Cereal Company Changes to a Proactive Approach Reducing Large Flies by 81%

BACKGROUND

A large cereal company that makes a variety of grain-based products operates a manufacturing and packaging plant in rural Pennsylvania in the U.S. which has heavy fly pressure in the spring, summer and fall. The waste feed area of the plant attracts a high number of large flies. Female large flies consider waste feed a very suitable environment for their larvae to develop. The fermenting grains provide all the food, water and shelter needed for larval development.

SITUATION

Prior to August 2013, the plant was using insect light traps in the interior of the facility. Though flies were not getting into the product area, the plant had concerns that flies could adulterate the product. Flies have been shown to carry more than 100 pathogens that cause human diseases, including Salmonella and E. coli, and can transfer pathogens to food.

SOLUTION

The plant converted to Ecolab’s Large Fly Program which includes an outside-in approach to eliminating large flies. In addition to the interior STEALTH® Fly Lights, Ecolab installed STEALTH™ Fly Stations, an Ecolab patented technology, to key exterior locations near the waste feed areas. The STEALTH™ Fly Stations can attract large flies to a targeted area for elimination before they enter the facility. The plant operators and Ecolab partnered on identifying areas to improve sanitation practices which made the environment less attractive to large flies.

STEALTH® Fly Station

RESULTS

In the chart below, the red line represents the number of times Ecolab’s Food and Beverage customers in the U.S. requested extra pest elimination service for large flies. The fly seasons in 2013 and 2014 were comparable. By implementing the Ecolab Large Fly Program, Ecolab and the plant were able to significantly reduce the number of large flies entering the facility by 81%.

"THE STEALTH FLY STATIONS HAVE IMPROVED OVERALL FLY CONTROL THROUGHOUT THE PLANT JUST BY CONTROLLING THEM IN THE WASTE FEED AREA."

— Customer Email

TOGETHER, WE PROTECT YOUR SUCCESS WITH OUR COMPREHENSIVE OUTSIDE-IN PROGRAM

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>INSPECTION</th>
<th>EXTERIOR TREATMENTS</th>
<th>PROPRIETARY EXTERIOR EQUIPMENT</th>
<th>INTERIOR SPOT TREATMENTS</th>
<th>INTERIOR EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecolab Program</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Large National Pest Providers</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>

Learn More Today
Find out how Ecolab can help protect your brand from large flies. Read full case studies and view our partnership video, Teaming Up Against Flies at ecolab.com/largefly

This document is prepared for the sole benefit of Ecolab, Inc. and may not be used or relied upon by any other person(s) without prior written consent of Ecolab.