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Tractors and machinery for agriculture and forestry — Safety — Format for reporting accidents

National foreword

This British Standard is the UK implementation of EN 16831:2016.

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Tracteurs agricoles et forestiers - Sécurité - Format des
rapports d'accidentsLand- und forstwirtschaftliche Traktoren und
Maschinen - Sicherheit - Datenerfassungsbogen für
Unfälle

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 16831:2016) has been prepared by Technical Committee CEN/TC 144 “Tractors and machinery for agriculture and forestry”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2017, and conflicting national standards shall be withdrawn at the latest by February 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Introduction

This European Standard establishes a uniform format to record data related to accidents where tractors and/or agricultural machinery are involved.

The reporting format defined in this document is intended to be used by all stakeholders dealing with these accidents, such as manufacturers of the products covered by its scope, health and safety bodies, insurance companies, market surveillance authorities, labour authorities and professional organizations.

The standardized reporting format, based on a selection of defined cell content, will allow statistical processing of the data, and the confidence level will grow together with the quantity of the data entered in a database.

Where possible and appropriate, the codes from ESAW¹⁾ have been used.

The standardized reporting format, when used by the different stakeholders, will allow an easy and understandable exchange of data and enhance the confidence level of the data which are provided by the different stakeholders. The implementation of the ESAW methodology, where appropriate, may accelerate the integration of the technical aspects of accidents with agricultural machinery in the Phase III of the ESAW project:

[http://ec.europa.eu/eurostat/statistics-explained/index.php/Accidents at work statistics](http://ec.europa.eu/eurostat/statistics-explained/index.php/Accidents_at_work_statistics)

This document is considering the technical aspects of the equipment, but addresses also in detail other parameters, such as human behaviour and fitness, the environment and the mode in which the equipment was used at the time of the accident.

The nature of the data defined by this document is split in two parts, a public part and a concealed one. This will allow to keep the concealed information separated from the public information. The data for public information is anonymous, in order to avoid that the data of a particular accident do allow retrieval of the details of the accident in question. So there are no names, no exact places, no brands, nor models of equipment in the public part.

1) ESAW, European Statistics At Work, register developed since 1990 by the EU Commission (DG EMPL and EUROSTAT) together with the Member States.

http://ec.europa.eu/employment_social/publications/2002/ke4202569_en.html

http://circa.europa.eu/Public/irc/dsis/hasaw/library?l=/statistics_methodology/esaw_methodology/ke4202569_en_pdf/

1 Scope

This European Standard establishes a uniform format for reporting accidents where the following equipment are involved:

- agricultural and forestry tractors (NACE code 09.02.03.01);
- equipment fitted on tractors (e.g. a front – end loader) (NACE code 09.02.99.00);
- equipment mounted on the tractor (front and/or rear) (NACE code 09.02.99.00);
- equipment towed by tractors (trailers and machinery) (NACE code 09.02.04.99);
- self-propelled machinery (NACE code 09.02.03.02);
- telescopic loaders (NACE code 09.02.03.02);
- lawn and gardening equipment (NACE code 09.02.99.00);
- powered hand-held machinery used in agriculture (NACE code 09.02.99.00).

Accidents with this equipment on road use are also covered by this document.

Are excluded from the scope of this document:

- the above-mentioned equipment when used in another environment than agriculture, forestry and landscape gardening (e.g. tractors used on construction sites);
- material handling equipment other than telescopic loaders, skid steer loaders, wheel loaders and front-end loaders mounted on tractors.

All profiles of harmed persons should be in the scope. There should be no distinction/exemption between employers, employees, self-employed persons, bystanders or other persons involved in the accident.

Situations that are excluded from the scope of this document:

- near-miss accidents and other incidents, not resulting in harm;
- chronic diseases as a result of physical agents.

Fire hazards are only in the Scope for those fire accidents that have caused physical harm.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 12100:2010, *Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 12100:2010 and the following apply.

3.1 equipment

tractors and machinery listed as being in the scope of this document

3.2 bystander

person other than the operator/driver that is exposed to harm, either involved or not in the activities of the equipment

3.3 victim

person that has been harmed as a result of an accident

4 Reporting format of the public part

4.1 Main structure of the cells

4.1.1 General

All recorded data related to a particular accident can be grouped into four main sections:

- a) the equipment involved;
- b) the nature of the accident;
- c) the environmental factors; and
- d) the human factors.

For each cell, one of the defined options as given in Annex A of this document shall be selected. It is not possible to enter other options than those defined in Annex A.

