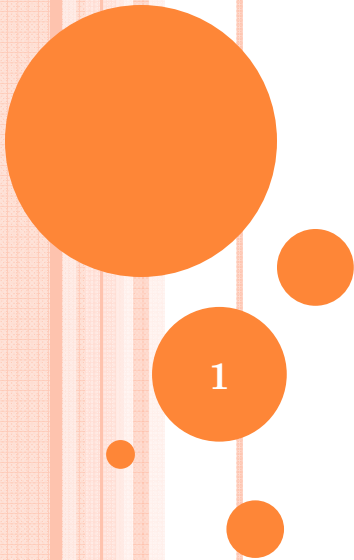


SMART USE INDEX

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September 2016



U.S. Environmental Protection Agency

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)

- Form as Applied
- Target
- Method
- Equipment
- Timing

○ Restrictions

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

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
Residential Lawns	Grass/Turf	Residential/Recreational/Schools/ Institutional/Retail (Outdoor)
Grass Around Oil Wells	Grass/Turf	Occupational/Manufacturing/Processing/ Industrial Area (Outdoor)
Sod Farm	Grass/Turf	Agricultural (Outdoor)

- 1400 non-agricultural sites can be described with
 - 140 sites
 - 10 locations

VOCABULARIES CONT.

Location	Definition
Agricultural (Indoor)	An indoor area used for growing crops/ornamentals or raising animals for commercial purposes. This includes agricultural greenhouses and barns.
Agricultural (Outdoor)	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.
Residential/Recreational/Schools/Institutional/Retail (Indoor)	Indoor premises in developed areas where people (including children) live or frequent for non-occupational purposes. Such as homes, public access areas, schools, universities, municipal/public parks, amusement parks, government buildings, prisons, institutions, malls, restaurants, and greenhouses on residential property.
Residential/Recreational/Schools/Institutional/Retail (Outdoor)	Outdoor premises of locations in developed areas where people (including children) live or frequent for non-occupational purposes. Such as homes, public access areas, schools, universities, docks/marinas, water bodies, municipal/public parks, amusement parks, government buildings, prisons, institutions, malls, restaurants, and shadehouses / lathhouses or gardens on residential property.
Occupational/Manufacturing/Processing/Industrial Area (Indoor)	Indoor premises that people frequent for occupational purposes, such as manufacturing/processing facilities, construction areas, and office buildings excluding primarily agricultural, recreational and residential areas.
Occupational/Manufacturing/Processing/Industrial Area (Outdoor)	Outdoor premises that people frequent for occupational purposes, such as manufacturing/processing facilities, construction areas, docks/marinas, water bodies, and industrial park or office campus excluding primarily agricultural, recreational and residential areas.

VOCABULARIES CONT.

Location	Definition
Medical/Hospital/Veterinary Facility (Indoor)	Indoor premises relating to the treatment/prevention of diseases and injuries.
Medical/Hospital/Veterinary Facility (Outdoor)	Outdoor premises relating to the treatment/prevention of diseases and injuries.
Woodland/Nature Areas/ Animal Habitat (Outdoor)	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.
Treated Material	Represents a pesticide treatment made during the manufacture/production of materials, plastics, paints, films, fabrics, wood, etc. (including impregnated materials)

VOCABULARIES CONT.

Location	Definition
<p>Nursery (Outdoor)</p>	<p>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.</p>
<p>Greenhouse (Indoor)</p>	<p>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.</p>
<p>Shadehouses / Lathouses (Outdoor)</p>	<p>Shadehouses / Lathouses is a non-preferred term. Choose one or more of the following: (1) For agricultural shadehouses / lathouses, use Agricultural (outdoor), (2) For shadehouses / lathouses on residential property, such as in a backyard, use Residential (outdoor).</p>
<p>Forestry (Outdoor)</p>	<p>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).</p>

