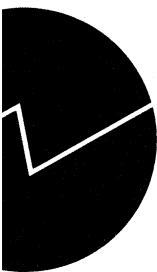


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**Economic Accounts at Regional
Level: Methods and Data for
Norway**

Notater



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1. INTRODUCTION

In April 1993, Statistics Norway was asked by Eurostat (Statistical Office of the European Communities) to provide a set of regional statistics in the context of the accession negotiations for Norway. The requested data comprised gross value added statistics, agricultural accounts statistics, employment and unemployment statistics, and population and area statistics. All the requested data were transmitted to Eurostat by the end of August 1993. Based on this information Eurostat produced the dossier "Regional indicators - Norway", which contains indicators prepared according to EC methodology and compared to EC averages.

This paper contains the data which were compiled by Statistics Norway, with short descriptions of sources and methods of estimation used in compiling regional value added (chapter 3), agricultural accounts (chapter 4), annual work units in agriculture and forestry (chapter 5) and employment (chapter 6). Chapter 2 contains a brief description of the Norwegian NUTS regional classification system underlying the data compilations. The regional value added estimation is based on data from a project originally carried out by Torill Naustvoll and reported in Notater 93/8 from Statistics Norway. Torill Naustvoll has also contributed to the documentation in chapter 3. The compilations which apply to agricultural accounts and annual work units in agriculture and forestry have been carried out in collaboration with the Budgeting Committee for Agriculture in Norway.

Sverre Nordseth has been responsible for the computer programs used in the data compilations.

The concepts and definitions used are in agreement with the Norwegian national accounts, while the precise definitions are given in the national accounts publications. The concept "annual work units" in agriculture and forestry is, however, not used in Norwegian statistics.

The data on employment and unemployment characteristics requested by Eurostat are not reported here.

2. THE NUTS CLASSIFICATION OF NORWAY

The term NUTS means "Nomenclature of Territorial Statistical Units". This classification is a regional classification originally defined for the members of the European Community. The NUTS regions are used as statistical units to produce regional indicators on a number of different topics in the European Community. The regional differences in various indicators are then used as background information in the implementation of the EC regional policy, and also to guide the surveillance of regional policies of the Member States. The Norwegian application for membership - both in the EEA and the EC - made it necessary to construct a corresponding regional classification system for Norway. The Norwegian NUTS classification has been determined by the Ministry of Local Government and Labour.

The NUTS classification has three levels, NUTS-1, NUTS-2 and, as the most detailed level, NUTS-3.

NUTS-1 regions

The NUTS-1 level is identical to the standard classification of aggregated regions used by Statistics Norway (landsdel). There are five such regions, defined by aggregation of counties according to table 1.

Table 1. Definition of NUTS-1 regions

NUTS-1 region	Region name	Member counties
1	Østlandet	Østfold, Akershus, Oslo, Hedmark, Oppland, Buskerud, Vestfold, Telemark
2	Agder/Rogaland	Aust-Agder, Vest-Agder, Rogaland
3	Vestlandet	Hordaland, Sogn og Fjordane, Møre og Romsdal
4	Trøndelag	Sør-Trøndelag, Nord-Trøndelag
5	Nord-Norge	Nordland, Troms, Finnmark

NUTS-2 regions

The NUTS-2 regions are identical to the Norwegian counties. Consequently, there are 19 such units.

NUTS-3 regions

The NUTS-3 regions consist of groups of municipalities which are contiguous and do not cross county borders. There are 49 NUTS-3 regions. The definitions of the NUTS-3 regions can be seen from table 2, also giving some key statistics on the NUTS-3 and NUTS-2 regions. We also present a map showing the borders of the NUTS-3 regions. A list of the municipalities belonging to each of the NUTS-3 regions is found in the appendix.

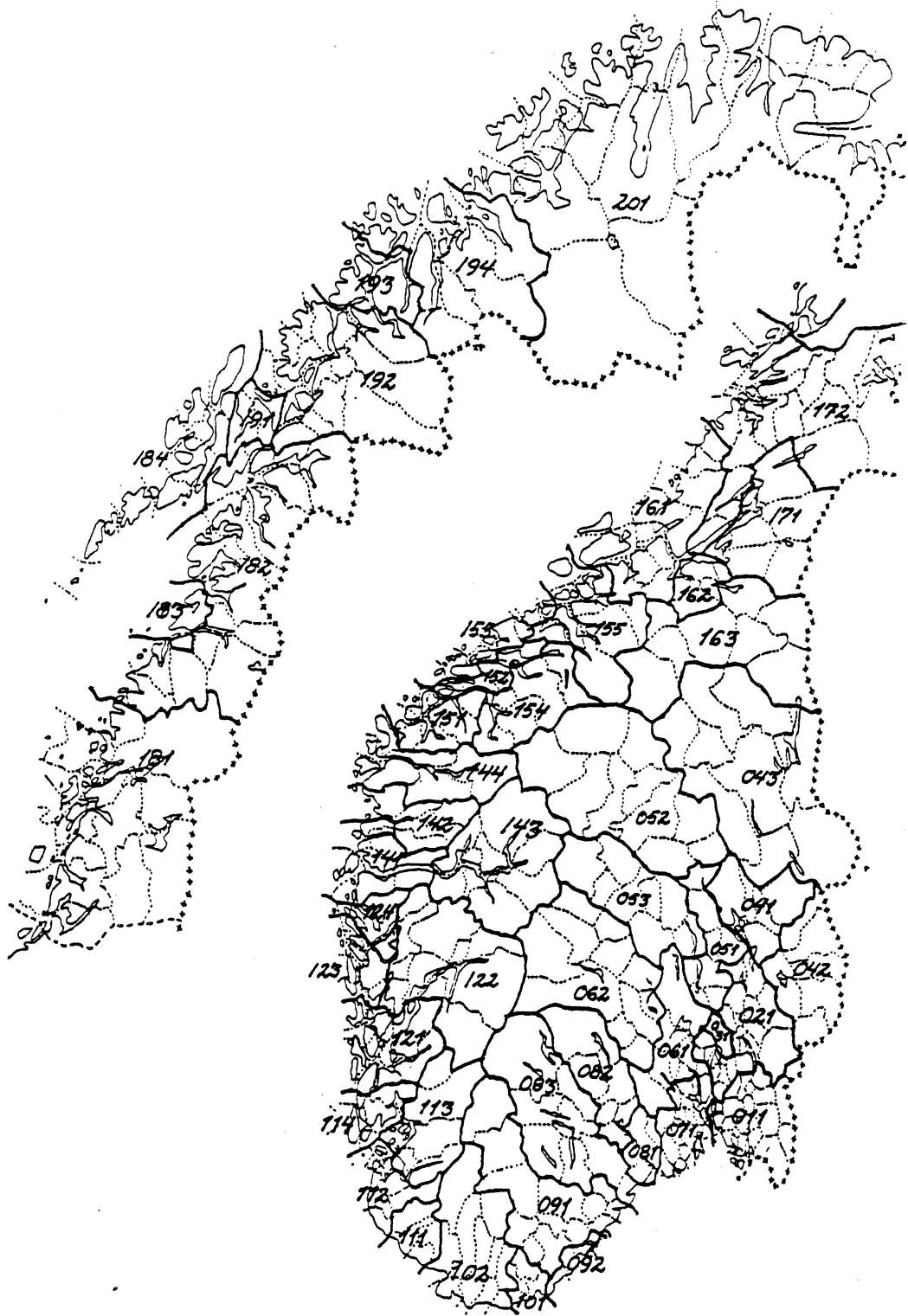
Table 2. Key statistics on Norwegian NUTS-2 and NUTS-3 regions. Mean population, land area, population density and population growth 1980-1990.

NUTS-2 (County)/ NUTS-3 region	Mean population 1990	Land area km ²	Population density 1990	Annual popu- lation growth 1980-1990 Per cent
Norway	4241473	306622	13.8	0.38
01 Østfold	238163	3891	61.2	0.23
011 Østfold	238163	3891	61.2	0.23
02 Akershus	416309	4587	90.8	1.24
021 Akershus	416309	4587	90.8	1.24
03 Oslo	460004	427	1078.3	0.14
031 Oslo	460004	427	1078.3	0.14
04 Hedmark	187099	26120	7.2	0.01
041 Sentrale Hedmark	98636	3676	26.8	0.24
042 Solør/Odal	55418	4982	11.1	-0.10
043 Østerdalen	33046	17462	1.9	-0.49
05 Oppland	182472	24073	7.6	0.11
051 Sentrale Oppland	103004	2951	34.9	0.32
052 Gudbrandsdalen	46995	14475	3.2	-0.27
053 Land/Valdres	32474	6648	4.9	-0.01
06 Buskerud	224981	13663	16.5	0.50
061 Nedre Buskerud	191940	3997	48.0	0.55
062 Øvre Buskerud	33041	9666	3.4	0.22
07 Vestfold	197781	2140	92.4	0.60
071 Vestfold	197781	2140	92.4	0.60
08 Telemark	162925	14186	11.5	0.07
081 Grenland	95005	1365	69.6	0.23
082 Østre Telemark	37058	4453	8.3	-0.21
083 Vestre Telemark	30863	8369	3.7	-0.09
09 Aust-Agder	97097	8485	11.4	0.74
091 Østre/Indre Agder	35487	7783	4.6	0.25
092 Sentrale Aust-Agder	61610	702	87.8	1.04
10 Vest-Agder	144559	6817	21.2	0.60
101 Kristiansandsområdet	89503	973	92.0	0.84
102 Vestre Agder	55056	5844	9.4	0.21
11 Rogaland	336830	8553	39.4	1.03
111 Dalane	21315	1604	13.3	0.51
112 Jæren	213279	1597	133.6	1.33
113 Ryfylke	25593	4198	6.1	0.21
114 Nord-Rogaland	76643	1155	66.4	0.68

Table 2 (cont.). Key statistics on Norwegian NUTS-2 and NUTS-3 regions. Mean population, land area, population density and population growth 1980-1990.