This coding is in line with the ESAW methodology.

NOTE Filtering the relevant codes of Table A.3 in function of the category of accident and category of equipment could be dealt with at the next revision of the standard or in new part of this standard, under evaluation. In particular this would be interesting in the case that the content of this standard would be used in digital applications.

In the case there is more than one harmed person, there shall be a separate form made for each of them.

4.1.2 Equipment

4.1.2.1 General

This section defines the technical characteristics of the equipment that can be recorded and which one is relevant for the purpose of this document.

In order to preserve the anonymous profile of the data, the recorded data in the public part shall not contain brand names, type descriptions, or serial numbers.

4.1.2.2 Classification of the equipment

This cell defines the classification of the equipment at a very high level and is based on the NACE codes (starting with 09.02 for agricultural equipment). An "x" shall be entered in the appropriate box in Annex A, Table A.1.

4.1.2.3 Category and type of equipment (in alphabetical order)

This cell defines the equipment in further detail. Refer to Annex A, Table A.2.

4.1.2.4 Age of the equipment

This cell defines the age of the equipment. When the equipment is a combination of a tractor and a machine or trailer from different ages, then the equipment which is deemed to be primarily involved in the accident shall be considered. The year of manufacturing shall be entered in Annex A, Table A.3. The spread sheet returns the age of the equipment at the time of the accident.

4.1.2.5 Maintenance condition

This cell defines the maintenance condition of the equipment. When the equipment is a combination of a tractor and a machine or a trailer with a different maintenance condition, then the equipment which is primarily deemed to be involved in the accident shall be considered.

Maintenance shall also consider the general condition of the machine (cleanliness, dents, wrecked, etc.). Refer to Annex A, code 100 - 199.

4.1.2.6 Protections

This cell defines the status of protective structures and systems on the equipment. Only those which have relevance for the accident in question shall be considered.

Refer to Annex A, code 200 - 299.

4.1.2.7 Performance and problems

This cell defines the degree of performance and possible technical problems with the equipment. Only those which have relevance for the accident in question shall be considered.

Refer to Annex A, code 300 - 399.

4.1.2.8 Compliance with regulations and standards

This cell defines the compliance with regulations and standards. Only those which have relevance for the accident in question shall be considered. It is also assumed that the compliance shall be assessed at the time the equipment was first placed on the market, but it is recognized that it will not always be easy to retrieve exactly the legislation which applied at that time.

Refer to Annex A, code 400 - 499.

4.1.3 Nature of the accident

4.1.3.1 General

This section defines the nature of the accident. The parameters and terminology are those from EN ISO 12100:2010, Clauses 4 and 5.

4.1.3.2 Category of accident

This cell defines the hazard category which caused harm as a result of the accident. These are the relevant hazards from EN ISO 12100:2010, Clause 4. In case the victim has been subject to more than one harm, then the hazard category which resulted in the most severe harm (see 4.1.5) shall be considered. The algorithm of the spread sheet is based on the category of accident, in a way that the options for entering a code are related to the category of the accident.

4.1.3.3 Accident scene

This cell defines the location where the accident happened and there is a choice between the typical agricultural scenes in which the equipment covered by this document is operating.

Refer to Annex A, code 500 - 599.

4.1.3.4 Specific physical activity at the time of the accident

This cell defines the part of the lifecycle in which the human interaction took place at the time of the accident. These are the relevant life cycles from EN ISO 12100:2010, 5.3, a) and tailored to the typical activities which are applicable to the equipment covered by this document.

Refer to Annex A, code 600 - 699.

4.1.3.5 Mode in which the equipment was used

This cell defines the mode or manner the equipment was used at the time of the accident. There is a choice between “normal use as intended” and other parameters describing various non-intended uses.

Refer to Annex A, code 700 - 799

4.1.4 Environmental factors

4.1.4.1 General

This section defines the physical environment in which the equipment was used at the time of the accident and is tailored for a typical agricultural environment, being weather, soil and crop.

4.1.4.2 Weather

This cell defines the weather conditions at the time of the accident. The option “not applicable/not relevant” shall be selected when the weather conditions were not relevant for the accident in question.

Refer to Annex A, code 800 - 899.

NOTE The parameters for the weather are aligned with those of the CARE – CADAS data set.

4.1.4.3 Soil or road

This cell defines the soil, track or road conditions at the time of the accident. The option “not applicable/not relevant” shall be selected when the soil, track or road condition was not relevant for the accident in question.

