

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

ZONE/SUBZONE 2.3	Yearclass 1			n
	Mobile	Female	Caligus	
Nov-04	0.29	0.11	0.00	4
std error	0.07	0.04	0.00	
Dec-04	0.31	0.18	0.00	3
std error	0.06	0.05	0.00	
Jan-05	0.85	0.32	0.11	3
std error	0.39	0.15	0.11	
Feb-05	1.65	0.85	0.21	3
std error	0.71	0.40	0.21	
Mar-05	1.67	0.59	0.01	3
std error	0.87	0.52	0.01	
Apr-05	0.80	0.20	0.24	6(8)
std error	0.22	0.08	0.12	
May-05	1.07	0.42	0.21	7
std error	0.49	0.20	0.09	
Jun-05	0.54	0.12	0.38	4
std error	0.23	0.07	0.17	
Jul-05	0.56	0.17	0.17	3
std error	0.31	0.11	0.08	
Aug-05	0.54	0.16	0.11	5
std error	0.18	0.06	0.04	
Sep-05	0.94	0.39	0.11	3
std error	0.52	0.26	0.08	
Oct-05	1.15	0.64	0.07	4
std error	0.36	0.22	0.05	
Nov-05				
std error				
Dec-05				
std error				

ZONE/SUBZONE 2.3	Yearclass 2			n
	Mobile	Female	Caligus	
Nov-04	0.00	0.00	0.00	1
std error				
Dec-04	0.02	0.02	0.00	1
std error				
Jan-05	0.33	0.18	0.00	1
std error				
Feb-05	3.84	2.13	0.01	3
std error	3.61	2.03	0.01	
Mar-05	2.30	1.30	0.38	4(6)
std error	1.17	0.61	0.36	
Apr-05	1.13	0.54	0.03	4
std error	0.35	0.10	0.01	
May-05	0.01	0.00	0.00	2(2)
std error	0.01	0.00	0.00	
Jun-05	0.08	0.07	0.01	2
std error	0.05	0.07	0.01	
Jul-05	0.11	0.06	0.00	2
std error	0.06	0.04	0.00	
Aug-05	0.50	0.28	0.03	2
std error	0.32	0.21	0.01	
Sep-05	1.42	0.93	0.00	1
std error				
Oct-05	*	*	*	*
std error				
Nov-05				
std error				
Dec-05				
std error				

ZONE/SUBZONE 2.4	Yearclass 1			n
	Mobile	Female	Caligus	
Nov-04	*	*	*	*
std error				
Dec-04	0.00	0.00	0.00	1
std error				
Jan-05	0.09	0.01	0.01	3
std error	0.09	0.00	0.01	
Feb-05	0.06	0.01	0.00	3(4)
std error	0.06	0.01	0.00	
Mar-05	0.08	0.01	0.00	3(4)
std error	0.08	0.01	0.00	
Apr-05	0.08	0.00	0.00	3
std error	0.07	0.00	0.00	
May-05	0.07	0.03	0.00	3
std error	0.04	0.03	0.00	
Jun-05	0.09	0.01	0.00	2
std error	0.09	0.01	0.00	
Jul-05	0.69	0.19	0.19	2
std error	0.14	0.12	0.17	
Aug-05	1.23	0.47	0.00	1
std error				
Sep-05	*	*	*	*
std error				
Oct-05	*	*	*	*
std error				
Nov-05				
std error				
Dec-05				
std error				