NUTS-2 (County)/ NUTS-3 region	Mean population 1990	Land area km ²	Population density 1990	Annual popu- lation growth 1980-1990 Per cent
12 Hordaland	410073	14962	27.4	0.48
121 Sunnhordland	59299	3043	19.5	0.61
122 Indre Hordaland	50611	9463	5.3	-0.29
123 Bergensområdet	266843	971	274.8	0.54
124 Nordhordland	33321	1485	22.4	1.00
14 Sogn og Fjordane	106577	17925	5.9	0.09
141 Ytre Sogn/Dalsfjorden	16812	2613	6.4	-0.41
142 Sunnfjord	27191	2749	9.9	0.90
143 Indre Sogn	28616	8433	3.4	-0.10
144 Nordfjord	33958	4130	8.2	-0.11
15 Møre og Romsdal	238312	14597	16.3	0.10
151 Søre Sunnmøre	50673	2384	21.3	0.19
152 Ålesund/Moldeområdet	76452	1093	69.9	0.45
153 Ytre Møre og Romsdal	60973	1225	49.8	-0.04
154 Indre Sunnmøre/Romsdal	18863	4427	4.3	-0.41
155 Nordre/Indre Nordmøre	31352	5469	5.7	-0.26
16 Sør-Trøndelag	250710	17839	14.1	0.26
161 Ytre Sør-Trøndelag	48533	5477	8.9	-0.14
162 Trondheimsområdet	169694	1529	111.0	0.44
163 Indre Sør-Trøndelag	32483	10834	3.0	-0.06
17 Nord-Trøndelag	127042	21056	6.0	0.12
171 Indre Nord-Trøndelag	86906	7071	12.3	0.28
172 Namdalen	40136	13986	2.9	-0.21
18 Nordland	239468	36302	6.6	-0.19
181 Helgeland	79655	17045	4.7	-0.31
182 Salten og Ofoten	66465	14927	4.5	-0.36
183 Bodø	36743	872	42.2	1.13
184 Lofoten og Vesterålen	56605	3458	16.4	-0.62
19 Troms	146705	25121	5.8	0.02
191 Sør/Midt-Troms	75364	12507	6.0	-0.36
192 Tromsø	50938	2520	20.2	0.99
193 Nord-Troms	20404	10095	2.0	-0.81
20 Finnmark	74369	45879	1.6	-0.54
201 Finnmark	74369	45879	1.6	-0.54

Figure 1. The NUTS-3 regions



3. REGIONAL VALUE ADDED COMPILATION 1986-1990

3.1. Introduction

Statistics Norway compiled the first set of regional accounts for the year 1965 (published in 1970). Since then, regional accounts have been constructed with 3-4 years intervals. The regional units have been the 19 Norwegian counties. The latest complete regional accounts apply to the year 1986. The accounting work has been performed within the national accounts division. The conceptual and definitional structure of the national accounts has been the framework also for the regional accounts. The Norwegian national accounting system is based on recommendations given by the UN (SNA), and the industrial classification corresponds to the International Standard Industrial Classification of all Economic Activities (ISIC).

The regional accounts have been designed as a breakdown of input-output figures from the national accounts. Regional output and input figures have been calculated in a rather disaggregated manner, specifying about 180 branches (industries) and 300 commodities. Gross output, intermediate consumption and value added are allocated to counties according to the location of the producing units. Components of value added, household and government consumption and gross fixed capital formation have also been allocated to regions. Exports and imports have, however, not been regionalized.

Data from the regional accounts have been used for various planning and research purposes. These data have enabled construction of different types of economic forecasting models.

In 1992 Statistics Norway started a project with the aim to allocate gross value added (gross domestic product) for the year 1990 to the Norwegian NUTS-3 regions. These calculations were based on somewhat simplified methods compared to the complete regional accounts compilation, and preliminary figures were available in March 1993. The work was carried out by a request from the Norwegian Ministry of Local Government and Labour. The Ministry also decided the NUTS-3 delimitation containing 49 regions. The focus was on the total value added per capita in the regions and not on the industrial breakdown. These estimates have been further improved and revised during 1993.

3.2. Principles for the 1990 regionalization of GVA

The methodological approach has been to allocate national accounts figures of gross value added (GVA) to regions by using distributional keys corresponding to each industry in the national accounts system. The keys are constructed on the basis of indicators which reflect as closely as possible the feature to be estimated. The distributional keys are based on statistics related to establishments (local kind of activity units). The guiding allocation principle has been "*resident producer units*". The statistical sources are outlined in chapter 3.3 below.

The allocation principle of resident producer units also applies to establishments belonging to an enterprise located in a central region. In a few business services and transport industries, some of the operations can be considered as exports of services to other regions. The value added is thus located analogous to the treatment of exports of services between countries. Hence, the value added produced by a business consultant, for instance, is located to the region of the establishment that he represents, even though the service may have been executed in another region.

The first step of the breakdown procedure was to allocate GVA within each industry to a local level, i.e. the municipal level. Secondly, these local value added figures were aggregated to total NUTS-3 figures, by adding across industries and municipalities within each region.

As far as we can see there are no major inconsistencies between our regional methodological approach and the EC approach (referring to Document E/reg/54 from Eurostat). Some industries, like credit services, are however not treated according to EC recommendations. Besides, our national accounting system is based on SNA and not on ESA.

Ancillary activities are allocated to the same industry as the enterprise's main activities and to the region where they are actually situated. Value added in such activities comprise only wages and salaries. Building sites are normally not considered to be independent units.

Only value added figures at market prices have been allocated to regions. We have made no attempt to regionalize taxes and subsidies linked to production, and consequently GVA at factor cost is not estimated. This is according to the initial project specification from the Ministry.

Gross value added in *oil activities* on the Norwegian continental shelf is allocated to the extra-regio. This includes crude petroleum and natural gas production and pipeline transport. About 95 per cent of the total GVA in this industry is allocated to the continental shelf. About 5 per cent of the GVA is allocated to NUTS-3 regions according to the location of the ancillary units in this industry. GVA in ancillary units comprise compensation of employees in administrative offices and supply bases. Value added in Norwegian oil drilling activities (on or outside the continental shelf) is fully allocated to NUTS-3 regions.

Additionally, we have attempted to allocate total value added in crude petroleum and natural gas production and pipeline transport to NUTS-3 regions by a simplified *ad hoc* procedure, based on the site of the location of the onshore ancillary units. The allocation method combines regional statistics providing information on the onshore establishments in this industry and income statistics about their respective enterprises. Due to the size of the oil industry in the Norwegian economy and the concentration of the ancillary activities to certain regions, these assumptions had a major influence on the regional value added totals.

The islands Svalbard and Jan Mayen and embassies abroad are also parts of the Norwegian territory, but do not belong to municipalities within the NUTS-3 classifications. The value added generated at these sites is rather insignificant, amounting to about 0,05 per cent of GDP, and is allocated to the extra-regio.

3.3. Statistical sources in the 1990 regionalization of GVA

The methods applied to break down gross value added to the municipal level vary across industries. The crucial step is to find adequate statistics explaining the local distribution of value added of each industry. The available sources for calculating the regional distribution of GVA are quite reliable in some industries and more imperfect in others.

Agriculture, forestry and fishing

In these industries, except the breeding of fish, data on *pensionable income of self-employed persons* is used to regionalize value added. The income data are available from the register of the taxation authorities. As to the breeding of fish, the distributional key is based on the number of man-hours applied in each municipality available from official statistics for this industry.

Manufacturing industries, mining, quarrying and oil extraction

In Norway, statistical sources about the manufacturing industries are generally more developed than statistics covering the service industries. Establishment figures of gross output and intermediate consumption of each manufacturing industry are available at a municipal level. Hence, estimates of local values added in manufacturing industries (including mining and quarrying) are readily available. As emphasized above only ancillary activities in oil extraction are allocated to municipalities.

Wholesale and retail trade, building and construction etc.

Total sales is the distributional key used for wholesale and retail trade, building and construction, oil drilling and some minor transport services. Total sales is equivalent to gross output, except for the fact that the latter also includes increase in stocks. As long as neither the proportion of intermediate input to total sales value nor increase in stocks differ much across regions, total sales value provide an appropriate proxy for the distribution of value added.

Figures of total sales are available from the Norwegian Central Register of Establishments and Enterprises. With the exception of building and construction, this register provides statistics relating to local kind of activity unit. As to building and construction, only major building sites of some considerable permanence are recorded as units. However, both onshore administration offices in oil drilling and local offices belonging to national-wide construction enterprises are recorded as units.

Local and central government administration and private services

As there are no market values on services produced by the central and local government, and the operating surplus is zero by definition, value added comprises compensation of employees and consumption of capital. The latter does not account for more than 6% of total value added in these industries in 1990. Thus, *compensation of employees* is considered to be an adequate indicator and distributional key in these industries. In local government, information on compensation of employees is available from the Municipal Accounts, but not as regards the county and central government services.

In central government services, except defence and a few minor central government activities, the indicator and distributional key is the municipal distribution of *number of employees* (at the place of work) which stem from the Central Register of Civil Servants. The number of employees also applies to the county government services, to break down the county value added to the municipal level. Information about local employment is available from various statistics on each of these services, whereas value added generated in each county stems from the Municipal Accounts.

GVA in the *defence industry* is allocated to municipal level according to unofficial figures of the location of *number of employees*. These figures from the Ministry of Defence also include the number of soldiers.

Furthermore, compensation of employees is used as the distributional indicator in industries like financial services, hotels and restaurants, transport services and electricity supply. This means that gross operating surplus in these industries is allocated proportional to compensation of employees which is a questionable assumption. Imputed output of bank services is then allocated according to the compensation of employees in credit services.

The *number of employees* is basically a less satisfactory regional indicator than *compensation of employees*, since compensation per employee may differ systematically across regions in some industries. In local and central government services the payment of the same position is about the same level, but most well-paid positions within the central government tend to be located in central regions.

Ocean transport

As value added in ocean transport is mostly generated outside the Norwegian territory, the problem of allocating GVA is similar to those of the oil activities on the continental shelf. The regional allocation is based on the residence of the establishments, and the distributional key is the number of employees. This is considered to be a rather weak allocating method, because differences in freight rates, types of cargos etc., probably contribute a lot more to the variations in GVA in various regions than the number of employees.

VAT and import taxes

Value added tax (VAT), taxes on investment expenditures, custom duty and other taxes on imported products are not allocated to industries, but treated as correction items in the national gross value added estimates. As directly imported products provide no link to production within the NUTS-3 regions, all import taxes are allocated to regions proportional to the total GVA.

The VAT related to domestic production is allocated to the NUTS-3 regions by a two-step procedure. First, the figures are allocated to various industries in accordance with each industry's share of the value added generated in basic prices. This allocation is based on a disaggregated table of the national accounts. Secondly, each industry's share of VAT is allocated to the regional level by the GVA distributional key corresponding to each industry. The allocation of the investment expenditure tax is treated in the same way as VAT, bearing in mind that just a few industries are liable to this tax.

