### Grease Interceptor Sizing Worksheet - Manning Formula

<table>
<thead>
<tr>
<th>Fixtures Connected to Grease Interceptor</th>
<th>Fixture Drain Size (inches)</th>
<th>Quantity</th>
<th>Fixture Rating per Drain Size (GPM)¹</th>
<th>Grease Laden Fixture Multiplier²</th>
<th>Maximum GPM &quot;D&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>&quot;A&quot; x</td>
<td>&quot;B&quot; x</td>
<td>&quot;C&quot; =</td>
<td></td>
</tr>
</tbody>
</table>

**Worksheet Directions**

1. List all fixtures required to be connected to grease interceptor.
2. List the actual drain sizes of each fixture.
3. List the quantity of each type of fixture.
4. Find the fixture rating based on drain size using the Fixture Rating Table ¹ below.
5. Find the fixture multiplier for each fixture using the Table of Common Commercial Kitchen Fixtures and their Corresponding Rating ² below.
6. Multiply "A" x "B" x "C" to figure the maximum GPM "D" for each type of fixture.
7. Add values in column D to figure the total GPMs for all fixtures "E".
8. Multiply "E" by the required retention time of 24 minutes to figure the minimum required grease interceptor gallonage.

**Notes:** Use the following maximum GPM values:

- Dishwasher = 10 GPM per unit
- Mop sink and can wash = 6 GPM per fixture

\[
\text{Sum of column "D" (GPM)} = \ "E" \\
\times \text{Retention Period, Minutes} \times 24 = \text{Minimum Grease Interceptor size, Gallons}
\]

¹ **Fixture Rating per Drain Size Table:**
- 0.5 inch pipe diameter = 0.8 GPM/fixture
- 1.0 inch pipe diameter = 5.0 GPM/fixture
- 1.5 inch pipe diameter = 15 GPM/fixture
- 2.0 inch pipe diameter = 33 GPM/fixture
- 2.5 inch pipe diameter = 59 GPM/fixture
- 3.0 inch pipe diameter = 93 GPM/fixture

² **Table of Common Commercial Kitchen Fixtures and their Corresponding Rating:**
- 2, 3, or 4 compartment pot sink = 1.0
- 1 or 2 compartment meat prep. Sink = 0.75
- Pre-rinse Sink = 0.5
- 1 or 2 compartment vegetable prep. Sink = 0.25
- Floor drains = 0.00
## EXAMPLE

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Fixture Drain Size (inches)</th>
<th>Quantity</th>
<th>Fixture Rating GPM</th>
<th>Fixture Rating Multiplier</th>
<th>Maximum GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Compartment Sink</td>
<td>2.0</td>
<td>1</td>
<td>33</td>
<td>1.00</td>
<td>33.00</td>
</tr>
<tr>
<td>Meat Prep. Sink</td>
<td>1.5</td>
<td>1</td>
<td>15</td>
<td>0.75</td>
<td>11.25</td>
</tr>
<tr>
<td>Pre-Rinse Sink</td>
<td>1.5</td>
<td>1</td>
<td>15</td>
<td>0.50</td>
<td>7.50</td>
</tr>
<tr>
<td>Vegetable Prep. Sink</td>
<td>1.5</td>
<td>1</td>
<td>15</td>
<td>0.25</td>
<td>3.75</td>
</tr>
<tr>
<td>Can-wash</td>
<td>3.0</td>
<td>1</td>
<td>N/A</td>
<td>N/A</td>
<td>6.00</td>
</tr>
<tr>
<td>Floor Drains</td>
<td>3.0</td>
<td>10</td>
<td>93</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Dishwasher</td>
<td>2.0</td>
<td>1</td>
<td>N/A</td>
<td>N/A</td>
<td>10.00</td>
</tr>
</tbody>
</table>

Sum of column "D" (GPM) "E" = 71.5

x Retention Period, Minutes x 24

= Minimum Grease Interceptor size, Gallons 1,716

*Round up to next standard grease interceptor size: Use 2,000 gallon interceptor*