ZONE/SUBZONE 2.4	Yearclass 2			n
	Mobile	Female	Caligus	
Nov-04	1.39	0.42	0.00	5
std error	0.50	0.21	0.00	
Dec-04	2.02	0.85	0.00	5
std error	0.76	0.39	0.00	
Jan-05	2.20	0.86	0.22	5
std error	1.15	0.39	0.14	
Feb-05	3.49	1.36	0.09	5
std error	1.84	0.62	0.06	
Mar-05	0.74	0.28	0.00	4(6)
std error	0.30	0.16	0.00	
Apr-05	0.58	0.25	0.00	4
std error	0.19	0.08	0.00	
May-05	0.47	0.25	0.02	4
std error	0.16	0.11	0.01	
Jun-05	0.72	0.52	0.04	2
std error	0.02	0.05	0.04	
Jul-05	0.45	0.20	0.00	2
std error	0.18	0.03	0.00	
Aug-05	1.32	0.66	0.02	3(4)
std error	0.44	0.21	0.02	
Sep-05	2.22	1.28	0.02	4(5)
std error				
Oct-05	2.30	1.27	0.01	4(5)
std error	0.69	0.47	0.01	
Nov-05				
std error				
Dec-05				
std error				

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Atlantic Salmon Sea Lice Abundances

		Yearclass 1			
ZONE/SUBZONE 3.1		Mobile	Female	Caligus	n
Nov-04		0.03	0.03	0.00	1
	std error				
Dec-04		0.02	0.02	0.01	2
	std error	0.00	0.00	0.01	
Jan-05		0.01	0.00	0.00	2
	std error	0.01	0.00	0.00	
Feb-05		0.04	0.02	0.00	2
	std error	0.01	0.01	0.00	
Mar-05		0.12	0.02	0.00	1
	std error				
Apr-05		0.08	0.03	0.05	1
	std error				
May-05		0.08	0.08	0.00	1
	std error				
Jun-05		0.23	0.10	0.02	1
	std error				
Jul-05		*	*	*	
	std error				
Aug-05		0.07	0.02	0.02	1
	std error				
Sep-05		*	*	*	*
	std error				
Oct-05		*	*	*	*
	std error				
Nov-05					
	std error				
Dec-05					
	std error				

		Yearclass 2			
ZONE/SUBZONE 3.1		Mobile	Female	Caligus	n
Nov-04		0.02	0.02	0.00	2
	std error	0.02	0.02	0.00	
Dec-04		0.09	0.09	0.05	2
	std error	0.07	0.07	0.03	
Jan-05		2.24	1.67	0.00	3
	std error	2.39	1.64	0.00	
Feb-05		0.12	0.07	0.07	2
	std error	0.04	0.04	0.07	
Mar-05		0.08	0.01	0.00	3
	std error	0.04	0.00	0.00	
Apr-05		0.12	0.07	0.02	3
	std error	0.03	0.00	0.02	
May-05		0.15	0.12	0.00	4
	std error	0.04	0.04	0.00	
Jun-05		0.09	0.06	0.00	2
	std error	0.05	0.03	0.00	
Jul-05		0.09	0.04	0.00	2
	std error	0.06	0.02	0.00	
Aug-05		*	*	*	
	std error				
Sep-05		0.07	0.05	0.00	1
	std error				
Oct-05		0.12	0.03	0.00	1
	std error				
Nov-05					
	std error				
Dec-05					
	std error				

		Yearclass 1			
ZONE/SUBZONE 3.2		Mobile	Female	Caligus	n
Nov-04		0.21	0.07	0.05	4
	std error	0.12	0.05	0.05	
Dec-04		0.35	0.12	0.15	4
	std error	0.08	0.05	0.10	
Jan-05		1.00	0.48	0.20	6
	std error	0.71	0.37	0.13	
Feb-05		0.23	0.03	0.01	3(4)
	std error	0.15	0.02	0.01	
Mar-05		0.78	0.18	1.15	3(2)
	std error	0.11	0.06	1.14	
Apr-05		0.92	0.22	2.05	4(5)
	std error	0.19	0.10	1.41	
May-05		1.61	0.38	1.98	4(5)
	std error	0.46	0.13	1.17	
Jun-05		1.74	0.45	0.28	4(5)
	std error	0.85	0.44	0.26	
Jul-05		0.33	0.07	0.05	5
	std error	0.12	0.05	0.05	
Aug-05		0.15	0.05	0.08	5(7)
	std error	0.10	0.04	0.04	
Sep-05		0.47	0.06	0.16	4(5)
	std error	0.34	0.05	0.07	
Oct-05		0.99	0.64	0.07	4
	std error	0.36	0.22	0.05	
Nov-05					
	std error				
Dec-05					
	std error				

