



Integrated Pest Management Models

Integrated Pest Management allows you to monitor pest and disease models specific to crops. This list shows the current disease/pest models supported by IPM. The list will be updated as new models are added. Please check back frequently.

Don't see the model you need on the list? Please call Davis Technical Support at (510) 732-7814 or email support@davisinstruments.com to suggest an addition to our list.

[What do you need to leverage IPM?](#)

	CROP	PESTS	SENSORS REQUIRED			
			Temp	Hum	Leaf	Rain
GRAPES	Vitis	Anthracnose of Grape: <i>Elsinoe ampelina</i>	X		X	
		Black Rot of Grape: <i>Guignardia bidwellii</i>	X		X	
		Botrytis Bunch Rot of Grape: <i>Botrytis cinerea</i>	X	X	X	
		Downy Mildew of Grape: <i>Plasmopara viticola</i>	X	X	X	X
		Eastern Grape Leafhopper: <i>Erythroneura comes</i>	X			
		European Corn Borer: <i>Ostrinia nubilalis</i>	X			
		European Grapevine Moth: <i>Lobesia botrana</i>	X			
		European Red Mite: <i>Panonychus ulmi</i>	X			
		Glassy-winged Sharpshooter: <i>Homalodisca coagulata</i>	X			
		Grape Berry Moth: <i>Paralobesia viteana</i>	X			
		Grape Phylloxera: <i>Daktulosphaira vitifoliae</i>	X			
		Grape Root Borer: <i>Vitacea polistiformis</i>	X			
		Grape Scale: <i>Diaspidiotus uvae</i>	X			
		Japanese Beetle: <i>Popillia japonica</i>	X			
		Light Brown Apple Moth: <i>Epiphyas postvittana</i>	X			
		Omnivorous Leafroller: <i>Platynota stultana</i>	X			
		Orange Tortrix: <i>Argyrotaenia citrana</i>	X			
		Pacific Spider Mite: <i>Tetranychus pacificus</i>	X			
		Phomopsis Cane and Leaf Spot of Grapea: <i>Phomopsis viticola</i>	X		X	
		Potato Leafhopper: <i>Empoasca fabae</i>	X			
		Powdery Mildew of Grape: <i>Uncinula necator</i>				
		Primary and Secondary Infection	X		X	
		Secondary Infection Only	X			
		Redbanded Leafroller: <i>Argyrotaenia velutinana</i>	X			
		Spotted Wing Drosophila: <i>Drosophila suzukii</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
		Twospotted Spider Mite: <i>Tetranychus urticae</i>	X			
		Variiegated Cutworm: <i>Peridroma saucia</i>	X			
		Vine Mealybug: <i>Planococcus ficus</i>	X			
		Western Grape Leafhopper: <i>Erythroneura elegantula</i>	X			
Western Grapeleaf Skeletonizer: <i>Harrisina brillians</i>	X					

	CROP	PESTS	SENSORS REQUIRED			
			Temp	Hum	Leaf	Rain
POME FRUITS	Apples: <i>Malus domestica</i> Pears: <i>Pyrus</i> Other: <i>Alius</i>	Apple Maggot: <i>Rhagoletis pomonella</i>	X			
		Apple Scab: <i>Venturia inaequalis</i>	X			
		Ascospore Maturity Model	X			
		Modified Mills Table	X		X	
		Revised Mills Table	X		X	
		Codling Moth: <i>Cydia pomonella</i>	X			
		European Red Mite: <i>Panonychus ulmi</i>	X			
		Fire Blight: <i>Erwinia amylovora</i>				
		Billings Integrated System	X		X	
		CougarBlight	X		X	
		Maryblyt	X		X	
		Fruittree Leafroller: <i>Archips argyrospilus</i>	X			
		Green Apple Aphid: <i>Aphis pomi</i>	X			
		Japanese Beetle: <i>Popillia japonica</i>	X			
		Light Brown Apple Moth: <i>Epiphyas postvittana</i>	X			
		Lygus Bug: <i>Lygus hesperus</i>	X			
		Mediterranean Fruit Fly: <i>Ceratitis capitata</i>	X			
		Obliquebanded Leafroller: <i>Choristoneura rosaceana</i>	X			
		Omnivorous Leafroller: <i>Platynota stultana</i>	X			
		Orange Tortrix: <i>Argyrotaenia citrana</i>	X			
		Oriental Fruit Moth: <i>Grapholita molesta</i>	X			
		Pacific Spider Mite: <i>Tetranychus pacificus</i>	X			
		Pandemis Leafroller: <i>Pandemis pyrusana</i>	X			
		Plum Curculio: <i>Conotrachelus nenuphar</i>	X			
		Plum Fruit Moth: <i>Grapholita funebrana</i>	X			
		Potato Leafhopper: <i>Empoasca fabae</i>	X			
		Redbanded Leafroller: <i>Argyrotaenia velutinana</i>	X			
		San Jose Scale: <i>Quadraspidiotus perniciosus</i>	X			
		Spotted Tentiform Leafminer: <i>Phyllonorycter blancardella</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
Tufted Apple Bud Moth: <i>Platynota idaeusalis</i>	X					
Twospotted Spider Mite: <i>Tetranychus urticae</i>	X					
White Apple Leafhopper: <i>Typhlocyba pomaria</i>	X					

