	0.12	
Nov-08		1.10	0.40	0.34	7(8)
	std error	0.40	0.22	0.16	
Dec-08		0.31	0.05	0.28	3
	std error	0.13	0.04	0.28	

		Yearclass 2			
ZONE/SUBZONE 3.3		Mobile	Female	Caligus	n
Jan-08		2.00	0.86	0.34	11(13)
	std error	0.81	0.32	0.14	
Feb-08		1.48	0.57	0.11	9(10)
	std error	0.86	0.35	0.05	
Mar-08		1.05	0.54	0.13	10(11)
	std error	0.49	0.31	0.08	
Apr-08		0.49	0.16	0.15	12
	std error	0.21	0.07	0.09	
May-08		0.65	0.30	0.23	12
	std error	0.33	0.18	0.09	
Jun-08		0.43	0.17	0.23	11(12)
	std error	0.33	0.15	0.14	
Jul-08		0.37	0.13	0.08	11(12)
	std error	0.18	0.08	0.05	
Aug-08		0.29	0.12	0.26	9
	std error	0.13	0.07	0.26	
Sep-08		0.34	0.18	0.18	10
	std error	0.16	0.10	0.15	
Oct-08		0.58	0.21	0.07	9
	std error	0.19	0.07	0.04	
Nov-08		1.60	0.64	0.21	8(9)
	std error	0.59	0.25	0.12	
Dec-08		1.79	0.76	0.30	9(10)
	std error	0.69	0.32	0.15	

		Yearclass 1			
ZONE/SUBZONE 3.4		Mobile	Female	Caligus	n
Jan-08		*	*	*	
	std error				
Feb-08		*	*	*	
	std error				
Mar-08		*	*	*	
	std error				
Apr-08		*	*	*	
	std error				
May-08		0.43	0.12	0.02	3
	std error	0.29	0.07	0.02	
Jun-08		0.21	0.11	0.08	3
	std error	0.08	0.07	0.05	
Jul-08		0.22	0.08	0.18	3
	std error	0.10	0.08	0.13	
Aug-08		0.55	0.14	0.39	3
	std error	0.11	0.08	0.25	
Sep-08		1.03	0.30	1.13	3
	std error	0.22	0.06	1.03	
Oct-08		0.86	0.44	0.68	3
	std error	0.04	0.09	0.37	
Nov-08		1.05	0.38	0.32	4
	std error	0.23	0.10	0.17	
Dec-08		1.35	0.45	1.40	3
	std error	0.51	0.14	0.58	

		Yearclass 2			
ZONE/SUBZONE 3.4		Mobile	Female	Caligus	n
Jan-08		3.80	2.47	0.16	4(5)
	std error	1.20	0.66	0.05	
Feb-08		3.41	1.83	0.21	3(4)
	std error	0.84	0.38	0.06	
Mar-08		2.72	1.81	0.14	4(5)
	std error	1.05	0.79	0.09	
Apr-08		1.86	1.14	0.04	4(6)
	std error	0.90	0.68	0.02	
May-08		1.29	0.97	0.06	3(4)
	std error	0.87	0.71	0.02	
Jun-08		0.82	0.32	0.22	2
	std error	0.52	0.32	0.14	
Jul-08		0.35	0.10	0.23	1
	std error				
Aug-08		0.33	0.12	0.77	1
	std error				
Sep-08		0.80	0.20	0.20	1
	std error				
Oct-08		0.88	0.27	0.55	1
	std error				
Nov-08		0.65	0.33	0.00	1
	std error				
Dec-08		0.27	0.05	0.00	1
	std error				

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 2 years or more in seawater.

Atlantic Salmon Sea Lice Abundances

		Yearclass 1			
ZONE/SUBZONE 3.5		Mobile	Female	Caligus	n
Jan-08		0.65	0.09	0.01	2(3)
	std error	0.33	0.04	0.01	
Feb-08		0.15	0.05	0.00	1
	std error				
Mar-08		0.18	0.08	0.04	2
	std error	0.10	0.05	0.01	
Apr-08		0.08	0.00	0.25	1
	std error				
May-08		0.07	0.00	0.02	1
	std error				
Jun-08		0.03	0.00	0.02	1
	std error				
Jul-08		0.03	0.01	0.00	1(2)
	std error				
Aug-08		0.01	0.00	0.00	1
	std error				
Sep-08		0.20	0.00	0.00	1(2)
	std error				
Oct-08		0.27	0.14	0.08	1
	std error				
Nov-08		*	*	*	
	std error				
Dec-08		*	*	*	
	std error				

		Yearclass 2			
ZONE/SUBZONE 3.5		Mobile	Female	Caligus	n
Jan-08		1.62	1.01	0.00	2
	std error	0.10	0.11	0.00	
Feb-08		0.73	0.41	0.00	2(3)
	std error	0.63	0.40	0.00	
Mar-08		0.82	0.50	0.10	1
	std error				
Apr-08		0.91	0.50	0.02	3
	std error	0.59	0.38	0.00	
May-08		0.05	0.02	0.00	2
	std error				
Jun-08		0.03	0.00	0.00	2
	std error				
Jul-08		0.10	0.02	0.00	1
	std error				
Aug-08		0.18	0.04	0.00	2
	std error	0.05	0.01	0.00	
Sep-08		0.25	0.10	0.00	2
	std error	0.05	0.00	0.00	
Oct-08		0.26	0.15	0.01	2(4)
	std error	0.17	0.11	0.01	
Nov-08		0.04	0.02	0.00	2
	std error	0.02	0.02	0.00	
Dec-08		0.00	0.00	0.00	1
	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