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ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

Working Party on Transport Statistics (Fifty-second session, 14-16 November 2001, agenda item 4 (d) (ii))

METHODOLOGICAL DEVELOPMENT AND HARMONIZATION OF TRANSPORT STATISTICS

Proposed modifications to the RAS Questionnaire

Note by the secretariat

I. BACKGROUND AND MANDATE

- 1. In light of the decisions taken at the Task Force Meeting on Definitions on Road Traffic Accidents (TRANS/WP.6/2001/2) and to take into account the gender perspective conforming with ECOSOC Resolution 1997/17 and the ECE Plan of Action E/ECE/1997, the secretariat prepared a new version of the Road Accident Statistics (RAS) questionnaire, as reflected in the annex, to be discussed by the Working Party at it next session.
- 2. The Working Party my wish to review the following items and indicate which amendments, if any, should be retained in the RAS questionnaire.

II. ITEMS TO BE CONSIDERED

Table B. (Road traffic accidents involving personal injury by nature of accident)

3. According to the request of the Task Force on Definitions on Road Traffic Accidents (TRANS/WP.6/2001/2, para. 9), the secretariat proposes the following breakdown in order to include the accidents at level crossing.

TOTAL ACCIDENTS

Accidents between vehicle and pedestrian Single vehicle accidents

Accidents between vehicles

- Rear-end collision
- Collisions due to crossing or turning
 - Collisions at level crossings
- Head-on collisions
- Others including collisions with parked vehicles.
- 4. Furthermore, a new category has been included in the questionnaire for heavy goods vehicles (definition still has to be agreed upon) to follow-up the Task Force suggestion and to comply with the increased interest shown by data users.

Table C. (Persons killed or injured in road traffic accidents)

- 5. Following-up the Task Force request, in rubric 7, the term "commercial vehicles" has been replaced by "goods road vehicles"; rubric 8 has been broken down according to age as for the others rubrics.
- 6. To take into account the gender perspective in road accidents statistics, two new subrubrics of the total have been created (rubric 10. for Male and rubric 20. for Female) according to the same breakdown.

Table D. (Road traffic accidents involving one or more persons under the influence of alcohol)

7. As in table C, two new sub-rubrics of the total have been created (rubric 10. for Male and rubric 20. for Female) according to the same breakdown, to take into account the gender perspective in road accidents statistics.

Table F. (Population by age)

8. To follow the same logic as in tables C and D, in the population table a gender breakdown has been incorporated. Furthermore, the reporting unit has changed from "thousands" to "units".

ANNEX

STATISTICS OF ROAD TRAFFIC ACCIDENTS IN EUROPE AND NORTH AMERICA

XXX

ANNUAL QUESTIONNAIRE ON ROAD TRAFFIC ACCIDENTS (2000 DATA)

DONE BY =

ADDRESS =

TELEPHONE =

E-MAIL =

FAX =

DATE OF SENDING =

Please return this Questionnaire to the Economic Commission for Europe, Transport Division, Palais des Nations, 1211 Geneva 10, by 15 September 2002.

For any enquiries regarding the Questionnaire, please contact Mr. André Sceia, UN/ECE Transport Division (Tel: +41-22-917-1313 / Fax: +41-22-917-0039 / Email: stat.trans@unece.org).

<u>A - ROAD TRAFFIC ACCIDENTS INVOLVING PERSONAL INJURY</u> <u>BY TIME OF OCCURENCE AND SURROUNDINGS</u>

		Num	per of		Numbe	r of persor	s killed or	injured	
	Description	accio	lents		otal	Ki	lled	Inj	ıred
		1999	2000	1999	2000	1999	2000	1999	2000
1	TOTAL ACCIDENTS								
	By location								
21	Motorways								
22	Inside built-up areas (without motorways)								
23	Outside built-up areas (without motorways)								
	By month								
301	January								
302	February								
303	March								
304	April								
305	May								
306	June								
307	July								
308	August								
309	September								
310	October								
311	November								
312	December								
	By day of week								
41	Monday through Thursday								
42	Friday								
43	Saturday								
44	Sunday								
	By light condition								
51	Daylight								
52	Twilight (or unknown)								
53	Darkness								
	By road condition								
61	Dry road surface								
62	Other (wet, icy, etc.)								

For methodology, definition and space for explanatory notes, please refer to page 3.

