



Recreational Off-Highway Vehicle (ROV) Death and Non-NEISS Injury Database Codebook



May 2012

Sarah Garland, Ph.D.
Directorate for Epidemiology
Division of Hazard Analysis
U.S. Consumer Product Safety Commission
4330 East West Highway
Bethesda, MD 20814

This report was prepared by CPSC staff. It has not been reviewed or approved by, and may not necessarily reflect the views of, the Commission.

The Recreational Off-highway Vehicle (ROV) death and injury database captures fatalities and injuries involving ROVs and reported to Consumer Product Safety Commission (CPSC). The records included are found within CPSC's Injury and Potential Injury (IPII) database, the death certificate database (DTHS), and In-depth Investigation (INDP) database. ROV-related incidents from the National Electronic Injury Surveillance System (NEISS) are not included in this database. Further information CPSC databases mentioned can be obtained from the document *Epidemiology Databases: (NEISS, INDP, IPII, CRT, NFIRS, NCHS) Descriptions, Variables Lists, Codes*, by Kimberly I. Ault, U.S. Consumer Product Safety Commission, September 2001 (Ault, 2001).

The ROV deaths and injuries database includes incidents involving ROVs with at least one injury reported occurring on or after January 1, 2003 and received by CPSC staff on or before December 31, 2011. ROV incidents were identified by make and model of the vehicle involved. If the combination of make and/or model of the vehicle were not available and the identity of the vehicle could not be determined, the incident was not considered to involve a ROV. When it was determined by CPSC staff that a reported incident was ROV-related and had at least one injury or fatality associated with it, then the record was reviewed by a multidisciplinary team to determine the characteristics of the victims, the hazard pattern, the terrain, etc. Once the CPSC multidisciplinary team coded and reviewed the incident characteristics, the incident was included in the database.

There are 197 variables in the ROV deaths and injury database. Not all variables are applicable in all incidents; therefore, there some variables that are intentionally blank within a record. There is some information that could not be obtained from the documents available in CPSC databases; thus, some records have missing values due to unknown information.

The following lists the variables contained in the ROV deaths and injuries database, the definition of the variables, and the categories associated with the variables if applicable. Variables indicated by an asterisk (*) are for CPSC internal use only and are not included in the public release version of the database.

Variables

add_doc: Lists additional document numbers not captured in the variables **ipii** or **dths**. This variable includes document numbers from IPII and/or DTHS.

Not Responsive

city_acc: Location where the incident occurred. If the incident city is known, the city is recorded. If the city is unknown, then the county or some other identifying location is captured.

(b) (5)

(b) (5)

dths: DTHS document number (a unique identifier in DTHS).

drv_age: The age of the driver of the ROV at the time of the incident.

drv_alch: Indicates if the driver of the ROV had any alcoholic beverages just prior to the incident.
0 = unknown
1 = no
2 = yes

drv_body_hit: If the driver was hit or pinned by the vehicle (**drv_pin**), then the part of the driver's body that was hit by the ROV. This field is blank unless **drv_pin** indicates the driver was hit or pinned by the ROV. If the driver was hit by the ROV, but it is unknown what part of the driver's body was hit, this variable is recorded as unknown or is left blank.

drv_drug: Indicates if the driver of the ROV took any medications or illicit drugs just prior to the incident.
0 = unknown
1 = no
2 = yes

Not Responsive
[Redacted]

Not Responsive
[Redacted]

(b) (5)
[Redacted]

drv_gender: Indicates the driver's gender.
0 = unknown
1 = male
2 = female

Not Responsive
[Redacted]

drv_helm: Indicates if the driver of the ROV was wearing a helmet at the time of the incident.
0 = unknown
1 = no
2 = yes

Not Responsive
[Redacted]

(b) (5)

Not Responsive

Not Responsive

drv_pin: Indicates if the driver was hit by the outside portion of the vehicle during the incident. This includes being hit by the vehicle but not pinned, as well as, being pinned by the vehicle.

- 0 = unknown
- 1 = no
- 2 = yes

Not Responsive

drv_ROV_hit: If the driver was hit or pinned by the vehicle (**drv_pin**), then the part of the ROV that hit the driver. This field is blank unless **drv_pin** indicates the driver was hit or pinned by the ROV. If the driver was hit by the ROV, but it is unknown what part of the vehicle hit the driver, this variable is recorded as unknown or is left blank.

drv_stblt: Driver's seatbelt use at the time of the incident.

- 0 = unknown
- 1 = no
- 2 = yes

Not Responsive

dt_acc: The date of the incident.

Not Responsive

(b) (5) [Redacted]

ipii: IPII document number (a unique identifier in IPII).

load: Indicates if the ROV was carrying cargo of any type at the time of the incident.

0 = unknown

1 = no

2 = yes

Not Responsive [Redacted]

Not Responsive [Redacted]

Not Responsive [Redacted]

[Redacted]

Not Responsive [Redacted]

[Redacted]

Not Responsive [Redacted]

num_veh: The number of people in/on the vehicle at the time of the incident.

other_veh: Indicates the other type of vehicle involved in the incident, if another vehicle was involved. This variable is blank or coded as 10 unless a second vehicle involved is indicated in the variable **second_veh**.

- 0 = unknown
- 1 = ATV
- 2 = car
- 3 = dirt bike
- 4 = motorcycle
- 5 = ROV
- 6 = SUV
- 7 = train
- 8 = truck
- 9 = other
- 10 = NA

(b) (5) [Redacted]

Passenger variables indicate the people in the ROV at the time of the incident and/or other people involved the incident if they were killed or injured, such as a bystander or a person on an involved ATV. How the victims were involved is indicated in the passenger location variables. Excluded from coding was any person in a car, truck, train, etc. during the incident. Most incidents only include those persons in/on the ROV at the time of the incident. There is no hierarchy assigned to how the victims are recorded.

pass1_age: The age of the first injured or uninjured passenger in/on the ROV, or other injured party.

pass1_alch: Alcohol use just prior to the incident of the first injured or uninjured passenger in/on the ROV, or other injured party.

