

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
Nov-05	3.54	1.33	0.18	5
std error	1.55	0.73	0.06	
Dec-05	0.38	0.11	0.14	3
std error	0.28	0.10	0.05	
Jan-06	0.93	0.34	0.07	4
std error	0.46	0.19	0.05	
Feb-06	0.96	0.44	0.06	4
std error	0.76	0.38	0.05	
Mar-06	0.30	0.07	0.15	2
std error	0.10	0.04	0.03	
Apr-06	1.33	0.14	0.04	3
std error	0.70	0.10	0.02	
May-06	2.26	0.497	0.26	4
std error	0.72	0.26	0.11	
Jun-06	1.19	0.29	0.24	4
std error	0.89	0.23	0.15	
Jul-06	1.18	0.31	0.50	4
std error	0.44	0.13	0.20	
Aug-06	1.47	0.42	0.55	4
std error	0.61	0.16	0.27	
Sep-06				
std error				
Oct-06				
std error				
Nov-06				
std error				
Dec-06				
std error				

Yearclass 2				
ZONE/SUBZONE 2.3	Mobile	Female	Caligus	n
Nov-05	1.25	0.87	0.00	1
std error				
Dec-05	4.23	1.01	0.13	2
std error	3.37	0.77	0.13	
Jan-06	1.18	0.68	0.02	2
std error	0.28	0.11	0.02	
Feb-06	0.42	0.24	0.01	3
std error	0.2	0.12	0.01	
Mar-06	1.11	0.37	0.10	4(5)
std error	0.42	0.21	0.05	
Apr-06	3.68	1.25	0.01	4
std error	0.64	0.16	0.04	
May-06	4.02	1.65	0.00	1
std error				
Jun-06	2.06	1.03	0.01	3
std error	1.07	0.54	0.01	
Jul-06	6.68	3.38	0.68	1
std error				
Aug-06	*	*	*	
std error				
Sep-06				
std error				
Oct-06				
std error				
Nov-06				
std error				
Dec-06				
std error				

ZONE/SUBZONE 2.4	Mobile	Female	Caligus	n
Nov-05	*	*	*	*
std error				
Dec-05	*	*	*	*
std error				
Jan-06	0.17	0.04	0.00	2(3)
std error	0.17	0.04	0.00	
Feb-06	0.26	0.11	0.00	2(3)
std error	0.26	0.11	0.00	
Mar-06	0.14	0.04	0.01	3
std error	0.13	0.04	0.01	
Apr-06	0.24	0.01	0.00	3(4)
std error	0.22	0.01	0.00	
May-06	0.13	0.02	0.05	3(5)
std error	0.12	0.01	0.05	
Jun-06	0.16	0.05	0.06	3
std error	0.11	0.05	0.03	
Jul-06	0.72	0.27	0.34	4(5)
std error	0.29	0.13	0.21	
Aug-06	1.59	0.64	0.91	2(5)
std error	0.88	0.39	0.21	
Sep-06				
std error				
Oct-06				
std error				
Nov-06				
std error				
Dec-06				
std error				

ZONE/SUBZONE 2.4	Mobile	Female	Caligus	n
Nov-05	4.73	2.28	0.00	3
std error	1.67	0.64	0.00	
Dec-05	5.64	2.40	0.02	4
std error	2.60	1.13	0.02	
Jan-06	3.55	1.85	0.00	5(6)
std error	1.74	0.86	0.00	
Feb-06	1.59	1.02	0.04	3
std error	1.04	0.85	0.02	
Mar-06	0.75	0.46	0.44	4
std error	0.21	0.13	0.26	
Apr-06	1.03	0.51	0.44	3
std error	0.28	0.18	0.44	
May-06	1.30	0.49	0.12	4(5)
std error	0.41	0.17	0.09	
Jun-06	1.18	0.73	0.07	4
std error	0.37	0.22	0.06	
Jul-06	0.57	0.28	0.02	2
std error	0.29	0.13	0.02	
Aug-06	0.84	0.51	0.00	2
std error	0.04	0.11	0.00	
Sep-06				
std error				
Oct-06				
std error				
Nov-06				
std error				
Dec-06				
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 3.1		Mobile	Female	Caligus	n
Nov-05		0.10	0.00	0.00	1
	std error				
Dec-05		0.04	0.00	0.00	1
	std error				
Jan-06		0.05	0.00	0.00	1
	std error				
Feb-06		0.02	0.00	0.05	1
	std error				
Mar-06		0.08	0.08	0.02	1
	std error				
Apr-06		0.07	0.00	0.00	1
	std error				
May-06		0.05	0.00	0.00	1
	std error				
Jun-06		0.05	0.02	0.03	1
	std error				
Jul-06		0.07	0.03	0.00	1
	std error				
Aug-06					
	std error				
Sep-06					
	std error				
Oct-06					
	std error				
Nov-06					
	std error				
Dec-06					
	std error				

