

| | | | | | | | |
|------|-------|------|---------|--------------|---------|----------|---------|
| Date | Day 1 | Site | Removed | Site manager | Removed | Customer | Removed |
|------|-------|------|---------|--------------|---------|----------|---------|

| | | | | | | | |
|-----------|---|---------|---|----------|--------------------|---------------|---|
| From cage | 1 | To cage | 8 | Fhb/vet. | Per Kristian Sætre | Days w/o Feed | 3 |
|-----------|---|---------|---|----------|--------------------|---------------|---|

| | | | | | |
|----------------|--------|------------------|--------|--------------|---------|
| Number of fish | 86 344 | Avg. weight (kg) | 3,0731 | Biomass (kg) | 265 344 |
|----------------|--------|------------------|--------|--------------|---------|

| | | | | | |
|--------------------------------------|--------|-----------------|------|---------------------|-------|
| Avg. effect (mobile and female lice) | 95,56% | Avg. scale loss | 0,85 | Estimated mortality | 0,01% |
|--------------------------------------|--------|-----------------|------|---------------------|-------|



Example of treatment performance: Cage 1, real data

| Throw number/Buoy-st | Buoy-string |
|----------------------|-------------|
| Start | 05:55 |
| End | 07:55 |
| Number of fish | 86344 |
| Mortality | 10 |
| Hydrolicer (bar) | 0,98/1,0 |
| Hydroflow (m/s) | 1,95 |
| O2 (%) min/max | 72/110 |
| O2 (Yes/No) | Yes |
| Temperature (°C) | 10,0 |

Sea Lice Counting (Avg.)

| | Attached lice | Mobile lice | Female lice | Total | Effect (%) | Time | Line | Comments |
|------------------|---------------|-------------|-------------|-------|------------|------|------|---|
| Before treatment | | | | | | | | The fish showed nice behaviour before, under and after treatment. The night shift from the farm did an additional counting. |
| Counting 1 | 0 | 1,3 | 0,95 | 2,25 | | | | |
| Counting 2 | 0,00 | 0,10 | 0,0 | 0,1 | 95,56% | | 5-8 | |
| Counting 3 | 0,00 | 0,10 | 0,0 | 0,1 | 95,56% | | 1-4 | |
| Total avg. | 0,00 | 0,10 | 0,00 | 0,10 | 95,56% | | | |

Welfare Scores (Avg.)

| | Eye | Snoute | Blushing | Scales | Fins | Wounds | Gills | Comments |
|------------------|------|--------|----------|--------|------|--------|-------|----------|
| Before treatment | | | | | | | | |
| Counting 1 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | |
| Counting 2 | 0 | 0 | 0,6 | 0,8 | 0 | 0 | 0 | |
| Counting 3 | 0 | 0 | 0,6 | 0,9 | 0 | 0 | 0 | |
| Total avg. | 0,00 | 0,00 | 0,60 | 0,85 | 0,00 | 0,00 | 0,00 | |

| | | | | | | | |
|------|-------|------|---------|--------------|---------|----------|---------|
| Date | Day 1 | Site | Removed | Site manager | Removed | Customer | Removed |
|------|-------|------|---------|--------------|---------|----------|---------|

| | | | | | | | |
|-----------|---|---------|---|----------|--------------------|---------------|---|
| From cage | 2 | To cage | 1 | Fhb/vet. | Per Kristian Sætre | Days w/o Feed | 3 |
|-----------|---|---------|---|----------|--------------------|---------------|---|

| | | | | | |
|----------------|--------|------------------|-------|--------------|---------|
| Number of fish | 96 298 | Avg. weight (kg) | 5,128 | Biomass (kg) | 493 816 |
|----------------|--------|------------------|-------|--------------|---------|

| | | | | | |
|--------------------------------------|--------|-----------------|------|---------------------|-------|
| Avg. effect (mobile and female lice) | 97,72% | Avg. scale loss | 0,79 | Estimated mortality | 0,03% |
|--------------------------------------|--------|-----------------|------|---------------------|-------|



