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## TURNOVER AND OUTPUT MEASUREMENT

## FOR THE CLEANING ACTIVITIES AND FACILITIES SERVICES

IN THE NETHERLANDS

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The shown figures in this paper are updated up to 1 August. The time series of the several statistics start in the year 2006.

## Introduction

The aim of this paper is to describe the turnover and output measurement for the cleaning activities and facilities services in the Netherlands. We begin by describing the classifications (*paragraph 1.1*) and the definition of the service (*paragraphs 1.2* and *1.3*). Then, we have a closer look on the unit of measure to be collected (*chapter 2*). In *chapter 3* we explain market conditions and constraints (*paragraph 3.1*), along with statistics and figures on the cleaning activities (*paragraph 3.2* and *3.3*). The standard classification structure and product detail/levels are discussed in *chapter 4*. After that, we evaluate the standard versus definition and market conditions (*chapter 5*). For the bigger picture we discuss National Accounts concepts and measurement issues for the cleaning activities related to GDP measurement in *chapter 6*. The *chapters 7* and *8* are closely related. In the 7th chapter we begin by describing turnover/output data method(s) and criteria for choosing various output methods. Subsequently we have a closer look at the comparability of turnover/output data with price index practices in the 8th chapter. We end this paper with a summary (*chapter 9*).

The ideas expressed in this paper are the opinions of the authors and do not necessarily represent the views of Statistics Netherlands.

# **1. Definition of service being collected**

#### 1.1 Classifications

The ISIC (International Standard Industrial Classification of all economic activities) is used in many countries. All countries within the European Union work with the NACE classification (Nomenclature statistique des Activités économique dans la Communauté Européenne). NACE and the ISIC have the two first digits of the classification in common; the third and fourth may differ. The SBI (Standard Industrial Classification) is used in the Netherlands. SBI and NACE have the first four digits in common. The fifth digit is a Dutch differentiation.

#### 1.2 Facilities services

The facilities activities are a very diverse branch and include technical maintenance, postal services, reception and so on. In the old NACE classification (Rev. 1.1) the facilities services were not a specific category. The new NACE classification (Rev. 2) does have a specific category for the facilities services: NACE 8110. Since the new classification has only been used for a short period, we do not have a population of facilities services enterprises at the moment. That is why we will focus only on cleaning activities in this paper.

#### 1.3 Cleaning activities

There is detailed information on cleaning activities available at the national level, as is shown in *table 1*. This table shows the old classification. The cleaning activities (NACE 7470) include all types of cleaning activities. Besides the regular window cleaning and cleaning of offices, schools and hospitals (SBI'93: 74701), the branch also includes fire and soot cleaning, cleaning in manufacturing, façade cleaning and cleaning of means of transport such as buses, trains and airplanes (SBI'93: 74702).

Table	1.	Cleaning	activities	and	related	activities	according	to	the	old	SBI,	NACE	and	ISIC
classifi	cati	ion												

ISIC Rev. 3.1	NACE Rev. 1.1	SBI'93	Description
7493	7470	7470	Cleaning activities
		74701	General cleaning of buildings
		74702	Other building and industrial cleaning activities

In 2008, the NACE was revised. Because of the growing significance of services industries for the national economies they receive far more attention, and are shown in more detail in the statistics. The classification distinguishes general cleaning of buildings, other building and industrial cleaning activities, and other cleaning activities (see *table 2*). This new classification will suit the information needs better than the old one. So far, only statistics on business demography (SBS) and short-term business statistics on turnover have switched to NACE Rev. 2.

**Table 2.** Cleaning activities and related activities according to the <u>current</u> SBI, NACE and ISIC classification

ISIC Rev. 4	NACE Rev. 2	SBI'08	Description
812	812	812	Cleaning activities
8121	8121	8121	General cleaning of buildings
8129	8122	8122	Other building and industrial cleaning activities
8129	8129	8129	Other cleaning activities

To get an idea about the magnitude of the cleaning activities in the Netherlands we provide an overview of the main variables (see *table 3*). We also compare the cleaning activities with the whole of business services. On January 1, 2008 the cleaning activities consisted of 7 thousand enterprises. This represents 4.4 percent of all enterprises in the business services. The cleaning branch employs almost 165 thousand people (17.5 percent of total business services), 99 thousand FTE (14.5 percent) and has a turnover of 4.7 billion euro (5.3 percent) a year. In *chapter 3* we will discuss the market conditions in more detail.