		Yearclass 2			
ZONE/SUBZONE 3.1		Mobile	Female	Caligus	n
Nov-05		0.10	0.10	0.10	1
	std error				
Dec-05		0.17	0.07	0.00	1
	std error				
Jan-06		0.29	0.11	0.00	2
	std error	0.06	0.03	0.00	
Feb-06		0.45	0.13	0.01	3
	std error	0.22	0.06	0.01	
Mar-06		0.20	0.07	0.00	1
	std error				
Apr-06		0.51	0.33	0.00	2
	std error	0.28	0.20	0.00	
May-06		0.20	0.08	0.02	1
	std error				
Jun-06		0.22	0.10	0.00	1
	std error				
Jul-06		0.23	0.15	0.00	1
	std error				
Aug-06		*	*	*	
	std error				
Sep-06					
	std error				
Oct-06					
	std error				
Nov-06					
	std error				
Dec-06					
	std error				

ZONE/SUBZONE 3.2		Mobile	Female	Caligus	n
Nov-05		1.23	0.45	0.09	5(6)
	std error	0.58	0.32	0.06	
Dec-05		1.12	0.44	0.20	3
	std error	0.78	0.39	0.11	
Jan-06		1.73	0.82	0.00	1
	std error				
Feb-06		3.35	1.08	0.00	1
	std error				
Mar-06		4.90	2.20	0.00	1
	std error				
Apr-06		0.72	0.04	0.02	3
	std error	0.52	0.02	0.02	
May-06		0.59	0.05	0.03	4(6)
	std error	0.15	0.01	0.09	
Jun-06		1.16	0.34	0.81	5(6)
	std error	0.48	0.19	0.58	
Jul-06		0.48	0.06	0.40	4(6)
	std error	0.13	0.02	0.22	
Aug-06		0.63	0.17	3.54	5(10)
	std error	0.13	0.04	1.58	
Sep-06					
	std error				
Oct-06					
	std error				
Nov-06					
	std error				
Dec-06					
	std error				

ZONE/SUBZONE 3.2		Mobile	Female	Caligus	n
Nov-05		6.52	2.83	0.07	4
	std error	3.61	1.63	0.07	
Dec-05		2.40	1.11	1.00	4
	std error				
Jan-06		3.25	1.61	0.09	5(6)
	std error	0.85	0.51	0.09	
Feb-06		4.02	2.42	0.05	5
	std error	1.67	1.05	0.05	
Mar-06		1.86	0.71	0.05	5
	std error	1.12	0.55	0.03	
Apr-06		1.88	0.57	0.08	4(8)
	std error	1.49	0.35	0.06	
May-06		1.05	0.51	0.02	6(10)
	std error	0.88	0.43	0.01	
Jun-06		0.40	0.20	0.00	4(5)
	std error	0.28	0.16	0.00	
Jul-06		0.40	0.11	0.02	5
	std error	0.06	0.05	0.01	
Aug-06		0.34	0.15	0.19	5
	std error	0.15	0.07	0.16	
Sep-06					
	std error				
Oct-06					
	std error				
Nov-06					
	std error				
Dec-06					
	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

		Yearclass 1			
ZONE/SUBZONE 3.3		Mobile	Female	Caligus	n
Nov-05		2.55	1.02	0.36	8(9)
	std error	0.90	0.46	0.22	
Dec-05		1.48	0.70	0.13	7
	std error	0.59	0.28	0.10	
Jan-06		2.76	0.92	0.72	8(9)
	std error	1.71	0.42	0.40	
Feb-06		2.57	0.84	0.20	8(10)
	std error	0.84	0.33	0.09	
Mar-06		2.71	0.94	0.21	8(10)
	std error	1.04	0.41	0.09	
Apr-06		0.97	0.24	0.18	5(6)
	std error	0.38	0.12	0.14	
May-06		0.61	0.08	0.04	4(5)
	std error	0.18	0.03	0.02	
Jun-06		0.20	0.03	0.04	3(5)
	std error	0.14	0.02	0.04	
Jul-06		0.24	0.04	0.07	5(6)
	std error	0.09	0.01	0.04	
Aug-06		0.95	0.34	0.27	5
	std error	0.76	0.31	0.16	
Sep-06					
	std error				
Oct-06					
	std error				
Nov-06					
	std error				
Dec-06					
	std error				

