

Statistics on light utility vehicles (LUV)

Experiences in Switzerland

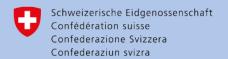






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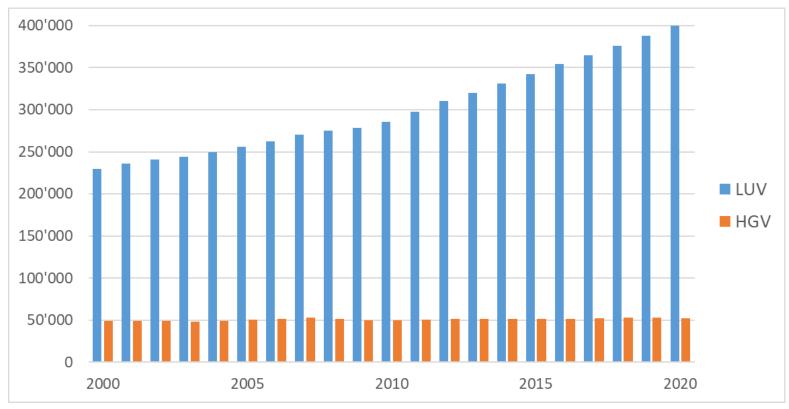


1. Relevance

- LUV responsible for twice the kilometre performance compared to heavy goods vehicles (HGV)
- Number of LUV has increased by 74% since 2000, HGV only by 6%
- Data needed for transport policy and transport planning (city logistics, potential substitution of HGV, greenhouse gas emissions, traffic modelling, etc.)



Number of LUV and HGV registered in Switzerland





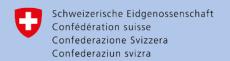
2. Definitions

- Vans and road tractors with a maximum permissible laden weight of no more than 3.5 tonnes
- No ban on driving at night and on Sundays, no special regulations for drivers
- Used also for other purposes than goods transport (e.g. business trips by craftsmen, private use)



3. 2013 Survey

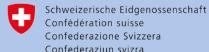
- First time since 1998, next scheduled for 2023
- Population: LUV registered in Switzerland
- Sample size: 70 000 LUV (22% of total)
- Survey period: 56 days distributed over 2013
- Data collection: paper and online questionnaire
- Mandatory for business use, voluntary for private use





3.1 Data collected

- Data on owner: private or business, type of activity (NACE)
- Data on vehicle: technical information (from vehicle register), kilometres during reference day
- Data on journey: purpose, origin/destination, empty journies
- Data on goods: type, weight, transport distance



Bundesamt für Statistik BFS Office fédéral de la statistique OFS Ufficio federale di statistica UST Uffizi federal da statistica UST





le véhicule et le jour de référence

Kästchen ein.

Fahrzeug / Véhicula / Vaicale

278 FR

Veuillez remplir le questionnaire pour

Veuillez utiliser un stylo à bille bleu ou noir et inscrire les chiffres de manière lisible dans les cases prévues. Veuillez aligner les chiffres à droite et les inscrire bien à l'intérieur des cases.

278 FR

Vi preghiamo di compilare il questionario per il veicolo e il giorno di riferimento indicati qui sotto. Grazie della collaborazione!

Typ / type / tipo 1

www.esurvey.admin.ch/elwe

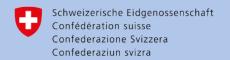
Compilare il questionario con una penna a biro nera o blu e iscrivere le cifre nelle caselle previste a tale scopo. Allineare correttamente le cifre a destra e annotarle chiaramente all'interno delle caselle. 278 FR

Informationsdienst / Service de renseignement / Servizio d'informazione: 0800 00 18 10

Stamm-Nummer Nº matricule N. di matricola	Vehicle details (preprinted)
Fahrzeughalter /	Détenteur du véhicule / Detentore del veicolo
Privat Privé Privato	Geschäftlich UID – Nr. des Betriebs (neue MWST-Nummer) Professionnel IDE – M' de l'estrancée (nouseau numéro TVA) tero IVA) CHE – C
Kontaktperson / Per	Vehicle owner
Telefon / Téléphone /	Telefono
E-Mail	
jour d'utilisation (indic Il questionario è da rie in questo giorno, com di riferimento (indican Falls kein Einsatz am 14 Tagen, bitte Grund Si pas en service le jo suivants, veuillez indi Se non in servicio il gi	empire per il giorno di riferimento summenzionato. Se il veicolo non è in servizio pipiare il formulario per il primo giorno d'utilizzo nell'arco di 14 giorni dopo il giorno e a destra la data). Stichtag und in den darauffolgenden angeben (Wegleitung Selte 2) uru de riference et durant les 14 jours quare la mison (instructions page 2) iorno di riferimento e nei 14 giorni il motivo (iestruzioni pagina 2)
	bitte wenden / tournez la page, a.v.p. / voltare pagina, p.f.

