

## **APPENDIX H: PEDSAFE AND BIKESAFE GROUPS**

Shown on the following pages are the relationships between the countermeasure groups used in PEDSAFE ([www.walkinginfo.org](http://www.walkinginfo.org)) and BIKESAFE ([www.bicyclinginfo.org](http://www.bicyclinginfo.org)) and the crash types and crash groups produced in PBCAT. Refer to chapter 9 for more information on the countermeasures included in these two Web sites.

**Table 16. PEDSAFE—PBCAT Mapping**

<b>PEDSAFE Crash Group</b>	<b>PBCAT Crash Group Number</b>	<b>PBCAT Crash Group Name</b>	<b>PBCAT Crash Type Number</b>	<b>PBCAT Crash Type Name</b>
Dart/Dash	740	Dash/Dart-Out	741	Dash
			742	Dart-Out
Multiple Threat/Trapped	720	Multiple Threat/Trapped	710	Multiple Threat
			730	Trapped
Unique Midblock	350	Unique Midblock	320	Entering/Exiting Parked Vehicle
			330	Mailbox-Related
			360	Ice Cream/Vendor Truck-Related
Through Vehicle at Unsignalized Location	750	Crossing Roadway—Vehicle Not Turning	760	Pedestrian Failed to Yield
			770	Motorist Failed to Yield
Bus-Related	340	Bus-Related	341	Commercial Bus-Related
			342	School Bus-Related
Turning Vehicle	790	Crossing Roadway—Vehicle Turning	781	Motorist Left Turn—Parallel Paths
			782	Motorist Left Turn—Perpendicular Paths
			791	Motorist Right Turn—Parallel Paths
			792	Motorist Right Turn on Red—Parallel Paths
			795	Motorist Right Turn—Perpendicular Paths
			794	Motorist Right Turn on Red—Perpendicular Paths
			799	Motorist Turn/Merge—Other/Unknown
	460	Crossing Driveway or Alley	460	Motorist Entering Driveway or Alley
			465	Motorist Exiting Driveway or Alley
			469	Driveway Crossing—Other/Unknown

**Table 16. PEDSAFE—PBCAT Mapping (continued)**

<b>PEDSAFE Crash Group</b>	<b>PBCAT Crash Group Number</b>	<b>PBCAT Crash Group Name</b>	<b>PBCAT Crash Type Number</b>	<b>PBCAT Crash Type Name</b>
Through Vehicle at Signalized Location	750	Crossing Roadway— Vehicle Not Turning	760	Pedestrian Failed to Yield
			770	Motorist Failed to Yield
Walking Along Roadway	400	Walking Along Roadway	410	Walking Along Roadway With Traffic—From Behind
			420	Walking Along Roadway With Traffic—From Front
			430	Walking Along Roadway Against Traffic—From Behind
			440	Walking Along Roadway Against Traffic—From Front
			459	Walking Along Roadway—Direction/Position Unknown
Working or Playing in Roadway	310	Working or Playing in Roadway	311	Working in Roadway
			312	Playing in Roadway
Nonroadway	800	Off Roadway	830	Off Roadway—Parking Lot
			890	Off Roadway—Other/Unknown
	460	Crossing Driveway or Alley	460	Motorist Entering Driveway or Alley
			465	Motorist Exiting Driveway or Alley
		469	Driveway Crossing—Other/Unknown	