- 0 = unknown
- 1 = no
- 2 = yes

pass1_body_hit: If the first injured or uninjured passenger in/on the ROV, or other injured party, was hit or pinned by the vehicle (**pass1_pin**), then the part of the passenger's body that was hit by the ROV. This field is blank unless **pass1_pin** indicates the person was hit or pinned by the ROV. If the victim was hit by the ROV, but it is unknown what part of the victim's body was hit, this variable is recorded as unknown or is left blank.

Not Responsive

Not Responsive

(b) (5)

pass1_gender: The gender of the first injured or uninjured passenger in/on the ROV, or other injured party.

- 0 = unknown
- 1 = male
- 2 = female

Not Responsive

pass1_helm: Indicates helmet use by the first injured or uninjured passenger in/on the ROV at the time of the incident. This field is blank or recorded as 3 if the victim was a bystander. If the victim was a driver of an ATV involved in the incident, helmet use was recorded.

- 0 = unknown
- 1 = no
- 2 = yes
- 3 = not applicable (for example: bystanders, a driver of another vehicle, etc.)

Not Responsive

(b) (5)

(b) (5)

pass1_location: Location of the first injured or uninjured passenger in/on the ROV, or other injured party, at the time of the incident. If the first injured or uninjured passenger in any location of the ROV not included in the choices 1-10, then "other" is used.

- 0 = unknown
- 1 = driver
- 2 = right front passenger
- 3 = middle front passenger
- 4 = right rear passenger
- 5 = left rear passenger
- 6 = middle rear passenger
- 7 = cargo area
- 8 = front passenger (unknown location)
- 9 = rear passenger (unknown location)
- 10 = passenger (unknown location, known to be located in or on the ROV)
- 11 = other (other persons located in/on the ROV not included in the as another choice)
- 12 = driver-Other vehicle (ATV)
- 13 = bystander

pass1_pin: Indicates if the first injured or uninjured passenger in/on the ROV, or other injured party, was hit by the outside portion of the vehicle during the incident. This includes being hit by the vehicle but not pinned, as well as being pinned by the vehicle.

- 0 = unknown
- 1 = no
- 2 = yes

Not Responsive

pass1_ROV_hit: If the first injured or uninjured passenger in/on the ROV, or other injured party, was hit or pinned by the vehicle (**pass1_pin**), then the part of the ROV that hit the passenger. This field is blank unless **pass1_pin** indicates the person was hit or pinned by the ROV. If the victim was hit by the ROV, but it is unknown what part of the vehicle hit the victim, this variable is recorded as unknown or is left blank.

pass1_stblt: Seatbelt use by first injured or uninjured passenger in/on the ROV at the time of the incident. This field is blank or recorded as 3 if the victim was a bystander or on an ATV.

0 = unknown

1 = no

2 = yes

3 = not applicable (for example: bystanders, a driver of another vehicle, etc.)

Not Responsive

pass2_age, pass2_alch, pass2_body_hit, **pass2_inj,** **pass2_location,**
pass2_pin, **pass2_ROV_hit, pass2_stblt,** Defined in the same manner as
pass1 variables, but for the second injured or uninjured passenger in/on the ROV, or other injured party.

pass3_age, pass3_alch, pass3_body_hit, **pass3_ejct,**
pass3_gender, **pass3_helm,** **pass3_inj,** **pass3_location,**
pass3_pin, **pass3_ROV_hit, pass3_stblt,** Defined in the same manner as
pass1 variables, but for the third injured or uninjured passenger in/on the ROV, or other injured party.

pass4_age, pass4_alch, pass4_body_hit, **pass4_ejct,**
pass4_gender, **pass4_helm,** **pass4_inj,** **pass4_location,**
pass4_pin, **pass4_ROV_hit, pass4_stblt,** Defined in the same manner as
pass1 variables, but for the fourth injured or uninjured passenger in/on the ROV, or other injured party.

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive
[Redacted]

Not Responsive
[Redacted]

Not Responsive
[Redacted]

recno: Record number in the ROV deaths and injury database (an unique indicator within the ROV deaths and injury database).

Not Responsive
[Redacted]

(b) (5)
[Redacted]

second_veh: Indicates if there was another vehicle involved in the incident.
0 = unknown
1 = no
2 = yes

Not Responsive
[Redacted]

(b) (5)

Not Responsive

speed: The estimated speed of the ROV at the onset of the incident.

- 0= unknown
- 1= less than 10 mph
- 2= 10 to 15 mph
- 3= 16 to 20 mph
- 4= 21 to 25 mph
- 5= more than 25 mph

state_acc: The state where the incident occurred.

surface_com: Additional information on the surface condition.

surface_condition: The condition of the terrain being travelled at the time of the incident.

- 0 = unknown
- 1 = dry
- 2 = ice
- 3 = snow
- 4 = wet
- 5 =other

(b) (5)

(b) (5) [Redacted text block]

(b) (5)

tkno: The task number assigned to in-depth investigation, as recorded in INDP (an unique identifier in INDP).

Not Responsive

Not Responsive

weather: The weather at the time of the incident.

- 0 = unknown
- 1 = clear
- 2 = cloudy
- 3 = raining
- 4 = snowing
- 5 = sleet
- 6 = fog
- 7 = other

work: Indicates if the vehicle was being used for any type of work at the time of the incident, such as chores, farming, ranching, or other occupational tasks.

- 0 = unknown
- 1 = no
- 2 = yes