

Annex 1. CPI seasonal adjustment specifications

Food products								
Series	Live and chilled fish	Dairy butter (1)	Dairy butter (2)	Milk and dairy products (1)	Milk and dairy products (2)	Cheese	Eggs	Sugar (1)
Sample	2001.12 - to date	2001.12 - 2008.12	2008.12 - to date	2001.12 - 2008.12	2008.12 - to date	2001.12 - to date	2001.12 - to date	2001.12 - 2017.12
Transformation	log	log	log	log	log	log	log	log
Outliers	LS2012.Apr LS2013.Dec LS2015.Jan LS2022.Mar	LS2002.Nov LS2002.Dec LS2003.Jan LS2003.May LS2003.Jun LS2004.Jun LS2007.Aug LS2007.Sep LS2007.Oct LS2007.Nov	LS2009.May LS2009.Nov LS2009.Dec AO2010.May LS2010.Jun LS2010.Aug LS2010.Sep AO2010.Oct LS2010.Nov LS2013.Aug LS2015.Jan LS2015.Feb LS2022.Mar LS2022.Apr	LS2007.Aug LS2007.Sep LS2007.Oct LS2007.Nov	LS2010.Aug LS2010.Sep LS2010.Oct LS2013.Sep LS2014.Mar LS2015.Jan LS2015.Feb LS2022.Feb LS2022.Mar AO2022.Apr LS2022.May	LS2007.Sep LS2007.Oct LS2007.Nov LS2008.Apr LS2008.May LS2008.Jun LS2009.Dec LS2015.Jan LS2022.Mar	LS2007.Jul LS2007.Oct LS2010.Sep LS2014.Jul LS2018.Dec	LS2002.Jul LS2006.Feb LS2009.Sep
ARIMA model	(3 1 1)(0 1 1)	(1 1 1)(1 0 0)	(2 1 1)(0 1 1)	(1 1 1)(1 0 0)	(1 1 0)(0 1 1)	(2 1 0)(0 1 1)	(0 1 2)(0 1 1)	(0 1 2)(0 1 1)

Series	Sugar (2)	Fruit and vegetables, including potato	Other food products
Sample	2017.12 - to date	2001.12 - to date	2011.12 - to date
Transformation	log	log	log
Outliers	LS2022.Mar	LS2002.May LS2015.Jan LS2022.Mar	AO2014.Dec AO2015.Feb AO2015.Jan AO2015.Mar LS2015.Apr SO2021.Mar LS2022.Mar LS2022.Apr LS2022.May
Модель ARIMA	(0 1 1)(0 1 1)	(0 1 1)(0 1 1)	(0 2 1)(0 1 1)

Non-food products								
Series	Clothing and underwear	Knitwear	Furniture	Furs(1)	Furs (2)	Leather, textile and combined footwear	Diesel fuel	Fancy goods
Sample	2001.12 - to date	2001.12 - to date	2001.12 - to date	2001.12 - 2015.12	2015.12 - to date	2001.12 - to date	2011.12 - to date	2001.12 - to date
Transformation	log	log	log	log	log	log	log	log
Outliers	LS2009.Feb LS2009.Mar LS2014.Dec LS2015.Jan LS2015.Feb LS2015.Mar LS2015.Feb LS2015.Mar LS2022.Mar LS2022.Apr AO2022.May	LS2009.Feb LS2009.Mar LS2009.Apr AO2013.Oct LS2014.Dec LS2015.Jan LS2015.Feb LS2015.Mar LS2022.Mar LS2015.Sep LS2015.Mar LS2021.Jul AO2022.Mar LS2022.Apr	LS2014.Dec LS2015.Jan LS2015.Feb LS2015.Mar LS2021.Sep LS2022.Mar LS2022.Apr LS2022.May LS2022.Jun LS2022.Jul LS2022.Aug LS2022.Sep LS2022.Oct	LS2011.Nov LS2014.Dec LS2015.Jan LS2015.Feb	LS2020.Oct LS2020.Dec LS2021.Oct AO2021.Nov AO2022.Jan LS2022.Mar AO2022.Apr	LS2009.Mar LS2014.Dec LS2015.Jan LS2015.Feb LS2015.Mar LS2015.Apr LS2022.Mar LS2022.Apr	LS2018.May AO2018.Nov LS2021.Nov	LS2009.Feb LS2009.Mar LS2009.Apr LS2015.Jan LS2015.Feb LS2015.Mar LS2015.Apr LS2015.Apr LS2019.Jan AO2022.Mar LS2022.Mar
ARIMA model	(3 1 2)(0 1 1)	(0 2 2)(0 1 1)	(0 2 1)(0 1 1)	(1 1 0)(0 1 1)	(0 1 0)(0 1 0)	(2 2 2)(0 1 1)	(0 1 2)(0 1 1)	(0 2 2)(0 1 1)



