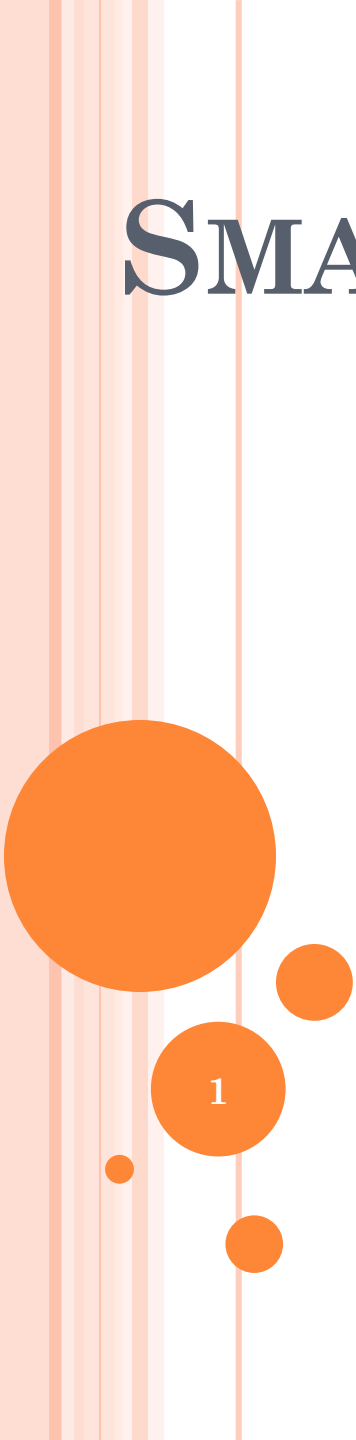


# SMART USE INDEX



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# USE INDEX OVERVIEW

- **Data Collection:** use pattern input x-form
  - Input use patterns for each registration
- **Database:** use pattern data storage
  - Perform ad hoc queries
  - Sort, filter, query across registrations
- **Data Reporting:** use pattern summary tables
  - Summarizes use patterns across registrations
  - Supports modeling and quantitative risk assessment
  - Provides official documents for docket, risk assessment, etc.

# BENEFITS OF USE INDEX

- Standardized and defined vocabularies
- Reduced need for interpretation
- Increased consistency in reviews
- Reduced review time

# HIERARCHICAL MODEL

## ○ Product Level

- Applies to all sites/scenarios

## ○ Use Site Level

- Applies only to the use site  
& associated scenarios

## ○ Scenario Level

- Applies only to specific use pattern

# USE PATTERN VOCABULARIES

## ○ Use Site

- Site
- Location

## ○ Scenario (Use Pattern)

- Target
- Method
- Equipment
- Timing

## ○ Restrictions

- 26 categories (intervals, hazards, methods, etc.)

# VOCABULARIES CONT.

Location	Definition
<b>Medical/Hospital/Veterinary Facility (Indoor)</b>	Indoor premises relating to the treatment/prevention of diseases and injuries.
<b>Medical/Hospital/Veterinary Facility (Outdoor)</b>	Outdoor premises relating to the treatment/prevention of diseases and injuries.
<b>Residential/Recreational /Schools/Commercial/Retail (Indoor)</b>	Indoor premises in developed areas where people live or frequent for non-occupational purposes. Such as schools, universities, municipal/public parks, amusement parks, government buildings, prisons, institutions, malls, and greenhouses on residential property.
<b>Residential/Recreational/ Schools/Commercial/Retail (Outdoor)</b>	Outdoor premises of locations in developed areas where people live or frequent for non-occupational purposes. Such as schools, universities, docks/marinas, water bodies, municipal/public parks, amusement parks, government buildings, prisons, institutions, malls, shadehouses / lathhouses or gardens on residential property.
<b>Occupational/Manufacturing/ Industrial Area (Indoor)</b>	Indoor premises that people frequent for occupational purposes, such as manufacturing facilities, construction areas, and office buildings excluding primarily agricultural, recreational and residential areas.
<b>Occupational/Manufacturing/ Industrial Area (Outdoor)</b>	Outdoor premises that people frequent for occupational purposes, such as manufacturing facilities, construction areas, docks/marinas, water bodies, and industrial park or office campus excluding primarily agricultural, recreational and residential areas.
<b>Treated Material</b>	Represents a pesticide treatment made during the manufacture/production of materials, plastics, paints, films, fabrics, wood, etc. (including impregnated materials)

