

## Phosphine Resistance Testing Data Sheet

<b>Company:</b>	<b>Contact Name:</b>
<b>Address:</b>	<b>Date:</b>
	<b>Phone Number:</b>
	<b>Email:</b>

**Insect Collection:** Collect and identify ~200 live adult insects. Carefully place into large plastic jar in the food product they occur in. Heat can kill or stress the insects in about an hour. Pack carefully and send insects to:

INSECTS LIMITED, INC.  
16950 Westfield Park Road  
Westfield, IN 46074 USA  
ATTN: Ethan Estabrook

**Trapping:** PC Pitfall Traps™ are live insect traps that can be purchased to help collect insects. Lures are also available to attract insects. *Cost: PC Pitfall Traps™ come in quantities of 5 at \$74.99 plus shipping & handling. Shop at [www.insectslimited.com](http://www.insectslimited.com) for specific lures.*



**Rice weevil (Weevils)** - These small beetles are reddish brown, and about 2.5 mm long and have 4 yellowish patches, one at each corner of the elytra. They have distinctively long snouts and numerous round pits on the thorax. These weevils are able to fly.



**Flat Grain Beetle (Bran bug)** – These beetles are one of the smallest reaching about 1.5 mm in length. They are flat, oblong and rusty brown in color. They have very long antennae that can be up to 2/3rds the length of their body. These insects tend to become a problem when grain has become wet or moist.



**Red Flour Beetle (Bran bug)** – These small beetles are reddish-brown and about 3mm long. They have 3 distinctively larger segments at the end of their antennae compared to the other segments. These beetles are able to fly.



**Lesser Grain Borer (Borers)** - These tiny (2mm) beetles have a uniform medium to dark brown color. They have distinctive pits on the elytra and small teeth on the front of the thorax. These beetles are excellent fliers and are attracted to insect light traps.



**Grain Quality**

Superior

Acceptable

Poor

**Grain Moisture**

Moist

Dry

**Grain Temperature and Age**

Temperature: \_\_\_\_\_ °F

Age: \_\_\_\_\_ years

**State, Region and Range where grain is from**

Location: \_\_\_\_\_

Range:            25 miles            50 miles            100 miles            250 miles            >250miles

**How were insects collected?**

\_\_\_\_\_  
\_\_\_\_\_

**Personal observation of insect infestation**

\_\_\_\_\_  
\_\_\_\_\_

**History of Insecticides and/or Fumigations to Grain (Most recent to latest)**

Year Fumigated                      Fumigant Used

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Would you be willing to share these findings with Land Grant colleges to do research in this area?**

YES

NO