

## Diamond Knowledge Base

### Default Bin Tables - Pegasus, Phoenix and Unicorn MDK

#### Overview

The tables below describes the default bins categories that are used with the Pegasus, Phoenix and Unicorn MDK units.

These “Bins” are used to total up all vehicles meeting a predetermined set of criteria. Note that this information is ONLY to be used if you are seeking to configure a Pegasus, Phoenix or Unicorn MDK unit to collect data in its Binned Mode.

Raw (Per-Vehicle), Sensor (Timestamp), and Count Modes Do Not Bin data.

Default Axle Bin Classification Table (Scheme- 'F')		
Bin Number	Axle Range	Bin Category Name
#1	2	Motorcycles
#2	2-4	Passenger cars
#3	2-5	Other two axle, 4 tire vehicles (w/ or w/o trailer)
#4	2-3	Buses
#5	2-5	Two axle, six tire, single trailer trucks
#6	3	Three axle, single unit trucks
#7	4	Four axle, single unit trucks
#8	3-4	Four or less axle, single trailer trucks
#9	5	Five axle, single trailer trucks
#10	6-10	Six or more axle, single trailer trucks
#11	5	Five axle, multi-trailer trucks
#12	6	Six axle, multi-trailer Trucks
#13	7-13	All other Vehicles

Default Speed and Length Bin Classification Table		
Bin Number	Speed Range	Length Range
#1	0.0-19.9 mph	0.0-5.9 feet
#2	20.0-24.9 mph	6.0-10.0 feet
#3	25.0-29.9 mph	10.1-14.9 feet
#4	30.0-34.9 mph	15.0-19.9 feet
#5	35.0-39.9 mph	20.0-24.9 feet
#6	40.0-44.9 mph	25.0-29.9 feet
#7	45.0-49.9 mph	30.0-39.9 feet
#8	50.0-54.9 mph	40.0-49.9 feet
#9	55.0-59.9 mph	50.0-59.9 feet
#10	60.0-64.9 mph	60.0-69.9 feet
#11	65.0-69.9 mph	70.0-79.9 feet

#12	70.0-74.9 mph	80.0-89.9 feet
#13	75.0-79.9 mph	All Other Lengths
#14	80.0-84.9 mph	
#15	85.0-89.9 mph	
#16	All Other Speeds	

Default Speed and Length Bin Classification Table		
Bin Number	Gap Bin time	Headway Bin Time
#1	00:00:03.00	00:00:03.00
#2	00:00:10.00	00:00:10.00
#3	00:00:15.00	00:00:15.00
#4	00:00:20.00	00:00:20.00
#5	00:00:30.00	00:00:30.00
#6	00:01:00.00	00:01:00.00
#7	00:02:00.00	00:02:00.00
#8	All Other Gaps	All Other Headways

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