Table 3. Overview of the cleaning activities in the Netherlands

	Cleaning activities	Business services	Share cleaning activities in total business services
Number of enterprises	7 040	158 645	4.4%
Employees	164 600	940 800	17.5%
FTE's	99 000	681 700	14.5%
Turnover (million euro)	4 696	87 909	5.3%
Turnover per person employed in FTE's (euro)	47 434	128 955	

Source: Structural Business Statistics 2008, NACE Rev. 1.1

## 2. Unit of measure to be collected

Turnover is measured as net turnover: proceeds from sales, exclusive of value-added tax (VAT), after deducting discounts, premiums, deposits and freight charges. The enterprise is used as statistical unit; where at least one person works 15 hours a week or more. For the cleaning activities we use direct data collection, by means of electronic and (a decreasing amount of) paper questionnaires. In the near future we will use tax data for small enterprises instead of questionnaires. We have positive experiences with the use of tax data in other NACE categories.

# 3. Market conditions and constraints

### 3.1 Market conditions and constraints in the Dutch cleaning business

The Netherlands has approximately 165 thousand cleaners, mostly women with little education. Some have multiple jobs in the branch. Most cleaners work for large companies. *Table 4* shows specific characteristics of the workforce in the cleaning business.

Employment	Full-time (> 35 hours)	24%
	Part-time (< 35 hours)	76%
Age	15-24 years	14%
	25-34 years	21%
	35-44 years	30%
	45-54 years	24%
	Older than 55 years	11%
Origin	Foreign origin	25%
	Native origin	75%
Education level	Low educated	71%
	High educated	29%
Function	Cleaner	74%
	Foreman	8%
	Specialist	5%
	Window-cleaner	2%
	Other	8%

Table 4. Specific characteristics of the workforce in cleaning

External sources:

Trade organization cleaning (OSB)

The cleaning companies have been engaged in a fierce competition for several years. They cut their prices in order to win contracts. Now clients are less willing to pay much for cleaning. The low price is recovered by letting cleaners do more work in less time. This has created an imbalance, because the cleaners wanted higher wages while the contractors did not want to pay more for the same work. The working conditions and quality deteriorated. All this led to a strike that lasted for almost nine weeks, the longest strike in the Netherlands since 1933. Finally, a structural wage increase of 3.5 percent was agreed in the new collective labour agreements<sup>1</sup>.

The image of the branch is important. In the new collective labour agreements it is also agreed to invest more in skills of the cleaners<sup>2</sup>. New workers in the cleaning business must follow professional training and, if necessary, a course in Dutch – one on four cleaners is foreign (see *table 4*). Foreign workers often take a job in cleaning at the start of their career. Besides this, cleaners nowadays work more during office hours rather than at night. So they are more visible. This leads to a greater understanding by contractors, cleaners and others<sup>3</sup>.

#### Other trends in cleaning

- Large cleaning companies made joint ventures with home care to strictly separate cleaning from care. This will give companies lower overhead and the staff more flexible schedules<sup>4</sup>.
- The importance of sustainability in the cleaning business increases. Environmental Certification, obtaining an ecolabel and preparing a sustainability report are growing trends. Also, having cleaners work more during office hours instead of at night significantly cuts energy consumption and costs<sup>5</sup>.

Research for Policy 2007

<sup>&</sup>lt;sup>1</sup> NRC Handelsblad, Schoonmakers stoppen staking na cao-akkoord, 22-04-2010.

<sup>&</sup>lt;sup>2</sup> FNV, *Schoon genoeg!*, december 2009.

<sup>&</sup>lt;sup>3</sup> FD, Gezamenlijke inkoop gezondheidszorg mislukt, 31-05-2010.

<sup>&</sup>lt;sup>4</sup> <u>www.zorgvisie.nl/Nieuws/Artikel/Schoonmaak-en-thuiszorg-smeden-allianties.htm</u>, 24-04-2007.

<sup>&</sup>lt;sup>5</sup> SenterNovem, Criteria voor duurzaam inkopen van Schoonmaak, 21-10-2008.

