

EU Labour Force Survey
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Setup for Importing the Anonymised Yearly Data Sets for 1983-2021

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I. Overview

The following information will help you to import the EU Labour Force Survey (EU-LFS) 1983-2021 yearly data. The data you received from Eurostat are formatted as comma separated values (csv). With the routines provided by GESIS's German Microdata Lab, these data can be converted into SPSS and Stata.

The routines to convert the data into SPSS or Stata consist of a setup and a label syntax. The setup is year-specific from 2005 onwards, and universal for the years before. The label syntax is universal for all years. For the years from 2006 to 2021, an additional recoding syntax for a core set of variables is additionally required:

Year	Setup (.sps/.do)	Recoding Syntax (.sps/.do)	Label Syntax (.sps/.do)
2006-2021	Setup_EULFS_2021_y Setup_EULFS_2020_y ... Setup_EULFS_2007_y Setup_EULFS_2006_y	RecodeVar_EULFS_2006-2021	Labels_EULFS_1983-2021
2005	Setup_EULFS_2005_y	-	
1983-2004	Setup_EULFS_1983-2004_y		

To get the routines running, you just need to configure the setup. After you have specified all relevant paths and the csv data to be read, everything else runs automatically.

The routines achieve the following objectives:

- Transformation of EU-LFS data from csv into sav (SPSS) and into dta (Stata)
- Recoding of alphanumeric variables into numeric variables
- Recoding of missing values
- Assigning a release variable (RELEASE)
- Definition of variable and value labels (by executing the label syntax)

For a first check of the converted data, you can compare the number of cases per country with the number of cases listed in Table 1 (see below). Consistent numbers indicate that the execution of the setup was successful.

II. Explanatory notes on the recoding of alphanumeric variables into numeric variables

– QUARTER, QHHNUM

QUARTER has only one value, and QHHNUM has a large number of values. Thus, they remain alphanumeric.

– COUNTRY

Compared to previous data releases, the alphanumerical code for Greece has changed from "GR" to "EL". Thus, the numerical codes for COUNTRY have changed as well.

– COUNTRYW, AHM2021_HATCNTR

Alphanumeric country codes in the LFS are based on the ISO 3166 alpha-2 code.¹ Exceptions are Greece, which is coded as EL (instead of GR in ISO), and the United Kingdom, which is coded as UK (instead of GB in ISO).

Numeric country codes are assigned according to ISO as well.² For Kosovo, which has no numeric ISO code yet, we assigned code 899.

In some countries, the coding of COUNTRYW and AHM2021_HATCNTR is different. In these countries, COUNTRYW and AHM2021_HATCNTR are aggregated in the same way as CITIZENSHIP and COUNTRYB (see User Guide, Version February 2023, p.99, p.101).

– REGION_2D, REGION_2DW

The values of these variables have country-specific meanings (according to the NUTS classification).³ That is why they are attached to the consequent country variables (COUNTRY, COUNTRYW). The new codes consist of 4 digits: Digits 1 and 2 are similar to the (alphanumeric) codification of COUNTRY/W, digits 3 and 4 are similar to the original codification of REGION_2D/W.

¹ https://ec.europa.eu/eurostat/statistics-explained/index.php?title=EU_labour_force_survey_-_documentation#Classifications

² e.g., https://en.wikipedia.org/wiki/ISO_3166-1

³ https://ec.europa.eu/eurostat/statistics-explained/index.php?title=EU_labour_force_survey_-_documentation#Coding_lists.2C_explanatory_notes_and_classifications_used_over_time

Where COUNTRYW is aggregated in pre-IESS codes, the digits 1 and 2 of REGION_2DW have the following meaning:

01 European Union (EU15)	09 South America
02 Other European Economic Area	10 East Asia
03 Other Central and Eastern Europe	11 Near and Middle East
04 Other Europe	12 South and Southeast Asia
05 North Africa	13 Australia, Oceania and other territories
06 Other Africa	14 Other or stateless
07 North America	15 EU acceding countries
08 Central America and Carribean	

– YEARESID

In the range from 0 to 9 years, YEARESID is provided in single years. Exceptions are Malta and Slovenia, where all values up to 74 are aggregated to 5-year bands (see User Guide, Version February 2023, p. 99). This is documented in the appropriate value labels.

