

WEIGHTED AVERAGE EXAMPLES

CHANGES TO MILES WITH PUPILS OR MILES WITHOUT PUPILS

The LEA must maintain records of Miles With Pupils and Miles Without Pupils data for each vehicle. The examples below show how to calculate weighted averages for mileage changes. Weighted averages should be rounded to the nearest tenth. In all cases, the weighted average will be more than the lowest day's mileage and less than the highest day's mileage.

MILES WITH PUPILS

Vehicle I.D. #	<u>Days</u>		Actual Daily Miles With <u>Pupils</u>	=	
001	66	X	50.8	=	3,352.8
	33	X	50.5	=	1,666.5
	<u>81</u>	X	49.8	=	<u>4,033.8</u>
	180				9,053.1

$$\text{Weighted average Miles With Pupils} = \frac{9,053.1}{180} = 50.295 = 50.3$$

The entry on the PDE-1049 for this example would be 50.3 Miles With for 180 Number Days. In this example, the Miles With could not exceed 50.8 nor be less than 49.8.

MILES WITHOUT PUPILS

Vehicle I.D. #	<u>Days</u>		Actual Daily Miles Without <u>Pupils</u>	=	
002	66	X	25.5	=	1,683.0
	33	X	24.9	=	821.7
	<u>81</u>	X	24.2	=	<u>1,960.2</u>
	180				4,464.9

$$\text{Weighted average Miles Without Pupils} = \frac{4,464.9}{180} = 24.80 = 24.8$$

The entry on the PDE-1049 for this example would be 24.8 Miles Without for 180 Number Days. In this example, the Miles Without could not exceed 25.5 nor be less than 24.2.

WEIGHTED AVERAGE EXAMPLES

CHANGES TO NUMBER PUPILS

The LEA must maintain records of the greatest Number of Pupils Assigned to ride at any one time for each vehicle. The example below shows how to calculate a weighted average for pupil assignment count changes. Weighted averages should be rounded to the nearest tenth. In all cases, the weighted average will be more than the lowest pupil assignment and less than the highest pupil assignment.

NUMBER PUPILS ASSIGNED

Vehicle I.D. #	No. of Days		Greatest Number of Pupils Assigned to Ride at Any One Time		
003	11	X	35	=	385
	20	X	56	=	1,120
	38	X	59	=	2,242
	<u>114</u>	X	58	=	<u>6,612</u>
	183				10,359

$$\text{Weighted average Number Pupils Assigned} = \frac{10,359}{183} = 56.606 = 56.6$$

The entry on the PDE-1049 for this example would be 56.6 Number Pupils Assigned for 183 Number Days. In this example, the Number Pupils Assigned could not exceed 59 nor be less than 35.

Retain procedures, information and data used for these calculations for review by the Office of the Auditor General.