

year. Any funds withheld in Fiscal Year 1996 and thereafter cannot be restored and will be redistributed.

*Respondents:* 50 States and the District of Columbia and Puerto Rico.

*Estimated Annual Burden Hours:* Annual average of 5 hours for each respondent; 260 total annual burden hours.

*Public Comments Invited:* You are asked to comment on any aspect of this information collection, including: (1) Whether the proposed collection is necessary for the FHWA's performance; (2) the accuracy of the estimated burdens; (3) ways for the FHWA to enhance the quality, usefulness, and clarity of the collected information; and (4) ways that the burden could be minimized, including the use of electronic technology, without reducing the quality of the collected information. The agency will summarize and/or include your comments in the request for OMB's clearance of this information collection.

**Authority:** The Paperwork Reduction Act of 1995; 44 U.S.C. Chapter 35, as amended; and 49 CFR 1.48.

Issued on: May 13, 2010.

**Juli Huynh,**

*Chief, Management Programs and Analysis Division.*

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**BILLING CODE 4910-22-P**

## DEPARTMENT OF TRANSPORTATION

### Federal Highway Administration

[Docket No. FHWA-2010-0052]

#### Agency Information Collection Activities: Notice of Request for Extension of Currently Approved Information Collection

**AGENCY:** Federal Highway Administration (FHWA), DOT.

**ACTION:** Notice of request for extension of currently approved information collection.

**SUMMARY:** The FHWA invites public comments about our intention to request the Office of Management and Budget's (OMB) approval for renewal of an existing information collection that is summarized below under **SUPPLEMENTARY INFORMATION**. We are required to publish this notice in the **Federal Register** by the Paperwork Reduction Act of 1995.

**DATES:** Please submit comments by July 19, 2010.

**ADDRESSES:** You may submit comments identified by DOT Docket ID 2010-0052 by any of the following methods:

*Web Site:* For access to the docket to read background documents or comments received go to the Federal eRulemaking Portal: Go to <http://www.regulations.gov>. Follow the online instructions for submitting comments.

*Fax:* 1-202-493-2251.

*Mail:* Docket Management Facility, U.S. Department of Transportation, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590-0001.

*Hand Delivery or Courier:* U.S. Department of Transportation, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

**FOR FURTHER INFORMATION CONTACT:** Carol Tan, PhD, Office of Safety Research and Development (HRDS), at (202) 493-3315, Turner-Fairbank Highway Research Center, Federal Highway Administration, 6300 Georgetown Pike, McLean, VA 22101, between 9 a.m. and 5:30 p.m., Monday through Friday, except Federal holidays.

#### **SUPPLEMENTARY INFORMATION:**

*Title:* Motorcycle Crash Causation Study and Pilot Motorcycle Crash Causes and Outcomes Study.

*OMB Control #:* 2125-0619.

*Background:* Motorcycle injuries and fatalities have increased every year since 2003 in the United States. Per vehicle mile traveled motorcyclists were about 32 times more likely to die, and 6 times more likely to be injured in a motor vehicle crash than were passenger car occupants. This data shows that the motorcycle crash problem is becoming more severe.<sup>1</sup> Congress has recognized this problem and directed the Department of Transportation to conduct research that will provide a better understanding of the causes of motorcycle crashes. Specifically, in Section 5511 of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) Public Law 109-59, Congress directed the Secretary of Transportation to provide grants to the Oklahoma Transportation Center (OTC) for the purpose of conducting a comprehensive, in-depth motorcycle crash causation study that employs the common international methodology for in-depth motorcycle crash investigation developed by the Organization for Economic Cooperation and

<sup>1</sup> More detailed information on motorcycle crashes can be found in Traffic Safety Facts—Motorcycles, published by NHTSA and available on its Web site at: <http://www.nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/Rpts/2006/810606.pdf>.

Development (OECD).<sup>2</sup> The Secretary of Transportation delegated authority to FHWA for the Motorcycle Crash Causation Grants under Section 5511 (71 FR 30831).

#### **Proposed Data Acquisition Methodology**

##### *Use of Parallel and Complementary Procedures*

The OECD describes two complementary procedures to be performed for acquiring the data needed to understand the causes of motorcycle crashes. The first of these is the traditional in-depth crash investigation that focuses on the sequence of events leading up to the crash, and on the motorcycle, rider, and environmental characteristics that may have been relevant to the crash. The second procedure, known as the case-control procedure, complements the first. It requires the acquisition of matched control data to allow for a determination of the extent to which rider and driver characteristics, and pre-crash factors observed in the crash vehicles, are present in similarly-at-risk control vehicles.