III. Explanatory notes on the recoding of missing values

Coding standard for missing values:

<i>in SPSS and Stata</i>	<i>in Stata (optional)</i>	<i>Labels</i>
-1	.a	"Not stated" or "No answer"
-2	.b	"Not applicable"
-3	.c	"Not available"
-4	.d	"Not specified"
-5	.e	"Otherwise" in exceptional cases (only LEAVCLAS and DURUNE)

In SPSS these missing values are declared as user missing values.

The Code -3/.c for "Not available" is assigned, if a variable has no valid cases in a country. Some of these variables have only system missings (i.e., blanks) in the raw data of the respective country, others have only cases with "Not stated" and/or "Not applicable".

Please note:

Optionally, missing values in Stata can be encoded as the extended missing values .a, .b, .c, etc. by reinserting the block "Declare User-Missing Values" at the end of the respective setup.

Specifics and exceptions:

– AGE

There are missing values for AGE in some countries. They were manually recoded to -3 for "Not available".

– HHPERS

Other than stated in the User Guide (Version February 2023, p. 86), there are missing values for HHPERS. In analogy to the other derived variables at household level, they were recoded to -4 for "Not specified".

IV. Remarks on particularities

Note that the weighting factors (COEFFY, COEFFMOD, COEFFHH, COEFFHHAVG and COEFF2Y) can be zero or missing. This is correct and can be used to select the (sub)samples for the analysis of quarterly, annual, biennial, module and household variables (see "Information note on the use of the 2022 release of EU LFS scientific use files" you received together with the csv data from Eurostat).

In addition, some variables contain system missing values in various countries and years that should not exist (according to the User Guide). These system missing values are not changed in the setups and remain in the converted data. Table 2 gives an overview of their frequency.

The variable HHTYPE contains the unknown value 4 in the Italian data from 1983 to 1991, which is not mentioned in the User Guide and thus not labeled.

The maximum value of AGE in the data from 1983 to 1997 is 99. Presumably, this value also covers those who are older than 99, but it's not entirely certain. Therefore code 99 is not labeled accordingly. The same is true for AGE_GRP, where the highest value in the data from 1983 to 1997 is 97, representing the age group 95 to 99. Again, this value probably includes older persons.

V. Classifications

For information on the classifications used in the EU-LFS, see

https://ec.europa.eu/eurostat/statistics-explained/index.php?title=EU_labour_force_survey_-_documentation#Classifications

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Table 1: Number of cases per country, EU-LFS yearly data^a