**Table 16. PEDSAFE—PBCAT Mapping (continued)**

<b>PEDSAFE Crash Group</b>	<b>PBCAT Crash Group Number</b>	<b>PBCAT Crash Group Name</b>	<b>PBCAT Crash Type Number</b>	<b>PBCAT Crash Type Name</b>
Backing Vehicle	200	Backing Vehicle	211	Backing Vehicle—Driveway
			212	Backing Vehicle—Driveway/Sidewalk Intersection
			213	Backing Vehicle—Roadway
			214	Backing Vehicle—Parking Lot
			219	Backing Vehicle—Other/Unknown
Crossing an Expressway	910	Crossing Expressway	910	Crossing an Expressway
Miscellaneous (no specific countermeasures provided in PEDSAFE)	100	Unusual Circumstances	110	Assault with Vehicle
			120	Dispute-Related
			130	Pedestrian on Vehicle
			140	Vehicle-Vehicle/Object
			150	Motor Vehicle Loss of Control
			160	Pedestrian Loss of Control
			190	Other Unusual Circumstances
			220	Driverless Vehicle
			230	Disabled Vehicle-Related
			240	Emergency Vehicle-Related
			250	Play Vehicle-Related
	500	Waiting to Cross	510	Waiting to Cross—Vehicle Turning
			520	Waiting to Cross—Vehicle Not Turning
			590	Waiting to Cross—Vehicle Action Unknown
	600	Pedestrian in Roadway— Circumstances Unknown	620	Walking in Roadway
			610	Standing in Roadway
			313	Lying in Roadway
	990	Other/Unknown— Insufficient Details	900	Other—Unknown Location
			680	Nonintersection—Other/Unknown
			690	Intersection—Other/Unknown

**Table 17. BIKESAFE—PBCAT Mapping**

<b>BIKESAFE Crash Group</b>	<b>PBCAT Crash Group Number</b>	<b>PBCAT Crash Group Name</b>	<b>PBCAT Crash Type Number</b>	<b>PBCAT Crash Type Name</b>
Motorist Failed to Yield—Signalized Intersection	150	Motorist Failed to Yield—Signalized Intersection	152	Motorist Drive-out—Signalized Intersection
			151	Motorist Drive-out—Right Turn on Red
			154	Motorist Drive-through—Signalized Intersection
Motorist Failed to Yield—Nonsignalized Intersection	140	Motorist Failed to Yield—Sign-Controlled Intersection	141	Motorist Drive-out—Sign-Controlled Intersection
			143	Motorist Drive-through—Sign-Controlled Intersection
Bicyclist Failed to Yield—Signalized Intersection	158	Bicyclist Failed to Yield—Signalized Intersection	153	Bicyclist Ride-out—Signalized Intersection
			155	Bicyclist Ride Through—Signalized Intersection
			156	Bicyclist Failed to Clear—Trapped
			157	Bicyclist Failed to Clear—Multiple Threat
			159	Bicyclist Failed to Clear—Unknown
Bicyclist Failed to Yield—Nonsignalized Intersection	145	Bicyclist Failed to Yield—Sign-Controlled Intersection	142	Bicyclist Ride-out—Sign-Controlled Intersection
			144	Bicyclist Ride Through—Sign-Controlled Intersection
			147	Multiple Threat—Sign-Controlled Intersection
Motorist Drove-Out—Midblock	320	Motorist Failed to Yield—Midblock	321	Motorist Drive-out—Residential Driveway
			322	Motorist Drive-out—Commercial Driveway/Alley
			328	Motorist Drive-out—Other Midblock
			329	Motorist Drive-out—Midblock—Unknown

**Table 17. BIKESAFE—PBCAT Mapping (continued)**

<b>BIKESAFE Crash Group</b>	<b>PBCAT Crash Group Number</b>	<b>PBCAT Crash Group Name</b>	<b>PBCAT Crash Type Number</b>	<b>PBCAT Crash Type Name</b>
Bicyclist Rode Out—Midblock	310	Bicyclist Failed to Yield—Midblock	311	Bicyclist Ride-out—Residential Driveway
			312	Bicyclist Ride-out—Commercial Driveway/Alley
			318	Bicyclist Ride-out—Other Midblock
			319	Bicyclist Ride-out—Midblock—Unknown
			357	Multiple Threat— Midblock
Motorist Turned or Merged Left into Path of Bicyclist	210	Motorist Left Turn/Merge	211	Motorist Left Turn—Same Direction
			212	Motorist Left Turn—Opposite Direction
	219	Parking/Bus- Related	215	Motorist Drive-In/Out Parking
			216	Bus/Delivery Vehicle Pullover
Motorist Turned or Merged Right into Path of Bicyclist	215	Motorist Right Turn/Merge	213	Motorist Right Turn—Same Direction
			217	Motorist Right Turn on Red—Same Direction
			214	Motorist Right Turn—Opposite Direction
			218	Motorist Right Turn on Red—Opposite Direction
	219	Parking/Bus- Related	215	Motorist Drive-In/Out Parking
			216	Bus/Delivery Vehicle Pullover
Bicyclist Turned or Merged Left into Path of Motorist	220	Bicyclist Left Turn/Merge	221	Bicyclist Left Turn—Same Direction
			222	Bicyclist Left Turn—Opposite Direction
			225	Bicyclist Ride-out—Parallel Path
Bicyclist Turned or Merged Right into Path of Motorist	225	Bicyclist Right Turn/Merge	223	Bicyclist Right Turn—Same Direction
			224	Bicyclist Right Turn—Opposite Direction