3.4. Regionalization of GVA for the years 1986-1989

Due to limited time resources we have used a somewhat different methodological approach for these years compared to the 1990 compilation. The first step was to estimate value added figures for counties (NUTS-2 regions) consistent with the national accounts figures. The second step was to break down GVA from NUTS-2 to NUTS-3 regions. These calculations were made at a more aggregated industry level (42 industries) than used in the 1990 compilation. The regional distribution of the NUTS-2 figures to NUTS-3 level assumes the same distributional structure within each industry in the years 1986-1989 as in 1990, and consequently, these estimates are less accurate.

For the year 1986 we could use a complete set of regional accounts already available on NUTS-2 level. Some minor reallocation of activities originally allocated to the extra-region was, however, required to match the principles used in the 1990 calculations. This was the case for ocean transport, oil drilling, air transport and the defence industry. These industries are distributed according to the 1990 figures for all years 1986-1989. GVA in these industries amounted to 4.5 per cent of total GVA in 1989.

For the period 1987-1989, GVA NUTS-2 figures are constructed as for 1986 (and in most cases also consistent with the 1990 compilation) for those industries where regional statistics are most readily available. This covers mining and manufacture, local government administration,

business services, production of electricity, production of oil and gas, hotel and restaurant services etc. GVA in these activities covers 49.7 per cent of total GVA (1989). For several industries we have, however, estimated NUTS-2 figures as a moving average of the corresponding regional distributions for 1986 and 1990. This applies to agriculture, forestry and fishing, building and construction, central government, and most of communication and personal services. GVA in these industries amounts to 35.7 per cent of total GVA (in 1989).

For the years 1986-1989, the same part of VAT and investment expenditure tax was supposed to be related to imports as for 1990. The remaining part of these taxes was distributed by proportionally adjusting the percentage of these taxes in relation to total GVA of each county in 1990 to yearly totals.

Among the changes in methods and sources between the calculations for 1986 and 1990, the most important ones relate to agriculture, forestry and fishing and to the construction industry. In 1986, agriculture, forestry and fishing were regionalized according to detailed calculations for a large number of relevant products. Later, we have constructed 1989 accounts in this way for agriculture and forestry (see chapter 4). These calculations were, however, not yet available when the 1990 GVA figures were estimated. The building and construction industry was in the 1986 accounts located according to the regional distribution of relevant investments.

3.5. Results

The results of the regional value added compilations for the years 1986-1990 are presented in tables 3-12. In tables 8-12 we have calculated GVA per capita for the NUTS-2 and NUTS-3 regions and an index showing the relative values. In constructing this index we have allocated the GVA corresponding to undistributed extra-regio activities to all regions in proportion to their total GVA.

Table 3. Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1986.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
01 ØSTFOLD	24448	804	23644
011 Østfold	24448	804	23644
02 AKERSHUS	43036	119	42917
021 Akershus	43036	119	42917
03 OSLO	106747	7297	99450
031 Oslo	106747	7297	99450
04 HEDMARK	16802	603	16198
041 Sentrale Hedmark	9463	352	9110
042 Solør/Odal	4713	160	4553
043 Østerdalen	2627	91	2535
05 OPPLAND	15039	947	14092
051 Sentrale Oppland	9435	661	8773
052 Gudbrandsdalen	3330	163	3167
053 Land/Valdres	2275	123	2152
06 BUSKERUD	23850	1334	22517
061 Nedre Buskerud	20760	1110	19651
062 Øvre Buskerud	3090	224	2866
07 VESTFOLD	18240	602	17637
071 Vestfold	18240	602	17637
08 TELEMARK	16754	512	16242
081 Grenland	11257	312	10945
082 Østre Telemark	3149	116	3033
083 Vestre Telemark	2349	84	2265
09 AUST-AGDER	8989	441	8547
091 Østre/Indre Agder	2618	113	2506
092 Sentrale Aust-Agder	6371	329	6042
10 VEST-AGDER	14439	494	13945
101 Kristiansandsområdet	10143	338	9804
102 Vestre Agder	4296	155	4141
11 ROGALAND	40182	1224	38958
111 Dalane	1912	61	1850
112 Jæren	27564	872	26692
113 Ryfylke	2057	56	2001
114 Nord-Rogaland	8650	235	8415
12 HORDALAND	42823	1051	41773
121 Sunnhordland	5334	77	5257
122 Indre Hordaland	4506	74	4432
123 Bergensområdet	30318	864	29454
124 Nordhordland	2665	35	2630

Table 3 (cont.). Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1986.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
14 SOGN OG FJORDANE	9571	432	9139
141 Ytre Sogn/Dalsfjorden	1276	55	1221
142 Sunnfjord	2699	142	2557
143 Indre Sogn	3028	116	2913
144 Nordfjord	2569	120	2448
15 MØRE OG ROMSDAL	23357	845	22512
151 Søre Sunnmøre	4472	123	4349
152 Ålesund/Moldeområdet	9335	442	8893
153 Ytre Møre og Romsdal	4878	162	4717
154 Indre Sunnmøre/Romsdal	1831	48	1783
155 Nordre/Indre Nordmøre	2841	70	2771
16 SØR-TRØNDELAG	25768	994	24773
161 Ytre Sør-Trøndelag	3525	120	3405
162 Trondheimsområdet	19718	787	18931
163 Indre Sør-Trøndelag	2525	88	2437
17 NORD-TRØNDELAG	10636	346	10290
171 Indre Nord-Trøndelag	7729	231	7498
172 Namdalen	2908	115	2793
18 NORDLAND	21215	903	20311
181 Helgeland	6708	285	6423
182 Salten og Ofoten	5773	195	5578
183 Bodø	4338	238	4101
184 Lofoten og Vesterålen	4395	185	4209
19 TROMS	14802	874	13928
191 Sør/Midt-Troms	6725	315	6410
192 Tromsø	6788	482	6306
193 Nord-Troms	1290	77	1212
20 FINNMARK	6743	456	6287
201 Finnmark	6743	456	6287
99 UNDISTRIBUTED ACT.	50558	0	50558
991 Svalbard, Jan Mayen mm.	60	0	60
992 Embassis etc.	227	0	227
999 Oil act. in North Sea	50271	0	50271
Total	533998	20280	513719

Table 4. Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1987.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
01 ØSTFOLD	27139	898	26241
011 Østfold	27139	898	26241
02 AKERSHUS	45637	327	45310
021 Akershus	45637	327	45310
03 OSLO	117670	8490	109180
031 Oslo	117670	8490	109180
04 HEDMARK	18937	713	18224
041 Sentrale Hedmark	10795	416	10379
042 Solør/Odal	5291	189	5102
043 Østerdalen	2851	108	2743
05 OPPLAND	16991	1051	15940
051 Sentrale Oppland	10677	733	9943
052 Gudbrandsdalen	3774	181	3593
053 Land/Valdres	2540	137	2403
06 BUSKERUD	26552	1487	25065
061 Nedre Buskerud	23130	1237	21893
062 Øvre Buskerud	3422	250	3172
07 VESTFOLD	20666	780	19886
071 Vestfold	20666	780	19886
08 TELEMARK	18814	622	18192
081 Grenland	12842	379	12463
082 Østre Telemark	3445	141	3305
083 Vestre Telemark	2527	102	2424
09 AUST-AGDER	9406	506	8900
091 Østre/Indre Agder	2834	129	2705
092 Sentrale Aust-Agder	6572	377	6195
10 VEST-AGDER	16265	626	15639
101 Kristiansandsområdet	11203	429	10774
102 Vestre Agder	5061	197	4865
11 ROGALAND	44187	1504	42683
111 Dalane	2164	75	2089
112 Jæren	30419	1071	29348
113 Ryfylke	2325	69	2256
114 Nord-Rogaland	9278	289	8989
12 HORDALAND	47419	1572	45847
121 Sunnhordland	5753	116	5637
122 Indre Hordaland	5083	111	4972
123 Bergensområdet	33455	1293	32162
124 Nordhordland	3129	53	3076

Table 4 (cont.). Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1987.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
14 SOGN OG FJORDANE	11151	518	10633
141 Ytre Sogn/Dalsfjorden	1489	65	1423
142 Sunnfjord	3120	170	2950
143 Indre Sogn	3560	138	3422
144 Nordfjord	2982	144	2838
15 MØRE OG ROMSDAL	26038	1065	24974
151 Søre Sunnmøre	5057	155	4902
152 Ålesund/Moldeområdet	10342	557	9785
153 Ytre Møre og Romsdal	5499	204	5295
154 Indre Sunnmøre/Romsdal	1987	61	1927
155 Nordre/Indre Nordmøre	3153	88	3066
16 SØR-TRØNDELAG	28552	1222	27330
161 Ytre Sør-Trøndelag	3885	148	3737
162 Trondheimsområdet	21867	966	20900
163 Indre Sør-Trøndelag	2801	108	2693
17 NORD-TRØNDELAG	11514	418	11096
171 Indre Nord-Trøndelag	8261	279	7982
172 Namdalen	3253	139	3114
18 NORDLAND	23228	1064	22164
181 Helgeland	7224	336	6888
182 Salten og Ofoten	6351	230	6121
183 Bodø	4797	280	4517
184 Lofoten og Vesterålen	4856	219	4638
19 TROMS	16174	984	15190
191 Sør/Midt-Troms	7305	354	6951
192 Tromsø	7468	542	6926
193 Nord-Troms	1401	87	1314
20 FINNMARK	7329	483	6846
201 Finnmark	7329	483	6846
99 UNDISTRIBUTED ACT.	52140	0	52140
991 Svalbard, Jan Mayen mm.	56	0	56
992 Embassier etc.	228	0	228
999 Oil act. in North Sea	51857	0	51857
Total	585807	24328	561479

Table 5. Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1988.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
01 ØSTFOLD	28016	840	27176
011 Østfold	28016	840	27176
02 AKERSHUS	49081	517	48565
021 Akershus	49081	517	48565
03 OSLO	121904	8319	113584
031 Oslo	121904	8319	113584
04 HEDMARK	20037	710	19327
041 Sentrale Hedmark	11499	415	11085
042 Solør/Odal	5556	188	5368
043 Østerdalen	2982	108	2875
05 OPPLAND	17410	976	16434
051 Sentrale Oppland	10944	681	10263
052 Gudbrandsdalen	3853	168	3685
053 Land/Valdres	2613	127	2486
06 BUSKERUD	27896	1390	26506
061 Nedre Buskerud	24379	1156	23222
062 Øvre Buskerud	3517	234	3284
07 VESTFOLD	21867	847	21020
071 Vestfold	21867	847	21020
08 TELEMARK	19212	637	18575
081 Grenland	13171	388	12783
082 Østre Telemark	3476	144	3332
083 Vestre Telemark	2564	105	2460
09 AUST-AGDER	9406	488	8918
091 Østre/Indre Agder	2795	125	2670
092 Sentrale Aust-Agder	6611	364	6248
10 VEST-AGDER	18735	667	18069
101 Kristiansandsområdet	12800	457	12343
102 Vestre Agder	5936	210	5726
11 ROGALAND	45494	1556	43938
111 Dalane	2198	78	2120
112 Jæren	30765	1108	29657
113 Ryfylke	2580	71	2509
114 Nord-Rogaland	9951	299	9652
12 HORDALAND	50704	1905	48799
121 Sunnhordland	6137	140	5997
122 Indre Hordaland	5437	134	5303
123 Bergensområdet	35830	1566	34264
124 Nordhordland	3299	64	3235

