Standard for Forest Data and Communication

Version (last update) 2012-04-18

Listing of variables in numerical order. | = New 2012-04-18 | = New 2011-11-09 | = New 2011-05-03

Priorities

1 = Mandatory
2 = Recommended
0 = normally not within the category
3 = May be used
4 = Old variable (not for new development)

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
1	FILETYPE	1	string	Text	Filetype: text string as per application	4	4	4	4	4	4	4	4	4	0	4	4	4	4	4	4	0	0	0	0
		2	string	Text	The variable shall assume one of the following values: apt, prd, tid, drf, rep, mas, avs, stm, sti, ktr, kal, cmb, apm, fpm, prm, psu, hks, inv, oai, pri, prl, ghd, spp, ap1. (mandatory)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
*		3	string	text	Code page character set, ISO-code	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		4	integer	Code	System for measurement 0=meter (SI) 1=inch, Imperial	3	3	3	3	3	3	3	3	3	0	3	3	3	3	3	3	0	0	3	0
2 *	ID	1	string	Text	The identity of the apt-file	1	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0
		2	string	text	The name of the apt-file	3	3	0	0	3	3	3	3	0	3	0	0	0	0	0	3	0	0	0	0
		3	string	text	The name of the oai-file	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		4	string	text	The name of the ghd-file	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		5	string	text	The name of the spp-file	0	2	0	0	2	0	0	0	0	2	0	2	0	0	0	0	0	2	0	0
		6	string	text	Identity of the spp-file version.	0	2	0	0	2	0	0	0	0	2	0	2	0	0	0	0	0	1	0	0
3 *	MCHNNO	1	string	Text	Machine number	3	3	1	0	1	0	0	0	3	0	3	1	0	0	0	3	0	0	2	0
*		2	String	Text	Unique machine identity for each company, for example used when using the harvester to measure for payment.	2	2	1	0	1	2	0	0	0	2	0	1	0	0	0	2	0	0	1	0
*		3	integer	code	Code describing type of machine: 1=harvester (default if variable is missing) 2=forwarder 3=harwarder, machine which handles both harvesting and forwarding 10 = bundler 20 = scarifier 99=other	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
3	MCHNNO	4	string	text	Caliper identity	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		5	string	text	Machine manufacturer. Free text that describes the machine manufacturer.	0	2	1	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
		6	string	text	Machine model. Free text that describes the model of the machine.	0	2	1	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
		7	string	text	Harvester head manufacturer. Free text that describes the head manufacturer.	0	2	2	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
		8	string	text	Harvester head model. Free text that describes the model of the harvester head.	0	2	2	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
4	TERMINAL	1	string	Text	Identification and/or type of hand-held terminal	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 *	VARIANT	1	string	Text	Version/model of system control computer (in case of harvester normally identical with bucking computer) used for creating file. Recommended format m v.n, where m is the make and v.n the version number. Observe that up to 80 characters can be used.	0	2	1	0	1	3	3	3	0	2	0	1	0	0	0	2	0	0	2	3
*		2	string	text	Version/model of administrative program used for creating file. Format to be m v.n, where m is the name of the software and v.n the version number.	1	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	3
*		3	string	text	Version/model of bucking computer as designated by administrative program when creating apt-file.	2	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
		4	string	text	Version of caliper software	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
*		5	string	text	Name and version of program or software application used for creating apt-file from oai- and ap1-files.	3	3	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
6 *	NATION	1	integer	Code	Country code: numerical code as per Swedish Std. SS-ISO 3166	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
7	DATAREQUES	1	integer	Code	Used to show contents of the returned ktr file 1 Raw data 2 Processed data 3 Both raw and processed data	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
8	NUMFILES	1	integer	no	Number of files in a summed file (psu-file). The datatype of the summed values in the psu-file is changed from integer to longinterger(4-bytes).	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	RESETDATE	1	string	yymmdd	Date of last reset	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	yymmddhhmm	Date of last reset	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	string	yymmddhhmmss	Date of last reset	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Time and date when the prd/pri/prl-file last was reset. (mandatory), normally at the same time as production is started after reset.	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
12	DATESAVED	1	string	yymmdd	(see above)	4	4	0	0	4	0	0	0	4	0	4	0	0	0	4	0	0	0	0	0
		2	string	yymmddhhmm	Date when file was last saved	4	4	0	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
		3	string	yymmddhhmmss	Date when file was last saved	4	4	0	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
		4	string	yyyymmddhhmmss	Date when file was last saved	1	1	1	0	1	0	0	0	3	1	3	1	0	0	2	1	1	1	1	3
13	BUIDATE	1	string	yymmdd	Date of current bucking file	4	0	0	0	0	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	yymmddhhmm	(see above)	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	string	yymmddhhmmss	(see above)	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Time and date when the current bucking file (APT-file) was originally created in a administrative program with the present name.	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3
14	CALIBDATE	1	string	yymmdd	Calibration date	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
14	CALIBDATE	2	string	yymmddhhmm	(see above)	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		3	string	yymmddhhmmss	(see above)	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Calibration date	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
15	CALIBRSN	1	string	Text	Reason for calibration	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		2	String	Text	Reason for calibration: No correction = 0 Repair of measurment system = 1 Change in weather conditions = 2 Other reasons = 3	0	4	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0
16	STARTDATE	1	string	yymmdd	Start date	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		2	string	yymmddhhmm	(see above)	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		3	string	yymmddhhmmss	(see above)	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Time and date for starting production at a site for the first time. Mandatory in prd/pri/prl-file.	0	1	0	0	3	0	0	0	0	1	0	3	0	0	0	0	0	0	1	0
17	ENDDATE	1	string	yymmdd	End date	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		2	string	yymmddhhmm	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	string	yymmddhhmmss	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Time and date for ending a site. Used only when the when the harvesting machine is not to return to the site. Mandatory in prd-file when site is finished.	0	1	0	0	3	0	0	0	0	1	0	3	0	0	0	0	0	0	1	0
18	CONTRDATE	1	string	yymmdd	Control measurement date	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		2	string	yymmddhhmm	(see above)	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		3	string	yymmddhhmmss	(see above)	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
18	CONTRDATE	4	string	yyyymmddhhmmss	Measuring date for each stem (date when stem was harvested and measured by harvester, M1-measurement)	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		5	string	yyyymmddhhmmss	Control measuring date for operator (M2). Registered for each stem in ktr-file.	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		6	string	yyyymmddhhmmss	Control measuring date for 3rd party (M3). Registered for each stem in ktr-file.	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
19	BREAKDATE	2	string	yymmddhhmm	Date and time for a break in the harvesting operation. This variable is used only when there is a break and the work will be resumed on the same site. Refers to var21.	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	string	yymmddhhmmss	Date and time for a break in the harvesting operation. This variable is used only when there is a break and the work will be resumed on the same site. Refers to var21.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Date and time for a temporary break in the harvesting operation at a site (var21), when production is resumed redults are stored in the same prd- or pri-file using the same APT-file.	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0
20	RESTARTDATE	1	String	yymmdd	Date and time for restart on a site where the operations have been interrupted. Refers to var21.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	String	yymmddhhmm	(see above)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	String	yymmddhhmmss	(see above)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	String	yyyymmddhhmmss	Date and time for restart on a site (var21) where the operations have been interrupted. Can only exist if variable 19 (BREAKDATE) type 4 exists, must have a date/time later than var19_t4.	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0
21 *	SITENO	1	string	Text	Logging unit number (mandatory in prd-, pri-, stm- and ktr-files)	2	1	2	0	1	0	0	0	3	1	0	1	0	0	2	2	0	0	1	0
*		2	string	text	Marking for cutting	3	3	3	0	1	0	0	0	0	2	0	1	0	0	0	2	0	0	2	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
21 *	SITENO	3	string	text	Compartment number	3	3	3	0	2	0	0	0	0	2	0	2	0	0	0	2	0	0	2	0
*		4	string	text	Lot number	3	3	3	0	2	0	0	0	0	2	0	2	0	0	0	2	0	0	2	0
*		5	Integer	Code	Code to express if the logging site is certified or not: 0 = Not certified 1 = Certified	3	3	0	3	3	0	0	0	0	2	0	0	0	0	0	3	0	0	2	0
22	FILEORDER	1	integer	integer	Order of production files (prd or pri), used when dividing production result from one site into several different files. In the first file FILEORDER = 1. Only the last file has an ENDDATE (var17_t4). When production is resumed and production is stored in a new file, with no old data, FILEORDER must have a value >1 The file is considered to be cumulative if variable is missing. Prd-files are normally cumulative and pri-files are normally non-cumulative. A cumulative file is a file which is not reset between reporting.	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
23 *	SITEINFO	1	string	code/text	Harvesting method, the code is not standardized. The operator normally should not need to input any information related to var23 if this variable is included in apt- or oai-file.	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
		2	string	text	Harvesting method (harvesting objekt)	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
		3	integer	hectare	Area of the site in hectare	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
31 *	ORG	1	string	Text	Organization	3	2	3	0	3	0	0	0	0	2	0	3	0	0	0	2	0	0	2	0
*		2	string	text	Region	3	2	3	0	3	0	0	0	0	2	0	0	0	0	0	2	0	0	2	0
*		3	string	text	District	3	2	3	0	3	0	0	0	0	2	0	0	0	0	0	2	0	0	2	0
*		4	string	text	Working team	3	2	3	0	3	0	0	0	0	2	0	0	0	0	0	2	0	0	2	0
*		5	string	text	Wood pile	3	2	3	0	3	0	0	0	0	2	0	0	0	0	0	2	0	0	2	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
31	ORG	6	string	text	Name of contact person (responsible for harvesting of a specific object) within harvest organization / company / employer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
		7	string	text	Address of contact person (responsible for harvesting of a specific object) within harvest organization / company / employer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
		8	string	text	E-mail of contact person (responsible for harvesting of a specific object) within harvest organization / company / employer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
		9	string	text	Phone/fax number of contact person within harvest organization / company / employer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
32 *	BUYER	1	string	Text	Buyer	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	3	0
*		2	string	text	Buyer/price matrix/tree species: 1…var116_t1/1…var111_t1	3	3	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	1
33 *	VENDOR	1	string	Text	Vendor	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	3	0
*		2	string	text	Vendor, code	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	3	0
*		3	string	text	Vendor, name	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	3	0
*		4	string	text	Vendor, address	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	3	0
*		5	string	text	Vendor, e-mail	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	3	0
*		6	string	text	Vendor, phone/fax	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	3	0	0	3	0
34 *	SUBCON	1	string	Text	Contractor	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
*		2	string	text	The contractors code	2	1	1	0	1	0	0	0	0	1	0	1	0	0	0	2	0	0	1	0
*		3	string	text	The name of the contractor	2	2	2	0	2	0	0	0	0	2	0	2	0	0	0	2	0	0	2	0
*		4	string	text	The address of the contractor	2	2	2	0	2	0	0	0	0	2	0	2	0	0	0	2	0	0	2	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
34 *	SUBCON	5	String	Text	The e-mail address of the contractor	2	2	2	0	2	0	0	0	0	2	0	2	0	0	0	3	0	0	2	0
*		6	String	Text	The telephone and fax numbers of the subcontractor	2	2	2	0	2	0	0	0	0	2	0	2	0	0	0	3	0	0	2	0
35 *	CONTRACTNO	1	string	Text	Contract number	2	1	3	0	1	0	0	0	0	1	0	1	0	0	0	2	0	0	1	1
*		2	String	Text	Contract number in the Swedish VIOL-system	2	2	3	0	1	0	0	0	0	2	0	1	0	0	0	2	0	0	2	0
36	LOGMEAS	1	string	Text	Log mensuration	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	PULPMEAS	1	string	Text	Pulpwood mensuration	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	CONTRMEAS	1	string	Text	Control measurer	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		2	string	text	Identity of auditor	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		3	integer	code	Type of log (ktr-file) according to registration in caliper: 1=OK for calibration, 0= Not to be used for calibration (Only registered in caliper): 1...var290_t1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		4	integer	code	Type of stem selection (for control and calibration): 1-Randomized stem, 2-Manually by operator selected stem, 0-Other	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		5	integer	code	Acceptance/rejection of randomized stem, if code in var38_t4 is 1 (used for randomized stem): 1-Accepted, to be manually measured with caliper, 2- Rejected, not to be manually measured with caliper, 0-Other	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		6	integer	pieces	No of harvested stems since last generation of ktr-file. Reset after each generation of a ktr-file, meaning a rejected stem is only logged once in a ktr-file.	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		7	integer	pieces	No of rejected randomized control stems since last generation of ktr-file. Reset after each generation of a ktr-file, meaning a rejected stem is only logged once in a ktr-file.	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
38	CONTRMEAS	8	integer	integer	Control stem number for rejected stems, (identical with var270_t3 in stm-file): 1…var38_t7	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		9	string	yyyymmddhhmmss	Harvesting time for rejected stems (identical with var18_t4): 1…var38_t7	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		10	integer	code	Reason for rejection of randomly selected stems: 0 = Not rejected, 1 = Stem defect, 2 = Out of reach, 3 = Part of stem mixed up with other stems, 4 = Poor weather, 7 = Bucking system error, 8 = Caliper broken, 9 = Other reasons not defined: 1…var38_t7	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		11	integer	code	Code for measurement mode per stem in ktr-file. Set in caliper. Codes for caliper measurement modes: 1 = both diameters and lengths registered, 2 = only lengths registered	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
40	NMLNGTHCAL	1	integer	no	Number of length calibrations (suggestion, at least last three calibrations)	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
		2	Integer	no	Number of length calibrations per tree species (suggestion, at least last three calibrations): 1...var111_t1	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
		3	integer	no	Number of length positions per calibration and tree species (suggestion, at least one point at 500 cm): 1...var40_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0
41	LGTHCALDAT	3	string	Date	Length calibration date: 1...var40_t1	0	4	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Length calibration date: 1...var40_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
42	LGTHCALRSN	1	string	Text	Length calibration reason: 1...var40_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
		2	integer	code	Code for length calibration reason: 1...var40_t2/1...var111_t1 0 = Repair of measurement system 1 = Change in weather conditions 9 = Other reasons	0	3	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
43	NUMDIACAL	1	integer	no	Number of diameter calibrations (suggestion, at least last three calibrations)	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
		2	Integer	no	Number of diameter calibrations per tree species (suggestion, at least last three calibrations): 1...var111_t1	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
		3	integer	no	Number of diameter positions per calibration and tree species (suggestion, 14 points at diameters 50,100,150…700): 1...var43_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0
44	DIACALDAT	3	string	Date	Diameter calibration date:1...var43	0	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Diameter calibration date:1...var43_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
45	DIACALRSN	1	string	Text	Diameter calibration reason: 1...var43_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
		2	itneger	code	Code for diameter calibration reason: 1...var43_t2/1...var111_t1 0 = Repair of measurement system 1 = Change in weather conditions 9 = Other reasons	0	3	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0
46	CALLNGTH	1	Integer	cm	Length positions (suggested length 500 cm): 1...var40_t3/1...var40_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
47 *	CORRLNGTH	1	Integer	mm	Adjustment per length position: 1...var40_t3/1...var40_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
		2	integer	mm	Adjustment per length position for butt logs, that is the difference in adjustment comparing to length adjustment of non butt logs. Used if separate butt log calibration exist in harvester: 1...var40_t3/1...var40_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0
48	CALDIA	1	Integer	mm	Diameter position (suggested diameters 50,100,150…700): 1...var43_t3/1...var43_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0
49 *	CORRDIA	1	Integer	mm	Adjustment per diameter position: 1...var43_t3/1...var43_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	2	2	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
49	CORRDIA	2	long integer	1/10000	Diameter adjustment, constant "a" in "Diameter adjustment (mm) = a + b*Measured diameter (mm)",if linear regression method is used for diameter calibration: 1...var43_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0
		3	long integer	1/10000	Diameter adjustment, factor "b" in "Diameter adjustment (mm) = a + b*Measured diameter (mm)",if linear regression method is used for diameter calibration: 1...var43_t2/1...var111_t1	0	3	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0
50	MODIFIED	1	string	Text	Descriptive text specifying whether the file contents have been modified and, if so, why. For example multiple production files have been merged into one.	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	yymmddhhmmss	Date/Time for modification of the file: 1…var50_t5.	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	string	text	Descriptive text specifying whether the file contents have been modified and, if so, why: 1...var50_t5. When the file is saved with a new name the variable is reset.	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Date/time when the content of the file is modified: 1...var50_t5. When the file is saved with a new name the variable is reset.	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	no	The number of times(date/time) the file has been modified. When the file is saved with a new name the variable is reset.	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	APTHISTORY	1	integer	no	Number of times that changes has been made to the apt-file. Possible to reset in administrative program.	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		2	string	yyyymmddhhmmss	Date and time for change/modification of apt-file during the harvest of a site: 1…var51_t1 Possible to reset in administrative program.	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
51	APTHISTORY	3	string	text	Text describing variables that have been changed in the apt-file, e.g. “var132_t1, var135_t2”: 1…var51_t1 Possible to reset in administrative program.	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		4	string	text	Identity of machine (var3_t2) in which change in apt-file was done, if change is not done in a machine signature of person responsible: 1…var51_t1 Possible to reset in administrative program.	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		5	string	yyyymmddhhmmss	Date and time when var51 type 1, 2, 3, and 4 were last reset. This is the same date as when the file was first created if type1, 2, 3 and 4 has not been reset.	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		6	string	text	Signature of person responsible for resetting var51, type 1, 2, 3 and 4. This is the person that created the file if type1, 2, 3 and 4 has not been reset.	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
53	RPRTINTER	1	string	yyyymmddhhmmss	Start date for report interval in time oriented file (data in file normally independent of harvesting objects)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	yyyymmddhhmmss	End date for report interval in time oriented file (data in file normally independent of harvesting objects)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	WEIGHTCAL	1	string	no	Number of scale calibrations	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		2	integer	yyyymmddhhmmss	Date for calibrating scale: 1…var60_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		3	integer	kg	Reference mass when calibrating scale: 1…var60_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		4	integer	1%	Error of scale when calibrating: 1…var60_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		5	integer	0.001	Factor used when weighing, default value is 1000.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