Refer to Annex A, code 900 - 999.

4.1.4.4 Crop

This cell defines the crop conditions at the time of the accident. The option “not applicable/not relevant” shall be selected when the crop conditions were not relevant for the accident in question.

Refer to Annex A, code 1000 - 1099.

4.1.5 Human factors

4.1.5.1 General

This section defines the physical and mental properties and behaviour of the victim at the time of the accident and is based on EN ISO 12100:2010, 5.3, c). It defines also the harm in terms of severity and kind according to the ESAW methodology. In order to preserve the anonymous profile of the data, the recorded data in the public part shall not contain private information about owner and victim.

4.1.5.2 Function of the victim

This cell defines the function of the victim and his/her relation with the equipment at the time of the accident.

Refer to Annex A, code 11000 - 11999 (ESAW codes).

4.1.5.3 Properties of the victim

This cell defines the properties of the victim at the time of the accident in terms of training and awareness about the hazards.

Refer to Annex A, code 1200 - 1299.

4.1.5.4 Behaviour of the victim

This cell defines the behaviour of the victim at the time of the accident in terms of fitness, mental condition and stress.

Refer to Annex A, list 17, code 1300 - 1399.

4.1.5.5 Part of the body injured

This cell defines the part of the body that has been injured.

Refer to Annex A, code 1400 - 1499 (ESAW codes).

4.1.5.6 Type of injury

This cell defines the type of the harm.

Refer to Annex A, code 15000 - 15999 (ESAW codes).

4.1.5.7 Days lost (severity of harm)

This cell defines the severity of the harm expressed in lost working days.

Refer to Annex A, code 000 - 999 (ESAW codes).

4.1.5.8 Age of the victim

This cell defines the age of the victim, expressed in years.

4.2 Entry sheet

Refer to Annex B.

5 Reporting format of the concealed part

5.1 Content of concealed part

This form contains cells which are identifying in detail the owner's name, address, name of harmed persons, brands, types and serial number of the machinery in question. It is obvious that all this information allows to retrieve the accident in question and that for reasons of privacy, this shall be kept separated from the public and generic information about the accident. It is the responsibility of the user of this document to find means to secure the concealed information.

5.2 Entry sheet

Refer to Annex C.

Annex A
(normative)

Accident Reporting Protocol

Table A.1 — Accident Reporting Protocol

NACE codes (Nomenclature statistique des Activités économiques dans la Communauté Européenne) under European Statistics on Accidents at Work (ESAW)

Section A 01: Agriculture, hunting and related service activities

Material Agent

mark the appropriate box with x

09.02.00.00 Portable or mobile machines - for working the ground - farming	
09.02.02.01 Mowing machines	
09.02.03.00 Self-propelled farm equipment, tractors	
09.02.03.01 Agricultural tractor	
09.02.03.02 Farm machine	
09.02.04.00 Pulled farm equipment	
09.02.04.01 Farm vehicle, cart, trailer	
09.02.04.99 Other pulled farm equipment	x
09.02.05.00 Agricultural equipment for crop treatment (pesticides - insecticides - herbicides)	
09.02.99.00 Other agricultural equipment	