Table 5 (cont.). Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1988.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
14 SOGN OG FJORDANE	12417	523	11895
141 Ytre Sogn/Dalsfjorden	1715	66	1650
142 Sunnfjord	3366	172	3194
143 Indre Sogn	4090	140	3950
144 Nordfjord	3246	146	3101
15 MØRE OG ROMSDAL	26950	1128	25822
151 Søre Sunnmøre	5138	165	4973
152 Ålesund/Moldeområdet	10648	590	10058
153 Ytre Møre og Romsdal	5652	216	5436
154 Indre Sunnmøre/Romsdal	2024	64	1960
155 Nordre/Indre Nordmøre	3489	93	3396
16 SØR-TRØNDELAG	30886	1265	29622
161 Ytre Sør-Trøndelag	4335	153	4183
162 Trondheimsområdet	23584	1000	22583
163 Indre Sør-Trøndelag	2967	112	2856
17 NORD-TRØNDELAG	12824	426	12398
171 Indre Nord-Trøndelag	9272	285	8988
172 Namdalen	3552	142	3411
18 NORDLAND	25428	1057	24371
181 Helgeland	8187	334	7854
182 Salten og Ofoten	6760	228	6531
183 Bodø	5239	278	4961
184 Lofoten og Vesterålen	5241	217	5024
19 TROMS	16229	929	15299
191 Sør/Midt-Troms	7355	335	7020
192 Tromsø	7478	512	6965
193 Nord-Troms	1396	82	1314
20 FINNMARK	7294	424	6870
201 Finnmark	7294	424	6870
99 UNDISTRIBUTED ACT.	46093	0	46093
991 Svalbard, Jan Mayen mm.	13	0	13
992 Embassis etc.	239	0	239
999 Oil act. in North Sea	45842	0	45842
Total	607882	24604	583279

Table 6. Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1989.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
01 ØSTFOLD	28217	804	27413
011 Østfold	28217	804	27413
02 AKERSHUS	50662	732	49931
021 Akershus	50662	732	49931
03 OSLO	127409	8382	119026
031 Oslo	127409	8382	119026
04 HEDMARK	19683	728	18955
041 Sentrale Hedmark	11330	425	10905
042 Solør/Odal	5439	193	5246
043 Østerdalen	2914	110	2804
05 OPPLAND	17731	926	16805
051 Sentrale Oppland	11144	646	10497
052 Gudbrandsdalen	3916	159	3757
053 Land/Valdres	2671	120	2550
06 BUSKERUD	28702	1328	27374
061 Nedre Buskerud	25130	1105	24025
062 Øvre Buskerud	3572	223	3349
07 VESTFOLD	22808	943	21865
071 Vestfold	22808	943	21865
08 TELEMARK	19667	672	18995
081 Grenland	13527	409	13118
082 Østre Telemark	3542	152	3390
083 Vestre Telemark	2598	110	2487
09 AUST-AGDER	9913	484	9429
091 Østre/Indre Agder	2814	123	2691
092 Sentrale Aust-Agder	7099	361	6738
10 VEST-AGDER	18664	730	17934
101 Kristiansandsområdet	12744	500	12244
102 Vestre Agder	5919	229	5690
11 ROGALAND	49215	1656	47558
111 Dalane	2261	83	2178
112 Jæren	33007	1180	31827
113 Ryfylke	2680	76	2605
114 Nord-Rogaland	11267	318	10949
12 HORDALAND	51297	2311	48986
121 Sunnhordland	6039	170	5869
122 Indre Hordaland	5570	163	5407
123 Bergensområdet	37085	1900	35185
124 Nordhordland	2603	78	2525

Table 6 (cont.). Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1989.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
14 SOGN OG FJORDANE	12965	543	12422
141 Ytre Sogn/Dalsfjorden	1774	68	1706
142 Sunnfjord	3588	178	3409
143 Indre Sogn	4211	145	4066
144 Nordfjord	3393	151	3241
15 MØRE OG ROMSDAL	27775	1228	26548
151 Søre Sunnmøre	5235	179	5056
152 Ålesund/Moldeområdet	11008	643	10365
153 Ytre Møre og Romsdal	5798	235	5563
154 Indre Sunnmøre/Romsdal	2054	70	1984
155 Nordre/Indre Nordmøre	3681	101	3579
16 SØR-TRØNDELAG	30144	1347	28797
161 Ytre Sør-Trøndelag	4317	163	4155
162 Trondheimsområdet	22893	1065	21828
163 Indre Sør-Trøndelag	2934	119	2815
17 NORD-TRØNDELAG	12912	447	12464
171 Indre Nord-Trøndelag	9338	299	9039
172 Namdalen	3574	149	3425
18 NORDLAND	24494	1080	23414
181 Helgeland	7883	341	7542
182 Salten og Ofoten	6535	233	6302
183 Bodø	5024	284	4740
184 Lofoten og Vesterålen	5052	222	4830
19 TROMS	16320	899	15421
191 Sør/Midt-Troms	7361	324	7037
192 Tromsø	7547	496	7052
193 Nord-Troms	1411	80	1332
20 FINNMARK	7479	374	7106
201 Finnmark	7479	374	7106
99 UNDISTRIBUTED ACT.	70939	0	70939
991 Svalbard, Jan Mayen mm.	61	0	60
992 Embassies etc.	252	0	252
999 Oil act. in North Sea	70626	0	70626
Total	646995	25612	621383

Table 7. Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1990.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
01 ØSTFOLD	28518	722	27796
011 Østfold	28518	722	27796
02 AKERSHUS	52838	911	51928
021 Akershus	52838	911	51928
03 OSLO	131610	7974	123636
031 Oslo	131610	7974	123636
04 HEDMARK	20853	705	20148
041 Sentrale Hedmark	12127	412	11716
042 Solør/Odal	5685	187	5498
043 Østerdalen	3041	107	2934
05 OPPLAND	18635	822	17813
051 Sentrale Oppland	11603	574	11029
052 Gudbrandsdalen	4207	141	4066
053 Land/Valdres	2825	107	2718
06 BUSKERUD	30046	1190	28856
061 Nedre Buskerud	26265	990	25275
062 Øvre Buskerud	3782	200	3582
07 VESTFOLD	24163	987	23176
071 Vestfold	24163	987	23176
08 TELEMARK	20404	669	19735
081 Grenland	13925	408	13517
082 Østre Telemark	3720	151	3568
083 Vestre Telemark	2760	110	2650
09 AUST-AGDER	10496	452	10043
091 Østre/Indre Agder	2943	115	2827
092 Sentrale Aust-Agder	7553	337	7216
10 VEST-AGDER	19050	753	18298
101 Kristiansandsområdet	12959	516	12443
102 Vestre Agder	6091	237	5855
11 ROGALAND	48729	1666	47063
111 Dalane	2324	83	2241
112 Jæren	32694	1186	31508
113 Ryfylke	2678	76	2602
114 Nord-Rogaland	11033	320	10713
12 HORDALAND	54479	2596	51883
121 Sunnhordland	6131	191	5940
122 Indre Hordaland	5697	183	5515
123 Bergensområdet	38809	2135	36674
124 Nordhordland	3842	88	3754

Table 7 (cont.). Gross value added at market prices by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1990.

Region	Total before deduction of imputed output of bank services	Imputed output of bank services	Total after deduction of imputed output of bank services
14 SOGN OG FJORDANE	13014	533	12481
141 Ytre Sogn/Dalsfjorden	1731	67	1664
142 Sunnfjord	3725	175	3550
143 Indre Sogn	3979	142	3836
144 Nordfjord	3579	149	3431
15 MØRE OG ROMSDAL	28281	1261	27020
151 Søre Sunnmøre	5497	184	5314
152 Ålesund/Moldeområdet	11094	660	10434
153 Ytre Møre og Romsdal	6074	241	5833
154 Indre Sunnmøre/Romsdal	2141	72	2069
155 Nordre/Indre Nordmøre	3475	104	3371
16 SØR-TRØNDELAG	30584	1355	29229
161 Ytre Sør-Trøndelag	4378	164	4214
162 Trondheimsområdet	23190	1072	22118
163 Indre Sør-Trøndelag	3016	120	2896
17 NORD-TRØNDELAG	13573	444	13130
171 Indre Nord-Trøndelag	9782	296	9486
172 Namdalen	3791	148	3644
18 NORDLAND	25699	1042	24656
181 Helgeland	7817	329	7488
182 Salten og Ofoten	6986	225	6760
183 Bodø	5298	274	5024
184 Lofoten og Vesterålen	5598	214	5384
19 TROMS	16792	817	15974
191 Sør/Midt-Troms	7553	294	7259
192 Tromsø	7745	451	7294
193 Nord-Troms	1494	72	1422
20 FINNMARK	7549	301	7248
201 Finnmark	7549	301	7248
99 UNDISTRIBUTED ACT.	90438	0	90438
991 Svalbard, Jan Mayen mm.	67	0	66
992 Embassier etc.	266	0	266
999 Oil act. in North Sea	90105	0	90105
Total	685751	25200	660550