61	WEIGHTCONTRL	1	integer	no	Number of occurrences of weight scale controls.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		2	string	yyyymmddhhmmss	Time of weight scale control measurement: 1…var61_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
61	WEIGHTCONTRL	3	integer	kg	Reference weight, weight of the control object (e.g. test object or weight bridge): 1…var61_t1.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		4	integer	no	Number of control weight scalings: 1…var61_t1.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		5	integer	kg	Registered mass of control scaling in forwarder per scaling occasion: 1…var61_t4/ 1…var61_t1. Weight values of the forwarder's scale.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		6	integer	code	Calibration of the weight scale has been done (or not) based on the weight control results and suggestions of the scale manufacturer: 1…var61_t1. Codes: 0 = no, 1 = yes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		7	string	free text	Optional free text about control measurements, calibration reasons, weight scale faults and repairs etc: 1…var61_t1.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		8	string	free text	Name and identity of certificate of type examination for scale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		9	string	free text	Scale model and manufacturer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		10	integer	code	Scale type (grapple vs bunks) Codes: 0=grapple scale, 1= bunk (load bearers) scale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		11	integer	code	Forwarder’s working type when weighting with weight scale is done: 1…var61_t1. Codes: 1 = loading, 2 = unloading. Variable only used for weight scale control measurements. See var446_t1 for production reporting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
62	RNDMWEIGHTC	1	Integer	No	Number of random weight scaling per no of random weight scaling assortment/species/operator. 1…var116_t1/1…var111_t1/1…var211_t2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
62	RNDMWEIGHTC	2	Integer	Code	Position of random weight scaling per random scaling/assortment/species/operator. 1…var62_t1/1…var116_t1/1…var111_t1/1…var211_t2 Codes: 0= to the left side of the load space, 1= to the right side of the load space	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		3	string	yyyymmddhhmmss	Date and time of random weight scaling per random scaling/assortment/species/operator. 1…var62_t1/1…var116_t1/1…var111_t1/1…var211_t2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		4	Integer	Kg	Weight at static lifts per random scaling / assortment /species/operator. 1…var62_t1/1…var116_t1/1…var111_t1/1…var211_t2 Observe that normal logs are used in this scale control.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		5	Integer	Kg	Weight at dynamic lift per random scaling / assortment /species/operator. 1…var62_t1/1…var116_t1/1…var111_t1/1…var211_t2 Observe that normal logs are used in this scale control.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
101	LNGTHFORCALC	1	integer	cm	Length of stem used in calculation	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	MEASLNGTH	1	integer	cm	Length of stem measured before estimation	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	ESTUPLIM	1	integer	mm	Upper tolerance limit for deviation in estimated diameter	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	ESTLOWLIM	1	integer	mm	Lower tolerance limit for deviation in es timated diameter	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	GRADESYS	1	integer	Code	1 = Random grades 2 = Permissible grade/grade combinations Default = 1 if variable missing	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110 *	STEMSPEC	1	integer	1,2,3...	Stem species	0	0	0	0	1	3	3	3	3	0	0	1	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
110 *	STEMSPEC	2	integer	1,2,3...	Type 2 is used from 2nd stem onwards if several stems are saved in the same file. If more than one stem are stored in the same file, the common varaibles could be stored in the beginning of the file. Unique data for every stem starts with var110.	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
111	NUMTREESPC	1	integer	no	Number of tree species	1	1	3	0	2	3	3	3	0	1	3	2	0	0	1	2	0	1	2	1
112	NUMBARKPAR	1	integer	no	Number of bark parameters/tree species: 1...var111_t1. The variable is used together with var113_t1.	2	3	0	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
		2	integer	no	Number of diameter breaks/tree species: 1...var111_t1. The variable is used together with variable 113, type 2 and type 3. (based on German requirements)	2	3	0	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
113	BARKPAR	1	integer	0.01 mm 0.1%%	Bark parameters/tree species (first parameter in 100ths of mm; second in 10ths per mille): 1…var112_t1/1...var111_t1	2	3	0	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
		2	integer	mm	Lower diameter limits/tree species: 2...var112_t2/1...var111_t1 (based on German requirements)	3	3	0	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
		3	integer	0.01 mm	Deduction for double bark thickness/tree species: 1…var112_t2/1…var111_t1 (based on German requirements)	3	3	0	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
		4	long integer	0.00001 degrees	Latitude used in bark function	1	1	0	0	2	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0
*		7	integer	code	Type of bark function per species: 1…var111_t1 1= Function according to var113_t1 2= Function according to var113_t2 & var113_t3 3=Skogforsk 2004, Scots pine 4=Skogforsk 2004, Norway spruce	1	1	0	0	2	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0
114	NUMPAR	1	integer	no	Number of parameters	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
114	NUMPAR	2	integer	no	Number of parameters/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	TAPERCORR	1	integer	mm/m	Taper correction/parameter: 1…var114_t2/1…var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	NUMASST	1	integer	no	Number of price matrices/tree species: 1...var111_t1	1	1	3	0	2	3	3	3	0	1	0	0	0	0	0	2	0	0	2	1
117	NUMDIACL	1	integer	no	Number of diameter classes/price matrices/tree species: 1...var116_t1/...var111_t1	1	1	0	0	0	3	3	3	0	3	0	0	0	0	0	0	0	0	0	1
118	NUMLNGTHCL	1	integer	no	Number of length classes/price matrix/tree species: 1...var116_t1/1...var111_t1	1	1	0	0	0	3	3	3	0	3	0	0	0	0	0	0	0	0	0	1
119	FREEBUCK	1	integer	Code	Code stating if bucking is permissible to any length between min and max limits according to var132_t1 except for those lengths stated in var190_t2. 0 = No; 1 = Yes: 2 = Yes, only for top logs: 1.. var116_t1/ 1... var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
120	TREESPEC	1	string	Text	Name of tree species: 1...var111_t1	2	2	3	0	0	0	0	0	0	1	3	0	0	0	2	2	0	0	2	0
		2	string	Text	Name of tree species	0	0	0	0	3	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0
*		3	string	Code	Tree species code(see Swedish appendix) for tree species/tree species: 1...var111_t1	1	1	3	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
121	ASSTDESCR	1	string	text	Description of assortment/price matrix/tree species: 1...var116_t1/1...var111_t1	2	2	3	0	0	3	3	3	0	1	0	0	0	0	0	2	0	0	2	1
*		2	string	Assortment code	Code/price matrix/tree species: 1...var116_t1/1...var111_t1	1	1	3	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	2	1

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
121	ASSTDSCR	3	string	text	Additional identity description of price matrix/price matrix/ species: 1...var116_t1/1...var111_t1	2	2	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	2	3
*		4	string	yyyymmddhhmmss	Time and date when the ap1-file of the assortment was last saved in the software system of the forest company/ price matrix/tree species: 1…var116_t1/1…var111_t1	3	3	0	0	3	0	0	0	0	3	0	0	0	0	0	3	0	0	0	3
		5	string	text	Additional assortment identification information / price matrix/tree species: 1…var116_t1/1…var111_t1. User-specified codes.	3	3	0	0	3	0	0	0	0	3	0	0	0	0	0	3	0	0	0	3
		6	integer	integer	Unique identification information set automatically in bucking or forwarder computer / price matrix/tree species (compare with var441_t12): 1…var116_t1/1…var111_t1. Must be a unique identity / key for a price matrix, never repeated in the same harvester or forwarder file (pri/prd/stm/apt/prl). Not to be changed by operator.	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
122	NUMSTEMTYPE	1	integer	no	Number of stem types/tree species:1...var111_t1	3	3	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0
123	STEMTYPNUM	1	integer	Code	Stem type number/price matrix/tree species: 1...var116_t1/1...111	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
124	STEMTYPDESCR	1	string	Text	Description of stem type/stem type/tree species: 1...var122_t1/1...var111_t1	3	3	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
124	STEMTYPDESCR	2	string	Code	Code for stem type/stem type/tree species: 1…var122_t1/1…var111_t1. The stem types are described with Finnish PMP-codes: Pine Timber stem type 11. Pulpwood stem type 12 Spruce Timber stem type 21. Pulp wood stem type 22. Birch Timber stem type 31. Pulp wood stem type 32. Other species Aspen Timber stem type 41. Pulp wood stem type 42. Other species timber stem type 61. Other species pulp wood stem type 62	2	1	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0
125	NUMPRODGRP	1	integer	no	Number of product groups/tree species: 1...var111_t1	2	2	0	0	0	0	0	0	0	2	0	3	0	0	0	2	0	0	0	0
126	PRODGRPNUM	1	integer	no	Product group number/price matrix/tree species: 1...var116_t1/1...var111_t1	2	2	0	0	0	0	0	0	0	2	0	3	0	0	0	2	0	0	0	0
127	PRODDESCR	1	string	Text	Description of product/product group/tree species: 1...var125/1...var111_t1	2	2	0	0	0	0	0	0	0	2	0	3	0	0	0	2	0	0	0	0
128	BARKPOINT	1	integer	dm	Distance from root to the center of the zone between rough bark and smooth bark, value/stem. The variable is used for calculation of improved bark measurement.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	DIAGRADLMT	1	integer	mm	Lower diameter limit (last value, var117_t1+1, gives upper diameter limit): 1…var117_t1+1 / 1…var116_t1 / 1...var111_t1	1	1	0	0	0	3	3	3	0	3	0	0	0	0	0	0	0	0	0	1

Var #	Name	Type	Data type	Unit	Description	aprt	aprd	adrf	arep	astm	aapm	afpm	aprm	asti	apri	akal	aktr	apsu	ahks	ainv	aoai	aghd	aspp	aprl	aap1
131	DIACLDES	2	string	text	Diameter class name (free descriptive text)/diameter class/price matrix/tree species: 1..var117_t1/1..var116_t1/1..var111_t1 Primarily for use in Germany where the classes have standardized names	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1
132	LWRLNGTHLMT	1	integer	cm	Lower length limit of length class (last value, var118_t1+1, gives upper length limit): 1...var118_t1+1/1...116/1...var111_t1	1	1	0	0	0	3	3	3	0	3	0	0	0	0	0	0	0	0	0	2
133	DIALIMTYPE	1	integer	Integer	Type of diameter limit/price matrices/tree species: Variable 133 = 0 if the diameter limits in variable 131 refer to diameter under bark. If not, variable 133 = 1. If variable 133 is missing the type will be determined by variable 161: 1...var116_t1/1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	OTHERDIA	1	integer	mm	Minimum top diameter/price matrix/tree species: 1...var116_t1/1...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
		2	Integer	mm	Maximum diameter in the large end of the log per price matrix per tree species: 1...var116_t1/1...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
135	OVERSIZE	1	integer	cm	Additional length margin, can not be a negative number /length class/price matrix/tree species: 1...var118_t1/1...var116_t1/1...var111_t1. Previously named BUCKMARG	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	mm	Extra diameter margin (in addition to general)/diameter class/price matrix/tree species: 1...var117_t1/1...var116_t1/1...var111_t1 Previously named BUCKMARG	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
135	OVERSIZE	3	integer	cm	Lower length limit for "cutting window"/price matrix/tree species. Lower length class limit (var132) and variable 135, type 1 and 3 together, define the length class of a log if lower limit of the cutting window is below lower length class limit:: 1…var116_t1/1…var111_t1.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		4	integer	cm	Upper length limit for "cutting window"/price matrix/tree species. It does not affect length classification of a log. It can not be above lower length class limit (132_t1) nor above lower length limit for the "cutting window" (135_t3), of the next length class: 1…var116_t1/1…var111_t1.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
136	BUCKCRIT	1	integer	Code	Code for bucking criterion/price matrix/tree species: 1...var116_t1/1...var111_t1 0 = Buck always; 1 = Buck never; 2 = Buck butt-log only; 3 = Do not buck butt log (Not normally used when bucking to value. Price & grade determine where and when the log should be bucked.) 4 = Do not include the matrix in the calculation of value when bucking the stem	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		2	Integer	Code	Code for apportionment bucking, stating if apportionment bucking is allowed when this matrix has the highest value /price matrix/tree species: 1...var116_t1/1...var111_t1 Codes: 0 = apportionment bucking allowed 1 = apportionment bucking not allowed	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	BUCKPRI	1	integer	integer	Code of log types/price matrix/tree species: 1...var116_t1/...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
141	GRADE	1	integer	Integer	Grade/price matrix/tree species. 1, 2, 4, 8 etc., where 1 is the highest grade and e.g. 5 indicates grades 1 & 4 apply to the price matrix: 1...var116_t1/1...var111_t1 Always binary number	2	2	0	0	0	3	3	3	0	3	0	0	0	0	0	0	0	0	0	0
		2	integer	integer	Type of grade which extension is determined by a special function as defined in var147-149 (normally automatic sound knot bucking) / tree species: 1...var111_t1 Numeral system defined in var141_t3.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	code	Numeral system used in var141_t2: 1...var111_t1 0=decimal (default if variable is missing), 1=binary	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	NUMGRADUSD	1	integer	no	Number of grades used/tree species: 1…var111_t1 (If the code for the highest grade used is 8 in var141_t1, variable 142 is set to 4, even if code 1 is not used.)	2	2	0	0	2	3	3	3	0	3	0	0	0	0	0	0	0	0	0	0
143 *	GRADDESIG	1	string	Text	Grade desription/grade/tree species: 1…var142_t1/1...var111_t1	2	2	0	0	2	3	3	3	0	3	0	0	0	0	0	0	0	0	0	0
144	INITGRAD	1	integer	Integer	Default grade/tree species when starting to operate the stem in the harvester: 1...var111_t1 Numeral system defined in var144_t2..	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	code	Numeral system used in var144_t1: 1...var111_t1 0=decimal (default if variable is missing), 1=binary	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	TOPTOLER	1	integer	cm	Tolerance of grade break, top/price matrix/tree species: 1...var116_t1/1...var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	BUTTTOLER	1	integer	cm	Tolerance of grade break, butt/price matrix/tree species: 1...var116_t1/1...var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	SOUNDCONST	1	Longinteger	1/1000	Constant for determining the limit for sound knots/tree species (abbreviation "a" in var149_t1): 1...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
148	SOUNDFACT	1	Longinteger	1/100 000 000	Factor for determining the limit for sound knots/tree species (abbreviation "b" in var149_t1): 1...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	Longinteger	1/100 000 000	Factor for determining the limit for sound knots/tree species (abbreviation "c" in var149): 1...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	1/1000	Tolerance for dead knots within calculated limit for sound knot diameter / tree species (abbreviation "d" in var149_t1): 1...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149	FUNCMODE	1	Integer	Code	Codes for type of function used when calculating the diameter (ob) of the sound knot limit/cylinder. Observe that all diameters are over bark. 1: y= (a+bx)*d 2: y = (a + bx +cx2)*d Where: y=factor used for calculating diameter (ob) of sound knot limit, x=DBH, a=var147_t1, b=var148_t1, c=var148_t2, d=var148_t3. The defualt value of d should be 1 (1000 in var148_t3)if var148_t3 is not used. Diameter (ob) of sound knot cylinder = y * DBH (ob)	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151	MARKING	1	integer	Integer	Marking/price matrices/tree species. 1, 2, 3 ...: 1...var116_t1/1...var111_t1 Always binary number	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	Integer	Marking of logs cut with apportionment bucking pulpwood/price matrix/tree species: 1…var116_t1/1...var111_t1 Always binary number.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	LOGMARK	1	integer	Integer	Log marking/diameter class/length class/price matrices/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1 Always binary number	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
155	BASEPRICE	1	integer	currency	Basic price/price matrix/tree species: 1…var116_t1/1…var111_t1 Primarily for use in administrative applications. Price per m3 according to var161_t1.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
156	CORRTYPE	1	integer	code	Type of correction for diametercorrection/price matrix/tree species: 1…var116_t1/1…var111_t1. 0=Absolute, 2=percent, 3=promille Primarily for use in administrative applications.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	code	Type of correction for lengthrcorrection/price matrix/tree species: 1…var116_t1/1…var111_t1. 0=Absolute, 2=percent, 3=promille Primarily for use in administrative applications.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	ROWPRICE	1	integer	number	price/diameter class/price matrix/tree species: 1…var117_t1/1…var116_t1/1…var111_t1 Primarily for use in administrative applications.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
158	NOOFLCORR	1	integer	no	Number of length corrections/price matrix/tree species: 1…var116_t1/1…var111_t1 Primarily for use in administrative applications.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
159	CORRPOS	1	integer	number	The positions of the corrections/number of corrections/price matrix/tree species: 1…var158_t1/1…var116_t1/1…var111_t1. 0 refers to the position before the first diameter class. Primarily for use in administrative applications.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	CORRSERIES	1	integer	number	Length corrections/length classes/number of corrections/price matrix/tree species: 1…var118_t1/1…var158/1…var116_t1/1…var111_t1 Primarily for use in administrative applications.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	dref	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
161 *	PRICECAT	1	integer	code	Price category/price matrix/tree species where 1 = price/m3 (volume by small-end diameter); 2 = price/m3 (solid); 3 = price/log; 4 = price/m3 (Norwegian price category) 5 = price/m3 (Swedish top and butt end measuring); 6 = price/m3 (solid, measured at midpoint, price due to small-end diameter, HKS diameter, German price category) 7 = price/m3 (solid, measured at midpoint, price due to midpoint diameter, HKS diameter, German price category) 8 = price/m3 (solid, measured at midpoint, price due to midpoint diameter, (Danish price category) 9 = price/board feet (American price category) 10 = price/m3 (solid, diameter measured at midpoint, price due to small-end diameter) diameter in mm 11 = price/log (Norwegian price category) 12 = Price/bundled m3 (bulk volume calculated with default diameter and length of the bundle) 13 = price/m3 (Estonian Nilson's volume unit) If the price applies to volumes including bark, add 128 to the price-category number, e.g. m3 (solid o.b.) = 130: 1...var116_t1/1...var111_t1 14 = Price/m3. (optimization based on m3 solid, reporting in m3top). All the codes are described in detail in appendix	1	1	3	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		2	integer	1/100000000	Coefficient a1, used when calculating volume according to code 13 in var161_t1 per species (see var161_t1 in appendix): 1…var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	1/100000000	Coefficient a2, used when calculating volume according to code 13 in var161_t1 per species (see var161_t1 in appendix): 1…var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
161	PRICECAT	4	integer	1/100000000	Coefficient a3, used when calculating volume according to code 13 in var161_t1 per species (see var161_t1 in appendix): 1…var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162	PRICELIST	1	integer	Relative	Price/diameter class/length class/price matrices/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1 Allowed values are from -32767 to +32767	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	Currency	Price/diameter class/length class/price matrices/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1 Allowed values are from -32767 to +32767	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
163	VOLUMETYPE	1	integer	Code	Principle for volume calculation/price matrices/tree species: 1...var116_t1/1...var111_t1 Volume calculation based on: 0 = Bucked length, cm (default in Finland) 1 = Required length as per var132 2 = Bucked random lengths, dm Option 2 is the default if types 2 & 3 are missing or have been assigned a value of zero.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	Module start for volume-based length/price matrices/tree species: 1...var116_t1/1...var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	cm	Module step/price matrices/tree species: 1...var116_t1/1...var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164	DIAMTYPE	1	integer	Code	Principle for registered diameter/price matrices/tree species: 0 = Bucked length, cm (default in Finland) 1 = Required length as per var132 2 = Bucked random lengths, dm 1...var116_t1/1...var111_t1	2	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
164	DIAMTYPE	2	integer	cm	Module-start length for registered (filtered) diameter/price matrix/tree species: 1...var116_t1/1...var111_t1	4	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0
		3	integer	cm	Module step/price matrix/tree species: 1..var116_t1/1..var111_t1	4	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0		0
