

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 | | | |
|------------------|-----------|-------------|--------|---------|-------|
| ZONE/SUBZONE 2.3 | | Mobile | Female | Caligus | n |
| Jan-09 | | 0.80 | 0.33 | 0.46 | 7(9) |
| | std error | 0.39 | 0.19 | 0.18 | |
| Feb-09 | | 0.62 | 0.21 | 0.15 | 3(6) |
| | std error | 0.39 | 0.15 | 0.03 | |
| Mar-09 | | 1.03 | 0.24 | 0.34 | 4(6) |
| | std error | 0.28 | 0.09 | 0.16 | |
| Apr-09 | | 0.43 | 0.15 | 0.21 | 5(6) |
| | std error | 0.20 | 0.07 | 0.15 | |
| May-09 | | 0.49 | 0.21 | 0.16 | 5(6) |
| | std error | 0.33 | 0.15 | 0.09 | |
| Jun-09 | | 0.33 | 0.06 | 0.34 | 6(8) |
| | std error | 0.10 | 0.02 | 0.26 | |
| Jul-09 | | 0.27 | 0.12 | 0.26 | 7(10) |
| | std error | 0.09 | 0.05 | 0.17 | |
| Aug-09 | | 0.53 | 0.19 | 0.14 | 7(13) |
| | std error | 0.22 | 0.09 | 0.07 | |
| Sep-09 | | | | | |
| | std error | | | | |
| Oct-09 | | | | | |
| | std error | | | | |
| Nov-09 | | | | | |
| | std error | | | | |
| Dec-09 | | | | | |
| | std error | | | | |

| | | Yearclass 2 | | | |
|------------------|-----------|-------------|--------|---------|------|
| ZONE/SUBZONE 2.3 | | Mobile | Female | Caligus | n |
| Jan-09 | | 0.28 | 0.13 | 0.22 | 1 |
| | std error | | | | |
| Feb-09 | | 0.65 | 0.21 | 1.67 | 4 |
| | std error | 0.45 | 0.14 | 0.89 | |
| Mar-09 | | 0.58 | 0.24 | 0.17 | 3(6) |
| | std error | 0.09 | 0.06 | 0.11 | |
| Apr-09 | | 0.69 | 0.24 | 0.27 | 3(5) |
| | std error | 0.22 | 0.10 | 0.18 | |
| May-09 | | 0.60 | 0.20 | 0.06 | 4(6) |
| | std error | 0.21 | 0.06 | 0.05 | |
| Jun-09 | | 0.84 | 0.46 | 0.03 | 2(3) |
| | std error | 0.68 | 0.42 | 0.02 | |
| Jul-09 | | 0.38 | 0.21 | 0.18 | 4(7) |
| | std error | 0.32 | 0.17 | 0.01 | |
| Aug-09 | | 0.02 | 0.02 | 0.02 | 2(4) |
| | std error | 0.02 | 0.02 | 0.02 | |
| Sep-09 | | | | | |
| | std error | | | | |
| Oct-09 | | | | | |
| | std error | | | | |
| Nov-09 | | | | | |
| | std error | | | | |
| Dec-09 | | | | | |
| | std error | | | | |

| | | Yearclass 1 | | | |
|------------------|-----------|-------------|--------|---------|---|
| ZONE/SUBZONE 2.4 | | Mobile | Female | Caligus | n |
| Jan-09 | | 1.47 | 0.63 | 0.18 | 3 |
| | std error | 0.39 | 0.31 | 0.12 | |
| Feb-09 | | 0.81 | 0.40 | 0.00 | 3 |
| | std error | 0.59 | 0.31 | 0.00 | |
| Mar-09 | | 1.11 | 0.40 | 0.02 | 3 |
| | std error | 0.94 | 0.36 | 0.01 | |
| Apr-09 | | 0.96 | 0.37 | 0.00 | 3 |
| | std error | 0.87 | 0.37 | 0.00 | |
| May-09 | | 0.34 | 0.05 | 0.00 | 4 |
| | std error | 0.28 | 0.05 | 0.00 | |
| Jun-09 | | 0.18 | 0.02 | 0.02 | 5 |
| | std error | 0.10 | 0.01 | 0.01 | |
| Jul-09 | | 0.50 | 0.03 | 0.00 | 5 |
| | std error | 0.17 | 0.01 | 0.00 | |
| Aug-09 | | 3.33 | 1.14 | 0.00 | 3 |
| | std error | 2.76 | 1.02 | 0.00 | |
| Sep-09 | | | | | |
| | std error | | | | |
| Oct-09 | | | | | |
| | std error | | | | |
| Nov-09 | | | | | |
| | std error | | | | |
| Dec-09 | | | | | |
| | std error | | | | |