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#### 3.2 Statistics on cleaning in the Netherlands

The statistical information on cleaning activities published in the Netherlands consists of:

### • Structural Business Statistics (SBS)

These are annual statistics on business demography, employment, turnover and costs. The statistics are available for NACE Rev.1.1. For the year 2008 business demography is also available for NACE Rev. 2.

### • Short-Term business Statistics (STS)

These are quarterly statistics on turnover, vacancies and output prices. Statistics on turnover have already switched to the NACE Rev. 2. These statistics are available for the NACE 812 and 8121. Vacancies and producer prices provide information on the old NACE 7470. Output prices are also available on the five digit category of the national level.

Since there are European regulations on both structural and short-term business statistics, comparable statistics are available in all countries of the European Union, and coordinated statistical information is available on the website and in the publications of Eurostat.

### • Business Tendency Survey

This is a survey in which entrepreneurs in the cleaning activities are asked to give their opinions on orders, the economic climate, and indications of recent developments and expectations, with respect to orders, turnover, prices and personnel. We publish statistics on monthly basis for the old NACE 7470.

### • Working population

This is a yearly survey on jobs of employees. This survey is available for the old NACE 7470. The figures are based on the Policy Administration of Employee Insurance Agency.

#### National Accounts

The National Accounts provide information on production, intermediate consumption and value added for the old NACE 7470 on an annual basis.

Many countries all over the world use the SNA (System of National Accounts, developed by EC, Eurostat, IMF, OECD and UN, under the auspices of the inter-secretariat working group on National Accounts). In the European Union the ESA (European System of national and regional Accounts) is used. It is largely consistent with SNA, but it incorporates some differences, particularly in its presentation.

#### 3.3 Figures on cleaning in the Netherlands

#### Structural Business Statistics

On January 1, 2009 a total number of 7 600 enterprises were active in cleaning activities in the Netherlands (see *graph A*). Over the past three years the number of companies in other building and industrial cleaning activities (NACE 8122) and in other cleaning activities (NACE 8129) have both grown around 10 percent. The number of companies in general cleaning of buildings (NACE 8121) grew even faster. In 2009 the number of companies in that underlying branch was well over one fifth higher than in 2006. At the same time, the total number of enterprises in cleaning activities grew by 17 percent.



Graph A. Number of enterprises in cleaning activities in the Netherlands 2006-2009

Some 86 percent of all enterprises in cleaning employed one to ten people and 11 percent employed ten to fifty people. Only 3 percent of the enterprises employed over 50 people on 1 January 2009. In the underlying branches the shares are generally comparable with those of the aggregated branch. Other building and industrial cleaning activities had the relatively largest share (91%) of companies employing one to ten people. Companies employing ten or more people were most prevalent (17%) in the general cleaning of buildings.

The general cleaning of buildings represents around 85 percent of total turnover (see *table 5*). Personnel costs are relatively high compared to the personnel costs in the other building and industrial cleaning activities. There is also a great difference regarding the number of people employed. General cleaning of buildings employs about twenty times more people than other building and industrial cleaning activities. However, in FTE's, this factor is only fourteen times. Apparently employees have more part-time jobs in the general cleaning of buildings than in the other building and industrial cleaning services.

Source: Structural Business Statistics, NACE Rev. 2

In general the other building and industrial cleaning activities have to be done by specialists. That is why the personnel costs per person employed (in FTE's) are slightly higher than in the general cleaning of buildings. On the other hand, because of their more specialist work, employers in other building and industrial cleaning activities generate much more turnover per person employed (in FTE's) than the general cleaners of buildings.

**Table 5.** Results from the Structural Business Statistics for cleaning activities in the Netherlands 2007, NACE Rev. 1.1<sup>1</sup>

	747 Cleaning activities	74701 General cleaning of buildings	74702 Other building and industrial cleaning activities
Turnover, net (million euro)	4 222	3 649	573
Personnel costs (million euro)	2 476	2 250	226
Persons employed, annual average (* 1000)	188.0	180.0	8.7
Persons employed, annual average in FTE's (* 1000)	99.6	93.0	6.6
Turnover per person employed in FTE's (euro)	42 390	39 237	86 818
Personnel costs per person employed in FTE's (euro)	24 859	24 194	34 242

<sup>1</sup> The 2008 results for the other building and industrial cleaning activities were not reliable. We used the 2007 results to give more detailed information on the cleaning activities.