		4	integer	cm	Distance from log top/price matrix/tree species: 1...var116_t1/1...var111_t1 Type 4 and distance 10 cm are default values if var164 missing	2	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		5	integer	cm	As for type 1 but for unfiltered values	4	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		6	integer	cm	As for type 2 but for unfiltered values	4	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		7	integer	cm	As for type 3 but for unfiltered values	4	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		8	integer	cm	As for type 4 but for unfiltered values	4	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
165	POLELOWLIM	1	integer	mm	Lower limit for butt diameter/length class/price matrix/tree species: 1...var118_t1/1...var116_t1/1...var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
166	POLEUPPLIM	1	integer	mm	Upper limit for butt diameter/length class/price matrix/tree species: 1...var118_t1/1...var116_t1/1...var111_t1 Zero = No diameter requirement	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
167	POLEMEASPT	1	integer	cm	Height above stump of measuring point for butt diameter/price matrix/tree species: 1...var116_t1/1...var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
168	BUTTADD	1	integer	%	Addition of unmeasured butt volume/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
169	DENSITY	1	Integer	kg/m3 solid u.b.	Density in green condition/price matrix/tree species: 1..var116_t1/1..var111_t1	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
		2	Integer	kg/m3 solid o.b.	Density in green condition/price matrix/tree species: 1..var116_t1/1..var111_t1	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
170	BUTTDIAM	1	integer	code	Type of butt end profile extrapolation method. Used for extrapolation of butt end diameter values. Volume calculation of butt end is done according the extrapolated diameters. Method can be chosen separately for each tree species: 1…var111_t1. 0 or no code = machine specific system for extrapolation, 1 = coefficient tables (type 3-7), 2 = function (type 8-12)	0	2	0	0	2	0	0	0	2	2	0	2	0	0	0	0	0	3	0	0
		2	integer	cm	Reference height / tree species: 1…var111_t1. Diameter measurement height from the felling cut point. Normally breast height (130 cm in Finland, 120 cm in Sweden) is used for extrapolation of butt end diameter values.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
		3	integer	no	Number of diameter classes / tree species in extrapolation coefficient table: 1…var111_t1. Measured and classified (rounded to the nearest cm) diameter of the tree at reference height.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
		4	integer	no	Number of distance classes / tree species in extrapolation coefficient table: 1…var111_t1. Distance is the classified distance of the diameter to be extrapolated from the felling cut point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
		5	integer	cm	Diameter class values for the reference height in extrapolation coefficient table / tree species. 1 … var170_t3 / 1…var111_t1. Values can be e.g. 8 – 50 cm in 1 cm intervals: If the measured diameter at reference height is greater than the greatest diameter class, the greatest class is used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
		6	integer	cm	Distance class values (distance from the felling cut) in extrapolation coefficient table / tree species: 1 … var170_t4 / 1…var111_t1. First value is 0 cm and last is the value of the actual reference height in var170_t1 (e.g. 130 cm). Intervals normally 10 cm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
170	BUTTDIAM	7	integer	per mille	Extrapolation coefficient tables: coefficient values (multiplying values) per mille / distance class / diameter class / tree species: 1…var170_t4 / 1 … var170_t3 / 1…var111_t1. Example: Measured diameter at reference height (normally dbh) of stem = 23,3 cm. Distance to extrapolation point = 90 cm. Coefficient value in table at (23, 90) = 1042. Estimated diameter value at 90 cm = 23,3 cm * 1,042 = 24,3 cm (243 mm).	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
*		8	integer	code	Code for type of diameter extrapolation function / tree species (used only if var170_t1 = 2) : 1…var111_t1. 1 = function as described in appendix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
		9	integer	no	Number of parameters of the diameter extrapolation function / tree species: 1…var111_t1. Order according to var170_t8 (appendix)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
		10	string	text	Names of the parameters of the diameter extrapolation function (e.g. a00, a01 …): 1… var170_t9 / 1…var111_t1. Order according to var170_t8 (appendix)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
		11	integer	integer	Integer part of the parameter value, negative values are possible: 1… var170_t9 / 1…var111_t1. Order according to var170_t8 (appendix)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
		12	long integer	1/ 1000000000	Decimal part of the parameter value in 1/1000000000ths (maximum 9 decimals): 1… var170_t9 / 1…var111_t1. Order according to var170_t8 (appendix)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
171	MAXPLPLNGTH	1	integer	cm	Maximum permissible pulpwood length/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172	MINPLPLNGTH	1	integer	cm	Minimum permissible pulpwood length/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173	MAXPLPDIA	1	integer	mm (u.b.)	Maximum permissible dia., u.b., for pulpwood/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
173	MAXDIAMAS	2	integer	mm (o.b.)	Maximum permissible dia., o.b., for pulpwood/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174	MINPLPDIA	1	integer	mm (u.b.)	Minimum permissible dia., u.b., for pulpwood/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	mm (o.b.)	Minimum permissible dia., o.b., for pulpwood/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	MARKPULP	1	integer	no	Marking of pulpwood/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
181	PRICECATPLP	1	integer	Code	Price category for pulpwood/tree species (see var161_t1 for definition of price category): 1...var111_t1	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
182	PULPPRICE	1	integer	Relative	Pulpwood price/tree species: 1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	Currency	(see above)	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
190	MAXLOG	1	Integer	Code	Type of limitation per price matrix and tree species: 1...var116_t1/1...var111_t1 0=No limitation Codes for limitation of production 1= Total number, quantity per price matrix 2= Total volume, m3 per price matrix 3= Number per diameter class per price matrix 4= Volume per diameter class per price matrix 5= Number per length class per price matrix 6= Volume per length class per price matrix 7= Number per cell (log size class) per price matrix and tree species 8= Volume per cell (log size class) per price matrix and tree species "Number" in code 1,3,5 and 7 means "total number of logs".	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

Var #	Name	Type	Data type	Unit	Description	aptd	aprdf	adrep	arestm	asapmm	afpmm	apprmm	astii	aprii	akall	aktrr	apsuu	ahksv	ainvi	aoahd	agshpp	aspprl	apr1a
190	MAXLOG	2	Integer	Limit	Limit according to datatype 1, specified for all cells in all price matrixes for all tree species. 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1 Allowed special values: 0 = No limit -1 = Forbidden to buck the log even manually -2 = The log is excluded from apportionment bucking,only bucking according to value allowed -3 =Only logs bucked manually allowed	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
191	SPECLIST	1	integer	per mille	Relative number of logs/diameter class/length class/price matrix/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1 Allowed values: Integer larger than or equal to zero. (>=0) Desired distribution based on number of cut logs for the whole matrix. The per mille rate is calculated for each price matrix as the denominator.	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	per mille	Relative volume of logs/diameter class/length class/price matrix/tree species. 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1 Allowed values: Integer larger than or equal to zero. (>=0) Desired distribution based on volume of cut logs for the whole matrix. The per mille rate is calculated for each price matrix as the denominator.	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	pieces	Number (quantity) of logs/diameter class/length class/price matrix/tree species: 1..var117_t1/1..var118_t1/1..var116_t1/1..var111_t1. Allowed values: Integer larger than or equal to zero. (>=0) Desired number of logs, based on number of cut logs for the whole matrix.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
191	SPECLIST	4	integer	%	Relative number (percentage) of logs/diameter class/length class/price matrices/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1 Allowed values: Integer larger than or equal to zero. (>=0) Desired length distribution based on number of cut logs for each diameter class. The percentage rate is calculated for each diameter class as the denominator.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		5	integer	m3	Volume/diameter class/length class/price matrix/tree species 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1 Allowed values: Integer larger than or equal to zero. (>=0) Desired volume, based on voume of cut logs for the whole matrix.	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	%	Percentage of volume/diameter class/length class/price matrix/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1 Allowed values: Integer larger than or equal to zero. (>=0) Desired length distribution based on volume of cut logs for each diameter class. The percentage rate is calculated for each diameter class as the denominator.	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		7	integer	code	Codes used in ap1-file for adjusting var162, var191_t4 and var190 when creating apt-file based on BASEPRICE (var155) /diameter class/length class/price matrices/tree species: 1…var117_t1/1…var118_t1/1…var116_t1/1…var111_t1 Codes described in appendix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
192	MAXDEVIAT	1	integer	Currency	Maximum deviation in dimension-apportion ment bucking/price matrix/tree species: 1...var116_t1/1...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	%	Maximum deviation (percentage) in dimension-apportionment bucking/price matrix/tree species: 1...var116_t1/1...var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
192	MAXDEVIAT	3	integer	Currency	Maximum deviation in dimension-apportionment bucking/tree species: 1...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	%	Maximum deviation (percentage) in dimension-apportionment bucking/tree species: 1...var111_t1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	per mille	Maximum deviation (per mille) in dimension-apportionment bucking/price matrix/tree species: 1...var116_t1/1...var111_t1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193	DLNOTALLOW	1	integer	no	Number of diameter and length combinations not allowed/price matrices/tree species: 1...var116_t1/1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
194	DNOTALLOW	1	integer	Integer	Diameter class numbers in combinations which are not allowed/price matrices/tree species: 1...var193_t1/1...var116_t1/1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
195	LNOTALLOW	1	integer	Integer	Length class numbers in combinations which are not allowed/price matrices/tree species: 1...var193_t1/1...var116_t1/1...var111_t1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
196	OVERPROD	1	integer	Code	Action if production target is fulfilled (overproduction according to var190): 1...var116_t1/1...var111_t1 0 = No action (default) 1 = Production is stopped, forbidden to buck logs, only manually bucked logs allowed 2 = Production is stopped, forbidden to buck logs including manual bucking of logs	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

Var #	Name	Type	Data type	Unit	Description	apt	prd	dref	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
197	FROMMATRIX	1	Integer	Code	From matrix: Code 0 = No, 1 = Yes Price matrix for optimal alternative/ price matrix for alternative price matrix/species: 1...var116_t1/1...var116_t1/1...var111_t1 From matrix: A matrix which defines which assortments (price matrixes) are allowed as an alternative to the optimal one for the first log in apportionment bucking in order to fulfill the demands in the apportionment table (var 191).	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
198	APPMETHOD	1	Integer	Code	0 = No apportionment 1 = Adaptive method 2 = Near optimal apportionment	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200	OPTNLTXT	1	string	Text	Variable for inclusion of optional text	4	4	4	4	4	4	4	4	4	0	4	4	4	4	4	3	0	0	0	0
		2	long string	text	Optional free text for sending information to the machine. No changes are allowed in the machine. Maximum 300 characters allowed.	3	3	3	0	3	0	0	0	0	3	0	3	0	0	0	3	0	3	3	0
		3	long string	text	Optional text for sending information from the machine. Maximum 300 characters allowed.	0	3	3	0	3	0	0	0	0	3	0	3	0	0	0	0	0	0	3	0
201	LOGTALLY	1	integer	pieces	Number of logs/diameter class/length class/price matrix/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1...var111_t1	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
202	LOGTALVOL	1	integer	m3	Total volume/diameter class/length class/price matrix/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1... var111_t1 (Price-based volume from var161_t1)	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3sub	Total solid volume under bark/diameter class/length class/price matrix/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1... var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
202	LOGTALVOL	3	integer	m3sob	Total solid volume over bark/diameter class/length class/price matrix/tree species: 1...var117_t1/1...var118_t1/1...var116_t1/1... var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
203	LOGTALLNGTH	1	integer	pieces	Number of logs/length class/price matrix/tree species: 1...var118_t1/1...var116_t1/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
204	LOGTALDIA	1	integer	pieces	Number of logs/diameter class/price matrix/tree species: 1...var117_t1/1...var116_t1/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
211	OPERATOR	1	integer	Id no	Operator name/id, repeated for each stem in ktr- and stm-files	0	4	4	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		2	integer	no	Number of operators	0	2	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0
212	OPERATOR	1	string	text	The name of the operator: 1...var211_t2	0	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0
221	NUMSTEMS	1	integer	pieces	Number of processed (harvested) stems.The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	3	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
		2	integer	pieces	Total number of processed (harvested) stems on a site after the start date (STARTDATE, var16_t4). Never reset during harvesting at a specific site. Used for checking that all files have been included when calculating the total production of a site. The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	pal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
222	NUMSTEMSPCS	1	integer	pieces	Number of processed stems/tree species: 1…var111_t1 The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	pieces	Ditto/stem type/tree species: 1…var122_t1/1…var111_t1 The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	pieces	Numer of stems/sample plot: 1…var651_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
223	NUMSTEMOP	1	integer	pieces	Number of stems/operator/tree species: 1…var211_t2/1…var111_t1 The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	pieces	Number of stems/operator/stem type/tree species: 1…var211_t2/1…var122_t1/1…var111_t1 The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
224	NUMPLPSTMOP	1	integer	pieces	Number of pulpwood stems/operator/tree species (trees comprised entirely of pulpwood): 1…var211_t2/1…var111_t1 The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	pieces	Number of pulpwood stems/tree species: 1…var111_t1 The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
225	NUMSAWLGS	1	integer	pieces	Number of sawlogs/operator/tree species: 1...var211_t2/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	pieces	Number of sawlogs/tree species: 1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
226	NUMPLPLGS	1	integer	pieces	Number of pulpwood logs/operator/tree species: 1...var211_t2/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	pieces	Number of pulpwood logs/tree species: 1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
227	NUMOUTSPEC	1	integer	pieces	Number of logs/meter class/tree species not registered in var201, var242 or var243: 0...25m/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	pieces	Number of pieces/tree species: 1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228	NUMLOAD	1	integer	pieces	Number of loads	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
		2	integer	pieces	Number of loads/operator: 1...var211_t2	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
229	NUMLOADSPCS	1	integer	pieces	Number of loads/tree species: 1...var111_t1	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
229	NUMLOADSPC	2	integer	pieces	Number of loads/operator/tree species: 1...var211_t2/1...var111_t1	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230	NUMBNCH	1	integer	pieces	Number of stem bunches in multi tree felling/tree species: 1...var111_t1 Some type of feller-buncher system used. Species is dependant on first stem in stem bunch.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	pieces	Number of occasion that multi tree processing (several stems delimbed and cross cut simultaneously, logs are length measured) is carried out at the site.	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		3	integer	pieces	Number of occasion that multi tree processing (several stems delimbed and cross cut simultaneously) is carried out at the site per operator: 1…var211_t2	0	2	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		4	integer	no	Number of occasion that multi tree processing (several stems delimbed and cross cut simultaneously, logs are length measured) is carried out. Could also be described as tree bunches. All occasions registered in the current file are to be included.	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		5	integer	pieces	Number of stem bunches in multi tree felling. Some type of feller-buncher system used. All occasions registered in the current file are to be included.	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		6	Integer	pieces	Number of stem bunches in multi tree felling (not processed) /operator/tree species:1...var211_t2/1...var111_t1 Some type of feller-buncher system used.	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	Integer	pieces	Number of multi tree processed stem bunches per tree species: 1...var111_t1 Species dependent on first stem in stem bunch.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	dref	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
230	NUMBUNCH	8	Integer	pieces	Number of multi tree processed stem bunches per operator and tree species: 1...var211_t2/1...var111_t1 Species dependent on first stem in stem bunch	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231	STMSINBNCH	1	integer	pieces	Number of stems in stem bunches in multi tree felling /tree species: 1...var111_t1 Some type of feller-buncher system used. Species is dependant on first stem in stem bunch. All stems must be registered independently of size when carrying out multi tree felling.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	pieces	Number of multi tree processed stems (several stems delimbed and cross cut simultaneously). All stems must be registered independently of size when carrying out multi tree processing.	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		3	integer	pieces	Number of multi tree processed stems (several stems delimbed and cross cut simultaneously) per operator: 1…var211_t2 All stems must be registered independently of size when carrying out multi tree processing.	0	2	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		4	integer	pieces	Number of multi tree processed stems registered as one stem in stm-file (several stems delimbed and cross cut simultaneously). Registered for each stem in stm-file. Variable should always be included if multi tree handling is used. Default value if variable is not included in file is 1, meaning normal processing with one stem being processed at a time. A value of -1 is used if exact number of multi tree handled stems is unknown. All stems must be registered independently of size when carrying out multi tree processing.	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	Integer	pieces	Number of stems in stem bunches in multi tree felling (not processed) per operator and tree species:1...var211_t2/1...var111_t1 Some type of feller-buncher system used. Species dependent on first stem in stem bunch.	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
231	STMSINBNCH	7	Integer	pieces	Number of multi tree processed stems (several stems delimbed and cross cut simultaneously) per tree species: 1...var111_t1 Species dependent on first stem in stem bunch.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		8	Integer	pieces	Number of multi tree processed stems (several stems delimbed and cross cut simultaneously) per operator and tree species: 1...var211_t2/1...var111_t1 Species dependent on first stem in stem bunch	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
232	NUMLGS	1	integer	pieces	Number of logs/price matrix/tree species: 1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	pieces	Ditto/price matrix/stem type/tree species: 1...var116_t1/1...var122_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	pieces	Ditto(measurement)/price matrix/tree species: 1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	pieces	Ditto(control)/price matrix/tree species: 1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	longinteger	pieces	Number of logs/operator/price matrix/tree species: 1..var211_t1/1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	integer	pieces	Number of logs/operator/price matrix/stem type/tree species: 1...var211_t2/1...var116_t1/1...var122_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