		Yearclass 2			
ZONE/SUBZONE 3.2		Mobile	Female	Caligus	n
Nov-04		1.78	0.60	0.00	1
	std error				
Dec-04		0.33	0.00	0.00	1
	std error				
Jan-05		0.37	0.05	0.00	1
	std error				
Feb-05		1.21	0.50	0.37	5(6)
	std error	0.49	0.30	0.23	
Mar-05		2.68	0.88	0.20	5
	std error	0.53	0.28	0.05	
Apr-05		4.93	1.82	0.12	4
	std error	1.40	0.44	0.05	
May-05		1.14	0.58	0.06	6(8)
	std error	0.67	0.46	0.05	
Jun-05		0.34	0.13	0.18	6(8)
	std error	0.14	0.05	0.13	
Jul-05		0.13	0.09	0.00	5
	std error	0.06	0.05	0.00	
Aug-05		1.40	0.04	0.02	4
	std error	0.05	0.01	0.02	
Sep-05		0.66	0.30	0.18	2
	std error	0.24	0.12	0.18	
Oct-05		1.78	0.73	0.08	4
	std error	0.65	0.20	0.08	
Nov-05					
	std error				
Dec-05					
	std error				

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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
Nov-04		2.30	0.67	0.29	3
	std error	2.09	0.61	0.17	
Dec-04		2.64	0.75	0.25	3
	std error	2.28	0.67	0.15	
Jan-05		0.76	0.20	0.43	7
	std error	0.18	0.07	0.23	
Feb-05		1.17	0.35	0.43	7
	std error	0.37	0.13	0.23	
Mar-05		1.08	0.33	0.61	6(9)
	std error	0.28	0.11	0.24	
Apr-05		1.59	0.49	0.57	8(13)
	std error	0.53	0.22	0.25	
May-05		1.43	0.61	0.23	8(13)
	std error	0.52	0.28	0.11	
Jun-05		1.30	0.54	0.26	9(11)
	std error	0.42	0.24	0.09	
Jul-05		0.63	0.20	0.12	10(12)
	std error	0.13	0.06	0.08	
Aug-05		1.40	0.22	0.09	8
	std error	0.68	0.10	0.03	
Sep-05		0.92	0.36	0.05	10
	std error	0.30	0.16	0.02	
Oct-05		1.73	0.84	0.58	7(8)
	std error	0.42	0.33	0.45	
Nov-05					
	std error				
Dec-05					
	std error				

		Yearclass 2			
ZONE/SUBZONE 3.3		Mobile	Female	Caligus	n
Nov-04		3.64	1.94	0.42	9
	std error	2.07	0.89	0.25	
Dec-04		4.57	2.26	1.29	9
	std error	1.75	0.91	0.70	
Jan-05		8.79	4.84	1.63	9(12)
	std error	2.57	1.59	0.71	
Feb-05		3.86	2.16	0.51	7
	std error	1.08	0.67	0.33	
Mar-05		1.38	0.99	0.01	5
	std error	0.74	0.62	0.00	
Apr-05		0.44	0.18	0.06	4(5)
	std error	0.18	0.10	0.03	
May-05		1.14	0.40	0.52	6(7)
	std error	0.87	0.31	0.42	
Jun-05		1.52	0.71	0.06	5
	std error	0.83	0.39	0.03	
Jul-05		2.44	1.09	0.14	5
	std error	1.00	0.42	0.11	
Aug-05		1.63	0.99	0.02	5
	std error	0.96	0.59	0.02	
Sep-05		6.01	3.28	0.06	5
	std error	2.70	1.66	0.03	
Oct-05		6.85	3.75	0.27	5(6)
	std error	1.96	1.25	0.16	
Nov-05					
	std error				
Dec-05					
	std error				

