Planting the proper refuge is critical when refuge in a bag is not available.

**STEP 1**  REFUGE SIZE  Plant the **CORRECT** size refuge for the area and corn product.
- The Corn-Growing Area
  - 5% or 20%, structured refuge required
- The Cotton-Growing Area
  - 20% or 50%, structured refuge required
Refer to IRM Grower/Product guide.
SEE PAGE 2 for instructions on correctly calculating your refuge acres.

**STEP 2**  REFUGE LOCATION  Plant the required refuge within each field that contains *B.t.* insect-protected corn.
Refuge should always be a minimum of four rows wide.

**STEP 3**  REFUGE PLANTING  In each field, plant your refuge first before planting any insect-protected corn. This will ensure that the minimum refuge size requirement is met should unforeseen circumstances (i.e., adverse weather) alter your planting schedule and strategy.
Use a refuge product that contains no *B.t.* insect-protection traits.

**STEP 4**  TREATMENT  If you need to treat your refuge with a non-*B.t.* foliar insecticide, you may need to treat the *B.t.* product technology in a similar manner.

*Provided as a summary only. Growers must read the seed company IRM Grower/Product Guide prior to planting for important information on planting and insect resistance management.
Calculating IRM Compliance

Structured Refuge

Refer to this diagram for the examples below.

- **A** Total Corn Acres*
- **B** Refuge Acres
- **C** B.t. Acres
- **%** Percent of Required Refuge — 5%, 20%, or 50%

*Includes all corn acres that are infield or adjacent to each other and will be allocated to the B.t. product and its associated refuge.

### The **Wrong Way** to calculate

Example shown is for a 20% refuge product.

Do **NOT** multiply the amount of B.t. acres or seed by the percent of refuge required.

**Example**

<table>
<thead>
<tr>
<th>B</th>
<th>C</th>
<th>=</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.C.</td>
<td>160</td>
<td>% 20%</td>
</tr>
</tbody>
</table>

This is **NOT** the correct minimum refuge size.

### The **Correct Way** to calculate

Example shown is for a 20% refuge product.

**START** with the **TOTAL** number of corn acres you want to plant in an area.

**Multiply by the **PERCENT** of refuge required for the B.t. trait.**

**This is your minimum **REFUGE ACRES.**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>=</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

Your Field

Next, subtract your refuge acres from your total corn acres.

**This is your maximum **B.t. ACRES.**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>40</td>
<td>160</td>
</tr>
</tbody>
</table>

Your Field

DOWNLOAD A FREE Insect Resistance Management (IRM) corn refuge calculator at www.irmcalculator.com or by scanning this QR code.

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