233	BOLTPRODGRP	1	integer	pieces	No. Of logs/product group/tree species: 1…var125_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234	METRERUN	1	longinteger	m	Metre run/price matrix/tree species: 1...var116_t1/1...var111_t1 (Requires 4 bytes)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m	Metre run/price matrix/stem type/tree species: 1...var116_t1/1...var122_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
234	METRERUN	3	integer	dm	Ditto(measurement)/price matrix/tree species: 1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	dm	Ditto(control)/price matrix/tree species: 1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	Long integer	cm	Total processed length of the felled trees (from root cut up to the last cut, including unclassified logs)/tree species: 1..var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	integer	m	Metre run/operator/price matrix/stem type/tree species: 1...var211_t2/1...var116_t1/1...var122_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
235	VOLPRODGRP	3	integer	m3 (solid u.b.)	Volume/product group/tree species: 1...var125_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	m3 (solid o.b.)	(see above)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
236	VOLUME	1	integer	m3	Yield volume/price matrix/tree species: 1...var116_t1/1...var111_t1 (volume according to var161_t1)	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3	Yield volume/price matrix/stem type/tree species: 1...var116_t1/1...var122_t1/1...111 (volume according to var161_t1)	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	dm3	Ditto(measurement)/price matrix/tree species: 1...var116_t1/1...var111_t1 (volume according to var161_t1)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	m3	Ditto(control)/price matrix/tree species: 1...var116_t1/1...var111_t1 (volume according to var161_t1)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	m3 (solid u.b.)	Yield volume (m3 solid)/price matrix/stem type/tree species: 1...var116_t1/1...var122_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
236	VOLUME	6	integer	m3 (solid o.b.)	Yield volume (m3 solid)/price matrix/stem type/tree species: 1...var116_t1/1...var122_t1/1...var111_t1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	integer	m3 (solid u.b.)	Yield volume (m3 solid)/operator/price matrix/stem type/tree species: 1...var211_t2/1...var116_t1/1...var122_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		8	integer	m3 (solid o.b.)	Yield volume (m3 solid)/operator/price matrix/stem type/tree species: 1...var211_t2/1...var116_t1/1...var122_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	integer	m3	Yield volume/operator/price matrix/stem type/tree species: 1...var211_t2/1...var116_t1/1...var122_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10	longinteger	m3 (solid u.b.)	Yield volume(m3 solid u.b.)/operator/price matrix/tree species: 1...var211_t2/1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		11	longinteger	m3 (solid o.b.)	Yield volume(m3 solid o.b.)/operator/price matrix/tree speciess: 1...var211_t2/1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
237	MASS	1	long integer	kg	Total mass/weight of loads per species: /1…var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	long integer	kg	Total mass/weight of loads per operator/assortment/species: 1…var211_t2/1…var116_t1/1…var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	long integer	kg	Total mass/weight of loads per assortment/species: 1…var116_t1/1…var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	long integer	kg	Total mass/weight of loads per product group/species: 1…var125_t1/1…var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
238	VALUE	1	integer	Relative	Output value/price matrix/tree species: 1...var1...116/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	Currency	Output value/price matrix/tree species: 1...var1...116/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
238	VALUE	3	integer	Relative	Output value/operator/price matrix/stem type/tree species: 1...var211_t2/1...var116_t1/1...var122_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	Currency	(see above)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
239	APPCOST	1	integer	Relative	Cost of dimension-apportionment bucking/price matrix/tree species: 1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	Currency	Cost of dimension-apportionment bucking/price matrix/tree species: 1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	Relative	Cost of dimension-apportionment bucking/operator/price matrix/stem type/tree species: 1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	Currency	(see above)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	Per mill	Difference in value in dimension-apportionment bucking/tree species: 1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	Currency	Difference in value in dimension-apportionment bucking/tree species: 1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
241	TOTMERCVOL	1	integer	m3 (solid u.b.)	Total merchantable solid volume (excluding price matrixes tagged with var136 code 4, as well as var243 and var244) /operator/tree species: 1...var211_t2/1...var111_t1	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3 (solid o.b.)	(see above)	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	m3 (solid u.b.)	Total merchantable solid volume (excluding price matrixes tagged with var136 code 4, as well as var243 and var244) /stem type/tree species: 1...var122_t1/1...var111_t1	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	m3 (solid o.b.)	(see above)	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	m3 (solid u.b.)	Total merchantable solid volume (excluding price matrixes tagged with var136 code 4, as well as var243 and var244) /tree species: 1...var111_t1	0	3	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
241	TOTMERCVOL	6	integer	m3 (solid o.b.)	(see above)	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
242	PLPVOLUME	1	integer	m3	Pulpwood volume (from var. 181)/operator/tree species: 1...var211_t2/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	m3 (solid u.b.)	Pulpwood volume/operator/tree species: 1...var211_t2/1..var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	m3 (solid o.b.)	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	m3 (solid u.b.)	Pulpwood volume/tree species: 1..var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	m3 (solid o.b.)	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
243	BUTTVOL	1	integer	m3 (solid u.b.)	Volume of butt-offs/tree species (shorter than spec.): 1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3 (solid o.b.)	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	m3 (solid u.b.)	Volume of butt-offs/operator/tree species: 1...var211_t2/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	m3 (solid o.b.)	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
244	OUTSPECVOL	1	integer	m3 (solid u.b.)	Volume of out-of-spec. assortment (excluding butt-offs)/tree species: 1…var111_t1 Only volume from stems included in var221_t1 are registered.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3 (solid o.b.)	(see above)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	m3 (solid u.b.)	Volume of logs/metre class/tree species not recorded in var201, var242 or var243: 0…25m/1…var111_t1 Only volume from stems included in var221_t1 are registered.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	pal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
244	OUTSPECVOL	4	integer	m3 (solid o.b.)	Volume of logs/metre class/tree species not recorded in var201, var242 or var243: 0…25m/1…var111_t1 Only volume from stems included in var221_t1 are registered.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	code	Diameter class type in "Unclassified matrix": 1…var111_t1 Codes: 0=Diameter classes are under bark, 1=Diameter classes are on bark	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	long integer	pieces	Number of "unclassified logs" per fixed diameter and length classes, as well as species: 1…13/ 1…12/ 1…var111_t1 Diameter classes interpreted according to var244_t5 (under bark or on bark) Fixed diameter classes:0, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600+ Fixed length classes:0, 10, 50, 100, 200, 300, 400, 500, 600, 700, 800, 900+ Only volume from stems included in var221_t1 are registered.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	long integer	m3sub	Volume of "unclassified logs" solid under bark per fixed diameter and length classes, as well as species: 1…13/ 1…12/ 1…var111_t1 Diameter classes interpreted according to var244_t5 (under bark or on bark) Fixed diameter classes:0, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600+ Fixed length classes:0, 10, 50, 100, 200, 300, 400, 500, 600, 700, 800, 900+ Only volume from stems included in var221_t1 are registered.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
244	OUTSPECVOL	8	long integer	m3sob	Volume of "unclassified logs" solid on bark per fixed diameter and length classes, as well as species: 1…13/ 1…12/ 1…var111_t1 Diameter classes interpreted according to var244_t5 (under bark or on bark) Fixed diameter classes:0, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600+ Fixed length classes:0, 10, 50, 100, 200, 300, 400, 500, 600, 700, 800, 900+ Only volume from stems included in var221_t1 are registered.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
245	PLPVOL2	1	integer	m3	Volume of grade 2 pulpwood (same details as var242)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	m3 (solid u.b.)	Pulpwood volume/operator/tree species: 1...var211_t2/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	m3 (solid o.b.)	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	m3 (solid u.b.)	Pulpwood volume/tree species: 1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	m3 (solid o.b.)	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
246 *	BUNCHEDPROD	1	integer	m3sob	Total volume over bark of bunched stems in multi tree felling as calculated by harvester/tree species: 1...var111_t1 Some type of feller-buncher system used. Species is dependant on first stem in stem bunch. This volume is to represent estimated merchantable log volumes based on previously single processed stems. Possible calculation methods described in appendix.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3 (ob)	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously). The volume is based on the total diameter (diameter measured as if only one stem is processed).	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
246 *	BUNCHEDPROD	3	integer	m3sob	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) as calculated in harvester (definition in appendix). These volumes are to represent estimated merchantable log volumes based on previously single processed stems. Several different methods allowed as described in appendix.	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		4	integer	m3sub	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) as calculated in harvester (definition in appendix). These volumes are to represent estimated merchantable log volumes based on previously single processed stems. Several different methods allowed as described in appendix.	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	m3(ob)	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) per operator: 1…var211_t2 The volume is based on the total diameter (diameter measured as if only one stem is processed)	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		6	integer	m3sob	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) as calculated in harvester (definition in appendix) per operator: 1…var211_t2 These volumes are to represent estimated merchantable log volumes based on previously single processed stems. Several different methods allowed as described in appendix.	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	aprt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
246 *	BUNCHEDPROD	7	integer	m3sub	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) as calculated in harvester (definition in appendix) per operator: 1…var211_t2 These volumes are to represent estimated merchantable log volumes based on previously single processed stems. Several different methods allowed as described in appendix.	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		8	integer	pieces	Estimated number of logs from multi tree processed stems (number of logs = no of stems * no of cut log bunches, it is assumed that the same number of logs are cut from all stems processed together)	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		9	integer	pieces	Total number of log bunches (equal to no of cross-cuts excluding felling cut) from multi tree processed stems on a site after the start date (STARTDATE, var16_t4). Never reset during harvesting at a specific site.	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		10	integer	pieces	Number of log bunches (equal to no of cross-cuts excluding felling cut) from multi tree processed stems All log bunches registered in the current file are to be included.	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		11	Integer	mm	Estimated average DBH of first felled stem in a bunch in case of Multi tree felling/tree species: 1…var111_t1 Species is also based on first stem.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		12	Integer	mm	Estimated average DBH of first felled stem in a bunch in case of Multi tree processing/tree species: 1…var111_t1 Species is also based on first stem.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
246	BUNCHEDVOL	13	Integer	m3sob	Total volume over bark (stacked) of bunched wood stems in multi tree felling as calculated by harvester/ operator/tree species: 1…var211_t2/1...var111_t1 Some type of feller-buncher system used. Species is dependant on first stem in stem bunch. This volume is to represent estimated merchantable log volumes based on previously single processed stems. Possible calculation methods described in appendix.	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		14	Integer	m3(ob)	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) / operator/tree species: 1…var211_t2/1...var111_t1 The volume is based on the total diameter (diameter measured as if only one stem is processed)	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		15	Integer	m3sob	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) as calculated in harvester (definition in appendix) / operator/tree species: 1…var211_t2/1...var111_t1 These volumes are to represent estimated merchantable log volumes based on previously single processed stems. Several different methods allowed as described in appendix.	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		16	Integer	m3sub	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) as calculated in harvester (definition in appendix) / operator/tree species: 1…var211_t2/1...var111_t1 These volumes are to represent estimated merchantable log volumes based on previously single processed stems. Several different methods allowed as described in appendix.	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		17	Integer	m3(ob)	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) /tree species: 1...var111_t1 The volume is based on the total diameter (diameter measured as if only one stem is processed)	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
246	BUNCHEDVOL	18	Integer	m3sob	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) as calculated in harvester (definition in appendix) / tree species: 1...var111_t1 These volumes are to represent estimated merchantable log volumes based on previously single processed stems. Several different methods allowed as described in appendix.	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		19	Integer	m3sub	Total volume of multi tree processed stems (several stems delimbed and cross cut simultaneously) as calculated in harvester (definition in appendix) /tree species: 1...var111_t1 These volumes are to represent estimated merchantable log volumes based on previously single processed stems. Several different methods allowed as described in appendix.	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		20	Integer	no	Number of log bunches (equal to no of cross-cuts excluding felling cut) from multi tree processed stems / operator/tree species: 1…var211_t2/1…var111_t1 Never reset during harvesting at a specific site.	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		21	Integer	no	Number of log bunches (equal to no of cross-cuts excluding felling cut) from multi tree processed stems /tree species: 1…var111_t1 Never reset during harvesting at a specific site.	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
247	NUMBTOFF	1	integer	no	Number of butt-offs/tree species: 1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	no	Number of butt-offs/operator/tree species: 1...var211_t2/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
248	BTOFFLNGTH	1	integer	m	Butt-off length/tree species: 1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m	Butt-off length/operator/tree species: 1...var211_t2/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
249	TOTALVOL	1	integer	m3 (solid u.b.)	Total solid volume (including price matrixes tagged with var136 code 4, as well as var243 and var244) /operator/tree species: 1..var211_t2/1..var111_t1 Only volume from stems included in var221_t1 are registered.	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3 (solid o.b.)	(see above)	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	m3 (solid u.b.)	Total solid volume (including price matrixes tagged with var136 code 4, as well as var243 and var244) /stem type/tree species: 1..var122_t1/1..var111_t1 Only volume from stems included in var221_t1 are registered.	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	m3 (solid o.b.)	(see above)	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	m3 (solid u.b.)	Total solid volume (including price matrixes tagged with var136 code 4, as well as var243 and var244) /tree species: 1..var111_t1 Only volume from stems included in var221_t1 are registered.	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	m3 (solid o.b.)	(see above)	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250	SAWLGVOL	1	integer	m3 (solid u.b.)	Sawlog volume/tree species: 1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3 (solid o.b.)	(see above)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
251	TOTVOLLNGTH	1	integer	0.1 m3	Total log volume/length class/sawlog assortment/tree species (volume specified as in var161_t1): 1...var118_t1/1...var116_t1/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3	(see above)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
252	TOTVOLDIACL	1	integer	0.1 m3	Total log volume/diameter class/sawlog assortment/tree species (volume specified as in var. 161): 1...var117_t1/1...var116_t1/1...var111_t1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
252	TOTVOLDIACL	2	integer	m3	(see above)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
255	NUMLOGCODES	1	longinteger	pieces	Number of log codes in var256_t1	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		2	Longinteger	pieces	Number of codes for downgrading causes according to var256_t1 (log code 702)	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
		3	integer	pieces	Number of log/bunch codes for multi-tree-processing in var256_t3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
256 *	LOGCODE	1	integer	Code	Code set for measurement data (var257_t1), all the logs follows the definition in var256_t1: 1...var255_t1 See Appendix	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		2	integer	code	Description of downgrading causes according to var256_t1 (log code 702): 1...var255_t2	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
*		3	integer	code	Code set for measurement data (var257_t2). All the multi tree processed logs/bunches follows the definition in var256_t3: 1...var255_t3 See appendix	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
257	LOGDATA	1	longinteger	no	Measurement data in the pri-file for the log: 1…var255_t1/1…var290_t1. Variable 257 should be read until the sign "end of variable". After that, one can use var290_t1 x var255(number of log data) as a control of the correct reading of this variable.	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		2	long integer	no	Measurement data in the pri-file for multi-tree-processed logs /1…var255_t3/1…var246_t10. Variable 257 should be read until the sign "end of variable". After that one can use var246_t10xvar255_t3 (number of log data) as a control of the correct reading of this variable.	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
258	DISTANCE	1	Integer	km	Covered distance	0	3	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	2	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
258	DISTANCE	2	Integer	km	Covered distance/operator: 1...var211_t2	0	3	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	2	0
		3	Integer	km	Covered distance/operator/number of loads: 1...var211_t2/1...var228_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
259	MEANDIST	1	integer	m	Mean forest haulage distance for all price matrixes as estimated by operator.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
		2	integer	m	Mean forest haulage distance for all assortments as estimated by operator / operator: 1…var211_t2.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
261	MISCPROD1	1	integer	no	Miscellaneous production	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
262	MISCPROD2	1	integer	no	Miscellaneous production 2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
264	MISCPROD4	1	integer	no	Miscellaneous production 4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3	(see above)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
265	NUMTRECOD	1	long integer	no	Number of tree codes in var266_t1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		2	integer	no	Number of tree (tree bunch) codes for multi-tree-processing in var266_t2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		3	integer	no	Number of tree (tree bunch) codes for multi-tree-felling in var266_t3. No log bunch data for these stems since no logs are cut.	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
266 *	TREECODE	1	integer	code	Codes set for registered data in var267_t1, all trees follows the definition in this variable:1..var265_t1 See appendix.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
266 *	TREECODE	2	integer	code	Code set for measurement data in var267_t2, all multi tree processed trees follows the definition in this variable:1..var265_t2. See appendix.	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