Table 8. Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1986.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
01 ØSTFOLD	23644	235322	100475	90
011 Østfold	23644	235322	100475	90
02 AKERSHUS	42917	396341	108284	97
021 Akershus	42917	396341	108284	97
03 OSLO	99450	450247	220878	199
031 Oslo	99450	450247	220878	199
04 HEDMARK	16198	186216	86987	78
041 Sentrale Hedmark	9110	96677	94233	85
042 Solør/Odal	4553	55944	81385	73
043 Østerdalen	2535	33595	75461	68
05 OPPLAND	14092	181616	77591	70
051 Sentrale Oppland	8773	101561	86385	78
052 Gudbrandsdalen	3167	47617	66510	60
053 Land/Valdres	2152	32438	66327	60
06 BUSKERUD	22517	220588	102075	92
061 Nedre Buskerud	19651	187833	104618	94
062 Øvre Buskerud	2866	32755	87492	79
07 VESTFOLD	17637	192197	91767	83
071 Vestfold	17637	192197	91767	83
08 TELEMARK	16242	162489	99960	90
081 Grenland	10945	93915	116540	105
082 Østre Telemark	3033	37407	81073	73
083 Vestre Telemark	2265	31167	72667	65
09 AUST-AGDER	8547	95023	89949	81
091 Østre/Indre Agder	2506	35470	70637	64
092 Sentrale Aust-Agder	6042	59553	101451	91
10 VEST-AGDER	13945	140689	99122	89
101 Kristiansandsområdet	9804	85886	114155	103
102 Vestre Agder	4141	54803	75563	68
11 ROGALAND	38958	324900	119907	108
111 Dalane	1850	21009	88072	79
112 Jæren	26692	203533	131142	118
113 Ryfylke	2001	25527	78395	71
114 Nord-Rogaland	8415	74831	112449	101
12 HORDALAND	41773	400875	104204	94
121 Sunnhordland	5257	58419	89981	81
122 Indre Hordaland	4432	51232	86514	78
123 Bergensområdet	29454	259052	113700	102
124 Nordhordland	2630	32172	81736	74

Table 8 (cont.). Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1986.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
14 SOGN OG FJORDANE	9139	105985	86228	78
141 Ytre Sogn/Dalsfjorden	1221	17261	70755	64
142 Sunnfjord	2557	26071	98067	88
143 Indre Sogn	2913	28575	101928	92
144 Nordfjord	2448	34078	71844	65
15 MØRE OG ROMSDAL	22512	237256	94884	85
151 Søre Sunnmøre	4349	50126	86761	78
152 Ålesund/Moldeområdet	8893	75025	118527	107
153 Ytre Møre og Romsdal	4717	61323	76914	69
154 Indre Sunnmøre/Romsdal	1783	19044	93615	84
155 Nordre/Indre Nordmøre	2771	31738	87302	79
16 SØR-TRØNDELAG	24773	246978	100306	90
161 Ytre Sør-Trøndelag	3405	49270	69117	62
162 Trondheimsområdet	18931	164844	114844	103
163 Indre Sør-Trøndelag	2437	32864	74145	67
17 NORD-TRØNDELAG	10290	126631	81263	73
171 Indre Nord-Trøndelag	7498	85821	87366	79
172 Namdalen	2793	40810	68429	62
18 NORDLAND	20311	241503	84104	76
181 Helgeland	6423	80932	79365	71
182 Salten og Ofoten	5578	67908	82145	74
183 Bodø	4101	34724	118088	106
184 Lofoten og Vesterålen	4209	57939	72652	65
19 TROMS	13928	146589	95013	85
191 Sør/Midt-Troms	6410	77008	83237	75
192 Tromsø	6306	48460	130118	117
193 Nord-Troms	1212	21121	57403	52
20 FINNMARK	6287	75161	83642	75
201 Finnmark	6287	75161	83642	75
99 UNDISTRIBUTED ACT.	50558	.	.	.
991 Svalbard, Jan Mayen mm	60	.	.	.
992 Embassies etc.	227	.	.	.
999 Oil act. in North Sea	50271	.	.	.
Total	513719	4166606		

Table 9. Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1987.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
01 ØSTFOLD	26241	236350	111026	91
011 Østfold	26241	236350	111026	91
02 AKERSHUS	45310	402717	112512	92
021 Akershus	45310	402717	112512	92
03 OSLO	109180	452415	241326	198
031 Oslo	109180	452415	241326	198
04 HEDMARK	18224	186242	97850	80
041 Sentrale Hedmark	10379	97111	106875	88
042 Solør/Odal	5102	55806	91422	75
043 Østerdalen	2743	33325	82314	68
05 OPPLAND	15940	181889	87635	72
051 Sentrale Oppland	9943	101833	97642	80
052 Gudbrandsdalen	3593	47467	75703	62
053 Land/Valdres	2403	32589	73743	61
06 BUSKERUD	25065	222224	112792	93
061 Nedre Buskerud	21893	189261	115675	95
062 Øvre Buskerud	3172	32963	96241	79
07 VESTFOLD	19886	193650	102689	84
071 Vestfold	19886	193650	102689	84
08 TELEMARK	18192	162844	111716	92
081 Grenland	12463	94329	132126	109
082 Østre Telemark	3305	37368	88434	73
083 Vestre Telemark	2424	31147	77837	64
09 AUST-AGDER	8900	95694	93000	76
091 Østre/Indre Agder	2705	35534	76110	63
092 Sentrale Aust-Agder	6195	60160	102975	85
10 VEST-AGDER	15639	141590	110452	91
101 Kristiansandsområdet	10774	86684	124294	102
102 Vestre Agder	4865	54906	88599	73
11 ROGALAND	42683	328016	130124	107
111 Dalane	2089	21099	99014	81
112 Jæren	29348	206085	142409	117
113 Ryfylke	2256	25566	88242	73
114 Nord-Rogaland	8989	75266	119435	98
12 HORDALAND	45847	403575	113602	93
121 Sunnhordland	5637	58656	96099	79
122 Indre Hordaland	4972	50983	97531	80
123 Bergensområdet	32162	261207	123128	101
124 Nordhordland	3076	32729	93984	77

Table 9 (cont.). Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1987.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
14 SOGN OG FJORDANE	10633	105965	100344	82
141 Ytre Sogn/Dalsfjorden	1423	17143	83031	68
142 Sunnfjord	2950	26219	112510	92
143 Indre Sogn	3422	28564	119808	98
144 Nordfjord	2838	34039	83360	69
15 MØRE OG ROMSDAL	24974	237440	105180	86
151 Søre Sunnmøre	4902	50147	97745	80
152 Ålesund/Moldeområdet	9785	75487	129620	107
153 Ytre Møre og Romsdal	5295	61297	86389	71
154 Indre Sunnmøre/Romsdal	1927	18936	101748	84
155 Nordre/Indre Nordmøre	3066	31573	97096	80
16 SØR-TRØNDELAG	27330	247616	110374	91
161 Ytre Sør-Trøndelag	3737	48971	76315	63
162 Trondheimsområdet	20900	165935	125955	104
163 Indre Sør-Trøndelag	2693	32710	82327	68
17 NORD-TRØNDELAG	11096	126659	87605	72
171 Indre Nord-Trøndelag	7982	86157	92647	76
172 Namdalen	3114	40502	76880	63
18 NORDLAND	22164	240421	92186	76
181 Helgeland	6888	80351	85725	70
182 Salten og Ofoten	6121	67439	90765	75
183 Bodø	4517	35170	128419	106
184 Lofoten og Vesterålen	4638	57461	80712	66
19 TROMS	15190	146483	103699	85
191 Sør/Midt-Troms	6951	76579	90766	75
192 Tromsø	6926	49144	140923	116
193 Nord-Troms	1314	20760	63285	52
20 FINNMARK	6846	74364	92061	76
201 Finnmark	6846	74364	92061	76
99 UNDISTRIBUTED ACT.	52140	.	.	.
991 Svalbard, Jan Mayen mm	56	.	.	.
992 Embassies etc.	228	.	.	.
999 Oil act. in North Sea	51857	.	.	.
Total	561479	4186154		

Table 10. Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1988.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
01 ØSTFOLD	27176	237521	114414	90
011 Østfold	27176	237521	114414	90
02 AKERSHUS	48565	408436	118904	93
021 Akershus	48565	408436	118904	93
03 OSLO	113584	454927	249676	196
031 Oslo	113584	454927	249676	196
04 HEDMARK	19327	186612	103568	81
041 Sentrale Hedmark	11085	97699	113457	89
042 Solør/Odal	5368	55742	96297	75
043 Østerdalen	2875	33171	86663	68
05 OPPLAND	16434	182427	90085	71
051 Sentrale Oppland	10263	102347	100278	79
052 Gudbrandsdalen	3685	47328	77863	61
053 Land/Valdres	2486	32752	75892	59
06 BUSKERUD	26506	223923	118371	93
061 Nedre Buskerud	23222	190634	121817	95
062 Øvre Buskerud	3284	33289	98639	77
07 VESTFOLD	21020	195288	107633	84
071 Vestfold	21020	195288	107633	84
08 TELEMARK	18575	163224	113798	89
081 Grenland	12783	94703	134979	106
082 Østre Telemark	3332	37376	89148	70
083 Vestre Telemark	2460	31145	78976	62
09 AUST-AGDER	8918	96290	92612	73
091 Østre/Indre Agder	2670	35576	75053	59
092 Sentrale Aust-Agder	6248	60714	102900	81
10 VEST-AGDER	18069	142683	126635	99
101 Kristiansandsområdet	12343	87639	140836	110
102 Vestre Agder	5726	55044	104024	82
11 ROGALAND	43938	331447	132564	104
111 Dalane	2120	21212	99948	78
112 Jæren	29657	208834	142012	111
113 Ryfylke	2509	25628	97901	77
114 Nord-Rogaland	9652	75773	127380	100
12 HORDALAND	48799	406496	120048	94
121 Sunnhordland	5997	59006	101634	80
122 Indre Hordaland	5303	50871	104252	82
123 Bergensområdet	34264	263422	130072	102
124 Nordhordland	3235	33197	97449	76

Table 10 (cont.). Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1988.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
14 SOGN OG FJORDANE	11895	106203	111998	88
141 Ytre Sogn/Dalsfjorden	1650	17042	96790	76
142 Sunnfjord	3194	26478	120636	95
143 Indre Sogn	3950	28627	137989	108
144 Nordfjord	3101	34056	91044	71
15 MØRE OG ROMSDAL	25822	237944	108523	85
151 Søre Sunnmøre	4973	50310	98851	77
152 Ålesund/Moldeområdet	10058	75884	132539	104
153 Ytre Møre og Romsdal	5436	61243	88764	70
154 Indre Sunnmøre/Romsdal	1960	18895	103715	81
155 Nordre/Indre Nordmøre	3396	31612	107418	84
16 SØR-TRØNDELAG	29622	248851	119033	93
161 Ytre Sør-Trøndelag	4183	48763	85776	67
162 Trondheimsområdet	22583	167408	134900	106
163 Indre Sør-Trøndelag	2856	32680	87381	68
17 NORD-TRØNDELAG	12398	126760	97808	77
171 Indre Nord-Trøndelag	8988	86476	103932	81
172 Namdalen	3411	40284	84661	66
18 NORDLAND	24371	239845	101611	80
181 Helgeland	7854	79914	98279	77
182 Salten og Ofoten	6531	67197	97198	76
183 Bodø	4961	35614	139310	109
184 Lofoten og Vesterålen	5024	57120	87959	69
19 TROMS	15299	146570	104382	82
191 Sør/Midt-Troms	7020	76175	92158	72
192 Tromsø	6965	49844	139738	110
193 Nord-Troms	1314	20551	63938	50
20 FINNMARK	6870	74054	92770	73
201 Finnmark	6870	74054	92770	73
99 UNDISTRIBUTED ACT.	46093	.	.	.
991 Svalbard, Jan Mayen mm	13	.	.	.
992 Embassies etc.	239	.	.	.
999 Oil act. in North Sea	45842	.	.	.
Total	583279	4209501		