	CROP	PESTS	SENSORS REQUIRED			
			Temp	Hum	Leaf	Rain
STONE FRUITS	Apricots: <i>Prunus armeniaca</i> Cherries: <i>Cerasus Juss</i> Peaches & Nectarines: <i>Prunus persica</i> Plums: <i>Prunus subg.</i> Prunes: <i>Prunus domestica</i> Other: <i>Alius</i>	American Brown Rot: <i>Monilinia fructicola</i>	X		X	
		Codling Moth: <i>Cydia pomonella</i>	X			
		Cotton Bollworm: <i>Helicoverpa armigera</i>	X			
		European Brown Rot: <i>Monilinia laxa</i>	X	X	X	
		European Red Mite: <i>Panonychus ulmi</i>	X			
		Fruittree Leafroller: <i>Archips argyrospilus</i>	X			
		Green Peach Aphid: <i>Myzus persicae</i>	X			
		Japanese Beetle: <i>Popillia japonica</i>	X			
		Leaf Spot of Cherry: <i>Blumeriella jaapii Coccoomyces hiemalis</i>	X		X	
		Lygus Bug: <i>Lygus hesperus</i>	X			
		Obliquebanded Leafroller: <i>Choristoneura rosaceana</i>	X			
		Omnivorous Leafroller: <i>Platynota stultana</i>	X			
		Orange Tortrix: <i>Argyrotaenia citrana</i>	X			
		Oriental Fruit Moth: <i>Grapholita molesta</i>	X			
		Pacific Spider Mite: <i>Tetranychus pacificus</i>	X			
		Peach Twig Borer: <i>Anarsia lineatella</i>	X			
		Peachtree Borer: <i>Synanthedon exitiosa</i>	X			
		Plum Curculio: <i>Conotrachelus nenuphar</i>	X			
		Plum Fruit Moth: <i>Grapholita funebrana</i>	X			
		Powdery Mildew of Cherry: <i>Podosphaera clandestina</i>				
		Primary and Secondary Infection	X		X	
		Secondary Infection Only	X			
San Jose Scale: <i>Quadraspidiotus perniciosus</i>	X					
Spotted Wing Drosophila: <i>Drosophila suzukii</i>	X					
Twospotted Spider Mite: <i>Tetranychus urticae</i>	X					
Walnut Husk Fly: <i>Rhagoletis completa</i>	X					
Western Cherry Fruit Fly: <i>Rhagoletis indifferens</i>	X					

