

# Effectiveness of Motorcycle Lane at Commonwealth Avenue, Quezon City, Philippines

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## ABSTRACT

The number of motorcycles in the country has been posing numerous problems on major roads in Metro Manila defined by the increasing number of motorcycle related accidents. The motorcycle is one of the most popular vehicle transports in the Philippines; proportional to this is its huge impact in the traffic mix which results to a high rate of motorcycle related accidents. For the past years, the death toll from vehicular accidents involving motorcycles has been increasing. One technique to address the problem is to separate the motorcycle from other motorized vehicles in traffic flow. The technique of employing a motorcycle lane on Commonwealth Avenue, one of the major roads in the Philippines, was introduced by the Metro Manila Development Authority (MMDA) for the first time in the country. This engineering approach was adapted and has also been used by traffic management authorities in other countries.

This study determined the effectiveness of the motorcycle lane as implemented in Commonwealth Avenue. The causes of motorcycle related accidents are also tackled in the study. The study revealed that there is a significant difference in the number of motorcycle accidents and the motorcycle lane itself having a P value of less than 0.05. There is a slight difference between the number of accidents and the time of accident with a P value of less than 0.01. The reduction of the percentage on the factors of these accidents is also discussed in the study. The study determined the effectiveness of the motorcycle lane in reducing the number of motorcycle related accidents.

## TABLE OF CONTENTS

Approval Sheet -----	i
Acknowledgement -----	ii
Abstract -----	iv
List of Figures -----	viii
List of Tables -----	ix
Chapter 1: The Problem and Its Background	
1.1. Introduction -----	1
1.2. Statement of the Problem -----	3
1.3. Research Objectives -----	3
1.4. Scope and Delimitation -----	4
1.5. Significance of the Study -----	4
1.6. Conceptual Framework -----	5
1.7. Definition of Terms -----	6
1.8. Acronyms -----	7
Chapter 2: Review of Related Literature	
2.1 Commonwealth Avenue -----	9
2.2 Motorcycle Accident -----	10
2.3 Motorcycle Lane -----	11
2.4 Motorcycle Lane in Other Countries -----	12
2.5 Motorcycle Lane on Traffic Safety -----	13
2.6 Common Causes of Motorcycle Accidents -----	14
2.7 Predominating Cause of Motorcycle Related Accident -----	15
2.8 Analysis of Variance -----	16
2.9 Accident per Registered Vehicle -----	17
2.10 Motorcycle Accidents in Metro Manila -----	17

Chapter 3: Methodology	
3.1 Data Gathering -----	20
3.2 Data Analysis-----	21
3.3 Output -----	22
Chapter 4: Presentation, Analysis, and Interpretation of Data	
4.1 Causes of Motorcycle Accidents	
4.1.1 Human Error/Factor -----	23
4.1.2 Mechanical/Vehicle Defect -----	23
4.1.3 Atmospheric Weather Conditions -----	24
4.2 Accident Rate per 10000 Registered Motorcycle Vehicles -----	25
4.3 Statistical Analysis of Accidents with and without Motorcycle Lane --	27
4.4 Number of Motorcycle Accident (Jan. 24, 2009 – Jan. 23, 2012 ----	32
4.5 Number of Motorcycle Accidents relative to its Causes with and without MC Lane -----	36
4.6 Number of Motorcycle Accidents relative to type of Accident/Collision with and without MC Lane -----	40
4.7 Number of Motorcycle Accidents relative to the Classification of the Accidents with and without MC Lane -----	44
4.8 Number of Motorcycle Accidents relative to the Weather with and without MC Lane -----	47
4.9 Number of Motorcycle Accidents relative to Vehicle involved in the accidents with and without MC Lane -----	49
Chapter 5: Summary of Findings, Conclusion, and Recommendation	
5.1 Summary of Results -----	54
5.2 Conclusion -----	55
5.3 Recommendation -----	57