DEFINITIONS

SURROUNDINGS

- 1. **Motorway**: Road, specially designed and built for motor traffic, which does not serve properties bordering on it, and which:
 - a) is provided, except at special points or temporarily, with separate carriageways for the two directions
 of traffic, separated from each other, either by a dividing strip not intended for traffic or, exceptionally,
 by other means;
 - b) does not cross at level with any road, railway or tramway track, or footpath; and
 - c) is specially sign-posted as a motorway. Accidents occurring on entries and exits of motorways are to be included under the category of motorway accidents.
- 2. Built-up area: An area with entries and exits specially sign-posted as such.

Explanatory notes:	

$\frac{B - ROAD\ TRAFFIC\ ACCIDENTS\ INVOLVING\ PERSONAL\ INJURY}{BY\ NATURE\ OF\ ACCIDENT}$

		Num	ber of		Numbe	er of persor	s killed or	iniured	
	Description		dents	Total		Killed		Injured	
	_	1999	2000	1999	2000	1999	2000	1999	2000
1	TOTAL ACCIDENTS (11+12+13)								
11	Accidents between vehicle and pedestrian								
12	Single vehicle accidents								
13	Accidents between vehicles								
131	- Rear-end collision								
132	- Collisions due to crossing or turning								
1321	- Collisions at level crossings								
133	- Head-on collisions								
134	- Others including collisions with parked vehicles								
2	TOTAL ACCIDENTS IN BUILT-UP AREAS (21+22+23) = (Item 22 of table A)								
21	Accidents between vehicle and pedestrian								
22	Single vehicle accidents								
23	Accidents between vehicles								
231	- Rear-end collision								
232	- Collisions due to crossing or turning								
2321	- Collisions at level crossings								
233	- Head-on collisions								
234	- Others including collisions with parked vehicles								
3	TOTAL ACCIDENTS INVOLVING HEAVY GOODS VEHICLES (Sum 31+32+33)								
31	Accidents between vehicle and pedestrian								
32	Single vehicle accidents								
33	Accidents between vehicles								
331	- Rear-end collision								
332	- Collisions due to crossing or turning								
3321	- Collisions at level crossings								
333	- Head-on collisions								
334	- Others including collisions with parked vehicles								

For methodology, definition and space for explanatory notes, please refer to page 5.

CONCEPT

In order to collect data covering the range of possible types of accidents, including accidents between vehicles, this questionnaire is based on the following breakdown of types of accidents:

- 1) Accidents between vehicle and pedestrian;
- 2) Single vehicle accidents;
- 3) Accidents between vehicles.

These three categories are mutually exclusive since (1) should cover all accidents in which at least one pedestrian was involved, irrespective of whether the pedestrian was involved in the first or in a later phase of the accident and whether the pedestrian was injured or killed on or off the road. Category (2) should contain all accidents involving no collision with other road users, and category (3) should thus cover the remainder of accidents not falling under (1) and (2).

DEFINITIONS

Types of accidents

- Accidents between vehicle and pedestrian: Accidents involving one or several vehicles and pedestrians irrespective of
 whether the pedestrian was involved in the first or a later phase of the accident and whether the pedestrian was injured or
 killed on or off the road.
- 2. <u>Single vehicle accidents</u>: Accidents involving no collision with other road users, even though they may be involved, i.e. vehicle trying to avoid collision and veering off the road, or accident caused by collision with obstructions or animals on the road. Collisions with parked vehicles belong to 3 (d) below.
- 3. Accidents between vehicles: (Not covered by 1 and 2 above)

The constituent element for classification of accidents between vehicles is the first collision on the carriageway or the first mechanical impact on the vehicle.

- a) <u>Rear-end collision</u>: Accident caused by a rear-end collision with another vehicle using the same lane of a carriageway
 moving in the same direction or temporarily stopping due to traffic conditions. Rear-end collisions with parked vehicles
 belong to (d) below;
- b) Collision due to crossing or turning: Accident caused by a rear-end or head-on collision with another vehicle moving in a lateral direction due to leaving or entry from/to another lane, road or premise. Rear-end or head-on collisions with vehicles waiting to turn belong to either (a) or (c);
- c) <u>Head-on collision</u>: Accident caused by a head-on collision with another vehicle using the same lane of a carriageway and moving in the opposite direction or temporarily stopping due to traffic conditions. Head-on collisions with parked vehicles belong to (d) below;
- d) Other collision, including collisions with parked vehicles: Accident caused by driving side by side, while overtaking each other or when changing lanes (cutting in on someone), or by a rear-end or head-on collision with a stationary vehicle which stops or parks deliberately and not as a result of traffic conditions at the edge of a carriageway, on shoulders, on marked parking spaces, on footpaths or parking sites.