Series	Printed goods (1)	Printed goods (2)	Perfumes and cosmetics	Electrical goods and other household appliances	Other non-food goods (1)	Other non-food goods (2)
Sample	2001.12 - 2009.12	2009.12 - to date	2001.12 - to date	2001.12 - to date	2001.12 - 2005.12	2005.12 - to date
Transformation	log	log	log	log	log	log
Outliers	AO2002.Jan	LS2010.Mar	LS2009.Feb	LS2009.Feb		LS2009.Feb
	AO2002.Feb	LS2015.Jan	LS2009.Mar	LS2009.Mar		LS2009.Mar
	LS2002.Oct	LS2019.Jan	LS2009.Apr	LS2014.Dec		LS2009.Apr
	LS2009.Jan	LS2019.Feb	LS2014.Dec	LS2015.Jan		LS2009.May
	LS2009.Aug	AO2022.Mar	LS2015.Jan	LS2015.Feb		LS2014.Dec
		AO2022.Apr	LS2015.Feb	LS2015.Sep		LS2015.Jan
		LS2022.May	LS2015.Mar	LS2016.Feb		LS2015.Feb
		AO2022.Aug	LS2015.Apr	LS2020.Mar		LS2015.Mar
			LS2015.May	LS2020.Apr		LS2015.Apr
			AO2018.Aug	LS2021.Feb		LS2020.Aug
			LS2019.Jan	AO2021.May		LS2022.Feb
			LS2019.Aug	AO2021.Nov		LS2022.Mar
			AO2019.Oct	AO2022.Feb		LS2022.Apr
			AO2020.Feb	LS2022.Mar		
			AO2020.Dec	LS2022.Apr		
			LS2021.Jan	LS2022.Jul		
			AO2021.Oct	LS2022.Oct		
			LS2022.Mar			
			LS2022.Apr			
			LS2022.May			
			LS2022.Jun			
			AO2022.Sep			
ARIMA model	(1 1 1)(1 1 1)	(1 1 0)(0 1 1)	(0 2 1)(0 1 1)	(1 1 0)(0 1 1)	(0 1 1)(1 0 0)	(0 2 2)(0 1 1)

Services								
Series	Personal services (1)	Personal services (2)	Air transportation (1)	Air transportation (2)	Outbound tourism	Preschool (1)	Preschool (2)	Education (1)
Sample	2001.12 - 2016.12	2016.12 - to date	2001.12 - 2014.01	2014.01 - to date	2001.12 - to date	2001.12 - 2013.12	2013.12 - to date	2001.12 - 2008.12
Transformation	log	log	log	log	log	log	log	log
Outliers	LS2003.Feb	LS2022.Mar	SO2009.Nov	AO2015.Nov	AO2003.May	LS2002.Sep	AO2013.Dec	LS2002.Jan
	LS2005.Feb	LS2022.Apr	LS2008.Jun	SO2020.Jan	TC2008.Dec	LS2004.Feb	LS2015.Jan	AO2002.Aug
	LS2009.Jan	LS2022.May	TC2011.May	LS2020.Mar	LS2009.Jan	LS2004.Jul	LS2016.Jan	LS2004.Sep
	LS2011.Jan		AO2006.Nov	LS2020.Jun	TC2009.Feb	LS2005.Jan		
	LS2012.Jun		LS2004.Nov	SO2020.Aug	AO2009.Dec	LS2006.Apr		
	LS2013.Nov		AO2011.May	SO2021.Mar	LS2014.Dec			
	LS2015.Jan			AO2021.Nov	TC2015.Jan			
				AO2022.Apr	TC2015.Apr			
				LS2022.Jul	LS2015.Aug			
				LS2022.Aug	TC2018.Apr			
				LS2022.Nov	LS2020.Apr			
				TC2023.Jan	LS2021.Jan			
					SO2021.Jun			
					AO2021.Aug			
					SO2021.Nov			
					AO2022.Jan			
					LS2022.Feb			
					LS2022.Mar			
					TC2022.May			
					TC2022.Nov			
					AO2023.Feb			
					LS2023.Mar			
ARIMA model	(0 2 1)(0 1 1)	(1 2 0)(0 1 1)	(1 1 0)(1 0 0)	(0 1 1)(0 1 1)	(0 1 1)(0 1 1)	(1 1 1)(0 1 1)	(0 2 1)(0 1 1)	(0 1 1)(0 1 1)