#### Working population

The share of women is still increasing in the total Dutch economy. The cleaning activities are following this trend – the share of female workers has increased from 61 to 66 percent in 2006-2008. This increase is caused by a nearly equivalent increase in the underlying branch general cleaning of buildings. The share of women in the other building and industrial cleaning activities fell by 1 percent in 2006-2008. These seem to be typical male activities because they are specialized and physically demanding. In 2008 only 18 percent was a woman there (see *graph B*).





Source: Policy Administration of Employee Insurance Agency, NACE Rev. 1.1.

#### Short-Term business Statistics

The short-term business statistics reveal turnover changes on a quarterly basis. They are the essential basic input for the first flash figures on economic growth. In *table 6* we give the results from the short-term business statistics of the cleaning activities for the period 2006-2010. The cleaners achieved their strongest turnover growth in the third quarter of 2006. In that quarter turnover increased almost 10 percent on the same quarter of 2005. The highest index figure was reached in the fourth quarter of

2008. In the comparable quarter one year later the cleaners registered the first decline in turnover since the start of the series.

In the first quarter of 2010 turnover declined by 5 percent. It is typical that the general cleaners of buildings did relatively worse in this quarter for the first time since the start of the economic crisis than the cleaning activities as a whole. Looking at the total business services, cleaning activities perform better than average. This has been the trend ever since the economic crisis started. Apparently cleaning activities are less sensitive to the economic situation than other business services – after all, buildings must be cleaned. However, a higher bankruptcy rate can pose a threat for the cleaning activities, as more buildings are not in use.

Table 6. Indices of turnover of the cleaning activities in the Netherlands and their year-on-year changes, 2006-2010

	812 Clea	aning activities	8121 General cleaning of buildings		
	Turnover index	Year-on-year changes	Turnover index	Year-on-year changes	
Period	2005 = 100	%	2005 = 100	%	
2006 Q1	96	3.1	97	7.3	
2006 Q2	106	5.7	104	3.9	
2006 Q3	108	9.8	107	7.5	
2006 Q4	118	8.0	119	7.9	
2007 Q1	104	8.5	105	8.7	
2007 Q2	111	4.8	110	5.4	
2007 Q3	110	2.2	109	2.1	
2007 Q4	121	2.8	121	2.3	
2008 Q1	111	7.0	110	5.2	
2008 Q2	118	6.8	117	6.0	
2008 Q3	119	7.8	117	7.5	
2008 Q4	129	6.5	129	6.3	
2009 Q1	116	4.6	118	7.0	
2009 Q2	119	0.4	120	2.7	
2009 Q3	121	2.1	122	3.8	
2009 Q4	126	-2.5	127	-1.3	
2010 Q1	110	-5.0	111	-6.0	

Source: Short-Term Business Statistics, NACE Rev. 2

#### Business Tendency Survey

We derive the most up-to-date information on turnover from our business tendency survey. In this monthly survey Statistics Netherlands asks entrepreneurs to indicate whether turnover, prices and personnel are increasing, stable or decreasing, to evaluate the economic climate and to give their expectations for the coming three months. The results of this survey are shown in *table 7*.

Entrepreneurs were most optimistic in 2007. From the third quarter of 2008 onwards - the start of the economic crisis - the cleaners were quite pessimistic. Especially the development and expectations about personnel, and the evaluation of the economic climate have shown large numbers of negative responses. The (extremely) negative developments and expectations for turnover seem to be more occasional.

Table	7.	Result	s from	the	Business	Tendency	Survey	for	cleaning	activities	in the	e Netherlands	2006-
2010,	NA	CE Re	v. 1.1										

747 Cleaning activities	Evaluation	Devel	opment	E		
	Economic climate	Turnover	Personnel	Turnover	Personnel	Prices
Period	% of optimistic e	entrepreneur	s minus % of	pessimistic e	entrepreneurs	
2006 Q1	-12	-14	4	34	28	-1
2006 Q2	-8	28	6	21	13	2
2006 Q3	2	11	8	29	31	5
2006 Q4	18	32	12	13	15	46
2007 Q1	10	52	16	27	17	4
2007 Q2	7	45	25	27	26	0
2007 Q3	27	26	5	23	10	4
2007 Q4	0	1	-6	64	11	74
2008 Q1	1	9	15	11	26	46
2008 Q2	-4	43	17	19	22	-5
2008 Q3	-39	-2	18	-13	-31	-6
2008 Q4	-66	9	-24	-3	-18	87
2009 Q1	-66	-13	-24	0	-13	16
2009 Q2	-63	10	-4	-2	-19	-2
2009 Q3	-52	9	-21	-33	-35	-2
2009 Q4	-20	3	-23	11	10	48
2010 Q1	7	-31	-9	38	-8	25

# 4. Standard classification structure and product detail/levels

There is no further breakdown into product categories in the annual structural business statistics, nor in the short-term business statistics.