Gefahrene Ki	ilometer / Kilomètres parcourus / Chilometr	ri percorsi ③					
Km-Stand am Morgen des Stichtags (0 Uhr) Kilométrage le matin du jour de référence (0 heure) Chilométrage i i mattin del giorne di rifferimente (ore 0) Km-Stand am Abend des Stichtags (24 Uhr) Kilométrage le soir du jour de référence (24 heuree) Chilometraggiq							
Total am Sticht Total pour le jo Totale per il git							
Davon Nachtperiode Dornt de nuit Di cui di notte							
Davon im Ausla	and / Dont à l'étranger / Di cui all'estero	L L km					
War das Fahrzeug am Stichtag mit einem Anhänger unterwegs? Le véhicule <u>a-t-il circulé avec une remorque le jour de référence?</u> Il veicolo h							
Data on trailer Sassiges Gesamtgewicht des Anhängers ide total autorie de la remorque so totale ammesso del rimorchio							
nein / non /	/ no						
Utilisation du	satz am Stichtag (mehrere Antworten möglich) u véhicule le jour de référence (plusieurs répons reicolo il giorno di riferimento (più risposte poss						
Güterhansport Transport de marchandiose Trasportod i merci							
Dienstleistung / Service / Montage (z. B. Handwerker) Service / Reparation / Travaux d'installation (par ex. ouvrier/monteur) Servicio / Riparazion / Installazione (pa. ex. operaio/montatore)							
Leerfahrt / Mobile Arbeitsstätte (z.B. Mecowagen) Pa Pe							
Purpose of journey							
Vermietung Location Noleggio							
Private Nutzung Utilisation privee Utilizo private							
Aut	lerer Zweck, bitte umschreiben re motif, veuillez préciser o motivo, precisare per favore						
	nn Sie insgesamt mehr als 50 kg ter transportiert haben:	Gewicht aller im Fahrzeug transportierter Güter am Stichtag (bitte nur 1 Feld anfanzen) Poids de bucke les marchendiese transportiese dans le vehicule le jour de référence (veuillez oocher seulement 1 case)					
	vous avez transporté au total is de 50 kg de marchandises:	Peso di tutte le merci trasportate dal veicolo il giorno di riferimento (vi preghiamo di segnare 1 casella) mehr als / plus de / plui di					
	avete trasportato in totale più 50 kg di merci:	51–150 kg 501–1000 kg 3000 kg 3000 kg 300-500 kg 2001–3000 kg 3000 kg					
		au - sou ng					

	Transportierte Güter / Marchandises transportées / Merci trasportate								
	Normale Transporte / Transports normaux / Trasporti normali								
	Güter / Marchandise / Merce			Von / De / Da		Nach / À / A			
				45/ <u>F524</u> km			(4)		42 <mark>7524</mark> km
•	Warengruppe (Wegleitung S. 9) Groupe de marchandises (instructions p. 9) Gruppo di merci (istuzioni p. 9)	Warrengewicht Puids de la merchandise Peso della merce	Falls Getahrgut, Code (Wegertung S.10) Si marchandise dangerense; code (first; p.10) Se merci periodiose; codice (stružoni p.10)	Falls im Ausland: Kurzzeichen Staat Si à l'étranger: sigle du pays Se all 'éstero: sigla dello Stato	P1Z NPA NPA	Knr-Stand Klonetrage Chilometraggio	Falls im Ausland: Kurzzeichen Staat Si å l'etranger: sigle du pays Se all'estero: sigla dello Stato	P1.Z NPA NPA NPA	Knr-Stand Klometrage Chiometraggio
		kg							
	Data on transport (only detailed questionnaire): type of goods, weight, postal codes of origin and destination, odometer readings								
•									
	Bemerkungen / remarques / osservazioni								
	Wurde eine Fahrt / Tour am Stichtag begonnen und erst nach Mitternacht beendet? Un parcours a-t-il commencé le jour de référence et s'est-il terminé après minuit? Un viaggio è iniziato il giomo di riferimento e si è concluso dopo mezzanotte?								
	ja/c	Km-Stand ar out / st Kilométrage Chilometrage	à la fin du de	ernier parcou	rs	427524 km			
	nein	/non/no							





3.2 Double survey

- For HGV, comprehensive kilometre data are available from heavy vehicle fee (→ calibration), vans exempt
- Completing the questionnaire takes more time for vehicles with many trips
 → potential bias
- Part of the sample receives a simple questionnaire where completion time is independent of number of basic transport operations → base for calibration