Table 11. Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1989.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
01 ØSTFOLD	27413	237989	115187	88
011 Østfold	27413	237989	115187	88
02 AKERSHUS	49931	412692	120988	93
021 Akershus	49931	412692	120988	93
03 OSLO	119026	457244	260312	200
031 Oslo	119026	457244	260312	200
04 HEDMARK	18955	186846	101447	78
041 Sentrale Hedmark	10905	98109	111147	85
042 Solør/Odal	5246	55604	94353	72
043 Østerdalen	2804	33133	84629	65
05 OPPLAND	16805	182431	92117	71
051 Sentrale Oppland	10497	102703	102211	78
052 Gudbrandsdalen	3757	47104	79764	61
053 Land/Valdres	2550	32624	78176	60
06 BUSKERUD	27374	224640	121858	94
061 Nedre Buskerud	24025	191387	125532	96
062 Øvre Buskerud	3349	33253	100710	77
07 VESTFOLD	21865	196653	111185	85
071 Vestfold	21865	196653	111185	85
08 TELEMARK	18995	163093	116469	89
081 Grenland	13118	94828	138335	106
082 Østre Telemark	3390	37245	91016	70
083 Vestre Telemark	2487	31020	80184	62
09 AUST-AGDER	9429	96724	97487	75
091 Østre/Indre Agder	2691	35564	75664	58
092 Sentrale Aust-Agder	6738	61160	110177	85
10 VEST-AGDER	17934	143688	124811	96
101 Kristiansandsområdet	12244	88631	138144	106
102 Vestre Agder	5690	55057	103349	79
11 ROGALAND	47558	334553	142155	109
111 Dalane	2178	21300	102249	79
112 Jæren	31827	211297	150629	116
113 Ryfylke	2605	25645	101560	78
114 Nord-Rogaland	10949	76311	143472	110
12 HORDALAND	48986	408527	119909	92
121 Sunnhordland	5869	59197	99145	76
122 Indre Hordaland	5407	50752	106538	82
123 Bergensområdet	35185	265266	132642	102
124 Nordhordland	2525	33312	75790	58

Table 11 (cont.). Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1989.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
14 SOGN OG FJORDANE	12422	106440	116708	90
141 Ytre Sogn/Dalsfjorden	1706	16911	100881	77
142 Sunnfjord	3409	26839	127024	98
143 Indre Sogn	4066	28643	141947	109
144 Nordfjord	3241	34047	95204	73
15 MØRE OG ROMSDAL	26548	238317	111397	86
151 Søre Sunnmøre	5056	50499	100111	77
152 Ålesund/Moldeområdet	10365	76165	136089	105
153 Ytre Møre og Romsdal	5563	61137	90999	70
154 Indre Sunnmøre/Romsdal	1984	18907	104956	81
155 Nordre/Indre Nordmøre	3579	31609	113237	87
16 SØR-TRØNDELAG	28797	249984	115196	88
161 Ytre Sør-Trøndelag	4155	48700	85310	66
162 Trondheimsområdet	21828	168694	129392	99
163 Indre Sør-Trøndelag	2815	32590	86370	66
17 NORD-TRØNDELAG	12464	126804	98297	75
171 Indre Nord-Trøndelag	9039	86623	104352	80
172 Namdalen	3425	40181	85242	65
18 NORDLAND	23414	239572	97734	75
181 Helgeland	7542	79686	94649	73
182 Salten og Ofoten	6302	66855	94262	72
183 Bodø	4740	36194	130969	101
184 Lofoten og Vesterålen	4830	56837	84978	65
19 TROMS	15421	146622	105174	81
191 Sør/Midt-Troms	7037	75783	92863	71
192 Tromsø	7052	50388	139948	107
193 Nord-Troms	1332	20451	65117	50
20 FINNMARK	7106	74091	95904	74
201 Finnmark	7106	74091	95904	74
99 UNDISTRIBUTED ACT.	70939	.	.	.
991 Svalbard, Jan Mayen mm	60	.	.	.
992 Embassis etc.	252	.	.	.
999 Oil act. in North Sea	70626	.	.	.
Total	621383	4226910		

Table 12. Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1990.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
01 ØSTFOLD	27796	238163	116711	87
011 Østfold	27796	238163	116711	87
02 AKERSHUS	51928	416309	124733	93
021 Akershus	51928	416309	124733	93
03 OSLO	123636	460004	268770	200
031 Oslo	123636	460004	268770	200
04 HEDMARK	20148	187100	107686	80
041 Sentrale Hedmark	11716	98636	118775	88
042 Solør/Odal	5498	55418	99215	74
043 Østerdalen	2934	33046	88794	66
05 OPPLAND	17813	182473	97622	73
051 Sentrale Oppland	11029	103004	107077	80
052 Gudbrandsdalen	4066	46995	86520	64
053 Land/Valdres	2718	32474	83695	62
06 BUSKERUD	28856	224981	128260	95
061 Nedre Buskerud	25275	191940	131680	98
062 Øvre Buskerud	3582	33041	108396	81
07 VESTFOLD	23176	197781	117181	87
071 Vestfold	23176	197781	117181	87
08 TELEMARK	19735	162926	121130	90
081 Grenland	13517	95005	142274	106
082 Østre Telemark	3568	37058	96292	72
083 Vestre Telemark	2650	30863	85867	64
09 AUST-AGDER	10043	97097	103437	77
091 Østre/Indre Agder	2827	35487	79669	59
092 Sentrale Aust-Agder	7216	61610	117127	87
10 VEST-AGDER	18298	144559	126575	94
101 Kristiansandsområdet	12443	89503	139022	103
102 Vestre Agder	5855	55056	106339	79
11 ROGALAND	47063	336830	139723	104
111 Dalane	2241	21315	105114	78
112 Jæren	31508	213279	147731	110
113 Ryfylke	2602	25593	101657	76
114 Nord-Rogaland	10713	76643	139777	104
12 HORDALAND	51883	410074	126520	94
121 Sunnhordland	5940	59299	100172	75
122 Indre Hordaland	5515	50611	108962	81
123 Bergensområdet	36674	266843	137435	102
124 Nordhordland	3754	33321	112668	84

Table 12 (cont.). Gross value added (GVA) at market prices per capita. NUTS-2 and NUTS-3 regions. 1990.

Region	GVA Million kroner	Population	GVA per capita	Index The country = 100
14 SOGN OG FJORDANE	12481	106577	117109	87
141 Ytre Sogn/Dalsfjorden	1664	16767	99231	74
142 Sunnfjord	3550	27236	130353	97
143 Indre Sogn	3836	28616	134058	100
144 Nordfjord	3431	33958	101031	75
15 MØRE OG ROMSDAL	27020	238313	113381	84
151 Søre Sunnmøre	5314	50673	104859	78
152 Ålesund/Moldeområdet	10434	76452	136482	102
153 Ytre Møre og Romsdal	5833	60973	95657	71
154 Indre Sunnmøre/Romsdal	2069	18863	109686	82
155 Nordre/Indre Nordmøre	3371	31352	107518	80
16 SØR-TRØNDELAG	29229	250710	116584	87
161 Ytre Sør-Trøndelag	4214	48533	86832	65
162 Trondheimsområdet	22118	169694	130342	97
163 Indre Sør-Trøndelag	2896	32483	89164	66
17 NORD-TRØNDELAG	13130	127042	103350	77
171 Indre Nord-Trøndelag	9486	86906	109151	81
172 Namdalen	3644	40136	90789	68
18 NORDLAND	24656	239468	102963	77
181 Helgeland	7488	79655	94009	70
182 Salten og Ofoten	6760	66465	101714	76
183 Bodø	5024	36743	136723	102
184 Lofoten og Vesterålen	5384	56605	95117	71
19 TROMS	15974	146706	108885	81
191 Sør/Midt-Troms	7259	75364	96315	72
192 Tromsø	7294	50938	143190	107
193 Nord-Troms	1422	20404	69673	52
20 FINNMARK	7248	74369	97453	73
201 Finnmark	7248	74369	97453	73
99 UNDISTRIBUTED ACT.	90438	.	.	.
991 Svalbard, Jan Mayen mm	66	.	.	.
992 Embassis etc.	266	.	.	.
999 Oil act. in North Sea	90105	.	.	.
Total	660550	4241482		

4. AGRICULTURAL ACCOUNTS 1989

4.1. Definition of the agricultural sector

In the Norwegian national accounts the contents of the agricultural sector are given by the following industry breakdown:

Agriculture, production of crops, which comprises the cultivation of all types of agricultural and horticultural crops such as hay and other animal feed, grains, potatoes, vegetables, fruit, berries, flowers and plants.

Agriculture, livestock production, which comprises the raising of domestic animals with or without affiliation to farm operations, such as the breeding of cattle, sheep and goats, pigs, poultry, bees, reindeer, fur-bearing animals and horses.

Own account capital formation in agriculture, income from transport etc comprises the work carried out by the agricultural sector's own production factors in connection with investment and transport.

Agricultural services which include milk-recording and testing and insemination.

Hunting and game propagation which comprises the hunting and catch of birds and land animals as an economic activity.

Forestry includes all work on felling and hauling of timber (including timber floating and lorry transport paid by the forest owner). It is assumed that a certain share of silviculture and construction of roads carried out by the forestry's own production factors are included under forestry in the national accounts. In addition, incomes and costs in connection with the collection of wild berries and plants are included under forestry in the Norwegian national accounts.

4.2. Sources and methods of estimation of the agricultural sector

The calculations of the items in the production accounts of agriculture (except for forestry and hunting and trapping) are based on the detailed specifications in the aggregate account of agriculture, prepared by the Budgeting Committee for Agriculture (BCA). Thus to a large extent the calculations are based on prices and quantity data from the BCA, given on a detailed level both of gross output and intermediate consumption.

The calculations on gross output of crops and horticultural products by the BCA are largely based on annual agricultural statistics (based on sample surveys) of Statistics Norway, and information received directly from sales organisations connected to agriculture. For the calculations of livestock production and intermediate consumption, the Budgeting Committee uses statistics from the farmers' own sales organisations.