Accident Reporting Protocol

category of equipment	Category of accident >	Type of equipment ↓																									
		A	B	C	D	E	F	G	H	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	
tractor + towed equipment	tractor + towed equipment	22	A22	B22	C22	D22	E22	F22	G22	H22	K22	L22	M22	N22	P22	R22	S22	T22	U22	V22	W22	X22	Y22	Z22	AA22	AB22	AC22
tractor + towed equipment	baler (square baler)	23	A23	B23	C23	D23	E23	F23	G23	H23	K23	L23	M23	N23	P23	R23	S23	T23	U23	V23	W23	X23	Y23	Z23	AA23	AB23	AC23
tractor + towed equipment	bale wrapper (towed or integrated in the baler)	24	A24	B24	C24	D24	E24	F24	G24	H24	K24	L24	M24	N24	P24	R24	S24	T24	U24	V24	W24	X24	Y24	Z24	AA24	AB24	AC24
tractor + towed equipment	beet harvester	25	A25	B25	C25	D25	E25	F25	G25	H25	K25	L25	M25	N25	P25	R25	S25	T25	U25	V25	W25	X25	Y25	Z25	AA25	AB25	AC25
tractor + towed equipment	crop sprayer	26	A26	B26	C26	D26	E26	F26	G26	H26	K26	L26	M26	N26	P26	R26	S26	T26	U26	V26	W26	X26	Y26	Z26	AA26	AB26	AC26
tractor + towed equipment	fertilizer distributor	27	A27	B27	C27	D27	E27	F27	G27	H27	K27	L27	M27	N27	P27	R27	S27	T27	U27	V27	W27	X27	Y27	Z27	AA27	AB27	AC27
tractor + towed equipment	feed processors (grinders, mixers)	28	A28	B28	C28	D28	E28	F28	G28	H28	K28	L28	M28	N28	P28	R28	S28	T28	U28	V28	W28	X28	Y28	Z28	AA28	AB28	AC28
tractor + towed equipment	haytool (rakes, tedders)	29	A29	B29	C29	D29	E29	F29	G29	H29	K29	L29	M29	N29	P29	R29	S29	T29	U29	V29	W29	X29	Y29	Z29	AA29	AB29	AC29
tractor + towed equipment	manure spreader	30	A30	B30	C30	D30	E30	F30	G30	H30	K30	L30	M30	N30	P30	R30	S30	T30	U30	V30	W30	X30	Y30	Z30	AA30	AB30	AC30
tractor + towed equipment	mower, mower conditioner	31	A31	B31	C31	D31	E31	F31	G31	H31	K31	L31	M31	N31	P31	R31	S31	T31	U31	V31	W31	X31	Y31	Z31	AA31	AB31	AC31
tractor + towed equipment	pick-up wagons	32	A32	B32	C32	D32	E32	F32	G32	H32	K32	L32	M32	N32	P32	R32	S32	T32	U32	V32	W32	X32	Y32	Z32	AA32	AB32	AC32
tractor + towed equipment	potato harvester	33	A33	B33	C33	D33	E33	F33	G33	H33	K33	L33	M33	N33	P33	R33	S33	T33	U33	V33	W33	X33	Y33	Z33	AA33	AB33	AC33
tractor + towed equipment	seed drill	34	A34	B34	C34	D34	E34	F34	G34	H34	K34	L34	M34	N34	P34	R34	S34	T34	U34	V34	W34	X34	Y34	Z34	AA34	AB34	AC34
tractor + towed equipment	slurry tanker	35	A35	B35	C35	D35	E35	F35	G35	H35	K35	L35	M35	N35	P35	R35	S35	T35	U35	V35	W35	X35	Y35	Z35	AA35	AB35	AC35
tractor + towed equipment	soil working equipment (not powered)	36	A36	B36	C36	D36	E36	F36	G36	H36	K36	L36	M36	N36	P36	R36	S36	T36	U36	V36	W36	X36	Y36	Z36	AA36	AB36	AC36
tractor + towed equipment	soil working equipment (powered)	37	A37	B37	C37	D37	E37	F37	G37	H37	K37	L37	M37	N37	P37	R37	S37	T37	U37	V37	W37	X37	Y37	Z37	AA37	AB37	AC37
tractor + towed equipment	transport trailer (balanced)	38	A38	B38	C38	D38	E38	F38	G38	H38	K38	L38	M38	N38	P38	R38	S38	T38	U38	V38	W38	X38	Y38	Z38	AA38	AB38	AC38
tractor + towed equipment	transport trailer (not balanced)	39	A39	B39	C39	D39	E39	F39	G39	H39	K39	L39	M39	N39	P39	R39	S39	T39	U39	V39	W39	X39	Y39	Z39	AA39	AB39	AC39
tractor + towed equipment	other towed equipment																										