Such a dual approach offers specific advantages to the understanding of crashes and the development of countermeasures. The in-depth study of the crash by itself allows for analysis of the events antecedent to the crash, some of which, if removed or altered, could result in a change in subsequent events that would have led to a non-crash, or reduced crash severity outcome. For example, an in-depth crash investigation may reveal that an automobile approaching an intersection was in a lane designated for straight through traffic only, but the motorist proceeded to make a left turn from that lane into the path of an oncoming motorcycle. That finding can, by itself, be used to develop countermeasures, and does not require matched control data. However, acquiring matched control data from similarly-at-risk riders and drivers provides additional critical information about crash causes that cannot be obtained if only crashes are examined. The main purpose of acquiring matched data is to allow for inferences to be made regarding risk factors for crash causes. A brief explanation is provided here so that those less familiar with case-control procedures will understand the advantage of acquiring controls.<sup>3</sup>

<sup>2</sup> The OECD methodology may be obtained by sending a request to [jtrc.contact@oecd.org](mailto:jtrc.contact@oecd.org).

<sup>3</sup> This being a study of crashes involving motorcycles, data will be acquired from both crash-involved motorcycles and also motor vehicles

Consider a hypothetical situation where it is observed that the proportion of motorcycle riders involved in crashes that have a positive Blood Alcohol Content (BAC) is the same as the proportion of matched (similarly-at-risk) control motorcycle riders not involved in crashes. And assume that the proportion of passenger-vehicle motorists who crash with motorcycles at a positive BAC is greater than matched control passenger-vehicle motorists. These data considered together would suggest that for crashes involving passenger vehicles and motorcycles, alcohol is a bigger risk factor for passenger vehicle drivers than it is for motorcycle riders. That is, the relative risk of crash involvement attributable to alcohol in motorcycle-automobile crashes is greater for passenger-vehicle motorists than for motorcyclists. Other risk factors for crashes (i.e., age, gender, riding and driving experience, fatigue level) for both motorcyclists and motorists can also be examined in this manner. If scaled interval measurements of risk factor levels are obtained (for example, if the level of alcohol is measured, not just its presence or absence), then it becomes possible to calculate functions showing how risk changes with changes in the variable of interest. Such risk functions are highly useful in the development of countermeasures.<sup>4</sup>

#### Issues Related to Sampling

##### Characteristics of the Crash Sample

To properly acquire in-depth crash data, it is necessary to find a location in the country that experiences the full range of motorcycle crash types that occur under a wide range of conditions and with a wide range of motorcycle rider characteristics. The location must also have a sufficiently high frequency of motorcycle crashes to allow acquisition of the crash data in a reasonable amount of time. It is anticipated that it will be possible to find a single location meeting these requirements.

involved in those crashes as countermeasures may be developed separately for each that could lead to a reduction in crashes involving motorcycles. Similarly, when control data are acquired, data from similarly-at-risk motorcycle rider controls and similarly-at-risk automobile driver controls will also be acquired. This way a balanced picture of the causes of crashes involving motorcycles and other vehicles will emerge.

<sup>4</sup> Certainly other outcomes besides the one presented are possible, and other comparisons are of interest. For example, it would be useful to compare crash-involved motorcyclists to non-crash involved motorcyclists and crash-involved passenger vehicle motorists to non-crash involved passenger-vehicle motorists. These comparisons would allow for estimates of changes in relative risks for riders and drivers independently.

It is not necessary that the crash types observed (or other composite indices or parameters of interest) be drawn from a nationally representative sample, because it is not the intent of FHWA to make projections of the national incidence of the causes of crashes involving motorcycles from this study. Rather, the focus will be on identifying the antecedents and risk factors associated with motorcycle crashes. If it is deemed necessary, FHWA and NHTSA may utilize their alternative databases that incorporate certain of the key variables that will be acquired in this study, and those databases could be used in conjunction with this study's data to make national estimates of population parameters of interest.<sup>5</sup> In addition, the crash investigations will be conducted on-scene, while the involved operators and vehicles are still in place. This provides access to physical data that is less disturbed by rescue and clean-up activities. It also facilitates the collection of interview data while memories are unaffected. This quick-response approach is most effective when a census of applicable crashes is selected for inclusion.