Example of treatment performance: Cage 2, real data

| Throw number/Buoy-st | Throw nr. 1 | Buoy-string |
|----------------------|-------------|-------------|
| Start | 09:45 | 12:25 |
| End | 11:50 | 13:55 |
| Number of fish | 50 000 | 45 000 |
| Mortality | 20 | 30 |
| Hydrolicer (bar) | 0,94/0,97 | 0,95/0,98 |
| Hydroflow (m/s) | 2,05 | 2,05 |
| O2 (%) min/max | ok | ok |
| O2 (Yes/No) | Yes | Yes |
| Temperature (°C) | 11,0 | 11,0 |

Sea Lice Counting (Avg.)

| | Attached lice | Mobile lice | Female lice | Total | Effect (%) | Time | Line | Comments |
|------------------|---------------|-------------|-------------|-------|------------|------|------|--|
| Before treatment | | | | | | | | The fish showed some abnormal behaviour in the start. Number of mortality was about 20 fish for a while, total estimated mortality of 50 fish. |
| Counting 1 | 0,00 | 7,60 | 1,90 | 9,50 | | | | |
| Counting 2 | 0,00 | 0,10 | 0,1 | 0,2 | 97,89% | | 5-8 | |
| Counting 3 | 0,00 | 0,10 | 0,0 | 0,1 | 98,95% | | 5-8 | |
| Counting 4 | 0,00 | 0,00 | 0,1 | 0,1 | 98,95% | | 1-4 | |
| Counting 5 | 0,00 | 0,00 | 0,1 | 0,1 | 98,95% | | 1-4 | |
| Counting 6 | 0,00 | 0,30 | 0,1 | 0,4 | 95,79% | | 1-4 | |
| Counting 7 | 0,00 | 0,20 | 0,2 | 0,4 | 95,79% | | 1-8 | |
| Total avg. | 0,00 | 0,12 | 0,10 | 0,22 | 97,72% | | | |

Welfare Scores (Avg.)

| | Eye | Snoute | Blushing | Scales | Fins | Wounds | Gills | Comments |
|------------------|------|--------|----------|--------|------|--------|-------|------------------------------|
| Before treatment | | | | | | | | About 4 of 50 mature salmon. |
| Counting 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Counting 2 | 0 | 0 | 0,6 | 0,8 | 0,2 | 0,1 | 0 | |
| Counting 3 | 0 | 0 | 0,6 | 0,9 | 0,2 | 0 | 0 | |
| Counting 4 | 0 | 0 | 0,6 | 0,7 | 0,1 | 0,2 | 0,1 | |
| Counting 5 | 0 | 0 | 0,5 | 1 | 0 | 0,1 | 0 | |
| Counting 6 | 0 | 0 | 0,5 | 0,8 | 0 | 0 | 0 | |
| Counting 7 | 0 | 0 | 0,2 | 0,55 | 0 | 0,3 | 0 | |
| Total avg. | 0,00 | 0,00 | 0,50 | 0,79 | 0,08 | 0,12 | 0,02 | |

| | | | | | | | |
|--------------------------------------|--------|------------------|---------|---------------------|--------------------|---------------|---------|
| Date | Day 1 | Site | Removed | Site manager | Removed | Customer | Removed |
| From cage | 3 | To cage | 2 | Fhb/vet. | Per Kristian Sætre | Days w/o Feed | 3 |
| Number of fish | 90 704 | Avg. weight (kg) | 3,3327 | Biomass (kg) | 302 289 | | |
| Avg. effect (mobile and female lice) | 95,93% | Avg. scale loss | 1,09 | Estimated mortality | 0,03% | | |



Example of treatment performance: Cage 3, real data

| Throw number/Buoy-st | Buoy-string |
|----------------------|-------------|
| Start | 15:40 |
| End | 17:55 |
| Number of fish | 90 704 |
| Mortality | 25 |
| Hydrolicer (bar) | 0,98/1,0 |
| Hydroflow (m/s) | 1,95 |
| O2 (%) min/max | 90% |
| O2 (Yes/No) | Yes |
| Temperature (°C) | 11,0 |

Sea Lice Counting (Avg.)