category of equipment	Type of equipment →																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	A	B	C	D	E	F	G	H	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY
M	tractor + mounted equipment	41	A41	B41	C41	D41	E41	F41	G41	H41	K41	L41	M41	N41	P41	R41	S41	T41	U41	V41	W41	beet harvesting equipment																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	42	A42	B42	C42	D42	E42	F42	G42	H42	K42	L42	M42	N42	P42	R42	S42	T42	U42	V42	W42	crop sprayer																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	43	A43	B43	C43	D43	E43	F43	G43	H43	K43	L43	M43	N43	P43	R43	S43	T43	U43	V43	W43	fertilizer distributor																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	44	A44	B44	C44	D44	E44	F44	G44	H44	K44	L44	M44	N44	P44	R44	S44	T44	U44	V44	W44	front-end loader																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	45	A45	B45	C45	D45	E45	F45	G45	H45	K45	L45	M45	N45	P45	R45	S45	T45	U45	V45	W45	haytool (rakes, tedders)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	46	A46	B46	C46	D46	E46	F46	G46	H46	K46	L46	M46	N46	P46	R46	S46	T46	U46	V46	W46	mower, mower conditioner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	47	A47	B47	C47	D47	E47	F47	G47	H47	K47	L47	M47	N47	P47	R47	S47	T47	U47	V47	W47	potato planting equipment																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	48	A48	B48	C48	D48	E48	F48	G48	H48	K48	L48	M48	N48	P48	R48	S48	T48	U48	V48	W48	road side maintenance equipment																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	49	A49	B49	C49	D49	E49	F49	G49	H49	K49	L49	M49	N49	P49	R49	S49	T49	U49	V49	W49	seed drill																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	50	A50	B50	C50	D50	E50	F50	G50	H50	K50	L50	M50	N50	P50	R50	S50	T50	U50	V50	W50	soil working equipment (not powered)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	51	A51	B51	C51	D51	E51	F51	G51	H51	K51	L51	M51	N51	P51	R51	S51	T51	U51	V51	W51	soil working equipment (powered)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	52	A52	B52	C52	D52	E52	F52	G52	H52	K52	L52	M52	N52	P52	R52	S52	T52	U52	V52	W52	vegetable planting equipment																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	53	A53	B53	C53	D53	E53	F53	G53	H53	K53	L53	M53	N53	P53	R53	S53	T53	U53	V53	W53	wood chipper																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	tractor + mounted equipment	54	A53	B53	C53	D53	E53	F53	G53	H53	K53	L53	M53	N53	P53	R53	S53	T53	U53	V53	W53	other mounted equipment																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	L	loaders & material handling equipment	61	A61	B61	C61	D61	E61	F61	G61	H61	K61	L61	M61	N61	P61	R61	S61	T61	U61	V61	W61	skid-steer loader																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
loaders & material handling equipment		62	A62	B62	C62	D62	E62	F62	G62	H62	K62	L62	M62	N62	P62	R62	S62	T62	U62	V62	W62	telescopic loader - rough terrain truck																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
loaders & material handling equipment		63	A63	B63	C63	D63	E63	F63	G63	H63	K63	L63	M63	N63	P63	R63	S63	T63	U63	V63	W63	telescopic wheel loader																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
loaders & material handling equipment		64	A64	B64	C64	D64	E64	F64	G64	H64	K64	L64	M64	N64	P64	R64	S64	T64	U64	V64	W64	tractor with front - end loader																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
loaders & material handling equipment		65	A65	B65	C65	D65	E65	F65	G65	H65	K65	L65	M65	N65	P65	R65	S65	T65	U65	V65	W65	tractor with rear backhoe																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

Category of accident >

category of equipment	Type of equipment	Category of accident >																									
		A	B	C	D	E	F	G	H	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	
G	wheeled lawn and gardening equipment	71	A71	B71	C71	D71	E71	F71	G71	H71	K71	L71	M71	N71	P71	R71	S71	T71	U71	V71	W71	X71	Y71	Z71	AA71	AB71	AC71
	wheeled lawn and gardening equipment	72	A72	B72	C72	D72	E72	F72	G72	H72	K72	L72	M72	N72	P72	R72	S72	T72	U72	V72	W72	X72	Y72	Z72	AA72	AB72	AC72
	wheeled lawn and gardening equipment	73	A73	B73	C73	D73	E73	F73	G73	H73	K73	L73	M73	N73	P73	R73	S73	T73	U73	V73	W73	X73	Y73	Z73	AA73	AB73	AC73
	wheeled lawn and gardening equipment	74	A74	B74	C74	D74	E74	F74	G74	H74	K74	L74	M74	N74	P74	R74	S74	T74	U74	V74	W74	X74	Y74	Z74	AA74	AB74	AC74
H	hand - held powered equipment	81	A81	B81	C81	D81	E81	F81	G81	H81	K81	L81	M81	N81	P81	R81	S81	T81	U81	V81	W81	X81	Y81	Z81	AA81	AB81	AC81
	hand - held powered equipment	82	A82	B82	C82	D82	E82	F82	G82	H82	K82	L82	M82	N82	P82	R82	S82	T82	U82	V82	W82	X82	Y82	Z82	AA82	AB82	AC82
	hand - held powered equipment	83	A83	B83	C83	D83	E83	F83	G83	H83	K83	L83	M83	N83	P83	R83	S83	T83	U83	V83	W83	X83	Y83	Z83	AA83	AB83	AC83