*		3	integer	code	Codes set for measurement data in var267_t3, all multi tree felled trees follows the definition in this variable:1..var265_t3. See appendix. No log bunch data for these stems since no logs are cut.	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
267	TREEDATA	1	long integer	no	Measurement data in the pri-file for each tree: 1…var265_t1 /1…var221_t1.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		2	integer	no	Measurement data in the pri-file for multi-tree-processed trees (tree bunches) /1…var265_t2/1…var230_t4.	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
		3	integer	no	Measurement data in the pri-file for multi-tree-felled trees (tree bunches) /1…var265_t3/1…var230_t5. No log bunch data for these stems since no logs are cut.	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
269	STEPLNGTH	1	integer	dm	Length of steps between diameter values in the stm-file. Default = 1 dm	0	0	0	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	Length of steps between diameter values in the stm-file.	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
270	STEMNUM	1	integer	1..9999	Number of the stem	0	0	0	0	1	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0
		2	integer	integer	Unique number of randomly sampled stem, used for identifying control stems. Should be 0 (or excluded) if not sampled for control. Possible for operator to reset/set.To be used even if stem is not used for control measuring (rejected according to var38)	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		3	integer	integer	Unique stem identity to be used for all types of stems (independently of whether it is a randomly selected stem or not) in both ktr- and stm-files. Not to be modified by operator. Incremented with each harvested stem. Reset when starting at harvesting object.	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
270	STEMNO	4	integer	integer	Processing order for multi tree handled stems (tree bunch). Incremented with each multi tree processing of stems. Reset when starting at a new harvesting object. Not to be modified by operator. Observe that var270_t4 is not to be used for single processed stems.	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
271	STARTHGHT	1	integer	dm	Height of first registred diameter value	0	0	0	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	Height of first registered diameter value	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		3	integer	cm	Height of first measured, that is not extrapolated, diameter value.	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
272	ENDHGHT	1	integer	dm	Height of last registred diameter value	0	0	0	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	Height of last diameter value	0	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		3	integer	cm	Height of last measuredd, that is not extrapolated, diameter value.	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
273 *	STEMDIA	1	integer	mm (ob)	Diameter at heights defined by variables 269_t2, 271_t2 and 272_t2. Refers to filtered values over bark (representing the actual point of measuring). Extrapolated diameters at butt end are to be registered. Height of first measured diameter must be registered using var271_t3	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
*		2	integer	mm (ob)	Diameter at heights defined by variables 269_t2, 271_t2 and 272_t2. Refers to unfiltered values over bark (see above). Extrapolated diameters at butt end are to be registered. Height of first measured diameter must be registered using var271_t3.	0	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
273 *	STEMDIA	3	integer	mm (ob)	Starting diameter and differences, filtered values over bark (see above). Extrapolated diameters at butt end are to be registered. Height of first measured diameter must be registered using var271_t3	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
*		4	integer	mm (ob)	Starting diameter and differences, unfiltered values over bark (see above). Extrapolated diameters at butt end are to be registered. Height of first measured diameter must be registered using var271_t3	0	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		5	integer	mm	Differential X position of the stem centre point, at heights defined by var273_t7. The first value is the absolute offset from the origin and the following values a snapshot difference from the first value. Var522 is the origin/reference point (x,y,z=0,0,0). X and Y centre points can be considered relative to a local co-ordinate system if no GPS co-ordinates are specified (var522).	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	mm	Differential Y position of the stem centre point, at heights defined by variable 273_t7. The first value is the absolute offset from the origin and the following values a snapshot difference from the first position. Var522 is the origin/reference point (x,y,z=0,0,0). X and Y centre points can be considered relative to a local co-ordinate system if no GPS co-ordinates are specified (var522).	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	pal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
273	STEMDIA	7	integer	mm	Differential Z (height) position of the stem centre point. The values should always be a multiple of the interval specified in var269_t2. The first value is the absolute offset from the origin and the following values a snapshot difference from the first position. Var522 is the origin/reference point (x,y,z=0,0,0). X and Y centre points can be considered relative to a local co-ordinate system if no GPS co-ordinates are specified (var522)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10	integer	mm (ob)	Measured diameters of butt end at heights defined by variables 269_t2 and 271_t3. Refers to filtered values over bark (representing the actual point of measuring). Used only for additional information when extrapolated diameters of butt end are registered in one of types of var273_t1-4. Start at height 0 cm and end at var271_t3. Not measured values registered as 0.	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		11	integer	mm (ob)	Measured diameters of butt end at heights defined by variables 269_t2 and 271_t3. Refers to unfiltered values over bark (representing the actual point of measuring). Used only for additional information when extrapolated diameters of butt end are registered in var273_t1-4. Start at height 0 cm and end at var271_t3. Not measured values registered as 0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		20	integer	mm (ob)	Measured diameters over bark, first unfiltered diameter value from cross measurement with 90 dgrs angle (measured by machine, M1). Diameter at heights defined by variables 269_t2 and 272_t3. Start always at height 0 cm and end at var271_t3. Not measured values registered as 0.	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
273	STEMDIA	21	integer	mm (ob)	Measured diameters over bark, second unfiltered diameter value from cross measurement with 90 dgrs angle (measured by machine, M1). Diameter at heights defined by variables 269_t2 and 272_t3. Start always at height 0 cm and end at var271_t3. Not measured values registered as 0.	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
274	NUMGRADEBR	1	integer	no	Number of grade breaks.	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	no	By calculation automatically generated grade limits	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
275	HGHTGRADBRK	1	integer	cm	Height of grade break. Specifies the height at which the grade starts. 1…var274_t1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	Height of grade break. Specifies the height at which the grade ends. 1...var274_t1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	cm	Height where stem diameter is equal to the diameter of the grade cylinder in var274_t2: 1…var274_t2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
276	GRADE	1	integer	Integer	Grade: 1…var274_t1. The following grade numbers are used: 0, 1, 2, 4 or 8 (pulpwood = 0) Always binary number	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		2	string	Text	Grade description:1...var274_t1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	no	Specification of qualities (from but end) generated automatically by calculation: 1…var274_t2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
277	STARTHGHT2	1	integer	dm	Copy of original value of variable 271. Used if stem profile extrapolated to butt end.	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	(see above)	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
278	ENDHGHT2	1	integer	dm	Copy of original value of variable 272. Used if stem profile extrapolated to top.	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
278	ENDHGHT2	2	integer	cm	(see above)	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
279 *	FORMQUOT	1	integer	%	Form quotient	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
280	LOGREG	1	Integer	Code	1 = Manual registered logs 2 = Automatically registered logs	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
281	DBH	1	integer	mm	Breast height diameter on bark used in calculation of quality limits, measured value. Height of DBH as specified in var500_t1.	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	mm	Breast height diameter on bark used in calculation of quality limits, estimated value. Height of DBH as specified in var500_t2.	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
288	BUCKCODE	1	integer	Code	Code for bucking. 1=Bucking to value 2=Apportionment bucking If the bucking has been done by simulation software add 50 to the code. If the variable 288 is missing, the file will be treated as an old file.	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
289	STEMVALUE	1	integer	Currency	The value of the stem according to the showed bucking alternative.	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
290	NUMLOGS	1	integer	pieces	Number of logs (sawlogs and pulpwood). All logs registered in the current file are to be included.	0	0	0	0	2	0	0	0	3	2	0	2	0	0	0	0	0	0	0	0
		2	integer	pieces	Total number of logs harvested on a site after the start date (STARTDATE, var16_t4). Never reset during harvesting at a specific site. Used for checking that all files have been included when calculating the total production of a site. All logs from the site that are registered in any file are to be included.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
291	TOPDIAOB	1	integer	mm (o.b.)	Top diameter of logs on bark: 1...var290_t1	0	0	0	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
291	TOPDIAOB	3	integer	mm (o.b.)	Top diameter of logs on bark (measured manually by operator, M2): 1...var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		5	integer	mm (o.b.)	Top diameter of logs on bark (measured by machine, M1): 1...var290_t1	0	0	0	0	2	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0
		6	integer	mm (o.b.)	Top diameter of logs on bark (measured by auditor, M3): 1...var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		7	integer	mm (o.b.)	Manually measured top diameters of logs over bark, first unfiltered diameter value from cross measurement (measured manually by operator, M2): 1...var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		8	integer	mm (o.b.)	Manually measured top diameters of logs over bark, second unfiltered diameter value from cross measurement (measured manually by operator, M2): 1...var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		9	integer	mm (o.b.)	Manually measured top diameters of logs over bark, first unfiltered diameter value from cross measurement (measured by auditor, M3): 1...var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		10	integer	mm (o.b.)	Manually measured top diameters of logs over bark, second unfiltered diameter value from cross measurement (measured by auditor M3): 1...var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		11	integer	mm (o.b.)	Measured top diameters of logs over bark, first unfiltered diameter value from cross measurement with 90 dgrs angle(measured by machine, M1): 1...var290_t1	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		12	integer	mm (o.b.)	Measured top diameters of logs over bark, second unfiltered diameter value from cross measurement with 90 dgrs angle (measured by machine, M1): 1...var290_t1	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
292	TOPDIAUB	1	integer	mm (u.b.)	Top diameter of logs under bark: 1...var290_t1	0	0	0	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
		3	integer	mm (u.b.)	Top diameter of logs under bark (manual scaling): 1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
292	TOPDIAUB	5	integer	mm (u.b.)	Top diameter of logs under bark (measured by machine): 1...var290_t1	0	0	0	0	2	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0
293	LOGLNGTH	1	integer	cm	Log length: 1...var290_t1	0	0	0	0	4	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		3	integer	cm	Length of logs, (manual scaling, M2): 1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0
		5	integer	cm	Length of logs, (measured by machine, M1): 1...var290_t1	0	0	0	0	2	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0
		6	integer	cm	Length of logs, (measured by auditor, M3): 1…var290_t1 Log length measured by auditor	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		7	integer	mm	Value of separate length correction of the butt log, in millimeters. Values can be either positive (+) or negative (-). Used for butt end logs only (one value per stem). Only used/registered if separate correction function for butt logs is implemented and used in harvester.	0	0	0	0	2	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0
294	LOGDIACLASS	1	integer	Integer	Registered diameter class of logs: 1...var290_t1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	mm	Lower limit of diameter class: 1...var290_t1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
295	LOGLNGTHCL	1	integer	Integer	Registered length class of logs: 1...var290_t1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	Lower limit of length class: 1...var290_t1	0	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
296	PRICEMATR	1	integer	integer	Registered price matrix/var110 for logs: 1... var290_t1 1... = Price matrix number (positive integer) 0 = Reject -1... = Pulpwood (negative integer if pulpwood specified using variables 181 and 182)	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	text	Description of price matrix: 1...var290_t1	0	0	0	0	2	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0
		3	string	Assortment code	Assortment code (same code as in var121_t2) /log: 1…var290_t1	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
296 *	PRICEMATR	4	integer	code	Type of price catergory per log (same codes as in var161_t1): 1…var290_t1 1 = price/m3 (volume by small-end diameter); 2 = price/m3 (solid); 3 = price/log; 4 = price/m3 (Norwegian price category) 5 = price/m3 (Swedish top and butt end measuring); 6 = price/m3 (solid, measured at midpoint, price due to small-end diameter, HKS diameter, German price category) 7 = price/m3 (solid, measured at midpoint, price due to midpoint diameter, HKS diameter, German price category) 8 = price/m3 (solid, measured at midpoint, price due to midpoint diameter, (Danish price category) 9 = price/board feet (American price category) 10 = price/m3 (solid, diameter measured at midpoint, price due to small-end diameter) diameter in mm 11 = price/log (Norwegian price category) If the price applies to volumes including bark, add 128 to the price-category number, e.g. m3 (solid o.b.) = 130: 1…var116_t1/1…var111_t1 All the codes are described in detail in appendix (var161).	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
297	LOGGRADE	1	integer	Integer	Registered grade of log: 1...var290_t1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
298	LOGSPCS	1	integer	Integer	Registered tree species for logs: 1...var290_t1	0	0	0	0	2	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
299	LOGVOL	1	integer	0.0001 m3	Volume of logs as specified by var296_t4: 1...var290_t1	0	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		2	Integer	0.0001 m3sub	Solid volume of logs under bark: 1...var290_t1	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		3	Integer	0.0001 m3sob	Solid volume of logs on bark, measured by harvester: 1...var290_t1	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
299	LOGVOL	4	integer	0.0001 m3sob	Solid volume of logs on bark based on manual control measurements (M2) with caliper, calculated in caliper or in bucking computer(calculation method specified in var299_t10 and var299_t11): 1…var290_t1 Data used for calculation stored in var291_3, var293_t3, var373_t3, var374_t5 and spp-file (depending on code var299_t11).	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
*		10	integer	code	Type of volume calculation method used for solid volume of logs on bark based on control measurements with caliper (var299_t4) 0 = not defined 1 = cylinder formula, 2 = truncated cone formula, The formulas are described in StanForD Appendix.	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		11	integer	code	Type of diameters used when calculating butt end (first meter of stem from butt end) solid volume on bark, based on control measurements with caliper (var299_t4) 1 = using spp-diameters 2 = using machine measured butt diameters or extrapolated diameters	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
300 *	FORCEDCUT	1	integer	Integer	Automatic/Operator selected cross cut: 1…var290_t1 0 = Automatic bucking 1 = Operator selected due to decay 2 = " " damage 3 = " " crook 4 = " " sweep 5 = " " grade break 6 = " " pulpwood grade 7 = " " top break 9 = " " miscellaneous If the log is bucked outside the normal "cutting window" (Swedish "kapfönster") 50 should be added to the code. If the quality change after the bucking 100 should be added. If the log is unclassified 200 may be added to the code. 10 = Automatic, spinning Indicates that harvester head cannot feed any further (feed rollers spinning) and last log is cut.	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
301	TOTALTIME	1	integer	0.1 h	Total reported time (tenths of an hour)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	Total reported time (hours, minutes)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Total reported time/operator: 1...var211_t2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
303	TOPLNGTH	1	integer	cm	Length of top	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	Estimated length of top	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
304	NUMMARKS	1	integer	no	Number of marks	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
305	MARKING	1	integer	cm or integer	(Start, end, code) 1...var304_t1 Start = Start position measured from butt end End = End position Code 1 = Decay Code 2 = Damage Code 3 = Crook Code 4 = Sweep	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
306	LOGID	1	string	Text	Log ID. e.g. position in stem, Log No., etc.: 1...var290_t1	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		2	integer	integer	Unique log number for randomly sampled stems, used for identifying control logs. Should be 0 (or excluded) if not sampled for control. To be used even if stem is not used for control measuring (rejected according to var38) :1…var290_t1	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
307	VERFDLNGTH	1	integer	cm	Verified length of bolts: 1..var290_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
311 *	EFFECTTIME	1	integer	0.1 h	Effective (Go) time	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		2	string	hhmm	(see above)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		3	integer	0.1 h	Effective (Go) time/operator: 1...v211_t2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		4	string	hhmm	Effective (Go) time/operator: 1...var211_t2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
312 *	G15-time	1	integer	0.1 h	G15-A time (normal machine work)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		2	string	hhmm	(see above)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		3	integer	0.1 h	Effective (G15) time (normal machine work)/operator: 1...var211_t2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		4	string	hhmm	(see above)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
313 *	BYTIME	1	integer	0.1 h	G15-B time (Other machine work)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		2	string	hhmm	(see above)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
313 *	BYTIME	3	integer	0.1 h	G15-B time/operator (Other machine work): 1...var211_t2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		4	string	hhmm	(see above)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
314	MOVETIME	1	integer	0.1 h	Moving time	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Moving time/operator; 1...var211_t2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
315	GTIME	1	long integer	sec	Down-filter-time, maximum time allowed for a down time, if down time is longer it will be recorded in var317. Default value is 900 s (15 min). The value rules the data in var316_t3, code 3 .	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	long integer	sec	Run-filter-time, A Main work time (Processing, Terrain travel, Other work or Road travel), var316_t3, code 3, 10-13, must exceed this filter time in order to be registered as a new Main work time.. Default value is 120 s (2 min). This means e.g. that a run time shorter than this will be considered to be of the same type of time as the previously registered time.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	long integer	sec	Minimum-filter-time: Smallest considered time unit. If any time (run time or down time) is shorter it is considered non-existing. Default value is 15 s. This means for example that a down time shorter than this is included in the E0-time, if longer it will not be included in the E0-time	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	code	Registration of whether drf-file is time or object oriented: 0=time oriented (covers all activities within time interval) 1=object oriented (covers all activities within specific harvesting object)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
316	RUNTIME	1	integer	no	Number of times	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