# VOCABULARIES CONT.

Location	Definition
<b>Woodland/Nature Areas/ Animal Habitat (Outdoor)</b>	Generally undeveloped areas, including managed forest stands in long term rotation, not occupied by medical, residential, recreational, commercial, industrial, or agricultural buildings/activities, such as forests, conservation reserve program areas, wildlife refuges, beaches/water bodies, state/national parks, hiking trails, etc. uses.
<b>Forestry</b>	Forestry is a non-preferred term. For managed trees (such as deciduous, broadleaf, hardwood, etc), use the location Woodland/Nature Area/Animal Habitat (Outdoor). For tree farms (e.g., Christmas trees), use Agricultural (Outdoors).
<b>Agricultural (Outdoor)</b>	An area used for growing crops/ornamentals, or raising animals for commercial purposes. This includes cultivated areas, nurseries, shadehouses, sod farms, Christmas trees, seedling nurseries and other forestry practices grown to commercial rather than physical maturity, etc.
<b>Agricultural (Indoor)</b>	An indoor area used for growing crops/ornamentals or raising animals for commercial purposes. This includes agricultural greenhouses and barns.

# VOCABULARIES CONT.

Location	Definition
<b>Nursery (outdoor)</b>	Nursery is a non-preferred term. Choose one or both of the following (in most cases, both should be chosen): (1) For agricultural nurseries use Agricultural (outdoor), and (2) For nurseries used primarily as a point of sale directly to consumers use Residential/Recreational/Schools/Commercial/Retail (Outdoor). An area where plants are grown (for transplanting, for use as stocks for budding and grafting) or are for sale. Treatments to nurseries are considered to be outdoor uses.
<b>Greenhouse (indoor)</b>	Greenhouse is a non-preferred term. Choose one or more of the following: (1) For agricultural greenhouses use Agricultural (indoor), (2) For greenhouses on residential property, such as in a backyard, use Residential (indoor). Building designed for the protection of plants against excessive cold or heat. An enclosed structure (usually made of translucent/transparent glass or plastic on a framing of metal, plastic, or wood) used for the production of plant products. As compared to a Shadehouse/Lathhouse, a Greenhouse has fixed impermeable wall and roof, and is thus considered to be an indoor treatment. Shadehouses and Lathouses are outdoor treatments.
<b>Shadehouses / Lathhouses</b>	Shadehouses / Lathhouses is a non-preferred term. Choose one or more of the following: (1) For agricultural shadehouses / lathhouses, use Agricultural (outdoor), (2) For shadehouses / lathhouses on residential property, such as in a backyard, use Residential (outdoor).



# VOCABULARIES CONT.

- Location modifiers reduce the number of vocabulary elements in list.
  - Conceptually clarifies label information
  - Simplifies sorting/filtering/aggregating

Example Label Site	Use Site	Location
<b>Residential Lawns</b>	Grass/Turf	Residential/Recreational/Schools/ Commercial/Retail (Outdoor)
<b>Office park Turf</b>	Grass/Turf	Occupational/Manufacturing/ Industrial Area (Outdoor)
<b>Sod Farm</b>	Grass/Turf	Agricultural (Outdoor)

- 1320 non-agricultural sites can be described with
  - 120 sites
  - 11 locations

# USE INDEX

(I) Product Level		(II) Use Site Level			(III) Scenario Level										All Levels
Reg. Number	Use Site (+)	Location of Pesticidal Activity (+)	Annual App Rate [Amount / Unit/Year]		Form as Applied (+)	App Target (+)	App Type (+)	App Equipment (+)	App Timing (+)	Single App Rate [Amount / Unit]		Annual App Rate [Amount / Unit/Year]			Restrictions
			Max # of Apps per Year	Max App Rate per Year						Min Rate per App [Public Health Only]	Max Rate per App	Max # Apps per Scenario per Year	Min App Rate per Scenario per Year [Public Health Only]	Max App Rate per Scenario per Year	
Numeric	picklist	picklist	value	value, unit	picklist	picklist	picklist	picklist	picklist	value, unit	value, unit	value	value	value, unit	value, unit and/or picklist