## **Appendices**

Appendix A. MMDA Data

Appendix B. Tallied & Sorted Data

Appendix C. Motorcycle Accidents by Cause of Accident / Accident Factor

Appendix D. Motorcycle Accidents by Collision Type / Accident Type

Appendix E. Motorcycle Accidents by Classification

Appendix F. Motorcycle Accidents by Time

Appendix G. Motorcycle Accidents by Weather

Appendix H. Motorcycle Accidents by (motorcycle to vehicle)

Appendix I. Univariate Analysis of Variance

Appendix J. Letters & Other Documentation



## List of Figures

Figure 1.1 Framework of the Study .....	6
Figure 2.1 Geographical map of Commonwealth Avenue .....	10
Figure 2.3 Motorcycle Lane at Commonwealth Avenue .....	11
Figure 2.4 Motorcycle Lane at D. Macapagal Rd. ....	12
Figure 3.1 Methodological Framework .....	19
Figure 4.1 Graph of Registered Motorcycle Vehicle from year 2009 – 2011 ----	25
Figure 4.2 Graph of Motorcycle Accidents from year 2009 – 2011 .....	26
Figure 4.3 Graph of Motorcycle Accident Rate from year 2009 – 2011 .....	27
Figure 4.4 Graphs of Motorcycle Accidents from 24 Jan. 2009 – 23 Jan. 2012 ---- .....	34
Figure 4.5 Graph of the Motorcycle Accident from October 2009 to January 2012 .....	35
Figure 4.6 Graph of the Motorcycle Accidents Relative to the Causes of Accidents .....	38
Figure 4.7 Graph of the Motorcycle Accidents Relative to the Type of Accident --- .....	43
Figure 4.8 Graph of the Motorcycle Accidents Relative to the Classification of Accident .....	46
Figure 4.9 Graph of the Motorcycle Accidents Relative to the Weather upon the Accident .....	48

## List of Tables

Table 4.1 Causes of Motorcycle Percentage from year 2009 – 2011 -----	24
Table 4.2 Numbers and Rate of Motorcycle Accidents -----	26
Table 4.3 Statistical Result of the relation of the frequency of accidents with time with and without the motorcycle lane -----	29
Table 4.4 Tests of Between-Subjects Effects -----	32
Table 4.5 Number of Motorcycle Accidents for the past years -----	33
Table 4.6 Percentage Reduction on the Number Accidents -----	33
Table 4.7 Frequency and Percentage of Accidents relative to the Causes (2009-2010 bet. 2011-2012) -----	36
Table 4.8 Frequency and Percentage of Accidents relative to the Causes (2010-2011 bet. 2011-2012) -----	37
Table 4.9 Clustered Causes of Motorcycle Accidents Affected by Motorcycle Lane -----	39
Table 4.10 Frequency and Percentage of Accidents relative to the Accident Type (2009-2010 bet. 2011-2012) -----	41
Table 4.11 Frequency and Percentage of Accidents relative to the Accident Type (2010-2011 bet. 2011-2012) -----	42
Table 4.12 Clustered Types of Motorcycle Accidents Affected by Motorcycle Lane -----	43
Table 4.13 Frequency and Percentage of Accidents relative to the Classification of Accident (2009-2010 bet. 2011-2012) -----	45
Table 4.14 Frequency and Percentage of Accidents relative to the Classification of Accident (2010-2011 bet. 2011-2012) -----	45
Table 4.15 Clustered Classifications of Motorcycle Accidents Affected by Motorcycle Lane -----	47
Table 4.16 Frequency and Percentage of Accidents relative to the Weather Type (2009-2010 bet. 2011-2012) -----	47

Table 4.17 Frequency and Percentage of Accidents relative to the Weather Type (2010-2011 bet. 2011-2012) -----	48
Table 4.18 Clustered Motorcycle Accidents by Weather Affected by Motorcycle Lane -----	49
Table 4.19 Frequency and Percentage of Accidents relative to the Vehicle Involved (2009-2010 bet. 2011-2012) -----	50
Table 4.20 Frequency and Percentage of Accidents relative to the Vehicle Involved (2010-2011 bet. 2011-2012) -----	51
Table 4.21 Clustered Motorcycle Accidents Relative to the Vehicle Involved Affected by Motorcycle Lane -----	52