Feed for own use appears in the national accounts as an estimated internal delivery between production of crops and livestock production, computed on the basis of the Budgeting Committee's calculations on supply of feed.

The calculations for forestry and hunting and game propagation are based on annual forestry and hunting statistics issued by Statistics Norway.

In general, the Norwegian agricultural accounts are compiled on a detailed level both as regards output and input. On the most detailed level the agricultural sector produces 68 goods, of which 18 are produced in forestry. Output is recorded at the moment the production process is completed, and input at the moment goods and services are consumed. Value added is a residual (balancing item), at producers' prices, following gross output valued at producers' prices.

The subsidies connected to the agricultural production are not always recorded directly to the agricultural sector. Transfers from government through the Agricultural Agreement are partly (about 40%) directly recorded as subsidies in the agricultural sector. Those which are not, are mostly recorded through manufacturing and wholesale and retail trade. In those cases the agricultural sector is benefited with a higher price on their products. This regards, among others, part of the subsidies on milk production, which are recorded through the dairy sector, and subsidies on crop production, which are recorded through wholesale and retail trade.

In Norway, the perpetual inventory method is used to determine consumption of fixed capital, i.e. consumption of fixed capital is computed indirectly based on long time-series for gross fixed capital formation expressed at constant prices. As part of the computations, estimates on average lifetime for capital goods are introduced for all types of investment. As a result consumption of fixed capital at constant prices is obtained. Figures at current prices are then calculated by means of relevant price indices.

The changes in livestock status are treated in accordance with the SNA recommendations, and livestock is divided into two categories. Increase in livestock is therefore distributed between changes in inventories and gross fixed capital formation.

As regards crop production, crops are recorded as output when harvested. In other words, crops still in the fields are not recorded as output in the form of work-in-progress.

In forestry, wood which has been cut down, but not transported out of the forests, is treated as output. Thus increase in stocks of timber and fuelwood is recorded as changes in stocks. The costs of silviculture are distributed between intermediate consumption and gross fixed capital formation, according to type of costs.

The value added tax system is treated on a net basis, by estimating values on accrued basis from VAT rate (20%) and commodity flows of the national accounts.

4.3. The method of compiling the regional agricultural accounts

In general, the distribution of the agricultural accounts figures by region is done on a detailed level of products as regards output. Some of the products are, however, broken down by region in two steps. First they are broken down by county (NUTS-2), and as a second step further down to NUTS-3 level. The reason for this two step calculation is that the sources available, do not provide suitable data for both regional levels for these products. The sources used for the NUTS-3 level contain indicators less reliable than the indicators used at the county level. Breaking down by county is done by means of relevant volume figures from annual statistics of agriculture and forestry (issued by Statistics Norway). These statistics are to a large extent based on annual sample surveys which are not suitable for breaking down to NUTS-3 level. The distribution by NUTS-3 regions is to a large extent based on The Census of Agriculture and Forestry for the year 1989. However, the indicators available are, in some areas, considered of poorer quality than the indicators in the annual sample surveys.

The output of each product is distributed by region using specific indicators. Mostly these indicators are quantities of production. The distribution of crop production is done mainly by

information of crop quantities at the county level. At the NUTS-3 level we also use crop area for some products because crop quantities are not available. As regards livestock production both quantities and prices are used for milk, cattle, pig and sheep production. For milk production, milk delivered to dairy is considered the relevant quantity measure, while slaughtered quantity is used for cattle, pig and sheep production. For the rest of the animal production both slaughtered quantity and number of animals are used as indicators.

As a consequence of lack of information, most of the input is distributed proportionally to output. However, some important goods consumed as intermediate consumption in crop and livestock production are distributed by means of specific indicators. This regards fertilizer, grain feed and feed for own consumption.

Subsidies/taxes and consumption of fixed capital are for some types distributed by means of specific indicators, and for others in proportion to production. I.e. the part of subsidies on milk production recorded directly in agriculture, are distributed according to information from the dairies, while some subsidies on crop and meat production are distributed according to figures from the sales organisation.

Table 13. Value added in agriculture (excl. forestry) by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1989.

Region	Net value added at market prices	Gross value added at market prices	Gross value added at factor cost
01 ØSTFOLD	393	727	892
011 Østfold	393	727	892
02 AKERSHUS	442	755	936
021 Akershus	442	755	936
03 OSLO	9	14	16
031 Oslo	9	14	16
04 HEDMARK	550	1020	1453
041 Sentrale Hedmark	370	551	701
042 Solør/Odal	116	299	366
043 Østerdalen	65	170	387
05 OPPLAND	451	920	1634
051 Sentrale Oppland	207	401	571
052 Gudbrandsdalen	203	373	749
053 Land/Valdres	41	145	315
06 BUSKERUD	228	508	709
061 Nedre Buskerud	201	374	441
062 Øvre Buskerud	27	134	268
07 VESTFOLD	450	657	749
071 Vestfold	450	657	749
08 TELEMARK	102	282	413
081 Grenland	37	84	109
082 Østre Telemark	46	124	171
083 Vestre Telemark	18	75	134
09 AUST-AGDER	119	202	289
091 Østre/Indre Agder	35	86	144
092 Sentrale Aust-Agder	84	116	145
10 VEST-AGDER	130	240	407
101 Kristiansandsområdet	48	71	96
102 Vestre Agder	83	169	312
11 ROGALAND	1081	1455	2300
111 Dalane	77	116	217
112 Jæren	668	876	1286
113 Ryfylke	159	222	389
114 Nord-Rogaland	176	241	408
12 HORDALAND	291	549	1013
121 Sunnhordland	105	184	341
122 Indre Hordaland	86	174	333
123 Bergensområdet	64	103	156
124 Nordhordland	36	88	184

Table 13 (cont.). Value added in agriculture (excl. forestry) by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1989.

Region	Net value added at market prices	Gross value added at market prices	Gross value added at factor cost
14 SOGN OG FJORDANE	250	511	1030
141 Ytre Sogn/Dalsfjorden	37	92	191
142 Sunnfjord	62	117	248
143 Indre Sogn	72	134	251
144 Nordfjord	79	168	340
15 MØRE OG ROMSDAL	312	633	1248
151 Søre Sunnmøre	54	125	260
152 Ålesund/Moldeområdet	54	91	150
153 Ytre Møre og Romsdal	81	145	287
154 Indre Sunnmøre/Romsdal	52	109	208
155 Nordre/Indre Nordmøre	70	163	343
16 SØR-TRØNDELAG	295	644	1223
161 Ytre Sør-Trøndelag	135	281	544
162 Trondheimsområdet	81	176	276
163 Indre Sør-Trøndelag	79	188	403
17 NORD-TRØNDELAG	424	802	1413
171 Indre Nord-Trøndelag	326	590	976
172 Namdalen	98	212	438
18 NORDLAND	182	415	965
181 Helgeland	106	228	521
182 Salten og Ofoten	40	97	225
183 Bodø	9	18	36
184 Lofoten og Vesterålen	28	72	183
19 TROMS	73	191	444
191 Sør/Midt-Troms	60	137	313
192 Tromsø	7	20	43
193 Nord-Troms	6	34	88
20 FINNMARK	36	77	181
201 Finnmark	36	77	181
Total	5817	10599	17315

Table 14. Value added in forestry by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1989.

Region	Net value added at market prices	Gross value added at market prices	Gross value added at factor cost
01 ØSTFOLD	147	168	176
011 Østfold	147	168	176
02 AKERSHUS	257	279	292
021 Akershus	257	279	292
03 OSLO	16	17	18
031 Oslo	16	17	18
04 HEDMARK	885	943	978
041 Sentrale Hedmark	230	243	250
042 Solør/Odal	380	405	418
043 Østerdalen	275	296	310
05 OPPLAND	421	464	492
051 Sentrale Oppland	201	215	225
052 Gudbrandsdalen	77	89	97
053 Land/Valdres	143	160	170
06 BUSKERUD	372	414	444
061 Nedre Buskerud	217	239	251
062 Øvre Buskerud	155	175	193
07 VESTFOLD	111	125	133
071 Vestfold	111	125	133
08 TELEMARK	289	328	360
081 Grenland	65	73	78
082 Østre Telemark	96	110	118
083 Vestre Telemark	128	146	164
09 AUST-AGDER	156	174	193
091 Østre/Indre Agder	137	153	169
092 Sentrale Aust-Agder	19	22	24
10 VEST-AGDER	49	64	103
101 Kristiansandsområdet	16	21	27
102 Vestre Agder	32	44	76
11 ROGALAND	18	24	58
111 Dalane	1	2	5
112 Jæren	2	2	6
113 Ryfylke	11	14	32
114 Nord-Rogaland	4	6	16
12 HORDALAND	28	41	93
121 Sunnhordland	10	14	32
122 Indre Hordaland	13	19	38
123 Bergensområdet	3	4	17
124 Nordhordland	2	4	6

Table 14 (cont.). Value added in forestry by NUTS-2 and NUTS-3 regions. Million Norwegian kroner. 1989.

Region	Net value added at market prices	Gross value added at market prices	Gross value added at factor cost
14 SOGN OG FJORDANE	21	33	57
141 Ytre Sogn/Dalsfjorden	3	4	7
142 Sunnfjord	3	6	12
143 Indre Sogn	8	10	16
144 Nordfjord	9	13	22
15 MØRE OG ROMSDAL	39	54	89
151 Søre Sunnmøre	3	5	10
152 Ålesund/Moldeområdet	9	11	19
153 Ytre Møre og Romsdal	2	3	7
154 Indre Sunnmøre/Romsdal	5	9	11
155 Nordre/Indre Nordmøre	20	26	42
16 SØR-TRØNDELAG	119	138	160
161 Ytre Sør-Trøndelag	25	32	41
162 Trondheimsområdet	35	40	43
163 Indre Sør-Trøndelag	59	67	77
17 NORD-TRØNDELAG	233	261	284
171 Indre Nord-Trøndelag	120	132	143
172 Namdalen	113	129	140
18 NORDLAND	66	83	116
181 Helgeland	49	62	73
182 Salten og Ofoten	14	17	35
183 Bodø	1	1	2
184 Lofoten og Vesterålen	3	3	7
19 TROMS	30	35	47
191 Sør/Midt-Troms	24	28	37
192 Tromsø	2	3	4
193 Nord-Troms	4	4	7
20 FINNMARK	4	5	5
201 Finnmark	4	5	5
Total	3258	3650	4096

5. ANNUAL WORK UNITS IN AGRICULTURE AND FORESTRY 1989

5.1. Total annual work units (AWU) in agriculture and forestry by NUTS-3 regions

The main statistical source is the Norwegian Census of agriculture and forestry 1989. As the census considers the two industries combined, the total number of AWU has been calculated in a first step. In a second step forestry and agriculture have been separated, using data from the Survey of agriculture 1990. This survey covers hours worked in the period 1.6.1989 to 31.5.1990. The results of this second step are less reliable than those of the first step.