##### Characteristics of the Control Sample

While the occurrence of a crash involving a motorcycle in the study site is sufficient for it to be selected into the study, selecting the similarly-at-risk controls is not as straightforward. The OECD recommends several options for acquiring matched controls including interviewing motorcyclists who may be filling up at nearby gas stations, taking videos of motorcyclists who pass the crash scenes, and interviewing motorcyclists at the location of the crash location at the same time of day, same day of week, and same direction of travel. The first of these methods suffers from the shortcoming that a rider or motorist filling his fuel tank is not presented with the same risks, in the same setting, as is the crash-involved rider and motorist. To illustrate, consider a motorcycle rider who is hit from the rear by a passenger vehicle motorist on a Friday night at 1 a.m. There is a reasonable chance that alcohol is involved in this crash, but to estimate the relative risk it will not help to measure the BAC of passenger vehicle

<sup>5</sup> There is a lengthy precedent for studying crashes using case-control methods including the Grand Rapids study, (Borkenstein, R.F., Crowther, F.R., Shumate, R.P., Ziel, W.B. & Zylman, R. (1974)). The Role of the Drinking Driver in Traffic Accidents (The Grand Rapids Study). (Blutalkohol, 11, Supplement 1), and of course the Hurt study, (Hurt, H.H., Jr., Ouellet, J.V., and Thom, D.R. (1981)). Motorcycle Accident Cause Factors and Identification of Countermeasures (Volume I: Technical Report).

motorists (and motorcyclists) at a nearby gas station. Passenger-vehicle motorists and motorcyclists will need to be sampled at the location of the crash on the same day of the week, at the same hour, and from the same travel direction. Even if the suspected risk factor is not alcohol, but some other variable (e.g., distraction associated with cell phone use), it is still highly advantageous to acquire the comparison data at the crash locations (matched on time and direction), rather than somewhere else.

Using the second method mentioned above, acquiring the risk sample by taking video at the crash scenes provides a similarly-at-risk pool, and it also allows for many controls to be acquired at low cost. Its chief disadvantage is that it does not allow capture of some of the key risk factors for crashes (e.g., BAC), while others (e.g., fatigue) may be very difficult to capture. However, some risk factors could be acquired later by contacting the riders and drivers if license tag numbers are recorded, and so this method could be used to supplement the safety zone interview (described below).

The final method, the voluntary safety research interview, involves setting up a safety zone at the crash location, one week later at the same time of day, and asking those drivers and motorcyclists who pass through to volunteer in a study. With this method, Certificates of Confidentiality are presented to each interviewed driver and rider and immunity is provided from arrest. The main advantage of this method is that the key variables that are thought to affect relative crash risk can be acquired from drivers and riders who are truly similarly-at-risk. A final decision on the means of acquiring control data has not been made.

#### Information Proposed for Collection

The OECD protocol includes the following number of variables for each aspect of the investigation:

Administrative log .....	28
Accident typology/configuration .....	9
Environmental factors .....	35
Motorcycle mechanical factors .....	146
Motorcycle dynamics .....	32
Other vehicle mechanical factors .....	9
Other vehicle dynamics .....	18
Human factors .....	51
Personal protective equipment .....	34
Contributing environmental factors .....	8
Contributing vehicle factors .....	13
Contributing motorcycle factors .....	57
Contributing human factors .....	50
Contributing overall factors .....	2

Note that multiple copies of various data forms will be completed as the data on each crash-involved vehicle and person and each control vehicle and person are acquired. This increases the number of variables above the sum of what is presented above. There are also diagrams and photographs that are essential elements of each investigation that are entered into the database. In prior OECD implementations, about 2,000 data elements in total were recorded for each crash.

**Estimated Burden Hours for Information Collection**

*Frequency:* Annually.

*Respondents:* This study will be based on all crashes occurring within the sampling area; however, this burden estimate is based on what we know about fatal crashes. The plan calls for data to be captured from up to 1200 crashes with motorcycle involvement, and for all surviving crash-involved riders and drivers to be interviewed. Two control riders will be interviewed for each crash-involved motorcyclist, and one rider and one driver will be interviewed for each rider and motorist in multi-vehicle crashes. Passengers accompanying crash-involved riders and passenger-vehicle drivers will also be interviewed. The following table shows the sampling plan and estimated number of interviews assuming 1200 crashes are investigated.<sup>6</sup>

Maximum total crashes to be investigated is 1200.