| | Attached lice | Mobile lice | Female lice | Total | Effect (%) | Time | Line | Comments |
|------------------|---------------|-------------|-------------|-------|------------|------|------|--------------------------|
| Before treatment | | | | | | | | 1 blocking of the lines. |
| Counting 1 | 0,00 | 5,80 | 0,95 | 6,75 | | | | |
| Counting 2 | 0,00 | 0,00 | 0,0 | 0 | 100,00% | | 1-8 | |
| Counting 3 | 0,00 | 0,40 | 0,1 | 0,5 | 92,59% | | 1-8 | |
| Counting 4 | 0,00 | 0,00 | 0,1 | 0,1 | 98,52% | | 5-8 | |
| Counting 5 | 0,00 | 0,50 | 0,0 | 0,5 | 92,59% | | 1-4 | |
| Total avg. | 0,00 | 0,23 | 0,05 | 0,28 | 95,93% | | | |

Welfare Scores (Avg.)

| | Eye | Snoute | Blushing | Scales | Fins | Wounds | Gills | Comments |
|------------------|------|--------|----------|--------|------|--------|-------|----------|
| Before treatment | | | | | | | | |
| Counting 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Counting 2 | 0 | 0 | 0 | 1,5 | 0 | 0 | 0 | |
| Counting 3 | 0 | 0 | 0,1 | 1,3 | 0,3 | 0 | 0,1 | |
| Counting 4 | 0 | 0 | 0,4 | 0,75 | 0 | 0,1 | | |
| Counting 5 | 0 | 0 | 0,5 | 0,8 | 0 | 0,4 | 0,1 | |
| Total avg. | 0,00 | 0,00 | 0,25 | 1,09 | 0,08 | 0,13 | 0,07 | |

| | | | | | | | |
|------|-------|------|---------|--------------|---------|----------|---------|
| Date | Day 1 | Site | Removed | Site manager | Removed | Customer | Removed |
|------|-------|------|---------|--------------|---------|----------|---------|

| | | | | | | | |
|-----------|---|---------|---|----------|--------------------|---------------|---|
| From cage | 4 | To cage | 3 | Fhb/vet. | Per Kristian Sætre | Days w/o Feed | 3 |
|-----------|---|---------|---|----------|--------------------|---------------|---|

| | | | | | |
|----------------|--------|------------------|--------|--------------|---------|
| Number of fish | 88 026 | Avg. weight (kg) | 3,1607 | Biomass (kg) | 278 224 |
|----------------|--------|------------------|--------|--------------|---------|

| | | | | | |
|--------------------------------------|--------|-----------------|------|---------------------|-------|
| Avg. effect (mobile and female lice) | 90,24% | Avg. scale loss | 1,09 | Estimated mortality | 0,03% |
|--------------------------------------|--------|-----------------|------|---------------------|-------|



Example of treatment performance: Cage 4, real data

| Throw number/Buoy-st | Buoy-string |
|----------------------|-------------|
| Start | 19:40 |
| End | 21:50 |
| Number of fish | 88 026 |
| Mortality | 25 |
| Hydrolicer (bar) | 0,98/1,0 |
| Hydroflow (m/s) | 1,95 |
| O2 (%) min/max | >80 % |
| O2 (Yes/No) | Yes |
| Temperature (°C) | 11,0 |

Sea Lice Counting (Avg.)

| | Attached lice | Mobile lice | Female lice | Total | Effect (%) | Time | Line | Comments |
|------------------|---------------|-------------|-------------|-------|------------|------|------|--|
| Before treatment | | | | | | | | The night shift counted, I was there for the first hour. |
| Counting 1 | 0,00 | 2,50 | 1,60 | 4,10 | | | | |
| Counting 2 | 0,10 | 0,50 | 0,3 | 0,8 | 80,49% | | 1-8 | |
| Counting 3 | 0,00 | 0,20 | 0,0 | 0,2 | 95,12% | | 1-8 | |
| Counting 4 | 0,00 | 0,20 | 0,2 | 0,4 | 90,24% | | 1-8 | |
| Counting 5 | 0,00 | 0,10 | 0,1 | 0,2 | 95,12% | | 1-8 | |
| Total avg. | 0,03 | 0,25 | 0,15 | 0,40 | 90,24% | | | |

Welfare Scores (Avg.)

