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IPM PARTNER® INSECT IDENTIFICATION GUIDE

Name	Photo	Size (mm)	Color	Typical Life Cycle	Favorite Food	Attracted to Light	Geographic Distribution	Penetrate Packages	Product Recommendation
MOTHS									
Almond Moth <i>Cadra cautella</i>		14-20	Gray	25-30 days	Dried fruit and grain	Yes	General	Yes, larvae only	 <small>Also available in QUICK-CHANGE™</small>  <small>Also available in QUICK-CHANGE™</small>  <small>(Mating Disruptant)</small>
Angoumois Grain Moth <i>Sitotroga cerealella</i>		13-17	Buff	28-35 days	Whole grain	Yes	General	Yes, larvae only	 <small>Also available in QUICK-CHANGE™</small>  <small>Also available in QUICK-CHANGE™</small>
Casemaking Clothes Moth <i>Tinea pellionella</i>		11	Brownish	30-60 days	Wool, natural fibers and hair	Yes	General	Yes, larvae only	 <small>Also available in QUICK-CHANGE™</small>  <small>Also available in QUICK-CHANGE™</small>
European Grain Moth <i>Nemapogon granellus</i>		13-17	White & brown	90-300 days	Grain	Yes	Northern	Yes, larvae only	 <small>Also available in QUICK-CHANGE™</small>  <small>Also available in QUICK-CHANGE™</small>
Indianmeal Moth <i>Plodia interpunctella</i>		8-10	Copper red & silver gray	28-35 days	Broken or processed grain	Yes	General	Yes, larvae only	 <small>Also available in QUICK-CHANGE™</small>  <small>Also available in QUICK-CHANGE™</small>  <small>(Mating Disruptant)</small>
Mediterranean Flour Moth <i>Ephestia kuehniella</i>		10-15	Gray & black	30-180 days	Flour and processed cereal grain	Yes	General	Yes, larvae only	 <small>Also available in QUICK-CHANGE™</small>  <small>Also available in QUICK-CHANGE™</small>  <small>(Mating Disruptant)</small>
Raisin Moth <i>Cadra figulilella</i>		12-20	Gray	32 days	Drying and dried fruit	Yes	General	Yes, larvae only	 <small>Also available in QUICK-CHANGE™</small>  <small>Also available in QUICK-CHANGE™</small>  <small>(Mating Disruptant)</small>
Tobacco Moth (Also known as Warehouse or Cacao Moth) <i>Ephestia elutella</i>		14-20	Tan to dark tan	82-206 days	Cocoa beans and tobacco, cereals, dried fruit and nuts	Yes	General	Yes, larvae only	 <small>Also available in QUICK-CHANGE™</small>  <small>Also available in QUICK-CHANGE™</small>  <small>(Mating Disruptant)</small>
Webbing Clothes Moth <i>Tineola bisselliella</i>		11	Golden brown	30-60 days	Wool, natural fibers and hair	Yes	General	Yes, larvae only	 <small>Also available in QUICK-CHANGE™</small>  <small>Also available in QUICK-CHANGE™</small>
BEETLES, BORERS AND WEEVILS									
Black Carpet Beetle <i>Attagenus unicolor</i>		3-5	Black	180-365 days	Adult: Pollen; Larvae: Cereal, and animal products	Yes	General	Yes	 <small>Also available in QUICK-CHANGE™ version</small> 
Cadelle Beetle <i>Tenebroides mauritanicus</i>		6-10	Dark brown	65-135 days	Germ of grain and flour	Yes	General	Yes	 <small>Also available in QUICK-CHANGE™ version</small> 