## 5. Evaluation of standard vs. definition and market conditions

In *table 8* we broke down the main variables from the structural business statistics into size classes to see which type of companies dominate the cleaning activities. Again the outcomes of the cleaning activities as a whole and the outcomes of the underlying branch general cleaning of buildings are almost equal. However, we saw some interesting differences between the cleaning branches. In the general cleaning of buildings large enterprises account for around a half in business turnover, employees, personnel costs and operating costs. Medium enterprises active in this underlying branch contribute for the least in the variables mentioned. Looking at the other building and industrial cleaning activities, the shares of the types of enterprises are more widespread. Nevertheless, the small

enterprises have a much bigger share of the persons employed than the large ones. The personnel and operating costs concerned, micro enterprises account for far less than the other types.

*Table 8.* The shares of micro, small, medium and large enterprises in the cleaning activities in the Netherlands

	Enterprises <sup>1</sup>					
747 Cleaning activities	Micro	Small	Medium	Large		
Business turnover, net	19%	24%	14%	42%		
Persons employed, annual average	15%	20%	14%	50%		
Persons employed, annual average in FTE's	20%	22%	13%	44%		
Personnel costs	12%	23%	14%	51%		
Operating costs	15%	25%	15%	45%		
74701 General cleaning of buildings	Micro	Small	Medium	Large		
Business turnover, net	19%	23%	12%	44%		
Persons employed, annual average	15%	19%	13%	52%		
Persons employed, annual average in FTE's	19%	21%	12%	46%		
Personnel costs	12%	22%	13%	53%		
Operating costs	14%	24%	13%	47%		
74702 Other building and industrial cleaning activities	Micro	Small	Medium	Large		
Business turnover, net	22%	25%	24%	27%		
Persons employed, annual average	23%	40%	21%	14%		
Persons employed, annual average in FTE's	25%	30%	24%	19%		
Personnel costs	12%	28%	27%	31%		
Operating costs	17%	27%	26%	28%		

<sup>1</sup> Companies are broken down into Micro: 1 to 10, Small: 10 to 50, Medium: 50 to 200 and Large: 200 or more persons employed. Companies without personnel are excluded.

Source: Structural Business Statistics 2007, NACE Rev. 1.1

We also calculated the turnover and personnel costs per person employed (in FTE's) for the different types (see *table 9*). For the cleaning branch as a whole the results of those calculations were almost in proportion. Only the personnel costs per person employed in micro enterprises were half of those in the other types. This has to do with the presence of self-employed professionals in the micro enterprises. If we have a closer look on the underlying branches, it is typical that turnover per employed person (in FTE's) is the lowest in large general cleaning of buildings companies. The large enterprises in the other building and industrial cleaning activities generate by far the highest turnover per person employed.

**Table 9.** Turnover and personnel costs per person employed (FTE's) in the micro, small, medium and large enterprises in the cleaning activities in the Netherlands

	Enterprises					
747 Cleaning activities	Micro	Small	Medium	Large		
Turnover per person employed in FTE's (euro)	41 794	46 152	45 337	39 969		
Personnel costs per person employed in FTE's (euro)	14 749	26 103	27 070	28 494		
74701 General cleaning of buildings	Micro	Small	Medium	Large		
Turnover per person employed in FTE's (euro)	38 687	43 464	39 369	37 509		
Personnel costs per person employed in FTE's (euro)	14 591	25 456	25 375	27 677		
74702 Other building and industrial cleaning activities	Micro	Small	Medium	Large		
Turnover per person employed in FTE's (euro)	75 444	72 720	87 316	124 953		
Personnel costs per person employed in FTE's (euro)	16 460	32 496	38 996	56 740		

Source: Structural Business Statistics 2007, NACE Rev. 1.1

# 6. National Accounts concepts and measurements issues for cleaning activities related to GDP measurement

The National Accounts provide statistical information on production, intermediate consumption and value added for the cleaning activities (see *table 10*). They use several source statistics to compile macro figures. The concepts used in these source statistics sometimes differ from concepts used in the National Accounts. The National Accounts estimate some items not covered by source statistics (e.g. illegal activities) and adjust the data so that everything fits. For this reason figures based on source statistics are not always exactly the same as the National Accounts figures.