| | Eye | Snoute | Blushing | Scales | Fins | Wounds | Gills | Comments |
|------------------|------|--------|----------|--------|------|--------|-------|----------|
| Before treatment | | | | | | | | |
| Counting 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Counting 2 | 0 | 0 | 0,4 | 0,7 | 0,5 | 0 | 0,3 | |
| Counting 3 | 0 | 0 | 0,4 | 0,9 | 0,7 | 0 | 0,1 | |
| Counting 4 | 0 | 0 | 0,6 | 1,6 | 0,3 | 0,1 | 0,3 | |
| Counting 5 | 0 | 0 | 0,4 | 1,15 | 0,3 | 0,1 | 0,1 | |
| Total avg. | 0,00 | 0,00 | 0,45 | 1,09 | 0,45 | 0,05 | 0,20 | |

| | | | | | | | |
|--------------------------------------|--------|------------------|---------|---------------------|--------------------|---------------|---------|
| Date | Day 1 | Site | Removed | Site manager | Removed | Customer | Removed |
| From cage | 5 | To cage | 4 | Fhb/vet. | Per Kristian Sætre | Days w/o Feed | 3 |
| Number of fish | 97 306 | Avg. weight (kg) | 4,465 | Biomasse (kg) | 444 374 | | |
| Avg. effect (mobile and female lice) | 97,24% | Avg. scale loss | 1,03 | Estimated mortality | 0,03% | | |



Example of treatment performance: Cage 5, real data

| Throw number/Buoy-st | Throw nr. 1 | Buoy-string | Comment |
|----------------------|-------------|-------------|--|
| Start | 23:55 | 02:15 | Oxygen levels varies towards the end of treatment, most likely because of oxygen-supply. |
| End | 01:55 | 03:25 | |
| Number of fish | 55 000 | 42 306 | |
| Mortality | 10 | 25 | |
| Hydrolicer (bar) | 0,95/0,97 | 0,95/0,97 | |
| Hydroflow (m/s) | 2,00 | 2,00 | |
| O2 (%) min/max | - | - | |
| O2 (Yes/No) | Yes | Yes | |
| Temperature (°C) | 10,5 | 10,5 | |

Sea Lice Counting (Avg.)

| | Attached lice | Mobile lice | Female lice | Total | Effect (%) | Time | Line | Comments |
|------------------|---------------|-------------|-------------|-------|------------|------|------|----------|
| Before treatment | | | | | | | | |
| Counting 1 | 0,00 | 5,65 | 3,40 | 9,05 | | | | |
| Counting 2 | 0,00 | 0,20 | 0,1 | 0,3 | 96,69% | | 1-8 | |
| Counting 3 | 0,10 | 0,20 | 0,0 | 0,2 | 97,79% | | 1-8 | |
| Total avg. | 0,05 | 0,20 | 0,05 | 0,25 | 97,24% | | | |

Welfare Scores (Avg.)

| | Eye | Snoute | Blushing | Scales | Fins | Wounds | Gills | Comments |
|------------------|------|--------|----------|--------|------|--------|-------|----------|
| Before treatment | | | | | | | | |
| Counting 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Counting 2 | 0 | 0 | 0,3 | 0,95 | 0,5 | 0 | 0,2 | |
| Counting 3 | 0,1 | 0 | 0,5 | 1,1 | 1,1 | 0,1 | 0,3 | |
| Total avg. | 0,05 | 0,00 | 0,40 | 1,03 | 0,80 | 0,05 | 0,25 | |

| | | | | | | | |
|------|-------|------|---------|--------------|---------|----------|---------|
| Date | Day 2 | Site | Removed | Site manager | Removed | Customer | Removed |
|------|-------|------|---------|--------------|---------|----------|---------|

| | | | | | | | |
|-----------|---|---------|---|----------|--------------------|---------------|---|
| From cage | 6 | To cage | 5 | Fhb/vet. | Per Kristian Sætre | Days w/o Feed | 3 |
|-----------|---|---------|---|----------|--------------------|---------------|---|

| | | | | | |
|----------------|--------|------------------|--------|--------------|---------|
| Number of fish | 97 558 | Avg. weight (kg) | 4,5533 | Biomass (kg) | 444 211 |
|----------------|--------|------------------|--------|--------------|---------|

| | | | | | |
|--------------------------------------|--------|-----------------|------|---------------------|-------|
| Avg. effect (mobile and female lice) | 99,24% | Avg. scale loss | 0,90 | Estimated mortality | 0,02% |
|--------------------------------------|--------|-----------------|------|---------------------|-------|