	CROP	PESTS	SENSORS REQUIRED			
			Temp	Hum	Leaf	Rain
NUT TREES	Almonds: <i>Prunus dulcis</i> Cashews: <i>Anacardium occidentale</i> Chestnuts: <i>Castanea Mill.</i> Hazelnuts: <i>Corylus avellane</i> Pecans: <i>Carya illinoensis</i> Pistachios: <i>Pistacia vera</i> Walnuts: <i>Juglans regia</i> Other: <i>Alius</i>	Alternaria Leaf Spot of Almond: <i>Alternaria alternata</i> , A.	X		X	
		Codling Moth: <i>Cydia pomonella</i>	X			
		European Red Mite: <i>Panonychus ulmi</i>	X			
		Fruittree Leafroller: <i>Archips argyrosipilus</i>	X			
		Lygus Bug: <i>Lygus hesperus</i>	X			
		Navel Orangeworm: <i>Amyelois transitella</i>	X			
		Obliquebanded Leafroller: <i>Choristoneura rosaceana</i>	X			
		Oriental Fruit Moth: <i>Grapholita molesta</i>	X			
		Pacific Spider Mite: <i>Tetranychus pacificus</i>	X			
		Peach Twig Borer: <i>Anarsia lineatella</i>	X			
		Peachtree Borer: <i>Synanthedon exitiosa</i>	X			
		Plum Fruit Moth: <i>Grapholita funebrana</i>	X			
		San Jose Scale: <i>Quadraspidiotus perniciosus</i>	X			
		Twospotted Spider Mite: <i>Tetranychus urticae</i>	X			
		Walnut Husk Fly: <i>Rhagoletis completa</i>	X			
Walnut Blight: <i>Xanthomonas campestris pv. juglandis</i>	X		X			
CITRUS FRUITS	Grapefruit: <i>Citrus × paradisi</i> Lemons & Limes: <i>Citrus limon (L.) et Citrus × aurantiifolia et Citrus limetta</i> Oranges: <i>Citrus × sinensis</i> Tangerines: <i>Citrus reticulata</i> Other: <i>Alius</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Fruittree Leafroller: <i>Archips argyrosipilus</i>	X			
		Light Brown Apple Moth: <i>Epiphyas postvittana</i>	X			
		Omnivorous Leafroller: <i>Platynota stultana</i>	X			
		Orange Tortrix: <i>Argyrotaenia citrana</i>	X			
		Potato Leafhopper: <i>Empoasca fabae</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
		Twospotted Spider Mite: <i>Tetranychus urticae</i>	X			
BERRIES	Raspberries: <i>Rubus</i> Strawberries: <i>Fragaria × ananassa</i> Blueberries: <i>Cyanococcus</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Japanese Beetle: <i>Popillia japonica</i>	X			
		Light Brown Apple Moth: <i>Epiphyas postvittana</i>	X			
		Lygus Bug: <i>Lygus hesperus</i>	X			
		Obliquebanded Leafroller: <i>Choristoneura rosaceana</i>	X			
		Orange Tortrix: <i>Argyrotaenia citrana</i>	X			
		Pandemis Leafroller: <i>Pandemis pyrusana</i>	X			
		Plum Curculio: <i>Conotrachelus nenuphar</i>	X			
		Redbanded Leafroller: <i>Argyrotaenia velutinana</i>	X			
		Spotted Wing Drosophila: <i>Drosophila suzukii</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
Twospotted Spider Mite: <i>Tetranychus urticae</i>	X					

	CROP	PESTS	SENSORS REQUIRED			
			Temp	Hum	Leaf	Rain
EGGPLANTS & TOMATOES	Eggplants: <i>Solanum melongena</i> Tomatoes: <i>Solanum lycopersicum</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Beet Leafhopper: <i>Circulifer tenellus</i>	X			
		Cotton Bollworm: <i>Helicoverpa armigera</i>	X			
		Early Blight P-Days: <i>Alternaria solani</i>	X			
		Green Peach Aphid: <i>Myzus persicae</i>	X			
		Late Blight: <i>Phytophthora infestans</i>				
		Negative Prognosis Model	X	X		X
		NegFry Model	X	X		X
		Lygus Bug: <i>Lygus hesperus</i>	X			
		Potato Leafhopper: <i>Empoasca fabae</i>	X			
		Potato Tuberworm: <i>Phthorimaea operculella</i>	X			
		Tobacco Budworm: <i>Helicoverpa virescens</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
		Tobacco Whitefly: <i>Bemisia tabaci</i>	X			
		Tomato Pinworm: <i>Keiferia lycopersicella</i>	X			
		Twospotted Spider Mite: <i>Tetranychus urticae</i>	X			
Variegated Cutworm: <i>Peridroma saucia</i>	X					
Vegetable Leafminer: <i>Liriomyza trifolii</i>	X					
MELONS	Watermelons: <i>Citrullus lanatus</i> Cantaloupes: <i>Cucumis melo</i> Other Melons: <i>Cucumis</i>	Seedcorn Maggot: <i>Delia platura</i>	X			
		Vegetable Leafminer: <i>Liriomyza trifolii</i>	X			
CEREALS	Wheat: <i>Triticum</i> Maize: <i>Zea mays</i> Rice: <i>Oryza sativa</i> Sorghum: <i>Sorghum</i> Barley: <i>Hordeum vulgare</i> Rye: <i>Secale cereale</i> Oats: <i>Avena sativa</i> Millets: <i>Eleusine coracana</i> Other: <i>Alius</i>	Beet Armyworm <i>Spodoptera exigua</i>	X			
		Cotton Bollworm: <i>Helicoverpa armigera</i>	X			
		European Corn Borer: <i>Ostrinia nubilalis</i>	X			
		Seedcorn Maggot: <i>Delia platura</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
		Variegated Cutworm: <i>Peridroma saucia</i>	X			
OILSEED CROPS	Soybeans: <i>Glycine max</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Cotton Bollworm: <i>Helicoverpa armigera</i>	X			
		Japanese Beetle: <i>Popillia japonica</i>	X			
		Potato Leafhopper: <i>Empoasca fabae</i>	X			
		Seedcorn Maggot: <i>Delia platura</i>	X			
		Twospotted Spider Mite: <i>Tetranychus urticae</i>	X			
		Variegated Cutworm: <i>Peridroma saucia</i>	X			