**Table 10.** Production, intermediate consumption and value added of the cleaning activities in the Netherlands 2006-2008

	Production	Intermediate consumption	Gross value added (market prices)
Period	million euro	million euro	million euro
2006	4 524	1 396	3 129
2007	4 791	1 501	3 290
2008	5 161	1 581	3 580

Source: National Accounts, NACE Rev. 1.1

Statistics Netherlands has had some problems with different outcomes on turnover changes. *Table 11* compares the outcomes of three statistics on turnover changes for 2006-2008. The sign of the changes is the same, but the magnitude is not. These differences are caused by different goals of statistics, population shifts and estimates for illegal activities. With population shifts we mean companies added to the population of the cleaning activities, while they were not accounted for in the previous year(s). This will boost the turnover figure. The short-term business statistics as well as the National Accounts exclude these non-real population shifts.

**Table 11.** Comparing turnover changes of three different statistics for the cleaning activities 2006-2008

Period	Short-term business statistics	Structural business statistics	National Accounts <sup>1</sup>
2006	6.7%	0.2%	5.5%
2007	4.4%	6.2%	5.9%
2008	7.0%	11.0%	7.7%

<sup>1</sup>Refers to development of Production value from the National Accounts

In the near future we will use more tax data in the short-term business statistics. Then the turnover of the short-term business statistics will be used in the structural business statistics. Aim of this exercise is to reduce the difference between outcomes on turnover changes in the short-term business statistics and those in the structural business statistics.

# 7. Turnover/output data method(s) and criteria for choosing various output methods

Since Statistics Netherlands does not survey cleaning companies on their 'volume changes', we have to make an approximation (deflation) for this variable. In the cleaning activities monitor (see *annex l*) we subtract the producer price changes from the STS turnover changes. There is a quite good match between the populations of both statistics, even for the underlying branch general cleaning of buildings. The results are shown in *chapter 8*. Of course we know that an approximation of the volume changes is only the next best thing. If it were not for the administrative burden, we would definitely ask companies directly for this information.

# 8. Comparability of turnover/output data with price index practices

In *table 12* we present the producer price indices and developments from the first quarter of 2006 onwards. Looking at the total industrial cleaning, the producer price has risen 10 percent in the last four years. Especially the industrial cleaning services (7470B) show some volatile yearly changes. The producer price of this underlying branch has risen almost 12 percent since the start of the series. With almost 10 percent the growth in the cleaning services (7470A) was less strong.

Table	12.	Producer	Price	Indices	and	their	year-on-year	changes	for	cleaning	activities	in	the
Nether	land	s 2006-20 <sup>-</sup>	10, NA	CE Rev.	1.1								

СРА	7470 Total industrial cleaning		7470A Cle (except ind se	aning services lustrial cleaning rvices)	7470B Industrial cleaning services		
	Price index	Year-on-year changes	Price index	Year-on-year Price index changes		Year-on-year changes	
Period	2006 = 100	%	2006 = 100	%	2006 = 100	%	
2006 01	100.0	70	00.0	70	100 5	70	
2000 Q1	100.0		99.9		100.5		
2006 Q2	99.9		100.0		99.2		
2006 Q3	100.1		100.0		100.1		
2006 Q4	100.0	1.7	100.0	1.9	100.2	0.4	
2007 Q1	102.4	2.4	101.9	1.9	106.4	5.9	
2007 Q2	102.4	2.5	101.9	1.8	106.4	7.3	
2007 Q3	102.5	2.4	101.9	1.9	106.4	6.2	
2007 Q4	102.4	2.4	101.9	1.9	106.0	5.8	
2008 Q1	105.0	2.5	104.4	2.5	109.3	2.7	
2008 Q2	105.7	3.2	105.0	3.1	110.4	3.8	
2008 Q3	105.9	3.3	105.1	3.1	111.4	4.7	
2008 Q4	106.2	3.6	105.2	3.3	112.5	6.2	
2009 Q1	108.8	3.6	108.1	3.6	113.2	3.5	
2009 Q2	108.9	3.0	108.2	3.1	113.6	2.9	
2009 Q3	109.0	2.9	108.4	3.2	113.0	1.4	
2009 Q4	108.9	2.6	108.3	2.9	113.1	0.5	
2010 Q1	110.0	1.1	109.7	1.4	112.2	-0.9	