| | | Yearclass 2 | | | |
|------------------|-----------|-------------|--------|---------|------|
| ZONE/SUBZONE 2.4 | | Mobile | Female | Caligus | n |
| Jan-09 | | 3.10 | 1.18 | 0.13 | 2 |
| | std error | 1.82 | 0.90 | 0.13 | |
| Feb-09 | | 4.71 | 1.42 | 0.00 | 2(3) |
| | std error | 2.59 | 0.60 | 0.00 | |
| Mar-09 | | 1.30 | 0.35 | 0.00 | 3 |
| | std error | 0.64 | 0.22 | 0.00 | |
| Apr-09 | | 0.55 | 0.21 | 0.18 | 5(6) |
| | std error | 0.23 | 0.08 | 0.18 | |
| May-09 | | 0.95 | 0.20 | 0.00 | 2 |
| | std error | 0.85 | 0.13 | 0.00 | |
| Jun-09 | | 0.61 | 0.32 | 0.02 | 4(6) |
| | std error | 0.18 | 0.08 | 0.02 | |
| Jul-09 | | 0.65 | 0.46 | 0.90 | 4 |
| | std error | 0.47 | 0.18 | 0.37 | |
| Aug-09 | | 3.64 | 1.44 | 0.00 | 2 |
| | std error | 3.12 | 1.22 | 0.00 | |
| Sep-09 | | | | | |
| | std error | | | | |
| Oct-09 | | | | | |
| | std error | | | | |
| Nov-09 | | | | | |
| | std error | | | | |
| Dec-09 | | | | | |
| | std error | | | | |

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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 3.1 | Mobile | Female | Caligus | n |
|------------------|--------|--------|---------|---|
| Jan-09 | | | | |
| std error | | | | |
| Feb-09 | | | | |
| std error | | | | |
| Mar-09 | | | | |
| std error | | | | |
| Apr-09 | | | | |
| std error | | | | |
| May-09 | | | | |
| std error | | | | |
| Jun-09 | | | | |
| std error | | | | |
| Jul-09 | | | | |
| std error | | | | |
| Aug-09 | | | | |
| std error | | | | |
| Sep-09 | | | | |
| std error | | | | |
| Oct-09 | | | | |
| std error | | | | |
| Nov-09 | | | | |
| std error | | | | |
| Dec-09 | | | | |
| std error | | | | |

| ZONE/SUBZONE 3.1 | Mobile | Female | Caligus | n |
|------------------|--------|--------|---------|---|
| Jan-09 | | | | |
| std error | | | | |
| Feb-09 | | | | |
| std error | | | | |
| Mar-09 | | | | |
| std error | | | | |
| Apr-09 | | | | |
| std error | | | | |
| May-09 | | | | |
| std error | | | | |
| Jun-09 | | | | |
| std error | | | | |
| Jul-09 | | | | |
| std error | | | | |
| Aug-09 | | | | |
| std error | | | | |
| Sep-09 | | | | |
| std error | | | | |
| Oct-09 | | | | |
| std error | | | | |
| Nov-09 | | | | |
| std error | | | | |
| Dec-09 | | | | |
| std error | | | | |