Cigarette Beetle <i>Lasioderma serricorne</i>		2-3	Reddish brown	40-70 days	General, tobacco, and spices	Yes	General	Yes	 <small>Also available in QUICK-CHANGE™ version</small>    <small>Also available in QUICK-CHANGE™ version</small>  <small>Also available in QUICK-CHANGE™ version</small>
Confused Flour Beetle <i>Tribolium confusum</i>		3.5	Reddish brown	60-90 days	Flour, meal, and broken grain	Yes	Northern	Weak	 <small>Also available in QUICK-CHANGE™ version</small>  
Drugstore Beetle <i>Stegobium paniceum</i>		2-3	Brown	60-120 days	Anything	Yes	General	Yes	 <small>Also available in QUICK-CHANGE™ version</small> 
Flat Grain Beetle <i>Cryptolestes pusillus</i>		1.5	Reddish brown	21-28 days	Moldy grain	Yes	General	No	 <small>Also available in QUICK-CHANGE™ version</small>  
Foreign Grain Beetle <i>Ahasverus advena</i>		2	Reddish brown	30 days	Moldy grain	Yes	General	Yes	 <small>Also available in QUICK-CHANGE™ version</small>  
Granary Weevil <i>Sitophilus granarius</i>		3-5	Dark brown to black	28-35 days	Whole grain	No	Northern	Yes, adults only	 <small>Also available in QUICK-CHANGE™ version</small>  
Lesser Grain Borer <i>Rhyzopertha dominica</i>		3	Reddish brown	30 days	Whole grain	Yes	Southern	Yes	 <small>Also available in QUICK-CHANGE™ version</small>    <small>Also available in QUICK-CHANGE™ version</small>
Maize Weevil <i>Sitophilus zeamais</i>		2.5-4	Red brown black	35 days	Corn, rice, wheat, oats, barley, sorghum, rye and buckwheat	Yes	General	Yes, adults only	 <small>Also available in QUICK-CHANGE™ version</small>  
Mealworm Beetle <i>Tenebrio molitor</i>		12	Black	Over 1 year	Moldy grain	No	Northern	Yes	 <small>Also available in QUICK-CHANGE™ version</small> 
Merchant Grain Beetle <i>Oryzaephilus mercator</i>		3	Brown	30-40 days	Flour, meal, and oilseeds	Yes	Southern	Yes	 <small>Also available in QUICK-CHANGE™ version</small> 
Red Flour Beetle <i>Tribolium castaneum</i>		3.5	Reddish brown	60-90 days	Flour, meal, and broken grain	Yes	Southern	Weak	 <small>Also available in QUICK-CHANGE™ version</small>   
Red Legged Ham Beetle <i>Necrobia rufipes</i>		3.5-7	Metallic bluish-green	30 days	Damaged meat or coconut	No	General	Yes	 <small>Also available in QUICK-CHANGE™ version</small> 
Rice Weevil <i>Sitophilus oryzae</i>		2-3	Dark brown to black	28-56 days	Whole grain	Yes	Southern	Yes, adults only	 <small>Also available in QUICK-CHANGE™ version</small>  
Sawtoothed Grain Beetle <i>Oryzaephilus surinamensis</i>		2-3	Brown	21-28 days	Flour and meal	Yes	General	Yes	 <small>Also available in QUICK-CHANGE™ version</small> 
Varied Carpet Beetle <i>Anthrenus verbasci</i>		1.7-3.5	Varies	180-365 days	Pollen grazers and larvae feed on natural fibers	Yes	General	Yes, larvae only	 <small>Also available in QUICK-CHANGE™ version</small> 
Warehouse Beetle <i>Trogoderma variabile</i>		3	Varies	40-50 days	Cereal and meat	Yes	General	Yes	 <small>Also available in QUICK-CHANGE™ version</small>    <small>Also available in QUICK-CHANGE™ version</small>  <small>Also available in QUICK-CHANGE™ version</small>