# USE INDEX

(I) Product Level	
Reg. Number	Restrictions (+)
Numeric	value, unit and/or picklist

Links to Label  
(1/2)

Product  
Restrictions

# USE INDEX

[II] Use Site Level				
Use Site (+)	Location of Pesticidal Activity (+)	Annual App Rate [Amount /Unit/Year]		Restrictions (+)
		Max # of Apps per Year	Max App Rate per Year	
picklist	picklist	value	value, unit	value, unit and/or picklist

Links to Label  
(2/2)

Describes Site(s)

Max Rate for Site

Product Restrictions

# USE INDEX

(III) Scenario Level				
Form as Applied (+)	App Target (+)	App Type (+)	App Equipt (+)	App Timing (+)
picklist	picklist	picklist	picklist	picklist

Describes Use Scenario(s)

(III) Scenario Level (cont.)					
Single App Rate [Amount / Unit]		Annual App Rate [Amount /Unit/Year]			Restrictions (+)
Min Rate per App [Public Health Only]	Max Rate per App	Max # Apps per Scenario per Year	Min App Rate per Scenario per Year [Public Health Only]	Max App Rate per Scenario per Year	
value, unit	value, unit	value	value	value, unit	

Max Rate for Scenario (min for public health pests)

Product  
Restrictions

# USE INDEX

Links to Label

(I) Product Level		(II) Use Site Level			(III) Scenario Level										All Levels
Reg. Number	Use Site (+)	Location of Pesticidal Activity (+)	Annual App Rate [Amount / Unit / Year]		Form as Applied (+)	App Target (+)	App Type (+)	App Equipment (+)	App Timing (+)	Single App Rate [Amount / Unit]		Annual App Rate [Amount / Unit / Year]			Restrictions
			Max # of Apps per Year	Max App Rate per Year						Min Rate per App [Public Health Only]	Max Rate per App	Max # Apps per Scenario per Year	Min App Rate per Scenario per Year [Public Health Only]	Max App Rate per Scenario per Year	
Numeric	picklist	picklist	value	value, unit	picklist	picklist	picklist	picklist	picklist	value, unit	value, unit	value	value	value, unit	value, unit and/or picklist

Describes Site(s)

Max Rate for Site

Describes Use Scenario(s)

Max Rate for Scenario  
(min for public health pests)

Restrictions  
From Any  
Level

# Label Content

**Mouse B' Gone** is a solid bait prepackaged in tamper resistant disposable bait stations, for above ground use. Each bait station contains 1 ounce of bait.

In outdoor agricultural areas, place 1 bait station every 100 feet as a preventative treatment, or 2 bait stations every 100 feet when signs of infestation are observed. Do not exceed 5 ounces per 100 ft per year as a preventative treatment. Do not exceed 5 applications or 10 ounces of bait per 100 feet per year using either method. This product is toxic to mammals. Do not place in locations accessible to non-target mammals, including endangered species.

## Use Index

(II) Use Site Level				(III) Scenario Level								All Levels
Use Site (+)	Location of Pesticidal Activity (+)	Annual App Rate [Amount/Unit/Year]		Form as Applied (+)	App Target (+)	App Type (+)	App Equipt (+)	App Timing (+)	Single App Rate [Amount / Unit]	Annual App Rate [Amount/Unit/Year]		Restrictions (+)
		Max # of Apps per Year	Max App Rate per Year							Max # Apps per Scenario per Year	Max App Rate per Scenario per Year	
picklist	picklist	value	value, unit	picklist	picklist	picklist	picklist	picklist	value, unit	value	value, unit	value, unit and/or picklist
Premises/ Areas	Agricultural (Outdoor)	10 oz / 100 ft	5	Solid	Soil	Bait Treatment	Trap / Bait Station	before pests occur	1 oz / 100 ft	5	5 oz	* Hazard:mammals * Endamgered spp.
								when pests occur	2 oz / 100 ft	5	10 oz	

# QUESTIONS?