Example of treatment performance: Cage 6, real data

| Throw number/Buoy-st | Throw nr. 1 | Buoy-string | Comment |
|----------------------|-------------|-------------|----------------------|
| Start | 05:05 | 07:35 | Oxygen level varies. |
| End | 07:10 | 09:15 | |
| Number of fish | 45 000 | 50 000 | |
| Mortality | 10 | 15 | |
| Hydrolicer (bar) | 0,95/0,97 | 0,95/0,97 | |
| Hydroflow (m/s) | 1,95 | 1,95 | |
| O2 (%) min/max | good | - | |
| O2 (Yes/No) | Yes | Yes | |
| Temperature (°C) | 10,5 | 10,5 | |

Sea Lice Counting (Avg.)

| | Attached lice | Mobile lice | Female lice | Total | Effect (%) | Time | Line | Comments |
|------------------|---------------|-------------|-------------|-------|------------|------|------|----------|
| Before treatment | | | | | | | | |
| Counting 1 | 0,00 | 3,95 | 2,65 | 6,60 | | | | |
| Counting 2 | 0,00 | 0,10 | 0,0 | 0,1 | 98,48% | | 1-8 | |
| Counting 3 | 0,00 | 0,00 | 0,0 | 0 | 100,00% | | 1-8 | |
| Total avg. | 0,00 | 0,05 | 0,00 | 0,05 | 99,24% | | | |

Welfare Scores (Avg.)

| | Eye | Snoute | Blushing | Scales | Fins | Wounds | Gills | Comments |
|------------------|------|--------|----------|--------|------|--------|-------|----------|
| Before treatment | | | | | | | | |
| Counting 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Counting 2 | 0 | 0 | 0,7 | 1 | 0 | 0 | 0 | |
| Counting 3 | 0 | 0 | 0,4 | 0,8 | 0 | 0 | 0 | |
| Total avg. | 0,00 | 0,00 | 0,55 | 0,90 | 0,00 | 0,00 | 0,00 | |

| | | | | | | | |
|--------------------------------------|--------|------------------|---------|---------------------|--------------------|---------------|---------|
| Date | Day 2 | Site | Removed | Site manager | Removed | Customer | Removed |
| From cage | 7 | To cage | 6 | Fhb/vet. | Per Kristian Sætre | Days w/o Feed | 3 |
| Number of fish | 86 097 | Avg. weight (kg) | 2,9058 | Biomass (kg) | 250 181 | | |
| Avg. effect (mobile and female lice) | 89,13% | Avg. scale loss | 0,95 | Estimated mortality | 0,02% | | |



Example of treatment performance: Cage 7, real data

| Throw number/Buoy-st | Buoy-string |
|----------------------|-------------|
| Start | 11:20 |
| End | 12:55 |
| Number of fish | 86 096 |
| Mortality | 20 |
| Hydrolicer (bar) | 0,99/1,02 |
| Hydroflow (m/s) | 1,95 |
| O2 (%) min/max | 80-110 |
| O2 (Yes/No) | Yes |
| Temperature (°C) | 10,0 |

Sea Lice Counting (Avg.)

| | Attached lice | Mobile lice | Female lice | Total | Effect (%) | Time | Line | Comments |
|------------------|---------------|-------------|-------------|-------|------------|------|------|---|
| Before treatment | | | | | | | | Good behaviour of the fish. Some challenges to hit the right setting on the hydrolicer. |
| Counting 1 | 0,00 | 3,80 | 0,80 | 4,60 | | | | |
| Counting 2 | 0,00 | 0,30 | 0,0 | 0,3 | 93,48% | | 1-8 | |
| Counting 3 | 0,00 | 0,80 | 0,0 | 0,8 | 82,61% | | 5-8 | |
| Counting 4 | 0,00 | 0,10 | 0,4 | 0,5 | 89,13% | | 1-4 | |
| Counting 5 | 0,00 | 0,20 | 0,2 | 0,4 | 91,30% | | 1-4 | |
| Total avg. | 0,00 | 0,35 | 0,15 | 0,50 | 89,13% | | | |