| ZONE/SUBZONE 3.2 | Mobile | Female | Caligus | n |
|------------------|--------|--------|---------|------|
| Jan-09 | 0.60 | 0.21 | 4.41 | 2 |
| std error | 0.13 | 0.14 | 1.66 | |
| Feb-09 | 1.47 | 0.18 | 1.91 | 2 |
| std error | 0.93 | 0.18 | 0.18 | |
| Mar-09 | 0.68 | 0.13 | 2.45 | 2 |
| std error | 0.22 | 0.05 | 1.07 | |
| Apr-09 | 0.55 | 0.21 | 0.19 | 2 |
| std error | 0.38 | 0.13 | 0.07 | |
| May-09 | 0.52 | 0.07 | 1.77 | 2 |
| std error | 0.30 | 0.05 | 1.60 | |
| Jun-09 | 0.62 | 0.09 | 0.57 | 4 |
| std error | 0.37 | 0.06 | 0.44 | |
| Jul-09 | 1.07 | 0.17 | 3.48 | 5(6) |
| std error | 0.32 | 0.11 | 2.74 | |
| Aug-09 | 1.27 | 0.23 | 1.82 | 5 |
| std error | 0.40 | 0.05 | 0.93 | |
| Sep-09 | | | | |
| std error | | | | |
| Oct-09 | | | | |
| std error | | | | |
| Nov-09 | | | | |
| std error | | | | |
| Dec-09 | | | | |
| std error | | | | |

| ZONE/SUBZONE 3.2 | Mobile | Female | Caligus | n |
|------------------|--------|--------|---------|-------|
| Jan-09 | 3.29 | 1.48 | 1.90 | 11 |
| std error | 0.45 | 0.24 | 1.06 | |
| Feb-09 | 2.28 | 0.99 | 1.16 | 11 |
| std error | 0.60 | 0.29 | 0.59 | |
| Mar-09 | 1.36 | 0.61 | 0.44 | 9 |
| std error | 0.77 | 0.33 | 0.31 | |
| Apr-09 | 0.37 | 0.12 | 0.33 | 9(11) |
| std error | 0.19 | 0.07 | 0.26 | |
| May-09 | 0.45 | 0.19 | 0.26 | 8 |
| std error | 0.22 | 0.11 | 0.19 | |
| Jun-09 | 0.57 | 0.30 | 0.23 | 6 |
| std error | 0.15 | 0.09 | 0.20 | |
| Jul-09 | 0.99 | 0.46 | 0.90 | 4 |
| std error | 0.47 | 0.18 | 0.37 | |
| Aug-09 | 0.82 | 0.45 | 0.22 | 4 |
| std error | 0.29 | 0.11 | 0.10 | |
| Sep-09 | | | | |
| std error | | | | |
| Oct-09 | | | | |
| std error | | | | |
| Nov-09 | | | | |
| std error | | | | |
| Dec-09 | | | | |
| 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 1 years or more in seawater.

Atlantic Salmon Sea Lice Abundances

Yearclass 1

Yearclass 2

| ZONE/SUBZONE 3.3 | Mobile | Female | Caligus | n |
|------------------|--------|--------|---------|------|
| Jan-09 | 0.32 | 0.03 | 0.26 | 3 |
| std error | 0.10 | 0.01 | 0.26 | |
| Feb-09 | 0.22 | 0.02 | 0.51 | 3 |
| std error | 0.08 | 0.01 | 0.34 | |
| Mar-09 | 0.16 | 0.03 | 0.35 | 4 |
| std error | 0.06 | 0.02 | 0.21 | |
| Apr-09 | 0.16 | 0.07 | 0.11 | 3 |
| std error | 0.07 | 0.01 | 0.07 | |
| May-09 | 0.12 | 0.02 | 0.24 | 4(5) |
| std error | 0.06 | 0.02 | 0.22 | |
| Jun-09 | 0.09 | 0.03 | 0.19 | 6 |
| std error | 0.04 | 0.02 | 0.18 | |
| Jul-09 | 0.09 | 0.01 | 0.02 | 7 |
| std error | 0.06 | 0.00 | 0.01 | |
| Aug-09 | 0.10 | 0.03 | 0.10 | 7 |
| std error | 0.04 | 0.01 | 0.06 | |
| Sep-09 | | | | |
| std error | | | | |
| Oct-09 | | | | |
| std error | | | | |
| Nov-09 | | | | |
| std error | | | | |
| Dec-09 | | | | |
| std error | | | | |

