

Tracking Economic Activity With Alternative High-Frequency Data (Replication Data)

Readme File

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This readme file accompanies the replication data files `data_ch.Rda` and `data_ch.xlsx` related to the Journal of Applied Econometrics publication titled Tracking Economic Activity With Alternative High-Frequency Data. Both files contain the same dataset. The below table lists all variables in the dataset (see also Table 4 in the paper). All series refer to Switzerland, if not indicated otherwise. In particular, the Google search indices comprise searches in Switzerland. All monthly series are seasonally adjusted. Detrending of a variable (see column “Transformation”) is done by subtracting the rolling in-sample moving average of three times the frequency of the respective variable. The following series were adjusted during the collection process such that the series do not contain any structural breaks due to changes in definition, scope or coverage of the series: Energy Consumed by Swiss End Users, Energy Production in Switzerland, Passenger Car Frequency and Truck Frequency. The website www.trendecon.org describes the methods used for the construction (including cleaning and adjustment) of the trendEcon Google search index on the perceived economic situation. We also employ the trendEcon code for the compilation of the Google search index on the perceived labor market situation. In table column “Frequency”, “W”, “M” and “Q” stand for week, month and quarter, respectively. The table column “Source” entails the following acronyms: ASTRA: Swiss Federal Roads Office, Destatis: German Federal Statistical Office, EZV: Federal Customs Administration, KOF: KOF Swiss Economic Institute, SBB: Swiss Federal Railways, SECO: Swiss State Secretariat for Economic Affairs, SNB: Swiss National Bank, SPA: Swiss Payment Association, StatistikZH: Statistical Office of the Canton of Zurich.