316	RUNTIME	2	integer	no	Number of times per operator 1…var211_t2	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		3	integer	Code	Type of time (codes described in appendix): 1…var316_t2 / 1…var211_t2 1= Utilized time which is the sum of all down times (var317) and all effective times (E(t)) 2= E0 3= E(t) according to var315_t1, also called Effective work time 4= Engine 5= Loader/linkage 6= Harvesting unit 10 = Processing time according to var315_t1 (subset of Et) 11 = Terrain travel according to var315_t1 (subset of Et) 12 = Other work according to var315_t1 (subset of Et) 13 = Road travel time according to var315_t1 (subset of Et) 14 = Loading of trucks according to var315_t1 (subset of Et) 20 = Processing time according to var315_t1 (subset of E0) 21 = Terrain travel according to var315_t1 (subset of E0) 22 = Other work according to var315_t1 (subset of E0) 23 = Road travel time according to var315_t1 (subset of E0) 24 = Loading of trucks according to var315_t1 (subset of E0) It is permitted to register the same type of time for the same operator several times or register one summed time per type and operator.	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	text	Description of times:1…var316_t2 / 1…var211_t2	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	longinteger	sec	Run time: 1…var316_t2 / 1…var211_t2	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	string	hhhhmmss	Run time: 1…var316_t2 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name		Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
316	RUNTIME		7	integer	no	Number of occasions when times has been registered in var316_t5: 1…var316_t2 / 1…var211_t2 Primarily of interest when summed times are registered in 316_t5 in order to calculate mean values.	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			8	integer	l	Fuel consumption: 1…var316_t2 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			9	integer	km	Covered distance: 1…var316_t2 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
317	IRTIME		1	integer	no	Number of down times	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2	integer	no	Number of down times per operator: 1…var211_t2	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	*		3	integer	code	Type of down times (codes described in appendix): 1…var317_t2 / 1…var211_t2 10 = Repair time 11 = Waiting for repair time 12 = Maintenance 13 = Trailer time 14 = Disturbance It is permitted to register the same type of time for the same operator several times or one summed time per type and operator.	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			4	string	text	Description of down time: 1…var317_t2 / 1…var211_t2	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			5	longinteger	sec	Down time: 1…var317_t2 / 1…var211_t2	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			6	string	Hhhhmmss	Down time: 1…var317_t2 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			7	integer	no	Number of occasions when down times has been registered in var317_t5: 1…var317_t2 / 1…var211_t2 Primarily of interest when summed times are registered in 317_t5	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
318	WORKTIME		1	integer	no	Number of work times (for operating machine)	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2	integer	no	Number of work times for operating machine per operator: 1…var211_t2	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
318	WORKTIME	3	integer	code	Type of working times for operating machine, including meal breaks. Overlapping between operators not allowed: 1…var318_t2 / 1…var211_t2 1= Start time 2= End timer Should always be registered in pairs with Start time first.	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Start / end of work time for operating machine per operator: 1…var318_t2 / 1…var211_t2/	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	no	Number of total work times for operating machine per operator (sum of all times registered in var318_t4): 1…var211_t2	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	long integer	sec	Total work time for operating machine, including meal breaks, per operator (sum of all times registered in var318_t4): 1…var318_t5 / 1…var211_t2	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	string	hhhhmmss	Total work time for operating machine, including meal breaks, per operator (sum of all times registered in var318_t4): 1…var318_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
319	EXTRATIME	1	integer	no	The number of extra times	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	no	Number of extra times per operator: 1…var211_t2	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		3	integer	code	Type of time (codes described in appendix): 1…var319_t2 / 1…var211_t2 1 = Meal break It is permitted to register the same type of time for the same operator several times or the summed time per type and operator	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	text	Description: 1…var319_t2 / 1…var211_t2	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	longinteger	sec	Extra time: 1…var319_t2 / 1…var211_t2	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	string	hhhhmmss	Extra time: 1…var319_t2 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Var #	Name	Type	Data type	Unit	Description	aptd	aprd	adrf	arep	astm	aapm	afpm	aprm	asti	apri	akal	aktr	apsu	ahks	ainv	aoai	aghd	aspp	aprl	aap1
319	EXTRATIME	7	integer	no	Number of occasions when times has been registered in var319_t6: 1…var319_t2 / 1…var211_t2 Primarily of interest when summed times are registered in 319_t5	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
320	SHORTIR	1	integer	no	Number of time intervals for registering short down times. Short down times are <var315_t1 and >var315_t3, meaning that they are included in E(t) (var316_3, code 3) but excluded from E0 (var316_3, code 2)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	sec	Lower time limits for registering short down times per time interval: 1…var320_t1 Time interval normally 60 seconds.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	no	Number of short down times per time interval: 1…var320_t1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
321	DELAYTIME	1	integer	0.1 h	Total delay time	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Total delay time/operator: 1...var211_t2	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
322	REPTIME	1	integer	0.1 h	Repair time	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Total repair time/operator: 1...var211_t2	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
323	WAITREPTIME	1	integer	0.1 h	Time waiting for repairs	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Time waiting for repairs/operator: 1...var211_t2	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	aptt	aprd	adrf	arep	astm	aapm	afpm	aprm	asti	apri	akal	aktr	apsu	ahks	ainv	aoai	aghd	aspp	aprl	aap1
323	WAITREPTIME	4	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
324	MAINTTIME	1	integer	0.1 h	Maintenance time	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Maintenance time/operator: 1...var211_t2	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
325	WRKDELAYTIME	1	integer	0.1 h	Work delay time	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Work delay time/operator: 1...var211_t2	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
326	NONWORKTIME	1	integer	0.1 h	Nonworking time (meal breaks etc.)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Nonworking time/operator: 1...var211_t2	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
327	LOGINTIME	1	integer	no	Number of times för logging in or out	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	no	Number of times for logging in or out per operator: 1…var211_t2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	code	Type of time 1…var327_t2 / 1…var211_t2 1= Start time when logging into the system 2= End timer when logging out of the system	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Start / end time: 1…var327_t2 / 1…var211_t2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
328	TOTWORKTI	1	integer	no	Number of start and end points for working time (normally paid time for employee)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
328	TOTWORKTI	2	integer	no	Number of start and end points for working time (normally paid time for employee) per operator: 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	code	Type of total working time (normally time paid time for employee), including time away from machine and meal breaks. Overlapping between operators allowed. 1…var328_t2 / 1…var211_t2 1= Start time 2= End timer Should always be registered in pairs with Start time first.	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	yyyymmddhhmmss	Start / end time (normally time paid time for employee) per operator: 1…var328_t2 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	no	Number of work times per operator: 1…var211_t2 The sum of this variable should be equal to the total number of all start times (unique code 1) in var328_t3.	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	no	Number of specified work times per operator: 1…var328_t5/1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	integer	code	Work type per specified work time: 1…var328_t6 / 1…var328_t5 / 1…var211_t2 31610=Processing, 31611=Terrain travel, 31612 = Other work, 31613=Roadtravel, 31710=Repair, 31711=Wait. repair, 31712=Maintenance, 31713=Trailer transp., 31714=Disturbance, 31901=Meal break, 31603 = Effective work time (E(t)), 31700 = Down time, 31800 = Other (normally paid) work outside machine	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		8	long integer	sec	Specified work times: 1…var328_t6/1…var328_t5/1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10	integer	m3sob	Total harvested volume over bark per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
328	TOTWORKTI	11	integer	M3sub	Total harvested volume under bark per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		12	integer	no	Total no of harvested stems per specified work time and operator:1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		13	integer	M3sob	Total forwarded volume over bark per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2 Same volume as reported on load code 401 (var446_t1) in prl-file.	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		14	integer	M3sub	Total forwarded volume under bark per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2 Same volume as reported on load code 402 (var446_t1) in prl-file	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		15	integer	kg	Total forwarded mass (green) per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2 Same volume as reported on load code 450 (var446_t1) in prl-file	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		16	integer	m3 loose	Forwarded volume per specified work time and operator , same volume as reported on load code 410 (var446_t1) in prl-file: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		20	string	text	Object identity (identical with var21_t1 in production file) per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		21	string	text	Sub-object identity (identical with var21_t2 in production file) per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		22	string	text	Contract no (identical with var35_t1 in production file) per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
328	TOTWORKTI	23	string	text	Contract no (identical with var35_t2 in production file) per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		24	string	text	Compartment number (identical with var21_t3 in production file) per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		27	string	code/text	Harvesting method, the code is not standardized (identical with var23_t1 in production file) per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2 The operator normally should not need to input any information related to var23 if this variable is included in	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		28	string	text	Harvesting method (identical with var23_t2 in production file) per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		29	integer	ha	Area of the site in hectare (identical with var23_t3 in production file) per specified work time and operator: 1…var328_t6 / 1…var328_t5 / 1…var211_t2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
329	SHIFTDATA	1	integer	no	Number of shifts per operator:1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	yyyymmddhhmmss	Shift start time per operator: 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	string	yyyymmddhhmmss	Shift end time per operator: 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	code	Shift type: 1…var329_t1 / 1…var211_t2 0=not defined,1=morning, 2=day, 3=evening, 4=night. Selected by operator.	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	string	free text	Shift type description: 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	no	Number of sub-shifts per shift : 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
329	SHIFTDATA	7	string	yyyymmddhhmmss	Start time of sub-shift: 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		8	string	yyyymmddhhmmss	End time of sub-shift: 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	integer	code	Work type per sub-shift: 1…var329_t6 / 1…var329_t1 / 1…var211_t2 31610=Processing, 31611=Terrain travel, 31612 = Other work, 31613=Roadtravel, 31710=Repair, 31711=Wait. repair, 31712=Maintenance, 31713=Trailer transp., 31714=Disturbance, 31901=Meal break	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10	string	text	Work type description (se var329_t1) : 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		11	integer	Pieces	Number of harvested stems per species and sub-shift: 1….var111_t1 / 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		12	integer	m3sob	Produced volume on bark per assortment and sub-shift: 1….var116_t1 / 1….var111_t1 / 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		13	integer	m3sub	Produced volume under bark per assortment and sub-shift: 1….var116_t1 / 1….var111_t1 / 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		14	integer	m3	Produced volume per assortment and sub-shift according to price type (var161_t1): 1….var116_t1 / 1….var111_t1 / 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		15	integer	no	Produced number of logs(pcs) per assortment and sub-shift: 1….var116_t1 / 1….var111_t1 / 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		16	integer	dl	Fuel consumption per sub-shift: 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
329	SHIFTDATA	17	integer	m	Driven distance per sub-shift: 1…var329_t6 / 1…var329_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
330	SPECTIME	1	integer	no	Number of specified times per operator: 1…var211_t2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	code	Type of specified time (10=repair, 12 = Maintenance, 14=disturbance): 1…var330_t1 / 1…var211_t2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		3	integer	code	Type of disturbance or unit repaired (codes in appendix): 1…var330_t1 / 1…var211_t2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	long integer	sec	Specified time, the sum of this variable is equal to code 10, 12 and 14 in var317: 1…var330_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	string	hhhhmmss	Specified time, the sum of this variable is equal to code 10, 12 and code 14 in var317: 1…var330_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	string	text	Description, same text as in appendix (see var330_t3) to be used: 1…var330_t1 / 1…var211_t2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	integer	no	Number of occasions when times has been registered in var330_t4: 1…var330_t1 / 1…var211_t2 Primarily of interest when summed times are registered in 330_t4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		8	string	text	Description (free text): 1…var330_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	string	text	Identity of spare part used in case of reparation, other identity in case of maintenance or disturbance: 1…var330_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10	string	yyyymmddhhmmss	Time when reparation/maintenance/disturbance first started: 1…var330_t1 / 1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
330	SPECTIME	11	integer	hours	Total engine time (covering total life time of the engine when the file is generated) when reparation/maintenance/disturbance first started: 1…var330_t1 / 1…var211_t	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
331	REPAUX	1	integer	0.1 h	Repair time on auxiliary unit	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Repair time on auxiliary unit/operator: 1...var211_t2	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
332	WAITREPAUX	1	integer	0.1 h	Time waiting for repair on auxiliary unit	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Waiting repair time on auxiliary unit/operator: 1...var211_t2	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
333	AUXMAINT	1	integer	0.1 h	Maintenance time on auxiliary unit	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 h	Maintenance time on auxiliary unit/operator: 1...var211_t2	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	string	hhmm	(see above)	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
340	STARTTIM	1	string	hhmmss	Start time for processing of a stem	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
341	ENDTIM	1	string	hhmmss	End time for processing of a stem	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	String	ttmmss	End time for processing of a log: 1...var290_t1	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
342	MOVETIM	1	integer	seconds	Moving time	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	seconds	Moving time during processing	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
343	STARTDEL	1	string	hhmmss	Delay start time	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
344	ENDDEL	1	string	hhmmss	Delay end time	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
345	DELCOD	1	integer	-	Delay code (one character)	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
346	BOOMPRO	1	integer	seconds	Boom time during processing	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
347	BOOMNOPRO	1	integer	seconds	Boom time not during processing	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
348	MOVENOPRO	1	integer	seconds	Moving time not during processing	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
349	BOMMOVEPRO	1	integer	seconds	Boom and moving time during processing	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350	BOOMMOVENO	1	integer	seconds	Boom and moving time not during processing	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
360	DIA3M	1	integer	mm	Diameter at height of 3 m (30 dm)	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
361	SAMPLE	1	integer	Integer	Sampling principle for stm files:1 = all stems, 2 = random sample	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		2	integer	no	Sampling interval, fixed	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	no	Sampling interval, random	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		4	Integer	Code	Code stating the type of interval between samples for present species: 1 = Number of stems, (one control stem per frequency according to var361_t3) 2 = Time, (one control stem per machine hour according to var361_t3) 3 = Volume, (one control stem per m3sob according to var361_t3)	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		5	integer	mm (o.b.)	Minimum DBH for randomly selected tree	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
361	SAMPLE	6	integer	no	Log number when operator is notified that the stem has been randomly selected for control purposes. Is to be done when position for cutting of log has been decided but prior to the actual cutting of the log.	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		7	string	Hhmmss	Earliest time when stem is to be randomly selected, used in order to avoid random selection during the dark hours. This variable must be used in ktr-files if a timer exist for turning off random selection.	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		8	string	Hhmmss	Latest time when stem is to be randomly selected, used in order to avoid random selection during the dark hours. This variable must be used in ktr-files if a timer exist for turning off random selection.	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
	*	9	integer	cm	Minimum log length for randomly selected stems. At least one log within a stem must be at least this long if stem is to be selected as a randomly selected control stem. Operator is never notified that it is a control stem until this criterion is met. Criterion in var361_t6 also has to be met before operator is notified. This means that the operator may be notified at a log no higher than set in var361_t6 if var361_t9 is larger than 0. Observe the similarities with var361_t5.	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		20	integer	no	Number of random control stem settings per species, recommendation is the last five settings:1..var111_t1 The order shall be latest setting first.	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		21	integer	no	Sampling interval for randomly selected control stems (for present species): 1…var361_t20/1..var111_t1 Observe that unit depends on code in var321_t22	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	pal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
361	SAMPLE	22	Integer	Code	Code stating the type of interval between samples for present species: 1…var361_t20/1..var111_t1 1 = Number of stems, (one control stem per frequency according to var361_t21) 2 = Time, (one control stem per machine hour according to var361_t21) 3 = Volume, (one control stem per m3sob according to var361_t21)	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		23	integer	mm (o.b.)	Minimum DBH for randomly selected tree: 1…var361_t20/1..var111_t1	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		24	integer	no	Log number when operator is notified that the stem has been randomly selected for control purposes. Is to be done when position for cutting of log has been decided but prior to the actual cutting of the log: 1…var361_t20/1..var111_t1	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		25	string	Hhmmss	Earliest time when stem is to be randomly selected, used in order to avoid random selection during the dark hours: 1…var361_t20/1..var111_t1 This variable must be used in ktr-files if a timer exist for turning off random selection.	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		26	string	Hhmmss	Latest time when stem is to be randomly selected, used in order to avoid random selection during the dark hours: 1…var361_t20/1..var111_t1 This variable must be used in ktr-files if a timer exist for turning off random selection.	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