| ZONE/SUBZONE 3.3 | Mobile | Female | Caligus | n |
|------------------|--------|--------|---------|--------|
| Jan-09 | 0.98 | 0.56 | 0.29 | 13(14) |
| std error | 0.26 | 0.17 | 0.11 | |
| Feb-09 | 0.99 | 0.48 | 0.14 | 12(14) |
| std error | 0.32 | 0.19 | 0.07 | |
| Mar-09 | 1.12 | 0.59 | 0.01 | 11(12) |
| std error | 0.68 | 0.40 | 0.00 | |
| Apr-09 | 0.09 | 0.03 | 0.02 | 11 |
| std error | 0.03 | 0.01 | 0.01 | |
| May-09 | 0.16 | 0.08 | 0.05 | 9(10) |
| std error | 0.09 | 0.06 | 0.03 | |
| Jun-09 | 0.07 | 0.02 | 0.09 | 8 |
| std error | 0.03 | 0.01 | 0.05 | |
| Jul-09 | 0.14 | 0.06 | 0.29 | 8 |
| std error | 0.07 | 0.03 | 0.21 | |
| Aug-09 | 0.25 | 0.09 | 0.09 | 8 |
| std error | 0.08 | 0.03 | 0.04 | |
| Sep-09 | | | | |
| std error | | | | |
| Oct-09 | | | | |
| std error | | | | |
| Nov-09 | | | | |
| std error | | | | |
| Dec-09 | | | | |
| std error | | | | |

| ZONE/SUBZONE 3.4 | Mobile | Female | Caligus | n |
|------------------|--------|--------|---------|---|
| Jan-09 | 1.32 | 0.32 | 0.41 | 2 |
| std error | 0.56 | 0.14 | 0.13 | |
| Feb-09 | 0.67 | 0.17 | 0.18 | 3 |
| std error | 0.26 | 0.10 | 0.09 | |
| Mar-09 | 0.27 | 0.12 | 0.25 | 2 |
| std error | 0.07 | 0.05 | 0.08 | |
| Apr-09 | * | * | * | |
| std error | | | | |
| May-09 | 0.21 | 0.04 | 0.13 | 2 |
| std error | 0.11 | 0.02 | 0.12 | |
| Jun-09 | 0.11 | 0.00 | 0.52 | 3 |
| std error | 0.01 | 0.00 | 0.34 | |
| Jul-09 | 0.16 | 0.01 | 1.00 | 3 |
| std error | 0.05 | 0.01 | 0.08 | |
| Aug-09 | 0.52 | 0.12 | 0.75 | 3 |
| std error | 0.17 | 0.07 | 0.39 | |
| Sep-09 | | | | |
| std error | | | | |
| Oct-09 | | | | |
| std error | | | | |
| Nov-09 | | | | |
| std error | | | | |
| Dec-09 | | | | |
| std error | | | | |