Variable Key in data.ch.Rda	Sheet Name in data.ch.xlsx	Description	Frequency	Start Date	Unit	Transformation	Type	Source
traffic.PW	traffic.PW	Passenger Car Frequency, Counting Stations on Major Swiss Motorways	Daily	2005W2	Actual	Log Difference	Flow	ASTRA
traffic.LW	traffic.LW	Truck Frequency, Counting Stations on Major Swiss Motorways	Daily	2005W2	Index	Log Difference	Flow	ASTRA
trendcon	trendcon	Google Search Index, Perceived Economic Situation	Daily	2006W1	Index	None	Stock	trendcon
Arbeitsmarkt		Google Search Index, Perceived Labour Market Situation	Daily	2006W1	Index	None	Stock	KOF
Lkw-Maut-Fahrleistungsindex.DE		Truck-Toll Mileage Index, Germany	Daily	2008W2	Actual	Log Difference	Flow	Destatis
electricity.in		Energy Consumed by Swiss End Users	Daily	2009W2	kWh	Log Difference	Flow	Swissgrid
electricity.out		Total Energy Production in Switzerland	Daily	2009W2	kWh	Log Difference	Flow	Zurich Airport
zrh.airport.arrivals		Total Flight Arrivals, Zurich Airport	Daily	2011W2	Actual	Log Difference	Flow	Zurich Airport
zrh.airport.departure		Total Flight Departures, Zurich Airport	Daily	2011W2	Actual	Log Difference	Flow	Zurich Airport
bezug.bargeld		Cash Withdrawals, Swiss-Wide Volume in CHF	Daily	2018W2	CHF, in Millions	Log Difference	Flow	SIX Group
stat.einkauf		Non-Online Retail Sales, Swiss-Wide Volume in CHF	Daily	2018W2	CHF, in Millions	Log Difference	Flow	SIX Group
debitansatz.ausland		Swiss Debit Card Transactions Abroad, Volume in CHF	Daily	2018W2	CHF, in Millions	Log Difference	Flow	SIX Group
oev.freq.hardbruecke		Public Transport Passenger Frequency, Zurich Hardbruecke	Daily	2019W30	Actual	Log Difference	Flow	SBB
anz.kkttrans.ch		Credit Card Transactions, Swiss-Wide Frequency	Weekly	2020W2	Actual, in Thousands	Log Difference	Flow	SPA
mobility.grocery.and.pharmacy		Google COVID-19 Community Mobility Reports, Grocery and Pharmacy	Daily	2020W2	Percentage	Log Difference	Flow	Google
mobility.parks		Google COVID-19 Community Mobility Reports, Parks	Daily	2020W2	Percentage	Log Difference	Flow	Google
mobility.residential		Google COVID-19 Community Mobility Reports, Residential	Daily	2020W2	Percentage	Log Difference	Flow	Google
mobility.retail_and_recreation		Google COVID-19 Community Mobility Reports, Retail and Recreation	Daily	2020W2	Percentage	Log Difference	Flow	Google
mobility.transit_stations		Google COVID-19 Community Mobility Reports, Transit Stations	Daily	2020W2	Percentage	Log Difference	Flow	Google
mobility.workplaces		Google COVID-19 Community Mobility Reports, Workplaces	Daily	2020W2	km	Log Difference	Flow	intervista
tages.distanz.median		Median Day Distance of Representative Swiss Population Sample	Daily	2020W2	Actual	Log Difference	Flow	StatistikZH
aufkommen.univ		Private Transport Frequency, Important Counting Stations, Zurich	Daily	2020W2	Actual	Log Difference	Flow	SBB
oev.freq.bb		Public Transport Passenger Frequency, Zurich Main Station	Monthly	1990M1	Percentage	Detrended	Stock	SECO
SWGGBOND.		10-Year Confederation Bond Yield	Monthly	1990W1	CHF	Log Difference	Flow	SIX Group
SWISSMI		Swiss Stock Market Index (SMI)	Daily	1990W1	CHF	Log Difference	Flow	Datsteam
FINANSW		Swiss Stock Market Index, Financials	Daily	1990W1	CHF	Log Difference	Flow	Datsteam
INDUSSW		Swiss Stock Market Index, Industrials	Daily	1990W1	CHF	Log Difference	Flow	Datsteam
ch.anb.zimoma.3m0		3-Month CHF LIBOR	Monthly	1991M12	Percentage	Detrended	Stock	SECO
SWCONPRCE		Consumer Price Index, Total	Monthly	1990M1	Index	2015M12=100	Flow	SECO
SWCPCOREF		Producer Price Index, Excl. Energy, Fresh & Seasonal Products	Monthly	1990M1	Index	2015M12=100	Flow	SECO
ch.secogdp.real.gdp.ssa		Gross Domestic Product, Adjusted for International Sport Events	Quarterly	1990Q1	CHF, Real Prices	Log Difference	Flow	SECO
ch.iso.itt.ind.r.noga0807.ssa		Retail Sales, Culture and Recreation Goods, Constant Prices	Monthly	2000M2	Index	2015=100	Flow	SECO
ch.iso.itt.ind.r.noga0803.ssa		Retail Sales, Food, Beverage and Tobacco	Monthly	2000M2	Index	2015=100	Flow	SECO
noga0806		Retail Sales, Household Equipment	Monthly	2000M2	Index	2015=100	Flow	SECO
noga0805		Retail Sales, Information and Communication Equipment	Monthly	2000M2	Index	2015=100	Flow	SECO
noga0804		Retail Sales, Non-Food	Monthly	2000M2	Index	2015=100	Flow	SECO
noga0808		Retail Sales, Other Goods	Monthly	2000M2	Index	2015=100	Flow	SECO
noga0801		Retail Sales, Total	Monthly	1995M1	Index (Diffusion)	None	Stock	Credit Suisse
SWPURCHHSQ		Purchasing Managers Index, Manufacturing Sector, Backlog of Orders	Monthly	1995M1	Index (Diffusion)	None	Stock	Credit Suisse
SWPMIORDQ		Purchasing Managers Index, Manufacturing Sector, Production Index	Monthly	1995M1	Index (Diffusion)	None	Stock	Credit Suisse
SWPMIPROQ		Purchasing Managers Index, Manufacturing Sector, Supplier Deliveries	Monthly	1995M1	Index (Diffusion)	None	Stock	Credit Suisse
SWPMINSPQ		Purchasing Managers Index, Manufacturing Sector, Employment Index	Monthly	1995M1	Index (Diffusion)	None	Stock	Credit Suisse
SWPMIEMPQ		Purchasing Managers Index, Manufacturing Sector, Price Index	Monthly	1995M1	Index (Diffusion)	None	Stock	Credit Suisse
SWPMIPRICQ		Purchasing Managers Index, Manufacturing Sector, Outgoing Orders	Monthly	1995M1	Index (Diffusion)	None	Stock	Credit Suisse
SWPMIOUTPQ		Purchasing Managers Index, Manufacturing Sector, Financial Outlook	Monthly	1995M1	Index (Diffusion)	None	Stock	Credit Suisse
SWPMIFINQ		Purchasing Managers Index, Manufacturing Sector, Index						