361 *	SAMPLE	27	integer	cm	Minimum log length for randomly selected stems: 1…var361_t20/1..var111_t1 At least one log within a stem must be at least this long if stem is to be selected as a randomly selected control stem. Operator is never notified that it is a control stem until this criterion is met. Criterion in var361_t6 also has to be met before operator is notified. This means that the operator may be notified at a log no higher than set in var361_t6 if var361_t9 is larger than 0. Observe the similarities with var361_t5.	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		28	string	yyyymmddhhmmss	Date and time when the random control settings were last modified in any way for present species. Making it possible to track changes in the settings of random selection of control stems: 1…var361_t20/1..var111_t1	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
362	LENGTHDED	1	integer	dm	Length deduction:1...var290_t1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	(see above)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
363	DIAMDED	1	integer	cm	Diameter deduction:1...var290_t1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
364	LIMSAMPLE	1	integer	Integer	Limitation during stem sampling, 0 = no limitation, 1 = some limitation	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
365	APPBUCK	1	integer	Integer	The log is bucked using dimension apportionment, 0 = no, 1 = yes:1...var290_t1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
370	DIAERR	1	integer	1/10 mm	Standard deviation of diameter measurement errors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
371	LENGTHERR	1	integer	mm	Standard deviation of length measurement errors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
372	NUMBDIA	1	integer	no	Number of control diameters:1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
372	NUMBDIA	3	integer	no	Number of control diameters for manual measuring (M2) per log: 1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		5	integer	no	Number of control diameters for measuring by machine (M1) per log: 1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0
		7	integer	no	Number of control diameters for measuring by auditor (M3) / log: 1...var290_t1 Usually the same value as in var372_t3 and var372_t5.	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
373	CONTDIA	1	integer	mm	Control diameters: 1…var372_t1/1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		2	integer	mm	Unfiltered diameters: 1…var372_t1/1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		3	integer	mm (o.b.)	Measured control diameters,filtered, measured manually (M2): 1…var372_t3/1...var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		4	integer	mm (o.b.)	Measured control diameters, unfiltered, measured manually (M2): 1…var372_t3/1...var290_t1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		5	integer	mm (o.b.)	Measured control diameters, filtered, measured by machine (M1): 1…var372_t5/1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0
		6	integer	mm (o.b.)	Measured control diameters, unfiltered, measured by machine (M1): 1...var372_t5/1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		7	integer	mm (o.b.)	Measured control diameters, filtered, measured by auditor (M3): 1…var372_t7/1…var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		8	integer	mm (o.b.)	Manually measured control diameters over bark, first unfiltered diameter value from cross measurement, measured manually by operator (M2): 1…var372_t3/1…var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		9	integer	mm (o.b.)	Manually measured control diameters over bark, second unfiltered diameter value from cross measurement, measured manually by operator (M2): 1…var372_t3/1…var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	aptt	aprd	adrf	arep	astm	aapm	afpm	aprm	asti	apri	akal	aktr	apsu	ahks	ainv	aoai	aghd	aspp	aprl	aap1
373	CONTDIA	10	integer	mm (o.b.)	Manually measured control diameters over bark, first unfiltered diameter value from cross measurement, measured by auditor (M3): 1…var372_t7/1…var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		11	integer	mm (o.b.)	Manually measured control diameters over bark, second unfiltered diameter value from cross measurement, measured by auditor (M3): 1…var372_t7/1…var290_t1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		12	integer	mm (o.b.)	Measured control diameters over bark, first unfiltered diameter value from cross measurement with 90 dgrs angle, (measured by machine, M1): 1…var372_t5/1…var290_t1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		13	integer	mm (o.b.)	Measured control diameters over bark, second unfiltered diameter value from cross measurement with 90 dgrs angle, (measured by machine, M1): 1…var372_t5/1…var290_t1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
374	CONTPOS	1	integer	cm	Control position: 1…var372_t1/1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		3	integer	cm	Control position for manual measuring (M2): 1...var372_t3/1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
		5	integer	cm	Control position for measuring by machine (M1), used instead of var374_t3 if that variable is missing: 1…var372_t5/1...var290_t1	0	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0
		7	integer	no	Control position for measuring by auditor (M3), used instead of var374_t3 if var374_t7 exists: 1…var372_t7/1...var290_t1 Usually the same value as in var374_t3 and var374_t5.	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
375	DIACALPTS	1	integer	no	Number of diameter calibration points/tree species: 1...var111_t1	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0
376	DIACALPTS	1	integer	mm	Actual machine-measured diameters/ calibration point/tree species: 1…var375_t1/1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
376	DIACALPTS	2	integer	mm	Actual machine-measured diameters/ calibration point: 1...var375_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
377	DIACALPTS	1	integer	mm	Nominal values of measured diameters/calibration point/tree species: 1...var375_t1/1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
378	ACTLNGTH	1	integer	cm	Actual length/calibration point/tree species: 1...var386_t1/1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		2	integer	cm	Actual length of butt-log trimming/calibration point/tree species: 1...var386_t1/1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		3	integer	cm	Actual length/calibration point: 1...var386_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		4	integer	cm	Actual length of butt-log trimming/calibration point: 1...var386_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
379	NOMLNGTH	1	integer	cm	Nominal length/calibration point/tree species: 1...var386/1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		2	integer	cm	Nominal length of butt-log trimming/calibration point/tree species: 1...var386/1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		3	integer	cm	Nominal length/calibration point: 1...var386	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		4	integer	cm	Nominal length of butt-log trimming/calibration point: 1...var386	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
380	AVRGTRIM	1	integer	cm	Average butt-log trimming allowance/calibration point: 1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		2	integer	cm	Average trimming allowance for other logs/calibration point: 1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
381	NUMDIAMEAS	1	integer	no	User-definable number of precalibration diameter measurements: Baseline calibration	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
381	NUMDIAMEAS	2	integer	no	User-definable number of precalibration diameter measurements: Breakpoint calibration	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
382	STDDEVDIA	1	integer	mm	User-definable standard deviation in diameter	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
383	STDDEVLNGTH	1	integer	cm	User-definable standard deviation in length	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
384	DIAERR	1	integer	mm	User-definable mean error in diameter	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
385	LNGTHERR	1	integer	cm	User-definable mean error in length	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
386	NUMCALLNGTH	1	integer	no	Number of calibration points for length/tree species: 1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		2	integer	no	Number of calibration points for length	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
387	NUMLNGHT	1	integer	no	User-definable number of precalibration length measurements: unit length calibration	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
		2	integer	no	User-definable number of precalibration length measurements: multiple-length calibration	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
390	BLCALLNGTH	1	integer	mm	Baseline value for calibration of length/tree species	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		2	integer	mm	Ditto for butt log	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
391	PCALLNGTH	1	integer	mm	Previous value for calibration of length/tree species	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		2	integer	mm	Ditto for butt log	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
392	CALLNGHT	1	integer	mm	Value for calibration of length/tree species	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
		2	integer	mm	Ditto for butt log	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
393	BLCALDIA	1	integer	mm	Baseline value for calibration of diameter/tree species	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
394	PRECALDIA	1	integer	mm	Previous value for calibration of diameter/tree species: 1...var111_t1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
395	CALDIA	1	integer	mm	Value for calibration of diameter/tree species: 1…var111_t1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
401	NUMREPUNITS	1	integer	no	Number of repair units (e.g. base machine, cab)	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
402	NUMFLTTYP	1	integer	no	Number of fault types/repair unit (e.g. hydrau lics, electrics): 1…var401_t1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
403	NUMFLTTYP	1	integer	no	Number of fault locations/fault type/repair unit (e.g. engine, brakes): 1..var402_t1/1...var401_t1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
411	REPUNITTXT	1	string	Text	Text strings describing repair unit/repair unit: 1...var401_t1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
412	FLTTYPTXT	1	string	rext	Text string describing fault type/fault type/repair unit: 1...var402_t1/1...var401_t1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
413	FLTLOCTXT	1	string	Text	Text string describing fault location/fault location/fault type/repair unit: 1...var403_t1/1...var402_t1/var...401_t1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
418	PART	1	string	Text	Spare part. Four text strings: Action, Name of part, Part number, Remarks.	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
421	REPTIMUNIT	1	integer	0.1 h	Total repair time/repair unit: 1...var401_t1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
422	REPFLTTYP	1	integer	0.1 h	Total repair time/fault type/repair unit: 1...var402_t1/1...var401_t1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	hhmm	(see above)	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
423	REPFLTLOC	1	integer	0.1 h	Total repair time/fault location/fault type/repair unit: 1...var403_t1/1...var402_t1/1...var401_t1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	ttmm	(see above)	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
430	FUEL	1	integer	0.1 l/h	Average fuel consumption for a site per operator, that is the fuel consumption during the time covered by the drf-file: 1…var211_t2 ”h” refers to engine running time	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	0.1 l/h	Average fuel consumption for the site, that is the fuel consumption during the time covered by the drf-file. ”h” refers to engine running time	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	0.1 l/h	Average fuel consumption (over the lifetime of a machine). ”h” refers to engine running time	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	l	Fuel consumption for a site per operator, that is the fuel consumption during the time covered by the drf-file: 1...var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	l	Fuel consumption (during the life time of machine)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
431	ENGTIME	1	string	hours	Total engine time, covering total life time of the engine when the file is generated.	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
440	NUMTRNS	1	integer	no	Number of transport objects in prl-file	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
441	TRNSDESC	1	string	text	Transport object name (free descriptive text): 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
*		2	string	text	Transport object code: 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		3	integer	dgrs	Latitude, integer as 0.00001 degrees, stored according to var521_t1, var521_t2 and var520_t1: 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		4	integer	dgrs	Longitude, integer as 0.00001 degrees, stored according to var521_t1, var521_t2 and var520_t1: 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		5	integer	masl	Altitude, meters above sea level, stored according to var521_t1, var521_t2 and var520_t: 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		6	string	yyyymmddhhmmss	Start date (when transport object is defined): 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
441	TRNSDESC	7	string	yyyymmddhhmmss	Date when transport object is completed, no additional unloading at this transport object is done after this date: 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		8	string	yyyymmddhhmmss	Date when harvesting was carried out, applies to logs unloaded at specific transport object: 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		9	string	text	Free descriptive text for a transport object: 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
		10	Integer	code	Code describing the unit wich was estimated by operator or measured by forwarder (not calculated by machine) per transport object: 1…var440_t1 Codes: 1 =volume, m3sob (load code 401) 2 =volume, m3sub (load code 402) 3 =green mass, kg (load code 450) 4 =no of logs (load code 460) 5 =no of loads (all production data in var447_t1 is calculated) 6 = loose volume, m3 7 = solid volume including bark, branches and needles, m3 8 = solid volume of bundles (length*cross sectional area), m3 9 = number of bundles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		11	Integer	Code	Code describing how forwarder production data (in var447) was generated per transport object: 1…var440_t1 Codes: 0 = Other/unknown 1 = manual estimation by operator 2 = scale 3 = estimation through pri-file (harvester data)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
441	TRNSDSC	12	integer	integer	Unique identification information set automatically in forwarder computer / transport object (compare with var121_t6): 1…440_t1 Must be a unique identity / key for a transport object, never repeated in the same forwarder file (prl). Not to be changed by operator.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		13	string	text	Non standardized codes (free text) for describing forest road condition for each transport object: 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
442	TRNSSORT	1	integer	no	No of price matrixes per transport object: 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		2	string	text	Name of tree species per price matrix and transport object (compare with var120): 1…442_t1 / 1…440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
*		3	string	text	Tree species code(see Swedish appendix) per assortment and transport object (compare with var120): 1…var442_t1 / 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
		4	string	text	Description per price matrix and transport object (compare with var121_t1): 1…var442_t1 / 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
		5	string	text	Price matrix codes per price matrix and transport object (compare with var121_t2): 1…var442_t1 / 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
		6	string	text	Additional identity description of price matrix perprice matrix and transport object (compare with var121_t3): 1…var442_t1 / 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
		7	string	text	Buyer per assortment (compare with var32_t2) : 1…var442_t1 / 1…var440_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
		8	integer	integer	Price matrix number (refers to var121_t6): 1…var442_t1/1…var441_t1/1…var440_t1 To be used instead of var442_t2-7.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
443	NUMLDATA	1	Integer	no	Number of unloading data stored in var447_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
443	NUMLDATA	2	Integer	no	Total number of unloading data registered on a site after the start date (STARTDATE, var16_t4). Never reset during forwarding at a specific site. Used for checking that all files have been included when calculating the total production of a site.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
445	NUMLOADCOD	1	Integer	no	Number of load codes in var446_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
446 *	LOADCODE	1	Integer	code	Codes set for registered data in var447, all loads follow the definition in this variable:1..var445_t1 See appendix.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
447	LOADDATA	1	Integer	no	Measurement data for each unloading: 1…var445_t1/1…var443_t1. Observe that -1 is to be used in var447 if a unit in var446 (load codes 401 – 461) is not relevant. -1 indicates that a certain unit is not used within a certain transport object (nil). Do not mix -1 and values>=0 for a certain volume unit within a certain transport objec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
448	FRWPROD	1	integer	m3sub	Total forwarded volume solid under bark Same volume as reported on load code 402 (var446_t1) in prl-file	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3sob	Total forwarded volume solid on bark Same volume as reported on load code 401 (var446_t1) in prl-file	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	m3sub	Total forwarded volume solid under bark per operator:1…var211_t2 Same volume as reported on load code 402 (var446_t1) in prl-file	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	m3sob	Total forwarded volume solid on bark per operator:1…var211_t2 Same volume as reported on load code 401 (var446_t1) in prl-file	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
448	FRWPROD	5	integer	kg	Total forwarded green mass Same volume as reported on load code 450 (var446_t1) in prl-file	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	integer	kg	Total forwarded green mass per operator:1…var211_t2 Same volume as reported on load code 450 (var446_t1) in prl-file	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	integer	m3 loose	Forwarded loose volumes, same volume as reported on load code 410 (var446_t1) in prl-file	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		8	integer	m3 loose	Forwarded loose volumes per operator, same volume as reported on load code 410 (var446_t1) in prl-file: var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	integer	no	Total number of forwarded loads (also reported on load code 2, var446_t1) in prl-file	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		10	integer	no	Total number of forwarded loads per operator (also reported on load code 2, var446_t1) in prl-file):1…var211_t2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
460	GISFILE	1	integer	no	Number of GIS-files with geographical/layer data (e.g. shp, mif, tif, jpg)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		2	string	text	Name of GIS-files with geographical/layer data (e.g. shp, mif, tif, jpg): 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		3	integer	code	Layer editable in forest machine: 1…var460_t1 0 = true (default), 1 = false False means "Read-only", the operator is only allowed to change the order of the layer and to switch it off (hide).Operator is, for ex, not allowed to change color or positions.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		4	integer	code	Order of layer as presented in GIS application: 1…var460_t1 For example, 1 is the topmost layer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
460	GISFILE	5	integer	code	Layer has been modified in forest machine: 1…var460_t1 0 = not modified, 1 = modified, 2 = new/created Code must be 2 if file was created in forest machine, irrespectively of later modifications.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		6	string	yyyymmddhhmmss	Date of last modification or creation in forest machine: 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		7	integer	code	Type of tracking file created in forest machine: 1…var460_t1 0 = points, 1 = lines, 2 = polygons, 3 = not a tracking file (default if variable is missing) Observe that this information is only registered in the machine.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		8	integer	code	Code specifying whether the file is sent together with ghd-file or not: 1…var460_t1 0 = true, 1 = false (file expected to exist in receiving computer)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		9	string	text	File extension per layer (for example "shp", "mif", "jpg" or "tif") : 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		10	string	text	Unique machine identity for each company used to identify in which machine a certain gis-file was updated/modified per layer: 1…var460_t1 The identity must be identical with var3_t2 in for example prd/prl/pri-files. Gis-files only to be modified in one machine.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
460	GISFILE	11	integer	code	Code describing type of machine to identify in which type of machine a certain gis-file was updated/modified per layer: 1…var460_t1 1=harvester (default if variable is missing) 2=forwarder 3=harwarder, machine which handles both harvesting and forwarding 10 = bundler 20 = scarifier 99=other The code must be identical with var3_t3 in for example prd/prl/pri-files Gis-files only to be modified in one machine.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		12	integer	code	Layer supposed to be used for storing tracking data in machine, only valid if var464_t1 has value 0-2: 1…var460_t1 0 = true (only one layer per ghd-file) 1 = false Observe that this is an instruction sent to the machine from the forest compan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		13	string	free text	Name of gis-layer to be used in user interface instead of file name in var460_t2 : 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		14	long integer	scale 1:X	Max scale per layer : 1…var460_t1 Example, if value is 10000 then max scale for showing present layer is 1:10 000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		15	long integer	scale 1:X	Min scale per layer : 1…var460_t1 Example, if value is 1500 then min scale for showing present layer is 1:1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