3.3 Stratification

	Vehicle type	Population size / Sample rate	Characteristics	
6-0	Light road tractor	2000 / 100%	Used for goods transport, kilometre data from heavy vehicle fee available for calibration	
	Van with permissible laden weight of 3.5t	95 000 / 22%	Typically used for goods transport	
	Van with permissible laden weight < 3.5t	224 000 / 22%	Typically used for other purposes	



4. Response burden

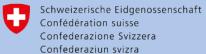
Measures were taken to limit response burden as much as possible:

- Sample survey every 10 years, data for one day only per selected vehicle
- Use of existing data from vehicle register
- Careful consideration of effort and benefit (important variables only)
- Simplified filling for local distribution journeys
- Online questionnaire as an alternative to the paper form



5. Conclusions and results

- Response rate satisfactory in the 2013 survey (>70%)
- Only 8% answered online compared to 15% in HGV survey
- LUV show other characteristics than HGV sector
- Plausible results, in line with the simple estimation model → 10 year interval considered sufficient
- 2023 survey in preparation, similar to 2013 with some improvements





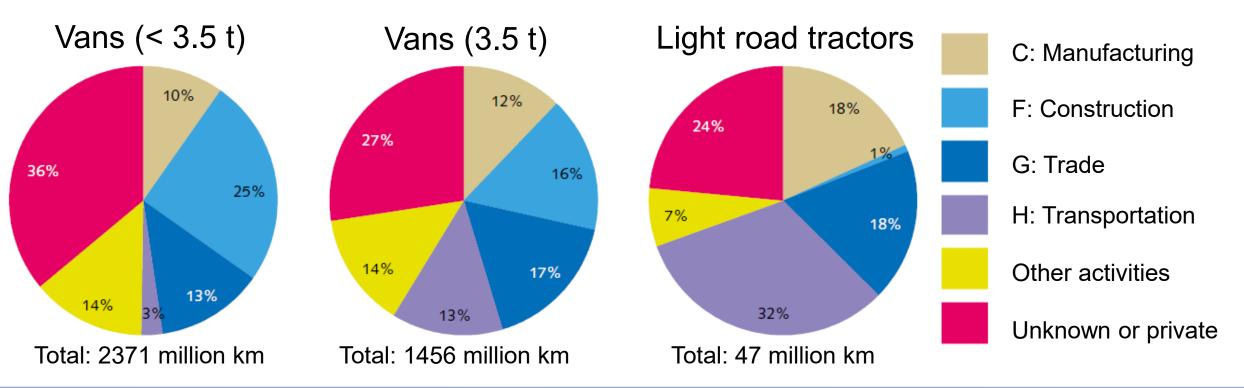
Comparison between LUV and HGV

Year 2013	Swiss LUV	Swiss HGV
Total kilometres*	3.9 billion	1.7 billion
Total tonne-kilometres*	0.9 billion	10.9 billion
Average loading weight	0.2 tonnes	6.3 tonnes
Average transport distance	33 km	37 km

^{*}on Swiss territory

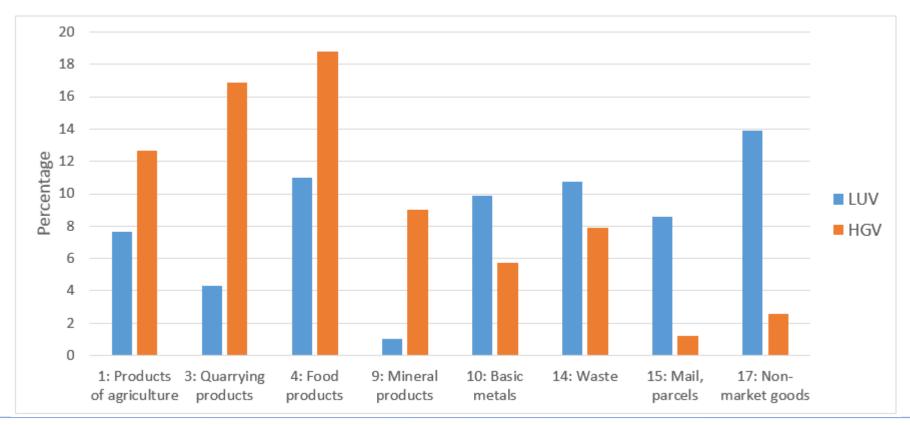


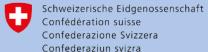
Kilometre performance of LUV by NACE, 2013





Transport performance shares of LUV and HGV by type of goods, 2013







Thank you for your attention!

You can find data on road freight transport on our website in German, French and partially in Italian and English:

https://www.bfs.admin.ch/bfs/fr/home/statistiques/mobilite-transports/transport-marchandises.html

Survey on LUV: https://www.bfs.admin.ch/bfs/fr/home/statistiques/mobilite-transports/enquetes/lwe.html

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