	CROP	PESTS	SENSORS REQUIRED			
			Temp	Hum	Leaf	Rain
ROOT/TUBER	Potatoes: <i>Solanum tuberosum</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Colorado Potato Beetle: <i>Leptinotarsa decemlineata</i>	X			
		Cotton Bollworm: <i>Helicoverpa armigera</i>	X			
		Early Blight P-Days: <i>Alternaria solani</i>	X			
		Green Peach Aphid: <i>Myzus persicae</i>	X			
		Late Blight: <i>Phytophthora infestans</i>				
		Negative Prognosis Model	X	X		X
		NegFry Model	X	X		X
		Lygus Bug: <i>Lygus hesperus</i>	X			
		Potato Leafhopper: <i>Empoasca fabae</i>	X			
		Potato Tuberworm: <i>Phthorimaea operculella</i>	X			
		Seedcorn Maggot: <i>Delia platura</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
		Tobacco Whitefly: <i>Bemisia tabaci</i>	X			
		Tomato Pinworm: <i>Keiferia lycopersicella</i>	X			
		Twospotted Spider Mite: <i>Tetranychus urticae</i>	X			
		Variegated Cutworm: <i>Peridroma saucia</i>	X			
Vegetable Leafminer: <i>Liriomyza trifolii</i>	X					
BEVERAGES & SPICES	Peppers: <i>Capsicum</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Beet Leafhopper <i>Circulifer tenellus</i>	X			
		Green Peach Aphid: <i>Myzus persicae</i>	X			
		Lygus Bug: <i>Lygus hesperus</i>	X			
		Potato Leafhopper: <i>Empoasca fabae</i>	X			
		Potato Tuberworm: <i>Phthorimaea operculella</i>	X			
		Seedcorn Maggot: <i>Delia platura</i>	X			
		Tobacco Budworm: <i>Helicoverpa virescens</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
		Tobacco Whitefly: <i>Bemisia tabaci</i>	X			
		Tomato Pinworm: <i>Keiferia lycopersicella</i>	X			
		Twospotted Spider Mite: <i>Tetranychus urticae</i>	X			
		Variegated Cutworm: <i>Peridroma saucia</i>	X			
Vegetable Leafminer: <i>Liriomyza trifolii</i>	X					
SUGAR CROPS	Sugar Beet: <i>Beta vulgaris</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Beet Leafhopper: <i>Circulifer tenellus</i>	X			
		Green Peach Aphid: <i>Myzus persicae</i>	X			
		Potato Leafhopper: <i>Empoasca fabae</i>	X			
		Variegated Cutworm: <i>Peridroma saucia</i>	X			
		Vegetable Leafminer: <i>Liriomyza trifolii</i>	X			

	CROP	PESTS	SENSORS REQUIRED			
			Temp	Hum	Leaf	Rain
OTHER	Cotton: <i>Gossypium</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Cotton Bollworm: <i>Helicoverpa armigera</i>	X			
		Tobacco Budworm: <i>Helicoverpa virescens</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
		Tobacco Whitefly: <i>Bemisia tabaci</i>	X			
		Twospotted Spider Mite: <i>Tetranychus urticae</i>	X			
		Variegated Cutworm: <i>Peridroma saucia</i>	X			
	Grasses: <i>Poaceae</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Japanese Beetle: <i>Popillia japonica</i>	X			
		Variegated Cutworm: <i>Peridroma saucia</i>	X			
	Tobacco: <i>Nicotiana tabacum</i>	Beet Armyworm: <i>Spodoptera exigua</i>	X			
		Cotton Bollworm: <i>Helicoverpa armigera</i>	X			
		Potato Tuberworm: <i>Phthorimaea operculella</i>	X			
		Tobacco Budworm: <i>Helicoverpa virescens</i>	X			
		Tobacco Cutworm: <i>Spodoptera litura</i>	X			
		Tobacco Whitefly: <i>Bemisia tabaci</i>	X			
		Tomato Pinworm: <i>Keiferia lycopersicella</i>	X			
		Twospotted Spider Mite: <i>Tetranychus urticae</i>	X			