**The Most Effective
Moth Control Product
available on the market today!**

CIDETRAK® IMM
MATING DISRUPTANT FOR INDIANMEAL MOTH



At Trece we are proud to bring this proven technology and our latest technological concept in integrated pest management, **CIDETRAK IMM**, an intelligently simple high performance dispenser for Indianmeal Moth mating disruption. Designed to prevent mating by sending Indianmeal Moth into a state of confusion the male cannot find the female.



STORGARD

I N S E C T M O N I T O R I N G S Y S T E M S



For more information about purchasing, contact your local supplier, call 1-866-785-1313, or visit www.trece.com.

Moths
Pheromone



Common Name	Scientific Name
Almond Moth	<i>Cadra cautella</i>
Angoumois Grain Moth	<i>Sitotroga cerealella</i>
Casemaking Clothes Moth	<i>Tinea pellionella</i>
European Grain Moth	<i>Nemapogon granella</i>
Indianmeal Moth	<i>Plodia interpunctella</i>
Mediterranean Flour Moth	<i>Ephestia kuehniella</i>
Raisin Moth	<i>Cadra figulilella</i>
Tobacco Moth	<i>Ephestia elutella</i>
Webbing Clothes Moth	<i>Tineola bisselliella</i>

Beetles
Pheromone



Common Name	Scientific Name
Cigarette Beetle	<i>Lasioderma serricorne</i>
Confused Flour Beetle	<i>Tribolium confusum</i>
Khapra Beetle	<i>Trogoderma granarium</i>
Larger Grain Borer	<i>Prostephanus truncatus</i>
Lesser Grain Borer	<i>Rhyzopertha dominica</i>
Merchant Grain Beetle	<i>Oryzaephilus mercator</i>
Red Flour Beetle	<i>Tribolium castaneum</i>
Sawtoothed Grain Beetle	<i>Oryzaephilus surinamensis</i>
Warehouse Beetle	<i>Trogoderma variabile</i>

Other
Kairomone



Common Name	Scientific Name
Fly	Multi-species
Yellow Jacket	Multi-species



STORGARD®
INSECT MONITORING SYSTEMS



Broad Spectrum Beetle Attractant in Standard DOME™ and QUICK-CHANGE™ DOME™

Kairomone

Common Name	Scientific Name
American Black Flour Beetle	<i>Tribolium audax</i>
American Spider Beetle	<i>Mezium americanum</i>
Antlike Flower Beetle	<i>Anthicus spp.</i>
Cigarette Beetle	<i>Lasioderma serricorne</i>
Confused Flour Beetle	<i>Tribolium confusum</i>
Depressed Flour Beetle	<i>Palorus subdepressus</i>
Drugstore Beetle	<i>Stegobium paniceum</i>
Dusky Sap Beetle	<i>Carpophilus lugubris Murray</i>
Flat/Rusty Grain Beetle	<i>Cryptolestes spp.</i>
Foreign Grain Beetle	<i>Ahasverus advena</i>

Common Name	Scientific Name
Golden Spider Beetle	<i>Niptus hololeucus</i>
Granary Weevil	<i>Sitophilus granarius</i>
Hairy Fungus Beetle	<i>Typhaea stercorea</i>
Khapra Beetle	<i>Trogoderma granarium</i>
Larder Beetle	<i>Dermestes lardarius</i>
Lesser Mealworm Beetle	<i>Alphitobius diaperinus</i>
Longheaded Flour Beetle	<i>Latheticus oryzae</i>
Maize Weevil	<i>Sitophilus zeamais</i>
Merchant Grain Beetle	<i>Oryzaephilus mercator</i>
Picnic Beetle	<i>Glischrochilus quadrisignatus</i>

Common Name	Scientific Name
Red Flour Beetle	<i>Tribolium castaneum</i>
Redlegged Ham Beetle	<i>Necrobia rufipes</i>
Rice Weevil	<i>Sitophilus oryzae</i>
Sawtoothed Grain Beetle	<i>Oryzaephilus surinamensis</i>
Seedcorn Beetle	<i>Stenolophus lecontei</i>
Small Eyed Flour Beetle	<i>Palorus ratzeburgii</i>
Warehouse Beetle	<i>Trogoderma variabile</i>
Other small beetles	

STORGARD®
QUICK CHANGE
BROAD SPECTRUM MOTH & BEETLE MONITORING SYSTEMS



Your Edge – And Ours – Is Knowledge.