Table A.3 — Code definition

Code	<u>Maintenance condition</u>
100	100 do not know
101	101 well maintained
102	102 fairly maintained
103	103 badly maintained
104	104 scrap
105	105 rebuilt/modified machine by the user
106	106 self-made machine
107	
198	198 not applicable/ not relevant
199	199 no appropriate code available

Code	<u>Protections and safety devices</u>
200	200 do not know
201	201 ROPS structure/cab not installed
202	202 ROPS structure/cab in bad condition
203	203 foldable ROPS structure not locked in raised position
204	204 ROPS structure/cab installed but collapsed
205	205 safety belt(s) installed but not used
206	206 safety belt(s) not installed
207	207 PTO protection in good shape
208	208 PTO protection guards in bad shape
209	209 PTO protection not installed
210	210 Guards/barriers not installed
211	211 Guards/barriers in poor shape
212	212 Installed guards/barriers not adequate
213	213 Guards/barriers removed/open at the time of the accident
214	214 Park brake not properly working
215	215 FOPS structure not installed
216	216 FOPS structure in bad condition
217	217 FOPS structure installed but not adequate
218	218 locking device for raised machine parts not installed
219	219 locking device for raised machine parts installed, not used
220	220 safety signs missing

221	221 fire extinguisher missing/not functioning
222	222 poor functioning lighting and signalling installation
223	223 appropriate lighting and signalling not installed
224	224 interlocking devices by- passed
225	225 mandatory interlocking devices not present
226	226 wrong use of lifting/hoisting equipment
227	227 appropriate lifting/hoisting equipment not present
228	228 OPS structure not installed
229	229 OPS structure in bad condition
230	230 OPS structure installed but not adequate
231	231 thermal engine used in a confined area (exhaust gas)
232	
298	298 not applicable/ not relevant
299	299 no appropriate code available

Code	<u>Performance and problems</u>
300	300 do not know
301	301 performance as intended
302	302 degradation of performance
303	303 blockage, wrapping, interrupted flow
304	304 poor aspect / quality of work
305	305 problem, one function disabled
306	306 problem, causing equipment to stop work
307	307 problem, causing loss of equipment control
308	308 problem, causing secondary hazards
309	309 brakes did not work well
310	310 vehicle overloaded above permissible mass
311	311 vehicle loaded, causing stability problems
312	312 trailer not adapted, too heavy for the vehicle
313	313 speed not adapted to the conditions
314	314 incompatibility tractor and implement 3PL interface
315	315 incompatibility tractor and implement coupling interface
316	316 incompatibility tractor and implement hydraulic interface
317	317 incompatibility tractor and implement electrical interface
318	318 poor visibility by the driver/operator on the accident scene

319	
320	
321	
322	
398	398 not applicable/ not relevant
399	399 no appropriate code available

Code	<u>Compliance with regulations and standards</u>
400	400 do not know
401	401 compliant with regulations and standards at the date of accident
402	402 compliant at the time of placing on the market
403	403 not compliant at the time of placing on the market
404	404 Operators manual/instructions not available
405	405 Operators manual/instructions not warning for the hazard
406	
407	
498	498 not applicable/ not relevant
499	499 no appropriate code available

Code	<u>Accident scene</u>
500	500 do not know
501	501 farm yard
502	502 field
503	503 travelling on field road
504	504 forage bunker silo
505	505 travelling on public road
506	506 shed/barn
507	507 workshop
508	508 loading equipment on transport trailer
509	509 unloading equipment from a transport trailer
510	510 forest
511	511 road or road side maintenance
512	512 landscaping and amenity courses
598	598 not applicable/ not relevant

599	599 no appropriate code available
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Code	<u>Activity at the time of accident</u>
600	600 do not know
601	601 normal field operation
602	602 transfer between fields (off-road)
603	603 transport between fields (on-road)
604	604 transport of goods on public roads
605	605 assembly of the equipment
606	606 preparation for work
607	607 cleaning of equipment
608	608 routine maintenance of equipment
609	609 periodical maintenance of equipment
610	610 problem solving
611	611 repair
612	612 converting of the equipment
613	613 disassembly/dismantling of the equipment
614	614 passenger in a vehicle
615	615 bystander involved in the activity
616	616 bystander not involved in the activity
617	617 rider on a vehicle (not in Operator's station)
618	618 other road user in vehicle
619	619 other road user - motorized two wheeler
620	620 other road user - cyclist
621	621 other road user - pedestrian
622	622 storage of the equipment
698	698 not applicable/ not relevant
699	699 no appropriate code available