USE INDEX


(I) Product Level			(II) Use Site Level				(III) Scenario Level									Any Level	
EPA Registration Number	Active Ingredient	%A.I.	Use Site	Use Site Location	Annual App Rate [Amount /Unit/Year]		Form as Applied	App Target	App Type	App Equipment	App Timing (Crop/Pest/Day)	Single App Rate [Amount /Unit]		Annual App Rate [Amount /Unit/Year]			Scenario Level Restrictions
					Max # of Apps per Time	Max App Rate per Time						Max Rate per App	Min Diluent/Max Finish Spray Vol	Max # Apps per Scenario per Time	Max App Rate per Scenario per Time	Max # Crop Cycles per Year	

(I) Product Level					(II) Use Site Level				(III) Scenario Level										Any Level			
EPA Registration Number	Density	Active Ingredient	%A.I.	%Factoring Term	Mass A.I. per Misc. App Unit	Use Site	Use Site Location	Annual App Rate [Amount /Unit/Year]		Form as Applied	App Target	App Type	App Equipment	App Timing (Crop/Pest/Day)	Single App Rate [Amount /Unit]			Annual App Rate [Amount /Unit/Year]				Scenario Level Restrictions
								Max # of Apps per Year	Max App Rate per Year						Min Rate per App [Public Health Only]	Max Rate per App	Min Diluent/Max Finish Spray Vol	Acre Rate for Non-Standard Target Measures	Contact Time	Max # Apps per Scenario per Time	Min App Rate per Scenario per Year [Public Health Only]	

USE INDEX

(I) Product Level						
EPA Registration Number	Density	Active Ingredient	% A.I.	% Factoring Term	Mass A.I. per Misc. App Unit	Product Level Restrictions

Links to Label
(2/4)



Product
Restrictions



USE INDEX

(II) Use Site Level				
Use Site	Use Site Location	Annual App Rate [Amount /Unit/Year]		Site Level Restrictions
		Max # of Apps per Time	Max App Rate per Time	



Describes Site(s)



Max Rate for Site



Site Restrictions

Links to Label
(2/4)

USE INDEX

(III) Scenario Level				
Form as Applied	App Target	App Type	App Equipment	App Timing (Crop/Pest/Day)

Describes Use Scenario(s)

(III) Scenario Level (cont.)									
Single App Rate [Amount /Unit]					Annual App Rate [Amount /Unit/Year]				Scenario Level Restrictions
Min Rate per App [Public Health Only]	Max Rate per App	Min Diluent/Max Finish Spray Vol	Acre Rate for Non-Standard Target Measures	Contact Time	Max # Apps per Scenario per Time	Min App Rate per Scenario per Year [Public Health Only]	Max App Rate per Scenario per Time	Max # Crop Cycles per Year	

Max Rate for Scenario (min for public health pests)

Scenario Restrictions

USE INDEX

Links to Label

(I) Product Level			(II) Use Site Level				(III) Scenario Level											
EPA Registration Number	Active Ingredient	%A.I.	Use Site	Use Site Location	Annual App Rate [Amount /Unit/Year]		Form as Applied	App Target	App Type	App Equipment	App Timing (Crop/Pest/Day)	Single App Rate [Amount /Unit]		Annual App Rate [Amount /Unit/Year]			Scenario Level Restrictions	
					Max # of Apps per Time	Max App Rate per Time						Max Rate per App	Min Diluent/Max Finish Spray Vol	Max # Apps per Scenario per Time	Max App Rate per Scenario per Time	Max # Crop Cycles per Year		

Describes Site(s) (bracketed under Use Site, Use Site Location)
 Max Rate for Site (bracketed under Max # of Apps per Time, Max App Rate per Time)
 Describes Use Scenario(s) (bracketed under Form as Applied, App Target, App Type, App Equipment, App Timing)
 Max Rate for Scenario (bracketed under Max Rate per App, Min Diluent/Max Finish Spray Vol, Max # Apps per Scenario per Time, Max App Rate per Scenario per Time)
 Restrictions From Any Level (arrow pointing to Scenario Level Restrictions)

CDX BUILDER DEMO

QUESTIONS?