Country	N (without selection)								
	2021	2020	2019	2018	2017	2016	2015	2014	2013
01 AT Austria	173,644	177,134	175,752	175,522	178,493	176,995	173,449	176,794	180,459
02 BE Belgium	37,807	40,117	47,558	43,637	47,153	98,568	96,561	102,316	96,519
03 BG Bulgaria	31,418	31,495	34,092	34,128	32,064	35,309	31,453	33,846	33,240
04 CH Switzerland	68,668	63,199	60,822	64,727	63,495	62,732	66,608	68,892	71,705
05 CY Cyprus	37,798	38,182	38,571	39,757	40,653	40,462	39,868	40,320	42,480
06 CZ Czechia	37,406	35,059	39,554	39,823	40,993	41,455	42,214	42,010	42,868
07 DE Germany	179,815	136,433	522,050	520,831	524,974	508,257	473,205	467,674	467,106
08 DK Denmark	118,946	125,496	127,819	129,411	126,558	129,238	139,813	142,222	143,253
09 EE Estonia	29,207	30,242	28,662	28,496	27,560	24,115	23,659	24,230	24,219
10 EL Greece	26,642	199,304	224,220	239,204	247,680	249,731	232,211	237,701	245,180
11 ES Spain	94,390	100,494	105,056	103,237	103,659	104,966	111,218	111,022	111,056
12 FI Finland	38,473	44,887	46,149	47,452	49,516	50,934	51,956	52,918	53,109
13 FR France	66,258	120,446	504,192	515,902	521,570	532,338	526,976	529,032	479,889
14 HR Croatia	38,156	35,097	35,571	37,034	32,475	32,537	38,206	37,406	35,784
15 HU Hungary	225,007	198,478	205,026	213,745	226,927	234,165	245,064	255,230	259,318
16 IE Ireland	22,079	127,067	148,211	144,319	153,386	170,246	192,293	208,574	209,237
17 IS Iceland	-	12,844	12,044	12,797	10,443	11,179	11,839	12,033	12,384
18 IT Italy	499,004	547,272	573,965	579,869	581,449	584,571	597,872	604,580	611,255
19 LT Lithuania	50,134	51,673	57,459	59,928	59,136	56,015	56,504	59,789	61,126
20 LU Luxembourg	23,228	18,719	30,868	27,936	29,616	31,225	27,703	13,734	16,042
21 LV Latvia	9,153	9,032	9,475	17,322	18,078	41,070	41,362	42,685	39,011
22 MT Malta	11,838	22,133	20,976	23,273	24,479	25,513	25,683	25,589	25,597
23 NL Netherlands	281,593	71,598	73,619	80,970	71,557	74,078	73,768	76,990	83,840
24 NO Norway	43,849	25,915	23,116	20,614	20,402	19,694	19,288	19,079	23,619
25 PL Poland	292,048	290,647	261,260	283,626	304,573	323,659	343,085	364,042	391,150
26 PT Portugal	27,735	119,062	145,846	153,295	158,200	162,885	166,495	167,243	159,659
27 RO Romania	213,982	213,586	223,194	228,114	230,482	231,785	239,124	225,202	226,205
28 SE Sweden	90,257	113,876	98,492	149,860	213,088	213,893	229,152	246,656	261,781
29 SI Slovenia	74,258	59,439	61,356	65,070	64,849	62,887	60,979	62,543	61,223
30 SK Slovakia	79,273	84,243	86,424	87,788	89,462	92,759	93,459	97,958	100,810
31 UK United Kingdom	-	-	82,664	81,881	80,777	79,922	81,933	86,076	83,742
Σ	2,922,066	3,143,169	4,104,063	4,249,568	4,373,747	4,503,183	4,553,000	4,634,386	4,652,866

Country	N (without selection)								
	2012	2011	2010	2009	2008	2007	2006	2005	2004
01 AT Austria	180,441	180,299	181,630	184,682	193,518	201,162	200,413	204,429	53,633
02 BE Belgium	96,720	95,940	102,473	104,395	105,604	111,978	114,278	109,126	27,739
03 BG Bulgaria	30,924	33,103	34,791	35,329	34,835	130,865	134,108	139,816	36,467
04 CH Switzerland	74,193	71,872	67,088	49,390	47,899	48,485	48,262	51,791	54,229
05 CY Cyprus	42,803	42,997	43,160	40,920	39,866	37,982	37,773	38,971	10,466
06 CZ Czechia	44,531	45,361	234,219	235,119	241,934	250,602	253,254	249,737	62,709
07 DE Germany	470,785	46,917	46,585	48,816	46,835	47,990	48,444	464,685	318,825
08 DK Denmark	144,228	140,468	166,376	145,389	143,568	149,957	93,015	93,870	50,489
09 EE Estonia	24,360	21,570	19,993	19,786	22,166	23,269	20,122	17,806	18,210
10 EL Greece	242,672	271,770	302,136	297,460	293,618	296,383	303,621	314,576	80,992
11 ES Spain	113,390	110,032	114,102	113,337	109,503	107,224	106,279	610,851	175,159
12 FI Finland	54,715	55,399	57,536	59,113	60,590	60,196	83,805	86,053	101,646
13 FR France	514,428	516,136	499,447	416,193	347,753	349,920	338,953	343,111	130,652
14 HR Croatia	37,273	38,205	40,038	42,254	43,846	45,176	35,435	36,757	19,135
15 HU Hungary	274,633	282,740	282,935	289,049	290,431	305,048	311,397	312,190	82,310
16 IE Ireland	234,162	228,205	246,328	273,122	278,293	319,039	85,734	91,174	86,545
17 IS Iceland	12,666	12,721	12,482	12,356	12,345	12,399	12,514	12,399	3,105
18 IT Italy	606,972	657,569	662,986	659,561	671,939	677,746	684,303	703,687	171,916
19 LT Lithuania	62,838	65,166	66,867	66,803	61,774	63,022	44,958	47,920	12,141
20 LU Luxembourg	23,163	19,937	18,781	19,229	14,288	21,178	85,024	89,984	21,189
21 LV Latvia	34,887	35,856	37,433	40,424	38,597	37,822	18,636	21,940	6,018
22 MT Malta	24,656	23,969	26,183	26,399	-	-	-	-	-
23 NL Netherlands	81,733	87,876	82,389	93,491	109,585	106,472	108,545	469,514	209,519
24 NO Norway	19,222	19,696	19,932	20,367	20,110	20,736	20,618	85,118	21,235
25 PL Poland	418,980	421,133	414,121	212,420	206,893	206,875	216,840	225,325	57,433
26 PT Portugal	159,948	159,736	161,168	164,964	167,970	171,960	179,534	190,128	50,688
27 RO Romania	230,669	238,807	240,404	239,426	240,785	249,521	257,762	269,044	68,447
28 SE Sweden	270,507	275,850	285,258	229,772	205,074	207,879	209,610	148,025	52,174
29 SI Slovenia	58,415	61,888	64,599	65,919	65,600	67,877	69,813	71,406	18,871
30 SK Slovakia	101,469	104,274	104,685	105,014	109,840	110,377	113,417	116,194	28,725
31 UK United Kingdom	85,957	88,474	92,845	94,865	192,803	230,866	120,155	122,619	125,124
Σ	4,772,340	4,453,966	4,728,970	4,405,364	4,417,862	4,670,006	4,356,622	5,738,246	2,155,791