461	DBFILE	1	integer	no	Number of files connected to GIS-files with complimentary/theme data (e.g. dbf, tab, dat, shx, tfw): 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
461	DBFILE	2	string	text	Name of files connected to GIS-files with complimentary/theme data (e.g. dbf, tab, dat, shx, tfw): 1…var461_t1/ 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		3	integer	code	File sent together with ghd-file: var461_t1/1…var460_t1 0 = true, 1 = false (file expected to exist in receiving computer)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
462	LAYERDSCR	1	string	text	Column name for name of feature (free text), in files connected to GIS-files with complimentary/theme data (e.g. dbf, tab, dat, shx, tfw) per layer: 1…var460_t1 All applications must be able to present this information in the GIS user interface.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		2	string	text	Column name for unique id (free text) per layer: 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		3	string	text	Column name for description (free text) per layer: 1…var460_t1 All applications ought to be able to present this information in the GIS user interface.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		4	string	text	Column name for treatment (free text) per layer: 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		5	string	text	Column name for marked in terrain, eg. painted borders per layer: 1…var460_t1 Codes: 0 = yes, 1 = no (default)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		6	string	text	Column name for warning (whether machine activities are permitted or not) per layer: 1…var460_t1 Codes: 0 = no warning (default), 1 = warning.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		7	string	text	Column name for warning distance (m) per layer: 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
462	LAYERDSCR	8	string	text	Column name for format class per layer: 1…var460_t1 Used for controlling the appearance of all features included in a specific layer. Format classes defined in var465.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
463	OTHFILE	1	integer	no	Number of other files included with oai/ghd-file (all relevant file types allowed)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
		2	string	text	Name of other files included with oai/ghd-file: 1…var463_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		3	integer	code	File sent together with oai/ghd-file: 1…var463_t1 0 = true, 1 = false (file expected to exist in receiving computer)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
464	TRACKING	1	integer	code	Indicates what type of tracking file is to be generated by the forest machine 0=points, 1=lines, 2=polygons, 3=no tracking file needed (default) Observe that this information is set by forest company.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
465	VISFORM	1	integer	no	Number of format classes per GIS-file: 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		2	string	text	Id/name of format classes: 1…var465_t1/ 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		3	integer	RGB	Color (RGB) per format classes: 1…var465_t1/ 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		4	integer	code	Line style per format class: 1…var465_t1/ 1…var460_t1 0=solid, 1=dash, 2=dot, 3=dash-dot, 4=double solid, 5=hash-line (often railway or power line)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		5	integer	point	Line thickness, no of points, (independently of line style): 1…var465_t1/ 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
465	VISFORM	6	integer	code	Fill style: 1…var465_t1/ 1…var460_t1 0=SolidFill, 1=TransparentFill, 2=HorizontalFill, 3=VerticalFill, 4=UpwardDiagonalFill, 5=DownwardDiagonalFill, 6=CrossFill, 7=DiagonalCrossFill, 8=LightGrayFill, 9=GrayFill, 10=DarkGrayFill, 11=HalfTransparentSolidFill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		7	integer		Symbol number (symbols in font file stored in var466): 1…var465_t1/ 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		8	integer	point	Symbol size: 1…var465_t1/ 1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		9	string	free text	Descriptive name of format class, free text: 1…var465_t1/1…var460_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		20	integer	code	Default format class to be used if no match is found for certain objects (line, point or polygon): 1…var465_t1/ 1…var460_t1 0 = true, 1 = false (only one format class per layer expected to have value 0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		21	string	text	Name of font file used for symbols to be presented in GIS application per format class and layer: 1…var465_t1/ 1…var460_t1 Var466_t1 to be used if this variable is missing or empty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		22	integer	code	Font file sent together with ghd-file per format class and layer: 1…var465_t1/ 1…var460_t1 0 = true, 1 = false (file expected to exist in receiving computer) Var466_t2 to be used if this variable is missing or empty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		23	string	text	Font name used for symbols to be presented in GIS application per format class and layer: 1…var465_t1/ 1…var460_t1 Var466_t3 to be used if this variable is missing or empty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	pal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
466	FONTFILE	1	string	text	Name of font file used for symbols to be presented in GIS application.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		2	integer	code	Font file sent together with ghd-file 0 = true, 1 = false (file expected to exist in receiving computer)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		3	string	text	Font name used for symbols to be presented in GIS application.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
467	GHDINFO	1	integer	code	Specification of where ghd-file was last updated. 0 = not saved in forest machine (that is for example an administrative system at the office), 1 = saved in forest machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
*		2	string	code	Coordinate reference system used for all layers/gis-files, codes according to the EPSG database (http://www.epsg.org/), see also appendix.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
500	DBHHT	1	integer	cm	Height above stump of DBH, when DBH is a measured value (normally 120 cm above stump in Finland and Sweden, 110cm in Norway), per tree	3	3	0	0	3	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0
		2	Integer	cm	Height above stump of DBH, when DBH is a calculated value, per tree species:1...var111_t1	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
501	NUMDBHCL	1	integer	no	Number of dbh classes/tree species: 1…var111_t1	3	3	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0
502	LOWDBHBRK	1	integer	mm	Lower DBH limit on bark/dbh class/tree species: 1…var501_t1/1…var111_t1	3	3	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
503	NUMSTEMDBH	1	integer	pieces	Number of stems/DBH class/tree species: 1…var501_t1/1…var111_t1 The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
		2	integer	pieces	The number of stems that contained one (or more) logs of an assortment /DBH class/price matrix/tree species: 1…var501_t1/1…var116_t1/1…var111_t1 As one stem can contain logs of many assortments, the total number of stems in var503_t2 can not be compared with the total number of stems registered in i.e. var503_t1 or var222_t1. The sum of var503_t2 will in most cases be larger than the sum of var503_t1. The sum of the length of all logs from one stem must be larger than the minimum length of all available price matrixes and the diameter at minimum length, from butt end, must be larger than the minimum diameter in all price matrixes, in order to be registered as a stem.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	pieces	Number of logs, including unclassified logs/DBH-class/tree species: 1…var501_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	pieces	Number of logs/DBH class/price matrix/tree species: 1…var501_t1/1…var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
504	VOLDBHCL	1	integer	m3 (solid u.b.)	Total volume including unclassified assortments, sum of var504 should be equal to sum of var249, /DBH class/tree species: 1…var501_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3 (solid u.b.)	Volume/DBH class/price matrix/tree species: 1...var501_t1/1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
504	VOLDBHCL	3	integer	m3 (solid o.b.)	Total volume including unclassified assortments, sum of var504 should be equal to sum of var249, /DBH class/tree species: 1...var501_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	m3 (solid o.b.)	Volume/ DBH class/price matrix/tree species: 1...var501_t1/1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	integer	m3	Volume, unit according to price matrix/DBH-class /price matrix/tree species: 1...var501_t1/1...var116_t1/1...var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
505	SLDED	1	integer	m3	Sum of length deductions	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
506	SDDED	1	integer	m3	Sum of diameter deductions	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
507	AVRGDBH	1	integer	mm	Arithmetic mean breast height diameter o.b. of the felled trees/tree species: 1..var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
508	LENLOGDB	1	long integer	cm	Processed length up to last cut (meter run) including unclassified logs/DBH-class/tree species: 1..var501_t1/1..var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	cm	Processed length up to last cut (meter run)/DBH-class/ price matrix /tree species: 1..var501_t1/1…var116_t1/1..var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
510	DBHDERDIST	1	integer	cm	Distance from but end to position where diameter is measured for derivation of DBH in variable 500, type 2/tree species:1..var111_t1	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
515 *	BNDLNO	1	Integer	pieces	Total number of bundles per harvesting object	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		2	Integer	pieces	Number of bundles/price matrix/tree species: 1..var116_t1/1…var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		3	Integer	pieces	Number of bundles/operator/price matrix/tree species: 1...var211_t1/1…var116_t1/1…var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
516 *	BNDLDIM	1	Integer	mm	Default diameter of the bundle. All price matrix have the same diameter.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		2	Integer	cm	Default length of the bundle. All price matrix have the same length.	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*		3	Integer	m3	Bundle bulk volume/price matrix/tree species, this is calculated with default diameter (var515_t1) and length (var515_t2): 1…var116_t1/1…var111_t1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
520	COORDREF	1	integer	code	Position of coordinate registration in file: 1= Base machine position 2= Crane tip position when felling the tree (harvester) 3 = Crane tip position when processing the tree (harvester)	0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	3	3	0	2	0
521	COORDTYPE	1	integer	code	1=coordinates stored as a difference from the starting coordinates (COORDSTART var522) 2=absolute coordinates are stored in the file.	0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	3	2	0	2	0
		2	integer	code	Coordinate system used in file: 1=WGS84 (Default)	0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	3	2	0	2	0
522	COORDSTART	1	long integer	0.00001 degrees	Latitude, absolute value, primarily used as reference point in case coordinates in var523, var266, var446 and var441 are stored as relative values. Registered according to var521_t2 and var520_t1.	0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	0	2	0	2	0
		2	integer	code	1=North, 2=South Primarily used as reference point in case coordinates in var523, var266, var446 and var441 are stored as relative values, registered according to var521_t2 and var520_t1.	0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	0	2	0	2	0
		3	long integer	0.00001 degrees	Longitude, absolute value, primarily used as reference point in case coordinates in var523, var266, var446 and var441 are stored as relative values. Registered according to var521_t2 and var520_t1.	0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	0	2	0	2	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
522	COORDSTART	4	integer	code	1=East, 2=West Primarily used as reference point in case coordinates in var523, var266, var446 and var441 are stored as relative values, registered according to var521_t2 and var520_t1.	0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	0	2	0	2	0
		5	integer	meter	Altitude, height above sea level, registered according to var521_t2 and var520_t1. Primarily used as reference point in case coordinates in var523, var266, var446 and var441 are stored as relative values.	0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	0	2	0	2	0
		6	string	yyyymmddhhmmss	Date and time when recording data in var522.	0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	0	2	0	2	0
523	COORD	1	long integer	0.00001 degrees	Latitude, registered according to var521_t1, var521_t2, var520_t1 and var523_t7. When var521_t1 = 1 this variable (var523_t1) is recorded as the difference from var522_t1. Variable excluded when no signal (invalid) is received from the gps.	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	3	2	0	0	0
		2	integer	code	1=North, 2=South The code in var522_t2 is valid for all coordinates if this code is excluded. Variable excluded when no signal (invalid) is received from the gps.	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	3	2	0	0	0
		3	long integer	0.00001 degrees	Longitude, registered according to var521_t1, var521_t2, var520_t1 and var523_t7. When var521_t1 = 1 this variable (var523_t3) is recorded as the difference from var522_t3. Variable excluded when no signal (invalid) is received from the gps.	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	3	2	0	0	0
		4	integer	code	1=East, 2=West The code in var522_t4 is valid for all coordinates if this code is excluded. Variable excluded when no signal (invalid) is received from the gps.	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	3	2	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
523	COORD	5	integer	meter	Altitude, height above sea level, registered according to var521_t1, var521_t2, var520_t1 and var523_t7. When var521_t1 = 1 this variable (var523_t5) is recorded as the difference from var522_t5. Variable excluded when no signal (invalid) is received from the gps.	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	3	2	0	0	0
		6	string	yyyymmddhhmmss	Date and time when coordinates in var523 were recorded Variable excluded when no signal (invalid) is received from the gps.	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	3	2	0	0	0
		7	integer	code	Code for type of object with position according to coordinates in var523, point of measurement is according to var520_t1: 1 = harvested stem (in stm-file) 2 = alarm coordinates (one per harvesting site) Variable excluded when no signal (invalid) is received from the gps.	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	3	2	0	0	0
		8	string	text	Free descriptive text	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
530	NMDSEC	1	integer	no	Number of diameter sections / tree species: 1…var111_t1	1	1	0	0	2	0	0	0	0	0	0	2	0	0	0	3	0	0	0	0
531	DSEC	1	string	text	Description of diameter section / diameter section / tree species: 1…var530_t1 / 1…var111_t1 Descriptions can be free text and are company specific (not standardized).	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
		2	string	text	Code for diameter section / diameter section / tree species: 1… var530_t1 / 1…var111_t1 Codes are company specific.	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
		3	integer	mm	Minimum diameter o.b. of diameter section / diameter section / tree species: 1… var530_t1/1…var111_t1	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
531	DSEC	4	integer	cm	Minimum length of diameter section / diameter section / tree species: 1… var530_t1/1…var111_t1 Value 0 means that minimum length requirement is not in use. The smallest diameter section of a tree species does not have a minimum length requirement. More detailed descriptions can be found in Diameter Sections documents (only in Finnish).	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
		5	integer	text	User code/diameter section/ tree species: 1… var530_t1/1…var111_t1 Diameter section is used either for commercial volume measurement (code 1) or only for buyer's own needs (code 0)	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
532	DSECVOL	1	integer	m3sob	Yield volume (m3 solid o.b., excluding unclassified logs) / diameter section / tree species:1... var530_t1/1…var111_t1. Only volumes according to diameter sections with use code (var531_t5)=1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	integer	m3sob	Yield volume (m3 solid o.b., excluding unclassified logs) /diameter section /price matrix / tree species:1… var530_t1/1...var116_t1/1…var111_t1 Only volumes according to diameter sections with use code (var531_t5)=1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	integer	m3sob	Yield volume (m3 solid o.b., excluding unclassified logs) / diameter section / tree species: 1... var530_t1/1…var111_t1 Volumes according to all diameter sections (use code (var531_t5)=0 or 1)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	integer	m3sob	Yield volume (m3 solid o.b., excluding unclassified logs) /diameter section /price matrix / tree species: 1… var530_t1/1...var116_t1/1…var111_t1. Volumes according to all diameter sections (use code (var531_t5)=0 or 1)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
540	NMDSECST	1	integer	no	Number of diameter sections / stem	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
541	DSECDSCST	1	string	text	Description of each diameter section / stem: 1…var540_t1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	string	text	Code for each diameter section / stem: 1…var540_t1 According to var531_t2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
542	DSECST	1	integer	mm	Registered diameter section limit values (minimum diameters) of diameter sections / stem: 1…var540_t1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
543	DSECHGTST	1	integer	cm	Heights of the registered diameter section limit values of diameter sections / stem. Heights from the butt end (cutting level): 1…var540_t1 The last height should be equal to the height of the top of the last log	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
544	DSECLOGVOL	1	integer	0,0001 m3sob	Volume (m3 solid o.b., excluding unclassified logs) of diameter sections per log: 1…var540_t1/1…var290_t1 Volume of a diameter section which does not exist in a log is 0. Reject pieces have volume 0.	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
601 *	0A	2	longstring	text	German variable: Data describing an object according to description table 1, see Appendix 2.	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
602 *	0B	2	longstring	text	German variable: Data describing an assortment according to description table 2, see Appendix 2.	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
603 *	0C	2	longstring	text	German variable: Data describing a specific log according to description table 3, see Appendix 2.	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
605 *	APTERI	1	string	text	Special variable used by Finnish Apteri-software, described in appendix	3	3	0	0	3	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0
*		2	string	yyyymmddhhmmss	Special variable used by Finnish Apteri-software, described in appendix	3	3	0	0	3	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
651	NUMSPLOT	1	integer	no	Number of sample plots	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
652 *	TREESPC	1	integer	integer	Tree species/number of trees/ sample plot: 1…var222/1…var651_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
653	DBH	1	integer	integer	Breast height diameter/tree/sample plot: 1...var222/1...var651_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
654	NUMHEIGHTS	1	integer	no	Number of tree heights, for total tree, to quality breaks, defects etc./tree/sample plot: 1...var222/1...var651_t1 0=sample tree not measured	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
655 *	HEIGHTCODE	1	integer	integer	Codes for measured heights/height/tree/sample plot: 1... var654/1...var222/1...var651_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
656	HEIGHT	1	integer	integer	Measured height for total tree, to quality breaks, defects etc./height/tree/ sample plot. 1... var654/1...var222/1...var651_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
657	HARVTREE	1	integer	code	Code/tree/sample plot stating whether tree will be left or cut in subsequent harvest operation: 1…var222/1…var651_t1 0= to be removed/harvested (default), 1=to be left, not harvested, 2= to be removed/ harvested in strip road	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
660	STANDAGE	1	Integer	Year	The mean age of the stand.	3	3	0	0	3	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
		2	Integer	Year	Standard deviation for var660_t1.	3	3	0	0	3	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0
670	UNITAREA	1	integer	m2	Area of logging unit.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
671	PLOTAREA	1	integer	m2	Area/sample plot:1...var651_t1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
991	CHECKSUM1	0		(mandatory)	Checksum for file as per checksum 1 in Kermit protocol. This is mandatory for data transfer using Kermit.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0
992	CHECKSUM2	0			Checksum as per checksum 2 in Kermit	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	3	0

*) se Appendix

Var #	Name	Type	Data type	Unit	Description	apt	prd	drf	rep	stm	apm	fpm	prm	sti	pri	kal	ktr	psu	hks	inv	oai	ghd	spp	prl	ap1
993	CHECKSUM3	0			Checksum as per checksum 3 in Kermit	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	3	0