**Table 17. BIKESAFE—PBCAT Mapping (continued)**

<b>BIKESAFE Crash Group</b>	<b>PBCAT Crash Group Number</b>	<b>PBCAT Crash Group Name</b>	<b>PBCAT Crash Type Number</b>	<b>PBCAT Crash Type Name</b>
Motorist Overtaking Bicyclist	230	Motorist Overtaking Bicyclist	231	Motorist Overtaking—Undetected Bicyclist
			232	Motorist Overtaking—Misjudged Space
			235	Motorist Overtaking—Bicyclist Swerved
			239	Motorist Overtaking—Other/Unknown
Bicyclist Overtaking Motorist	240	Bicyclist Overtaking Motorist	241	Bicyclist Overtaking—Passing on Right
			242	Bicyclist Overtaking—Passing on Left
			243	Bicyclist Overtaking—Parked Vehicle
			244	Bicyclist Overtaking—Extended Door
			249	Bicyclist Overtaking—Other/Unknown
Nonmotor Vehicle Crashes			400	Bicycle Only
Miscellaneous (no specific countermeasures provided in BIKESAFE)	110	Loss of Control/Turning Error	121	Bicyclist Lost Control—Mechanical problems
			122	Bicyclist Lost Control—Oversteering, Improper Braking, Speed
			123	Bicyclist Lost Control—Alcohol/Drug Impairment
			124	Bicyclist Lost Control—Surface Conditions
			129	Bicyclist Lost Control—Other/Unknown
			131	Motorist Lost Control—Mechanical Problems
			132	Motorist Lost Control—Oversteering, Improper Braking, Speed
			133	Motorist Lost Control—Alcohol/Drug Impairment
			134	Motorist Lost Control—Surface Conditions
			139	Motorist Lost Control—Other/Unknown
			111	Motorist Turning Error—Left Turn

**Table 17. BIKESAFE—PBCAT Mapping (continued)**

<b>BIKESAFE Crash Group</b>	<b>PBCAT Crash Group Number</b>	<b>PBCAT Crash Group Name</b>	<b>PBCAT Crash Type Number</b>	<b>PBCAT Crash Type Name</b>
			112	Motorist Turning Error—Right Turn
			113	Motorist Turning Error—Other
			114	Bicyclist Turning Error—Left Turn
			115	Bicyclist Turning Error—Right Turn
			116	Bicyclist Turning Error—Other
	190	Crossing Paths— Other Circumstances	148	Sign-Controlled Intersection—Other/Unknown
			158	Signalized Intersection—Other/Unknown
			180	Crossing Paths—Intersection—Other/Unknown Control
			160	Crossing Paths—Uncontrolled Intersection
			380	Crossing Paths—Midblock—Other/Unknown
	258	Head-On	250	Head-On—Bicyclist
			255	Head-On—Motorist
			259	Head-On—Unknown
	290	Parallel Paths— Other Circumstances	219	Motorist Turn/Merge—Other/Unknown
			280	Parallel Paths—Other/Unknown
			225	Bicyclist Ride-out—Parallel Path
	600	Backing Vehicle	600	Backing Vehicle
	850	Other/Unusual Circumstances	510	Motorist Intentionally Caused
			520	Bicyclist Intentionally Caused
			700	Play Vehicle-Related
			800	Unusual Circumstances
			400	Bicycle Only
	910	Nonroadway	910	Nonroadway
990	Other/Unknown— Insufficient Details	980	Unknown Location	
		970	Unknown Approach Paths	