<b>Crash Interviews:</b>	
Single vehicle motorcycle crashes = .....	540
Multi-vehicle (2-vehicle) motorcycle crashes (660×2) = .....	1320
Passenger interviews motorcycle (.10×540 + .10×660) = .....	120
Passenger interviews cars (.68×660) = .....	449
<b>Total Crash Interviews (540+1320+120+449) = .....</b>	<b>2429</b>
<b>Control interviews:</b>	
Controls for single vehicle motorcycle crashes (2×540) = .....	1080
Controls for multi-vehicle motorcycle crashes (1×660 + 1×660) = .....	1320
Passenger Interviews = .....	0
<b>Total Control Interviews = .....</b>	<b>2400</b>
<b>Grand Total Crash plus Control Interviews (2429+2400) = .....</b>	<b>4829</b>

*Estimated Average Burden per Interviewee:* Crash interviews are estimated to require about 15 minutes per individual interviewed. To the extent possible, crash interviews will be collected at the scene, although it is likely that some follow-ups will be needed to get completed interviews from crash involved individuals. Control individuals' interviews will be completed in a single session and are expected to require about 10 minutes per individual.

*Estimated Total Annual Burden Hours:* Burden hours estimates are based on the total of 2,429 crash interviews to be conducted at an average length of 15 minutes each and 2,400 control interviews to be conducted at an average length of 10 minutes each for a total one-time burden on the public of 1007.25 hours.

Public Comments Invited: You are asked to comment on any aspect of this information collection, including: (1) Whether the proposed collection is necessary for the FHWA's performance; (2) the accuracy of the estimated burdens; (3) ways for the FHWA to enhance the quality, usefulness, and clarity of the collected information; and (4) ways that the burden could be minimized, including the use of electronic technology, without reducing the quality of the collected information. The agency will summarize and/or include your comments in the request for OMB's clearance of this information collection.

**Authority:** The Paperwork Reduction Act of 1995; 44 U.S.C. Chapter 35, as amended; and 49 CFR 1.48.

Issued On: May 13, 2010.

**Juli Huynh,**  
Chief, Management Programs and Analysis Division.

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**DEPARTMENT OF TRANSPORTATION**

**Federal Highway Administration**

[Docket No. FHWA-2010-0048]

**Agency Information Collection Activities: Notice of Request for Extension of Currently Approved Information Collection**

**AGENCY:** Federal Highway Administration (FHWA), DOT.

**ACTION:** Notice of request for extension of currently approved information collection.

**SUMMARY:** The FHWA invites public comments about our intention to request

the Office of Management and Budget's (OMB) approval for renewal of an existing information collection that is summarized below under **SUPPLEMENTARY INFORMATION.** We are required to publish this notice in the **Federal Register** by the Paperwork Reduction Act of 1995.

**DATES:** Please submit comments by July 19, 2010.

**ADDRESSES:** You may submit comments identified by DOT Docket ID 2010-0048 by any of the following methods:

*Web Site:* For access to the docket to read background documents or comments received go to the Federal eRulemaking Portal: Go to <http://www.regulations.gov>. Follow the online instructions for submitting comments.

*Fax:* 1-202-493-2251.

*Mail:* Docket Management Facility, U.S. Department of Transportation, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590-0001.

*Hand Delivery or Courier:* U.S. Department of Transportation, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

**FOR FURTHER INFORMATION CONTACT:** Henry Murdaugh, 703-235-0535, Office of Professional and Corporate Development, Federal Highway Administration, Department of Transportation, 4600 N. Fairfax Drive, Suite 800, Arlington, VA 22203, between 8 a.m. to 4:30 p.m., Monday through Friday, except Federal holidays.

**SUPPLEMENTARY INFORMATION:**

*Title:* Eisenhower Transportation Fellowship Program.

*OMB Control #:* 2125-0617.

*Background:* The Eisenhower Transportation Fellowship Program is comprised of two programs, the Eisenhower Transportation Fellowship and the National Highway Institute (NHI). The Eisenhower Transportation Fellowship is currently authorized by Public Law 109-59, the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users of 2005 (SAFETEA-LU). The purpose of the fellowship is to advance transportation education and research, and attract qualified students to the field of transportation. The Eisenhower Transportation Fellowship allows for the collection and analysis of vital program information from student transportation education programs, also serving as a management tool to measure program performance and evaluate effectiveness in meeting Federal intent and workforce

<sup>6</sup> The final crash sample size will depend on the rate at which crashes can be acquired in the selected site(s) and other matters related to logistics and the final budget. However, the study will acquire crashes on a sample size that exceeds the requirements of the OECD methodology, and will be of sufficient size to meet the goals of the study.