| ZONE/SUBZONE 3.4 | Mobile | Female | Caligus | n |
|------------------|--------|--------|---------|------|
| Jan-09 | 1.08 | 0.56 | 0.54 | 2 |
| std error | 0.14 | 0.08 | 0.54 | |
| Feb-09 | 1.97 | 0.95 | 0.88 | 2 |
| std error | 1.17 | 0.40 | 0.02 | |
| Mar-09 | 2.49 | 1.28 | 0.59 | 2 |
| std error | 1.72 | 1.07 | 0.19 | |
| Apr-09 | 1.15 | 0.51 | 0.10 | 4(5) |
| std error | 0.54 | 0.26 | 0.04 | |
| May-09 | 0.92 | 0.34 | 0.04 | 3(4) |
| std error | 0.33 | 0.16 | 0.04 | |
| Jun-09 | 0.81 | 0.33 | 0.26 | 3 |
| std error | 0.38 | 0.18 | 0.20 | |
| Jul-09 | 0.59 | 0.25 | 0.05 | 3 |
| std error | 0.30 | 0.13 | 0.05 | |
| Aug-09 | 0.40 | 0.21 | 0.48 | 3 |
| std error | 0.16 | 0.11 | 0.25 | |
| Sep-09 | | | | |
| std error | | | | |
| Oct-09 | | | | |
| std error | | | | |
| Nov-09 | | | | |
| std error | | | | |
| Dec-09 | | | | |
| std error | | | | |

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KEY

Mobile ~ *Lepeophtheirus* sp (pre adult and adult stages)

Yearclass 1 ~ For salmon 1 year or less in seawater.

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

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

Caligus ~ sp. (pre adult and adult)

Atlantic Salmon Sea Lice Abundances

| | | Yearclass 1 | | | |
|------------------|-----------|-------------|--------|---------|---|
| ZONE/SUBZONE 3.5 | | Mobile | Female | Caligus | n |
| Jan-09 | | 0.64 | 0.25 | 0.03 | 2 |
| | std error | 0.04 | 0.03 | 0.03 | |
| Feb-09 | | 0.67 | 0.22 | 0.26 | 1 |
| | std error | | | | |
| Mar-09 | | 0.22 | 0.07 | 0.83 | 1 |
| | std error | | | | |
| Apr-09 | | 0.44 | 0.08 | 1.04 | 2 |
| | std error | | | | |
| May-09 | | 0.03 | 0.00 | 0.00 | 1 |
| | std error | | | | |
| Jun-09 | | 0.02 | 0.00 | 0.00 | 1 |
| | std error | | | | |
| Jul-09 | | 0.05 | 0.02 | 0.00 | 1 |
| | std error | | | | |
| Aug-09 | | 0.45 | 0.10 | 0.08 | 1 |
| | std error | | | | |
| Sep-09 | | | | | |
| | std error | | | | |
| Oct-09 | | | | | |
| | std error | | | | |
| Nov-09 | | | | | |
| | std error | | | | |
| Dec-09 | | | | | |
| | std error | | | | |

| | | Yearclass 2 | | | |
|------------------|-----------|-------------|--------|---------|------|
| ZONE/SUBZONE 3.5 | | Mobile | Female | Caligus | n |
| Jan-09 | | 0.24 | 0.06 | 0.11 | 2 |
| | std error | 0.19 | 0.06 | 0.11 | |
| Feb-09 | | 0.22 | 0.00 | 0.00 | 2 |
| | std error | 0.18 | 0.00 | 0.00 | |
| Mar-09 | | 0.24 | 0.03 | 0.18 | 2 |
| | std error | 0.09 | 0.01 | 0.18 | |
| Apr-09 | | 0.34 | 0.12 | 1.70 | 2 |
| | std error | 0.26 | 0.10 | 0.90 | |
| May-09 | | 0.95 | 0.46 | 0.11 | 3 |
| | std error | 0.42 | 0.23 | 0.08 | |
| Jun-09 | | 0.91 | 0.53 | 0.09 | 3 |
| | std error | 0.40 | 0.28 | 0.07 | |
| Jul-09 | | 2.26 | 1.17 | 0.01 | 2(3) |
| | std error | 0.42 | 0.15 | 0.00 | |
| Aug-09 | | 3.00 | 1.90 | 0.00 | 1 |
| | std error | | | | |
| Sep-09 | | | | | |
| | std error | | | | |
| Oct-09 | | | | | |
| | std error | | | | |
| Nov-09 | | | | | |
| | std error | | | | |
| Dec-09 | | | | | |
| | 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