Country	N (without selection)								
	2003	2002	2001	2000	1999	1998	1997	1996	1995
01 AT Austria	106,864	58,522	59,077	58,933	61,395	61,680	59,522	60,135	60,158
02 BE Belgium	27,565	27,834	26,391	27,446	27,479	79,868	80,231	81,601	80,153
03 BG Bulgaria	38,407	57,326	59,683	52,952	-	-	-	-	-
04 CH Switzerland	57,679	41,263	18,738	17,733	17,720	16,306	16,188	16,186	-
05 CY Cyprus	10,615	10,507	10,442	10,152	10,031	-	-	-	-
06 CZ Czechia	60,799	61,892	63,703	65,158	68,497	70,451	71,798	-	-
07 DE Germany	322,097	319,724	321,314	322,330	323,074	325,323	323,561	319,201	321,376
08 DK Denmark	51,771	53,480	15,902	17,872	17,781	18,091	18,116	18,211	18,423
09 EE Estonia	4,710	4,924	5,155	4,644	16,247	16,738	4,945	-	-
10 EL Greece	73,017	77,451	80,282	81,264	82,921	84,007	163,893	165,305	165,221
11 ES Spain	175,209	172,552	173,439	180,420	195,879	190,257	189,130	190,293	191,948
12 FI Finland	103,865	42,587	42,548	41,982	34,895	16,954	17,107	17,606	18,299
13 FR France	129,251	174,730	177,058	180,655	180,490	181,128	181,225	183,412	184,231
14 HR Croatia	20,249	22,251	-	-	-	-	-	-	-
15 HU Hungary	88,212	82,904	84,671	85,080	87,541	84,980	63,443	64,611	-
16 IE Ireland	101,500	105,569	105,405	106,306	109,768	111,342	145,424	142,268	145,730
17 IS Iceland	3,176	3,626	3,674	3,683	3,638	3,736	3,739	3,822	3,913
18 IT Italy	192,093	386,916	195,806	198,859	399,799	201,243	200,893	201,774	202,687
19 LT Lithuania	12,147	12,899	7,772	7,583	7,558	7,543	-	-	-
20 LU Luxembourg	16,390	13,396	14,801	15,230	16,039	17,326	17,769	18,382	18,731
21 LV Latvia	6,018	5,938	18,824	19,193	18,701	18,756	-	-	-
22 MT Malta	-	-	-	-	-	-	-	-	-
23 NL Netherlands	96,740	97,594	90,265	66,992	51,929	55,959	89,842	77,750	87,209
24 NO Norway	20,869	20,778	20,124	21,002	20,634	20,540	21,225	21,430	30,520
25 PL Poland	58,303	58,623	57,575	46,295	53,300	54,545	54,583	-	-
26 PT Portugal	46,334	45,575	45,626	45,566	47,268	50,002	43,928	43,601	43,757
27 RO Romania	41,436	41,610	43,573	44,587	46,007	47,468	49,183	-	-
28 SE Sweden	67,058	55,694	50,507	17,314	17,909	15,810	16,069	16,244	16,651
29 SI Slovenia	19,881	19,766	19,607	18,751	19,627	17,976	18,318	24,640	-
30 SK Slovakia	28,818	29,284	30,350	30,647	30,260	31,147	-	-	-
31 UK United Kingdom	129,952	135,630	135,378	139,513	283,423	144,344	147,503	151,670	153,371
Σ	2,111,025	2,240,845	1,977,690	1,928,142	2,249,810	1,943,520	1,997,635	1,818,142	1,742,378