If we subtract the producer price changes from the STS turnover changes, we can estimate the volume changes in cleaning activities in the Netherlands. In *graph C* the volume changes are shown from the last quarter of 2006 onwards. Having a closer look on this graph, we see that the volume changes in the general cleaning of buildings (8121) seem to be less sensitive to the economic situation than those in the cleaning activities as a whole. It is typical that the developments in the first quarter of 2010 are the only exception to this rule. In the total branch the volume had a temporary stagnation in the last two quarters of 2007. The economic crisis had a negative influence on this volume after the third quarter of 2008. In the second quarter of 2009, there were less cleaning activities compared to the same period a year earlier for the first time.



Graph C. Volume changes of cleaning activities in the Netherlands 2006-2010

Sources: Short-Term Business Statistics, NACE Rev. 2

Producer Price Indices for services, NACE Rev. 1.1

# 9. Summary

In the Netherlands the cleaning activities are an important branch within business services – 17.5 percent of all the employees works in this branch. At the national level we had already split the cleaning activities into "other building and industrial cleaning activities" and "general cleaning of buildings". The NACE revision of 2008 has led to even more detail in our statistics on the cleaning branch.

Since Statistics Netherlands does not survey cleaning companies about the 'volume changes', we have to make an approximation (deflation) for this variable. The producer prices are on hand and match quite well with the short-term business statistics, even for the underlying branches. A subtraction of the producer price changes from the STS turnover changes is only the next best thing to approximate the volume changes. Unfortunately we cannot ask companies directly for 'volume changes', because of the administrative burden.

As for the facilities services, we do not have a population. Maybe the use of tax data can give us more information on active enterprises in the facilities services. Another aim of the use of tax data will be reducing the difference between outcomes on turnover changes in the short-term and the structural business statistics, and the National Accounts.

# Annex I

The cleaning activities monitor is a quarterly electronic publication which describes the cleaning activities with and between several variables (turnover, sales, price and some other economic variables). The aim of the publication is to make available information more transparent, accessible and coherent.

### Monitor cleaning activities first quarter of 2010

Turnover growth of cleaning activities levelled off in the first quarter of 2010 compared to a year earlier. In general cleaning of buildings, the turnover is below average. Nevertheless, the mood among the entrepreneurs of the cleaning activities improved. They are optimistic in their expectations on turnover and selling prices. The entrepreneurs are pessimistic about personnel for the coming quarter.

#### Less turnover despite higher selling prices

In the first quarter of 2010 turnover was 5 percent lower than in the same quarter of 2009. The turnover loss was caused by a significantly smaller sales volume. Output prices rose in the first quarter by about 1 percent compared to a year earlier. In the cleaning activities turnover is less bad than in business services as a whole. Their turnover fell by nearly 7.5 percent compared to the first quarter one year earlier.



#### Year-on-year turnover changes

#### Turnover lagging behind general cleaning

The turnover of general cleaning of buildings remained 6 percent below the level of the corresponding first quarter in 2009. It was the first time since the fourth quarter of 2008 that the turnover in this branch was less favourable than those of the whole cleaning activities. The decline in turnover in the first quarter of 2010 was due to a substantial decline in turnover volume. The interior cleaners charged nearly 1.5 percent more than a year earlier.

#### **Optimistic about economic climate**

Results from the Business Sentiment Survey of April 2010 show that companies providing cleaning activities were positive about the current economic climate for the first time in 2 years. On balance 7 percent of the entrepreneurs were positive.

#### Opinions on the economic climate



#### Again optimistic expectations

The entrepreneurs are very optimistic in their expectations for the second quarter of 2010. More than one third expects a turnover increase, while one in four also expects an increase in prices. But nearly one in ten entrepreneurs expects a decrease in the workforce during the second quarter of 2010.

# Expectations for the second quarter of 2010