		Yearclass 2			
ZONE/SUBZONE 3.3		Mobile	Female	Caligus	n
Nov-05		5.10	3.09	0.80	6
	std error	1.50	0.84	0.64	
Dec-05		9.37	6.10	1.35	6
	std error	3.04	2.25	1.15	
Jan-06		4.96	2.27	0.19	7(8)
	std error	1.77	0.65	0.10	
Feb-06		4.35	2.36	0.17	6
	std error	2.47	1.35	0.06	
Mar-06		0.76	0.37	0.04	7(9)
	std error	0.24	0.11	0.01	
Apr-06		1.07	0.40	0.04	9(12)
	std error	0.67	0.31	0.02	
May-06		0.89	0.30	0.22	9(16)
	std error	0.38	0.11	0.18	
Jun-06		1.22	0.71	0.11	7(17)
	std error	0.69	0.38	0.08	
Jul-06		1.10	0.70	0.24	7(8)
	std error	0.55	0.39	0.20	
Aug-06		1.41	0.75	0.21	6(9)
	std error	0.70	0.39	0.17	
Sep-06					
	std error				
Oct-06					
	std error				
Nov-06					
	std error				
Dec-06					
	std error				

		Yearclass 1			
ZONE/SUBZONE 3.4		Mobile	Female	Caligus	n
Nov-05		1.96	0.98	0.28	2
	std error	1.28	0.98	0.28	
Dec-05		0.95	0.46	0.15	3
	std error	0.69	0.45	0.10	
Jan-06		0.25	0.03	0.00	3
	std error	0.06	0.03	0.00	
Feb-06		0.27	0.02	0.01	4
	std error	0.19	0.02	0.01	
Mar-06		0.61	0.17	0.00	3
	std error	0.40	0.01	0.00	
Apr-06		0.57	0.04	0.00	4
	std error	0.43	0.02	0.00	
May-06		0.67	0.05	0.02	5(6)
	std error	0.55	0.03	0.01	
Jun-06		0.60	0.05	0.10	6
	std error	0.12	0.03	0.10	
Jul-06		0.70	0.04	0.03	6(7)
	std error	0.16	0.02	0.03	
Aug-06		1.37	0.16	0.11	7
	std error	0.24	0.09	0.08	
Sep-06					
	std error				
Oct-06					
	std error				
Nov-06					
	std error				
Dec-06					
	std error				

		Yearclass 2			
ZONE/SUBZONE 3.4		Mobile	Female	Caligus	n
Nov-05		1.14	0.50	0.01	5
	std error	0.71	0.50	0.01	
Dec-05		2.08	0.99	0.00	3
	std error	1.01	0.55	0.00	
Jan-06		2.70	1.23	0.00	1
	std error				
Feb-06		3.45	1.80	0.00	1
	std error				
Mar-06		0.70	0.40	0.00	3
	std error	0.69	0.39	0.00	
Apr-06		0.41	0.01	0.53	2
	std error	0.18	0.01	0.06	
May-06		4.18	1.88	0.79	2
	std error	0.80	0.47	0.44	
Jun-06		1.52	0.76	0.01	2
	std error	0.30	0.19	0.00	
Jul-06		0.09	0.06	0.00	2
	std error	0.04	0.04	0.00	
Aug-06		0.18	0.13	0.12	2
	std error	0.07	0.08	0.07	
Sep-06					
	std error				
Oct-06					
	std error				
Nov-06					
	std error				
Dec-06					
	std error				

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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
Nov-05	3.23	1.96	0.03	1(2)
	std error			
Dec-05	*	*	*	
	std error			
Jan-06	*	*	*	
	std error			
Feb-06	*	*	*	
	std error			
Mar-06	0.17	0.05	0.03	1
	std error			
Apr-06	0.05	0.01	0.10	2
	std error			
May-06	0.10	0.06	0.05	2
	std error			
Jun-06	0.04	0.03	0.10	2
	std error			
Jul-06	0.09	0.03	0.04	2
	std error			
Aug-06	1.52	0.23	0.00	2
	std error			
Sep-06	std error			
Oct-06	std error			
Nov-06	std error			
Dec-06	std error			

Yearclass 2				
ZONE/SUBZONE 3.5	Mobile	Female	Caligus	n
Nov-05	8.77	5.62	0.07	1
	std error			
Dec-05	4.12	2.29	0.15	2
	std error			
Jan-06	4.07	2.21	0.01	2
	std error			
Feb-06	1.22	0.78	0.00	2
	std error			
Mar-06	0.30	0.15	0.01	2
	std error			
Apr-06	0.10	0.08	0.00	1
	std error			
May-06	0.02	0.00	0.00	1
	std error			
Jun-06	0.28	0.08	0.00	1
	std error			
Jul-06	0.44	0.15	0.12	2
	std error			
Aug-06	2.52	1.03	0.21	2
	std error			
Sep-06	std error			
Oct-06	std error			
Nov-06	std error			
Dec-06	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