Code	<u>Mode of use</u>
700	700 do not know
701	701 normal use as intended
702	702 reasonably foreseeable misuse
703	703 not foreseeable misuse
704	704 intentional misuse

705	705 followed “path of least resistance” (easy option)
706	706 use indicated in the operating manual as “not intended”
707	
798	798 not applicable/ not relevant
799	799 no appropriate code available

Code	<u>Weather</u>
800	800 do not know
801	801 dry, clear
802	802 rain
803	803 snow
804	804 fog, mist, smoke, dark
805	805 sleet, hail
806	806 severe winds
807	807 other
898	898 not applicable/ not relevant
899	899 no appropriate code available

Code	<u>Soil, track and road</u>
900	900 do not know
901	901 good soil/road conditions
902	902 moderate soil/road conditions
903	903 slippery, icy soil/road condition
904	904 soft verges or bridges with insufficient capacity
905	905 operation in hilly field/road, good adherence
906	906 operation in hilly field/road, poor adherence
907	907 verges undermined by rodents
908	908 irregular terrain, banks, ditches, holes, roots
998	998 not applicable/ not relevant
999	999 no appropriate code available

Code	<u>Crop conditions during harvesting</u>
1000	1000 do not know
1001	1001 good crop conditions
1002	1002 difficult crop conditions

1003	1003 adverse crop conditions
1004	
1005	
1006	
1007	
1098	1098 not applicable/ not relevant
1099	1099 no appropriate code available

Code	<u>Function of the victim</u>
11000	11000 employment status unknown
11100	11100 self-employed (owner)
11300	11300 employee (full time, part time, permanent, temporary)
11400	11400 family worker
11500	11500 trainee / apprentice
11910	11910 mechanic/fitter/dealer personnel
11920	11920 bystander involved in the work process
11930	11930 bystander not involved in the work process
11940	11940 other user of public road
11998	11998 not applicable/ not relevant
11999	11999 no appropriate code available

Code	<u>Victim properties</u>
1200	1200 do not know
1201	1201 operator trained for the job
1202	1202 average operator for work in agriculture
1203	1203 operator not well trained
1204	1204 operator not fit for the job
1205	1205 bystander(s) not informed
1206	1206 bystander(s) not aware of hazards
1207	
1298	1298 not applicable/ not relevant
1299	1299 no appropriate code available

Code	<u>Victim behaviour</u>
1300	1300 do not know

1301	1301 victim fit and cautious
1302	1302 victim not cautious
1303	1303 victim tired
1304	1304 victim stressed
1305	1305 victim intoxicated
1306	1306 victim did not observe basic safety rules
1307	
1398	1398 not applicable/ not relevant
1399	1399 no appropriate code available

Code	<u>Part of body injured</u>
1400	1400 do not know
1410	1410 head
1411	1411 head, brain and cranial nerves and vessels
1412	1412 facial area
1413	1413 eye(s)
1414	1414 ear(s)
1415	1415 teeth
1418	1418 head, multiple sites affected
1419	1419 head, other parts not mentioned above
1420	1420 neck, inclusive spine and vertebra in the neck
1429	1429 neck, other parts not mentioned above
1430	1430 back, including spine and vertebra in the back
1439	1439 back, other parts not mentioned above
1440	1440 torso and organs, not further specified
1441	1441 rib cage, ribs including joints and shoulder blades
1442	1442 chest area including organs
1443	1443 pelvic and abdominal area including organs
1448	1448 torso, multiple sites affected
1449	1449 torso, other parts not mentioned above
1450	1450 upper extremities, not further specified
1451	1451 shoulder and shoulder joints
1452	1452 arm, including elbow
1453	1453 hand
1454	1454 finger(s)

1455	1455 wrist
1458	1458 upper extremities, multiple sites affected
1459	1459 upper extremities, other parts not mentioned above
1460	1460 lower extremities, not further specified
1461	1461 hip and hip joint
1462	1462 leg, including knee
1463	1463 ankle
1464	1464 foot
1465	1465 toe(s)
1468	1468 lower extremities, multiple sites affected
1469	1469 lower extremities, other parts not mentioned above
1470	1470 whole body and multiple sites, not further specified
1471	1471 whole body (systemic effects)
1478	1478 multiple sites of the body affected
1498	1498 not applicable/ not relevant
1499	1499 no appropriate code available