		Yearclass 1			
ZONE/SUBZONE 3.4		Mobile	Female	Caligus	n
Nov-04		0.95	0.18	0.18	4
	std error	0.30	0.11	0.13	
Dec-04		1.89	0.33	0.09	3
	std error	1.54	0.31	0.08	
Jan-05		3.67	1.30	0.42	4
	std error	1.27	0.44	0.25	
Feb-05		1.75	0.53	0.15	2(3)
	std error	0.37	0.13	0.23	
Mar-05		1.84	0.59	0.04	3
	std error	1.05	0.39	0.04	
Apr-05		0.96	0.24	0.01	4(5)
	std error	0.69	0.17	0.01	
May-05		0.80	0.24	0.12	2(3)
	std error	0.67	0.22	0.12	
Jun-05		0.49	0.06	1.65	1(2)
	std error				
Jul-05		0.78	0.10	0.40	1
	std error				
Aug-05		0.38	0.05	1.02	1
	std error				
Sep-05		*	*	*	*
	std error				
Oct-05		*	*	*	*
	std error				
Nov-05					
	std error				
Dec-05					
	std error				

		Yearclass 2			
ZONE/SUBZONE 3.4		Mobile	Female	Caligus	n
Nov-04		11.00	6.96	0.15	2
	std error	3.86	3.36	0.04	
Dec-04		9.93	5.87	1.52	1
	std error				
Jan-05		9.93	6.05	0.33	1
	std error				
Feb-05		*	*	*	
	std error				
Mar-05		*	*	*	
	std error				
Apr-05		1.02	0.32	0.00	1
	std error				
May-05		0.26	0.04	0.01	3
	std error	0.21	0.04	0.01	
Jun-05		0.71	0.01	0.05	3(4)
	std error	0.01	0.01	0.05	
Jul-05		0.88	0.00	0.05	4
	std error	0.20	0.00	0.05	
Aug-05		2.01	0.37	0.10	4(5)
	std error	0.63	0.17	0.06	
Sep-05		1.64	0.60	0.00	2
	std error	0.02	0.05	0.00	
Oct-05		1.95	0.92	0.56	4
	std error	1.50	0.86	0.56	
Nov-05					
	std error				
Dec-05					
	std error				

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Female ~ Adult female *Lepeophtheirus* sp (adult female)
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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

ZONE/SUBZONE 3.5	Yearclass 1			n
	Mobile	Female	Caligus	
Nov-04	0.53	0.41	0.00	1
std error				
Dec-04	0.03	0.02	0.44	2
std error	0.00	0.02	0.44	
Jan-05	0.12	0.03	0.36	2
std error	0.09	0.01	0.19	
Feb-05	0.06	0.00	0.41	2
std error	0.06	0.00	0.41	
Mar-05	0.39	0.08	0.14	2(3)
std error	0.39	0.08	0.14	
Apr-05	0.11	0.03	0.61	2(4)
std error	0.03	0.03	0.13	
May-05	0.18	0.13	0.62	1(2)
std error				
Jun-05	0.18	0.01	2.05	1(2)
std error				
Jul-05	0.47	0.02	1.43	1
std error				
Aug-05	0.97	0.20	0.27	1
std error				
Sep-05	1.83	1.12	0.10	1
std error				
Oct-05	2.38	1.52	0.25	1(2)
std error				
Nov-05				
std error				
Dec-05				
std error				

ZONE/SUBZONE 3.5	Yearclass 2			n
	Mobile	Female	Caligus	
Nov-04	*	*	*	
std error				
Dec-04	*	*	*	
std error				
Jan-05	*	*	*	
std error				
Feb-05	*	*	*	
std error				
Mar-05	*	*	*	
std error				
Apr-05	*	*	*	
std error				
May-05	0.13	0.00	0.28	1(2)
std error				
Jun-05	0.33	0.08	0.33	1(2)
std error				
Jul-05	0.72	0.37	0.98	1
std error				
Aug-05	0.62	0.28	0.17	1
std error				
Sep-05	4.60	2.05	0.15	1
std error				
Oct-05	6.88	4.43	0.00	1(2)
std error				
Nov-05				
std error				
Dec-05				
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