Country	N (without selection)								
	1994	1993	1992	1991	1990	1989	1988	1987	1986
01 AT Austria	-	-	-	-	-	-	-	-	-
02 BE Belgium	81,044	80,812	77,228	77,586	76,632	76,939	77,173	74,012	80,902
03 BG Bulgaria	-	-	-	-	-	-	-	-	-
04 CH Switzerland	-	-	-	-	-	-	-	-	-
05 CY Cyprus	-	-	-	-	-	-	-	-	-
06 CZ Czechia	-	-	-	-	-	-	-	-	-
07 DE Germany	318,434	322,041	317,179	290,187	232,058	213,211	216,998	216,551	215,422
08 DK Denmark	18,768	29,105	26,744	29,331	28,762	28,753	28,643	28,741	28,649
09 EE Estonia	-	-	-	-	-	-	-	-	-
10 EL Greece	167,225	170,386	135,941	138,129	139,764	140,794	143,139	142,734	141,998
11 ES Spain	189,945	189,907	195,730	198,496	200,442	198,208	197,044	183,706	197,933
12 FI Finland	-	-	-	-	-	-	-	-	-
13 FR France	184,868	179,597	172,606	168,410	166,970	169,429	169,341	168,342	167,162
14 HR Croatia	-	-	-	-	-	-	-	-	-
15 HU Hungary	-	-	-	-	-	-	-	-	-
16 IE Ireland	147,163	149,287	151,613	147,865	148,726	151,889	151,221	153,214	150,959
17 IS Iceland	-	-	-	-	-	-	-	-	-
18 IT Italy	198,195	199,755	200,271	191,242	380,786	381,034	347,116	348,966	326,596
19 LT Lithuania	-	-	-	-	-	-	-	-	-
20 LU Luxembourg	13,949	14,149	15,202	24,341	24,532	24,532	24,944	24,438	24,523
21 LV Latvia	-	-	-	-	-	-	-	-	-
22 MT Malta	-	-	-	-	-	-	-	-	-
23 NL Netherlands	81,907	74,773	77,144	76,048	76,954	79,295	78,021	52,477	-
24 NO Norway	-	-	-	-	-	-	-	-	-
25 PL Poland	-	-	-	-	-	-	-	-	-
26 PT Portugal	46,792	48,539	48,088	83,927	83,359	84,301	88,850	90,321	92,088
27 RO Romania	-	-	-	-	-	-	-	-	-
28 SE Sweden	-	-	-	-	-	-	-	-	-
29 SI Slovenia	-	-	-	-	-	-	-	-	-
30 SK Slovakia	-	-	-	-	-	-	-	-	-
31 UK United Kingdom	158,986	162,818	159,050	159,129	161,772	166,433	166,456	163,886	167,245
Σ	1,607,276	1,621,169	1,576,796	1,584,691	1,720,757	1,714,818	1,688,946	1,647,388	1,593,477