Code	<u>Type of injury</u>
15000	15000 type of injury unknown or unspecified
15010	15010 wounds and superficial injuries
15020	15020 bone fractures
15030	15030 dislocations, sprains and strains
15040	15040 traumatic amputations
15050	15050 concussion and internal injuries
15060	15060 burns, scalds and frostbites
15070	15070 poisonings and infections
15080	15080 drowning and asphyxiation
15090	15090 effects of sound, vibration and pressure
15100	15100 effects of temperature extremes, light and radiation
15110	15110 shock
15120	15120 multiple injuries
15998	15998 not applicable/not relevant
15999	15999 no appropriate code available

Code	<u>Days lost (severity of harm)</u>
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0	000 number of days lost unknown
A01	A01 4–6 days lost
A02	A02 7–13 days lost
A03	A03 14–20 days lost
A04	A04 21 days - less than 1 month lost
A05	A05 at least 1 months but less than 3 months lost
A06	A06 at least 3 months but less than 6 months loss
997	997 permanent incapacity (to work) or 6 months absence or more
998	998 fatal accident
AA998	AA998 not applicable/not relevant
AA999	AA999 no appropriate code available

Annex B (informative)

Example of Entry Form for the public information

Table B.1 — Example of ACCIDENT REPORTING FORM – Public information

ACCIDENT REPORTING FORM: public information, enter the codes in the yellow fields, expand code list with (+) button in the LH column				
		code	description	ESAW
Category reference	Category of accident (ESAW: mode of injury)	A	Roll-over/Tip-over accident	62
	MACE Classification code and nomenclature		09.02.03.01 Agricultural tractor	none
Classification of the vehicle	Type of equipment (alpha order)	24	tractor (stand alone, without equipment)	none
	Combination of vehicles	d	tractor	none
Equipment	Year of Manufacturing of the equipment	2005	5 years old	none
	Maintenance condition	101	101 well maintained	none
	Protection	201	201 ROPS structure/cab not installed	none
	Performance & problems	310	310 vehicle overloaded above permissible mass	none
	Compliance with regulations & standards	401	401 compliant with the current regulations & standards	none
Nature of the accident	Accident scene	502	502 field/forest	none
	Specific Physical Activity	601	601 normal field operation	10
	Mode in which the equipment was used	702	702 reasonably foreseeable misuse	none
The environmental factors	Weather	898	898 not applicable/ not relevant	none
	Soil or road	906	906 operation in hilly field/road, poor adherence	none
	Crop	1098	1098 not applicable/ not relevant	none
The human factors	The function/employment status of the victim	11300	11300 employee (full time, part time, permanent, temporary)	300
	The properties of the victim	1299	1299 no appropriate code available	none
	The behavior of the victim	1304	1303 victim tired	none
	Part of body injured	1441	1441 rib cage, ribs including joints and shoulder blades	41
	Type of injury	15010	15010 wounds and superficial injuries	10
	Days Lost (severity of harm)	A02	A02 7-13 days lost	A02
	The age of the victim	54	54 years old	54

Annex C (informative)

Example of Entry Form for concealed information

Table C.1 — Example of ACCIDENT REPORTING FORM - Concealed information

date of accident (DD/MM/YY)	<input style="width: 95%;" type="text"/>	reference nbr	<input style="width: 95%;" type="text"/>
time of the accident (HH:MM)	<input style="width: 95%;" type="text"/>		
place of accident	<input style="width: 95%;" type="text"/>		
NUTS code	<input style="width: 95%;" type="text"/>		
name of owner of machinery	<input style="width: 95%;" type="text"/>		
address of owner of machinery	<input style="width: 95%;" type="text"/>		
name of employer (*)	<input style="width: 95%;" type="text"/>		
address of employer	<input style="width: 95%;" type="text"/>		
name of harmed person (**)	<input style="width: 95%;" type="text"/>		
address of harmed person	<input style="width: 95%;" type="text"/>		
function of harmed person	<input style="width: 95%;" type="text"/>		
age of harmed person	<input style="width: 95%;" type="text"/>		
machinery (**)	tractor or SP machine	implement 1	implement 2
designation	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
brand / model	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
year of construction	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
serial number	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
(*) when different from owner of machinery (e.g. rental business, self-employed persons)			
(**) fill out one form per harmed person			
(**) only the data of machinery relevant for the accident in question must be filled out			

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