Series	Education(2)	Education (3)	Cultural services	Hotel and other accommodation services	Medical services(1)	Medical services (2)	Housing (1)	Housing (2)
Sample	2008.12 - 2014.12	2014.12 - to date	2001.12 - to date	2001.12 - to date	2001.12 - 2008.12	2008.12 - to date	2001.12 - 2011.12	2011.12 - to date
Transformation	log	log	log	log	log	log	log	log
Outliers	LS2012.Aug LS2012.Sep	AO2014.Dec AO2015.Jan AO2016.Aug AO2017.Sep LS2018.Sep LS2020.Sep LS2021.Sep	LS2002.Sep LS2021.Dec	AO2001.Dec LS2003.Sep AO2004.Sep LS2005.Sep LS2007.Sep LS2013.Sep LS2013.Oct LS2013.Nov LS2014.Sep LS2018.Jun LS2018.Jul LS2020.May LS2020.Jun LS2020.Jul LS2020.Aug LS2020.Sep LS2021.Mar LS2021.Apr LS2021.May LS2021.Jun LS2021.Jul LS2021.Aug LS2021.Oct LS2021.Nov	AO2001.Dec AO2002.Jan AO2002.Feb	LS2009.Apr LS2010.Feb LS2013.Nov AO2014.Mar LS2015.Jan LS2015.Feb AO2015.Dec LS2016.Nov AO2022.Feb LS2022.Feb LS2022.Apr LS2022.May	LS2002.Mar AO2003.Jan AO2003.May LS2003.Aug AO2004.Mar AO2004.Jul LS2005.Jan LS2005.Feb AO2006.Jan LS2006.Mar LS2010.Jan AO2011.Jan	LS2012.Jul LS2012.Sep AO2014.Mar LS2014.May AO2014.Jun AO2014.Jul LS2014.Sep LS2014.Oct AO2014.Nov AO2014.Dec AO2015.Jan LS2015.Feb LS2015.Apr LS2015.Jul LS2016.Aug LS2018.Jan LS2018.Oct LS2020.Jan AO2021.Nov LS2022.Feb LS2022.Mar
ARIMA model	(1 1 0)(0 1 0)	(0 1 1)(0 1 1)	(1 1 0)(0 1 1)	(1 1 0)(1 1 1)	(0 1 1)(0 1 1)	(0 2 1)(0 1 1)	(0 1 1)(2 1 0)	(1 1 0)(0 1 1)

Series	Sanatorium and health services (1)	Sanatorium and health services (2)	Passenger transportation excluding rail and air transportation	Rail transportation (1)	Rail transportation (2)
Sample	2001.12 - 2010.12	2010.12 - to date	2001.12 - to date	2001.12 - 2012.12	2012.12 - to date
Transformation	log	log	log	log	log
Outliers		LS2017.Jun AO2020.Jun LS2020.Sep	LS2002.Mar LS2002.Apr LS2002.Aug LS2002.Oct LS2002.Nov LS2004.Apr LS2005.Jan LS2007.Apr LS2008.Jan LS2008.Apr LS2012.Jan LS2015.Feb LS2017.Jan	AO2003.Jan AO2007.Feb AO2008.Sep LS2010.Jan AO2011.Nov AO2017.Feb	LS2013.Mar LS2013.May AO2014.Apr LS2015.Nov LS2016.May
ARIMA model	(1 1 1)(0 1 1)	(0 1 1)(0 1 1)	(1 1 0)(0 1 1)	(0 1 0)(0 1 2)	(0 1 1)(0 1 1)