Possible Earnings Per Year

Example based on a 1,000-cow dairy:

- **Nitrogen fertilizer:**
  Minimum savings of $29.60 per acre. A 500-acre farm would pocket $14,800 per year.

- **Animal loss due to slippery floors:**
  At 1% animal loss per year, savings of $20,000 for a 1,000-cow dairy.

- **Manure handling costs:**
  Avg. $150 per cow per year = $150,000 for a 1,000-cow dairy. Now able to irrigate year-round, reduced off-site hauling, no agitation costs (time, electric & equipment), easier pumping (increased pumping from 900 gal./min. before treatment to 1,200 gal./min after treatment). Estimated annual earnings of 25% = $37,500.

- **Better crops**
- **Methane collection:** Pro-Act’s system facilitates methane collection; use it as an energy source or just burn it off and benefit from the carbon credit.
- **Less manpower:** Simple to use, little machinery involved.
- **Higher employee morale, less worker’s comp costs.**
- **Better neighbor relations, less legal costs.**

**Total quantifiable profit: $72,300**

Example of Cost for System

Example based on a 1,000-cow dairy:

- **Startup costs for current inventory:**
  3-million gallons @ $2,000/million = $6,000

- **Diffuser rental:**
  @ $100 per month + startup costs = $5,100 total for 3 diffusers

- **Treatment cost per year:**
  $12,000 ($1,000 per month)

**Annual cost 1st year: $22,100**
**Net profit for 1st year: $50,200**

**Annual cost after 1st year: $15,600**
**Net profit after 1st year: $56,700**

*This is an example based on averages from current customers. Contact us to find out what you can expect to save per year.

“Hauling was costing us $10,000 a month. With Pro-Act, I anticipate reducing that by 90%.”

Tom Wagner
Wagner Dairy

1-800-772-3775
www.ProActMicrobial.com
### Nutrient composition of dairy lagoon top water/effluent (lb/1000 gal)

<table>
<thead>
<tr>
<th>Pro-Act Treated Manure Top Water</th>
<th>Total-N</th>
<th>Ammonium-N</th>
<th>Organic-N</th>
<th>Phosphate</th>
<th>Potash</th>
<th>Ammonium-N/ Total-N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>8.6</td>
<td>6.3</td>
<td>2.3</td>
<td>1.7</td>
<td>10.25</td>
<td>0.73 (0.67 - 0.79)</td>
</tr>
<tr>
<td>National Average</td>
<td>4.1</td>
<td>2.6</td>
<td>1.5</td>
<td>2.5</td>
<td>5.8</td>
<td>0.66</td>
</tr>
</tbody>
</table>

Minimum savings from Pro-Act treatment from nitrogen fertilizer per acre: (230-150) = 80 lbs. at 37 cents per lb. total $29.60

**Assumptions:**
1. 50% of the organic N is available to the crops in the first year.
2. N fertilizer at 37 cents per pound ($340/ton of urea @ 46% N fertilizer).
3. About 230 lbs. of nitrogen and 70 lbs. of phosphorus are needed per acre to grow 180 bushels of corn.

**Pro-Act treated lagoon top water:**
- 41,000 gallons of manure water (about 1.5 acre-inch or 160,000 lbs) will give you a total of 305 lbs. of nitrogen, 70 lbs. of phosphorus, enough to meet the nutrient requirement for one acre of corn.

**Untreated lagoon water:**
- 41,000 gallons of manure water will give you a total of 150 lbs. of nitrogen, 98 lbs. of phosphorus, not enough nitrogen for corn but an over application of phosphorus.

Minimum savings of $29.60 per acre. A 500-acre farm would pocket $14,800 per year.

### Buy Less Nitrogen Fertilizer

**Stratify Your Lagoon**

<table>
<thead>
<tr>
<th>Top Water</th>
<th>Total-N</th>
<th>Ammonium-N</th>
<th>Organic-N</th>
<th>Phosphate</th>
<th>Potash</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8.6</td>
<td>6.3</td>
<td>1.7</td>
<td>10.25</td>
<td></td>
</tr>
</tbody>
</table>

- Top water can be used for irrigation
- Only nutrient-rich bottom water needs to be hauled to outlying fields
- Buy less fertilizer
- Little or no agitation will be needed

**Total-N Ammonium-N Phosphate Potash**

<table>
<thead>
<tr>
<th>Bottom Water</th>
<th>Total-N</th>
<th>Ammonium-N</th>
<th>Organic-N</th>
<th>Phosphate</th>
<th>Potash</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>17.6</td>
<td>7.8</td>
<td>10.5</td>
<td>12.4</td>
<td></td>
</tr>
</tbody>
</table>

**Buy More Nitrogen Fertilizer**

1. We've cut our electric bill by $700 a month.
   - Roy Beardslee
   - Lottahill Farms Dairy