Country	N (without selection)		
	1985	1984	1983
01 AT Austria	-	-	-
02 BE Belgium	89,392	43,071	106,716
03 BG Bulgaria	-	-	-
04 CH Switzerland	-	-	-
05 CY Cyprus	-	-	-
06 CZ Czechia	-	-	-
07 DE Germany	217,396	222,523	300,562
08 DK Denmark	30,590	29,670	202,595
09 EE Estonia	-	-	-
10 EL Greece	141,713	142,141	126,774
11 ES Spain	-	-	-
12 FI Finland	-	-	-
13 FR France	167,559	168,636	168,896
14 HR Croatia	-	-	-
15 HU Hungary	-	-	-
16 IE Ireland	152,838	150,750	142,873
17 IS Iceland	-	-	-
18 IT Italy	328,838	343,064	342,062
19 LT Lithuania	-	-	-
20 LU Luxembourg	25,877	27,554	27,727
21 LV Latvia	-	-	-
22 MT Malta	-	-	-
23 NL Netherlands	163,069	-	170,326
24 NO Norway	-	-	-
25 PL Poland	-	-	-
26 PT Portugal	-	-	-
27 RO Romania	-	-	-
28 SE Sweden	-	-	-
29 SI Slovenia	-	-	-
30 SK Slovakia	-	-	-
31 UK United Kingdom	167,188	164,692	217,772
Σ	1,484,460	1,292,101	1,806,303

^a see also "FILE_SIZE_YEARLY.csv" you received from Eurostat

Table 2: Number of remaining system missing values per variable, EU-LFS yearly data

Year	Variable									
	REFWEEK	REFMONTH	INTWEEK	HHSEQNUM	INTWAVE	DEGURBA	HHSPOU ^a	HHFATH ^a	HHMOTH ^a	ILOSTAT
2021	-	-	-	-	-	-	-	-	-	-
2020	-	-	42,472	-	-	-	194,651	194,651	194,651	-
2019	-	-	104,283	-	-	-	183,757	183,757	183,757	-
2018	-	-	103,786	-	-	-	236,021	236,021	236,021	-
2017	-	-	103,051	-	-	-	289,773	289,773	289,773	-
2016	-	-	102,329	-	-	-	285,043	285,043	285,043	-
2015	-	-	99,792	-	-	-	303,105	303,105	303,105	-
2014	-	-	99,454	-	-	-	317,465	317,465	317,465	-
2013	-	-	96,662	-	-	-	329,422	329,422	329,422	-
2012	-	-	96,545	-	-	9,542	335,902	335,902	335,902	-
2011	-	-	94,674	-	-	-	338,878	338,878	338,878	-
2010	-	-	124,138	-	-	-	320,602	320,602	320,602	-
2009	-	-	120,178	-	1,209	27,922	181,912	181,912	181,912	-
2008	-	-	121,159	1	1,220	29,333	604	604	604	-
2007	-	-	123,663	5	2,756	34,747	570	570	570	-
2006	-	-	105,799	58,669	20,089	71,617	23,076	23,076	23,076	-
2005	-	-	97,057	59,549	25,885	49,163	-	-	-	-
2004	-	-	14,448	15,383	5,043	48,241	-	-	-	-
2003	-	-	15,883	15,402	22,947	49,794	-	-	-	-
2002	-	-	11,143	21,331	5,049	51,357	-	-	-	-
2001	-	-	2,420	-	5,007	14,729	-	-	-	-
2000	-	-	2,490	1,782	7,588	14,985	-	-	-	-
1999	-	-	651	-	13,469	1,708	-	-	-	3,426
1998	-	-	-	-	7,573	1,627	-	-	-	-
1997	-	-	-	-	-	927	-	-	-	-
1996	-	-	-	-	-	756	-	-	-	-
1995	-	-	-	-	-	11	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-
1991	121	121	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-

^a System missing values for these variables occur only in Denmark, Finland and Sweden, where individuals are sampled and household information is available for a subsample only.

Year	Variable									
	REFWEEK	REFMONTH	INTWEEK	HHSEQNUM	INTWAVE	DEGURBA	HHSPOU ^a	HHFATH ^a	HHMOTH ^a	INTWAVE
1989	8,666	8,666	-	-	-	-	-	-	-	-
1988	6,558	6,558	-	-	-	-	-	-	-	-
1987	7,374	7,374	-	-	-	-	-	-	-	-
1986	5,818	5,818	-	-	-	-	-	-	-	-
1985	5,164	5,164	-	-	-	-	-	-	-	-
1984	7,524	7,524	-	-	-	-	-	-	-	-
1983	520	520	-	-	-	-	-	-	-	-