Explanatories notes:		

$\underline{C\ -\ PERSONS\ KILLED\ OR\ INJURED\ IN\ ROAD\ TRAFFIC\ ACCIDENTS}$

				Number of j	persons kille	d	N	Sumber of po	ersons injure	ed
		Description	To	tal	of which	: drivers	To	tal	of which	: drivers
		•	1999	2000	1999	2000	1999	2000	1999	2000
0	TO	TAL (1+2+3+4+5+6+7+8) and (10+20)								
01	О	Under 6 years								
02	f	6 - 9 years 10 - 14 years								
04		15 - 17 years								
05	w h	18 - 20 years								
06 07	i	21 - 24 years 25 - 64 years								
08	C 1.	65 years and over								
09	h	Unknown								
10 101		TOTAL - Males Under 6 years								
101	o f	6 - 9 years								
103	1	10 - 14 years								
104 105	w	15 - 17 years 18 - 20 years								
106	h	21 - 24 years								
107 108	i c	25 - 64 years 65 years and over								
108	h	Unknown								
20		TOTAL - Females								
201	О	Under 6 years								
202 203	f	6 - 9 years 10 - 14 years								
204		15 - 17 years								
205	w h	18 - 20 years								
206 207	i	21 - 24 years 25 - 64 years								
208	c	65 years and over								
209	h	Unknown								
11		PEDESTRIANS - Total								
12	o f	Under 6 years 6 - 9 years			_					
13	1	10 - 14 years								
14 15	w	15 - 17 years 18 - 20 years			_					
16	h	21 - 24 years			-					
17 18	i c	25 - 64 years								
19	h	65 years and over Unknown								
2	Г	ORIVERS AND PASSENGERS OF CYCLES - Total								
21	О	Under 6 years								
22 23	f	6 - 9 years 10 - 14 years								
24	w	15 - 17 years								
25 26	h	18 - 20 years 21 - 24 years								
27	i	25 - 64 years								
28	c h	65 years and over								
29	h	Unknown								
3		ORIVERS AND PASSENGERS OF MOPEDS - Total								
31 32	o f	Under 6 years 6 - 9 years								
33	1	10 - 14 years								
34 35	w	15 - 17 years 18 - 20 years				1				
36	h	21 - 24 years								
37	i	25 - 64 years								
38 39	c h	65 years and over Unknown								
ンプ		CHRIIOWII			1	1	1	l	l	

C - PERSONS KILLED OR INJURED IN ROAD TRAFFIC ACCIDENTS

D]	Number of p	ersons kille	il	N	Number of p	ersons injure	ed
	Description	То	tal	of which	: drivers	To	tal	of which	: drivers
	_	1999	2000	1999	2000	1999	2000	1999	2000
4	DRIVERS AND PASSENGERS OF MOTOR CYCLES - Total								
41 42	O Under 6 years 6 - 9 years								
43	10 - 14 years 15 - 17 years								
45 46	h 21 - 24 years								
47 48 49	25 - 64 years c 65 years and over h Unknown								
5	DRIVERS AND PASSENGERS OF MOTOR CARS - Total								
51 52	O Under 6 years 6 - 9 years								
53 54	f 0 - 9 years 10 - 14 years 15 - 17 years								
55 56	w 18 - 20 years h 21 - 24 years								
57 58	i 25 - 64 years c 65 years and over								
59	h Unknown								
6	DRIVERS AND PASSENGERS OF MOTOR COACHES, BUSES, TROLLEYBUSES AND TRAMCARS - Total								
61	Under 6 years								
62 63	6 - 9 years 10 - 14 years								
64 65	W 15 - 17 years 18 - 20 years								
66 67	i 25 - 64 years								
68 69	c 65 years and over h Unknown								
7	DRIVERS AND PASSENGERS OF COMMERCIAL VEHICLES Total								
71 72	O Under 6 years 6 - 9 years								
73 74	f 10 - 14 years 15 - 17 years								
75 76	w 13 - 17 years 18 - 20 years 21 - 24 years								
77 78	i 25 - 64 years c 65 years and over								
78	h Unknown								
8	OTHER PERSONS - Total								
81 82	o Under 6 years f 6 - 9 years								
83 84	10 - 14 years 15 - 17 years W 18 20 years								
85 86	h 21 - 24 years								
87 88	c 65 years and over								
89	h Unknown								

$\underline{\textbf{D}}$ - ROAD TRAFFIC ACCIDENTS INVOLVING ONE OR MORE PERSONS UNDER THE INFLUENCE OF $\underline{\textbf{ALCOHOL}}$