Welfare Scores (Avg.)

| | Eye | Snoute | Blushing | Scales | Fins | Wounds | Gills | Comments |
|------------------|------|--------|----------|--------|------|--------|-------|----------|
| Before treatment | | | | | | | | |
| Counting 1 | 0 | 0 | 0,15 | 0,2 | 0,25 | 0 | 0 | |
| Counting 2 | 0,1 | 0 | 0,2 | 0,95 | 0 | 0 | 0 | |
| Counting 3 | 0 | 0 | 0,2 | 1,05 | 0 | 0,2 | 0 | |
| Counting 4 | 0 | 0 | 0,1 | 0,65 | 0 | 0 | 0 | |
| Counting 5 | 0,1 | 0,1 | 0,4 | 1,15 | 0 | 0,2 | 0 | |
| Total avg. | 0,05 | 0,03 | 0,23 | 0,95 | 0,00 | 0,10 | 0,00 | |

Date Day 1 and 2
 Customer Removed
 Site Removed
 Biomass (kg) 2 478 438

Site manager Removed

Example of treatment performance: Summary, real data



| Cage 1 | | Cage 2 | | Cage 3 | | Cage 4 | |
|----------------------------------|---------------|----------------------------------|---------------|----------------------------------|---------------|----------------------------------|---------------|
| Number of fish | 86 344 | Number of fish | 96 298 | Number of fish | 90 704 | Number of fish | 88 026 |
| Biomass (kg) | 265 344 | Biomass (kg) | 493 816 | Biomass (kg) | 302 289 | Biomass (kg) | 278 224 |
| Acute mortality* | 10 | Acute mortality* | 50 | Acute mortality* | 25 | Acute mortality* | 25 |
| O2 % (min/max) | 72/110 | O2 % (min/max) | ok | O2 % (min/max) | 90 | O2 % (min/max) | > 80 % |
| Temperature (°C) | 10 | Temperature (°C) | 11 | Temperature (°C) | 11 | Temperature (°C) | 11 |
| Avg. female lice after treatment | 0,00 | Avg. female lice after treatment | 0,10 | Avg. female lice after treatment | 0,05 | Avg. female lice after treatment | 0,15 |
| Avg. effect of treatment | 95,56% | Avg. effect of treatment | 97,72% | Avg. effect of treatment | 95,93% | Avg. effect of treatment | 90,24% |
| Change in welfare-indicators** | 0,85 | Change in welfare-indicators** | 0,79 | Change in welfare-indicators** | 1,09 | Change in welfare-indicators** | 1,09 |
| Acute mortality (%) | 0,01% | Acute mortality (%) | 0,05% | Acute mortality (%) | 0,03% | Acute mortality (%) | 0,03% |
| Cage 5 | | Cage 6 | | Cage 7 | | | |
| Number of fish | 97 306 | Number of fish | 97 558 | Number of fish | 86 097 | | |
| Biomass (kg) | 444 374 | Biomass (kg) | 444 211 | Biomass (kg) | 250 181 | | |
| Acute mortality* | 35 | Acute mortality* | 25 | Acute mortality* | 20 | | |
| O2 % (min/max) | - | O2 % (min/max) | good | O2 % (min/max) | 80/110 | | |
| Temperature (°C) | 10,5 | Temperature (°C) | 10,5 | Temperature (°C) | 10 | | |
| Avg. female lice after treatment | 0,05 | Avg. female lice after treatment | 0,00 | Avg. female lice after treatment | 0,15 | | |
| Avg. effect of treatment | 97,24% | Avg. effect of treatment | 99,24% | Avg. effect of treatment | 89,13% | | |
| Change in welfare-indicators** | 1,03 | Change in welfare-indicators** | 0,90 | Change in welfare-indicators** | 0,75 | | |
| Acute mortality (%) | 0,04% | Acute mortality (%) | 0,03% | Acute mortality (%) | 0,02% | | |

*Estimated from camera in pen

**Based on scale loss