	Description	1996	1997	1998	1999	2000
1	Accidents involving personal injury or death					
2	Persons killed					
3	Persons injured					

	Number of pedestrians and drivers under based on	er the influence of analysis of alcoho			s mentioned a	bove
	Description	1996	1997	1998	1999	2000
0	Total (1+2+3+4+5+6+7) and (10+20)					
0.1	- Up to 0.5‰					
0.2	- Between 0.5% and 0.8%					
0.3	- Between 0.8‰ and 1.5‰					
0.4	- 1.5% and over					
10	Total - Males					
10.1	- Up to 0.5‰					
10.2	- Between 0.5% and 0.8%					
10.3	- Between 0.8% and 1.5%					
10.4	- 1.5‰ and over					
20	Total- Females					
20.1	- Up to 0.5‰					
20.2	- Between 0.5% and 0.8%					
20.3	- Between 0.8% and 1.5%					
20.4	- 1.5% and over		1			
1	Pedestrians					
1.1	- Up to 0.5‰ - Between 0.5‰ and 0.8‰					
1.2	- Between 0.8‰ and 0.8‰ - Between 0.8‰ and 1.5‰					
1.4	- 1.5% and over					
2	Drivers of cycles					
2.1	- Up to 0.5%					
2.2	- Between 0.5% and 0.8%					
2.3	- Between 0.8% and 1.5%					
2.4	- 1.5% and over					
3	Drivers of mopeds					
3.1	- Up to 0.5‰					
3.2	- Between 0.5% and 0.8%					
3.3	- Between 0.8‰ and 1.5‰					
3.4	- 1.5‰ and over					
4	Drivers of motor cycles					
4.1	- Up to 0.5‰					
4.2	- Between 0.5% and 0.8%					
4.3	- Between 0.8‰ and 1.5‰					
4.4	- 1.5‰ and over					
5	Drivers of private cars					
5.1	- Up to 0.5‰					
5.2	- Between 0.5‰ and 0.8‰					
5.3	- Between 0.8‰ and 1.5‰					
5.4	- 1.5‰ and over					
6	Drivers of other power-driven vehicles					
6.1	- Up to 0.5‰		1			
6.2	- Between 0.5% and 0.8%		1			
6.3	- Between 0.8% and 1.5%					
6.4	- 1.5‰ and over					
7	Others					
7.1	- Up to 0.5‰					
7.2	- Between 0.5% and 0.8%					
7.3	- Between 0.8% and 1.5%					
7.4	- 1.5‰ and over					

For methodology, definition $\,$ and space for explanatory notes, please refer to page 9.

CONCEPT

Countries are requested to indicate below which of the following methods is used in determining whether pedestrians and drivers involved in road traffic accidents are under the influence of alcohol:

- a) observation by police
- b) screening test for alcohol from a sample of breath
- c) clinical medical examination
- d) quantitative determination of the concentration of alcohol in the blood from a sample of:
 - i) blood
 - ii) urine
 - iii) breath

and, where appropriate, the concentration of alcohol in the blood at which a person is deemed to be under the influence of alcohol.

Explanatory notes:	

$\underline{\mathbf{E}} \; \textbf{-} \; \mathbf{MOTOR} \; \mathbf{VEHICLE} \; \mathbf{MOVEMENTS}$

(All vehicles, irrespective of the country of registration)

(Million Vehicle-kilometres)

	Description		1997	1998	1999	2000
1	Mopeds					
2	Motor cycles					
3	Passenger cars including taxis					
4	Motor coaches, buses and trolleybuses					
5	Tramcars					
6	Lorries and road tractors					
7	All power-driven vehicles including miscellaneous not shown separately					

F - POPULATION BY AGE

	As at 31 December 2000											
	Total	Male	Female		Total	Male	Female		Total	Male	Female	
0				34				68				
1				35				69				
2				36				70				
3				37				71				
4				38				72				
5				39				73				
6				40				74				
7				41				75				
8				42				76				
9				43				77				
10				44				78				
11				45				79				
12				46				80				
13				47				81				
14				48				82				
15				49				83				
16				50				84				
17				51				85				
18				52				86				
19				53				87				
20				54				88				
21				55				89				
22				56				90				
23				57				91				
24				58				92				
25 26				59 60				93				
26				61				94 95				
28				62				96				
29				63				97				
30				64				98				
31				65				99				
32				66				100 &+				
33				67				TOTAL				