The Census of agriculture and forestry reports the number of employed persons in each of 5 intervals of hours worked. In our estimates, each interval is assigned an average number of AWU per person (table 15). It is assumed that each person in the open-ended interval of more than 1500 h. represents one AWU. From the Survey of agriculture 1990, we find that persons in this category worked 2137 hours on average. The part of an AWU attributed to the other intervals in table 15 is then the mid-point number of hours divided by 2137.

Table 15. Estimated average AWU per person by interval of hours worked according to the Norwegian Census of agriculture and forestry 1989 and the Survey of agriculture 1990.

Interval of hours worked	AWU per person
0-99 h	0.02
100-499 h	0.14
500-999 h	0.35
1000-1499 h	0.58
1500 + h	1.00

The number and regional distribution of AWU in reindeer husbandry is reported from the Directorate for Reindeer Husbandry. This (small) part of agriculture was not covered by the Census of agriculture.

5.2. Dividing total AWU between agriculture and forestry

Initially, the proportion of total AWU attributed to agriculture at the national level was estimated by the number of hours worked according to national accounts statistics.

The total AWU by NUTS-3 regions (except AWU in reindeer husbandry) was split by industry using information from the Survey of agriculture 1990 and special information on the use of tree processors in forestry.

The Survey of agriculture 1990 did not include hours worked by self-employed persons owning and operating tree processors. According to information collected from the Agricultural University of Norway, Department of Forestry, approx. 300 such processors were operative in 1989. We have accordingly distributed 300 AWU by NUTS-3 regions, using quantity of timber cut by tree processors reported in the Census of agriculture and forestry 1989 as distribution key. To distribute the rest of the AWU's, we estimated the proportion of total hours worked that could be attributed to forestry at the NUTS-3 level according to the Survey of agriculture 1990.

Results of this survey are normally reported on the county (NUTS-2) level. The sample is, however, relatively large (approx. 11 per cent); thus estimation on NUTS-3 level was possible. The share of forestry in total AWU in each NUTS-3 region is first assumed equal to the estimated proportion of hours worked, and then finally adjusted proportionally to sum up to the national total. AWU in agriculture is then calculated residually. Many regions have little activity in forestry. The estimate of gross value added per AWU in forestry in these regions are particularly exposed to sampling and rounding errors. This should, however, be of minor importance to the resulting estimates of AWU in agriculture.

Table 16. Annual Work Units (AWU) and Gross value added (GVA) at factor cost per AWU by Norwegian NUTS regions 1989. 1000 kr

NUTS-2 (County)/NUTS-3 region	Annual Work Units			GVA per AWU		
	Total	Agri- culture	Forestry	Total	Agri- culture	Forestry
- Norway	108407	102383	6024	198	169	681
01 Østfold	4339	4028	311	246	221	566
011 Østfold	4339	4028	311	246	221	566
02 Akershus	4238	3917	321	290	239	910
021 Akershus	4238	3917	321	290	239	910
03 Oslo	113	71	42	301	225	429
031 Oslo	113	71	42	301	225	429
04 Hedmark	8564	7504	1060	284	194	923
041 Sentrale Hedmark	3064	2752	312	310	255	801
042 Solør/Odal	2272	1849	423	345	198	988
043 Østerdalen	3228	2903	325	216	133	954
05 Oppland	10889	10224	665	195	160	740
051 Sentrale Oppland	3384	3118	266	235	183	846
052 Gudbrandsdalen	4819	4625	194	176	162	500
053 Land/Valdres	2686	2481	205	181	127	829
06 Buskerud	5259	4669	590	219	152	753
061 Nedre Buskerud	2871	2570	301	241	172	834
062 Øvre Buskerud	2388	2099	289	193	128	668
07 Vestfold	3189	2932	257	276	255	518
071 Vestfold	3189	2932	257	276	255	518
08 Telemark	3512	2978	534	220	139	674
081 Grenland	790	671	119	237	162	655
082 Østre Telemark	1389	1234	155	208	139	761
083 Vestre Telemark	1333	1073	260	224	125	631
09 Aust-Agder	2037	1715	322	237	169	599
091 Østre/Indre Agder	1307	1036	271	239	139	624
092 Sentrale Aust-Agder	730	679	51	232	214	471
10 Vest-Agder	2572	2362	210	199	173	490
101 Kristandsandområdet	501	441	60	246	218	450
102 Vestre Agder	2071	1921	150	187	162	507
11 Rogaland	10420	10343	77	226	222	766
111 Dalane	1240	1232	8	179	176	625
112 Jæren	5317	5303	14	243	243	429
113 Ryfylke	1964	1927	37	214	202	865
114 Nord-Rogaland	1899	1881	18	223	217	889

Table 16 (cont.). Annual Work Units (AWU) and Gross value added (GVA) at factor cost per AWU by Norwegian NUTS regions 1989. 1000 kr

NUTS-2 (County)/NUTS-3 region	Annual Work Units			GVA per AWU		
	Total	Agri- culture	Forestry	Total	Agri- culture	Forestry
12 Hordaland	8007	7833	174	138	129	534
121 Sunnhordland	2346	2289	57	159	149	561
122 Indre Hordaland	3017	2938	79	123	113	481
123 Bergensområdet	1080	1067	13	159	146	1308
124 Nordhordland	1564	1539	25	121	120	240
14 Sogn og Fjordane	8805	8662	143	123	119	399
141 Ytre Sogn/Dalsfjorden	1680	1654	26	118	115	269
142 Sunnfjord	1929	1905	24	135	130	500
143 Indre Sogn	2239	2213	26	119	113	615
144 Nordfjord	2957	2890	67	122	118	328
15 Møre og Romsdal	8505	8270	235	157	151	379
151 Søre Sunnmøre	2168	2147	21	125	121	476
152 Ålesund/Moldeområdet	827	784	43	204	191	442
153 Ytre Møre og Romsdal	1695	1680	15	173	171	467
154 Indre Sunnmøre/Romsdal	1482	1422	60	148	146	183
155 Nordre/Indre Nordmøre	2333	2237	96	165	153	438
16 Sør-Trøndelag	7994	7695	299	173	159	538
161 Ytre Sør-Trøndelag	3486	3407	79	168	160	519
162 Trondheimsområdet	1550	1469	81	205	188	531
163 Indre Sør-Trøndelag	2958	2819	139	162	143	554
17 Nord-Trøndelag	8302	7822	480	204	181	590
171 Indre Nord-Trøndelag	5345	5108	237	209	191	603
172 Namdalen	2957	2714	243	195	161	576
18 Nordland	6431	6216	215	168	155	544
181 Helgeland	3307	3155	152	180	165	480
182 Salten og Ofoten	1661	1606	55	157	140	636
183 Bodø	192	191	1	198	188	2000
184 Lofoten og Vesterålen	1271	1264	7	149	145	1000
19 Troms	3274	3197	77	150	139	623
191 Sør/Midt-Troms	2140	2074	66	164	151	561
192 Tromsø	361	354	7	127	121	571
193 Nord-Troms	773	769	4	123	114	1750
20 Finnmark	1957	1947	10	95	93	500
201 Finnmark	1957	1947	10	95	93	500

6. EMPLOYMENT

6.1. Definition

In the Norwegian National Accounts employed persons are defined as the annual average number of persons in productive activities within Norwegian territory. Part-time workers and persons temporarily absent from work are included. However, persons with long-time absence from work (unpaid leave) are excluded. Persons engaged by government measures to promote employment are included as employed persons if they receive wages. Persons liable for military service and seamen abroad are also included.

The total industry employment comprise oil activities (pipeline transport not included), manufacturing, mining and quarrying, electricity supply, construction and oil drilling.

The agricultural employment comprise agriculture, forestry, fishing and breeding of fish.

6.2. Total employment 1986-1991

The National Accounts (NA) figures for total employment 1986 -1991 at the place of work are broken down to NUTS-3 regions by administrative employment data (1986- 1991). The quality of the administrative employment data is not good enough for official statistics. Thus the data are corrected before being published. The administrative data used in the breakdown procedure have not been corrected. The quality problem is connected to a very small number of regions each year. The impact on the regional distribution is expected to be small.

We have established a NUTS-3 code 999, which include persons with place of work at the Norwegian continental shelf, Svalbard and persons with unspecified place of work.

6.3. Industry employment 1980 -1991

The NA figures for total industry employment 1980 - 1991, at the place of work are divided into 3 groups and distributed to NUTS-3 regions by three different keys. These 3 groups of estimated regional NA figures are then aggregated to figures for the total industry employment.

A. The NA figures for manufacturing, mining and quarrying are broken down to NUTS-3 regions by a set of regional figures from the Manufacturing statistics 1980 - 1991, Statistics Norway.

B The NA figures for construction are broken down to NUTS-3 regions by figures from the Construction statistics 1980 - 1990, Statistics Norway. Figures for 1991 are broken down by keys for 1990.

C The NA figures for electricity supply are broken down to NUTS-3 regions by data on employees by industry division 1986 -1991. Figures for 1980 - 1986 are broken down to NUTS 3 by data for 1986.

6.4. Agricultural employment 1989.

The NA figures for total agricultural employment 1989, at the place of work are broken down to NUTS 3 regions by administrative employment data by major industry group. The quality of the administrative employment data by major industry group is not good enough for official statistics. Thus

the data are corrected before being published. The administrative data used in the breakdown procedure have not been corrected. The quality problem is connected to a very small number of regions each year. The impact on the regional distribution is expected to be small.

Tab 17. Total employment at the place of work by
NUTS-3 regions. 1986 - 1991

Region	1986	1987	1988	1989	1990	1991
011 Østfold	104035	106627	106403	103227	101951	99871
021 Akershus	163845	171718	173480	173185	171805	170088
031 Oslo	370602	372420	364780	352159	343489	338514
041 Sentrale Hedmark	45857	47025	46432	45889	45467	44683
042 Solør/Odal	22777	23311	23006	22277	22391	22258
043 Østerdalen	13949	13895	13807	13843	13889	13880
051 Sentrale Oppland	47218	48288	48066	46544	46503	46531
052 Gudbrandsdalen	18605	18920	18849	18601	18873	18957
053 Land/Valdres	13261	13579	13558	13347	13334	13403
061 Nedre Buskerud	91012	93923	93285	90012	88723	87412
062 Øvre Buskerud	14414	14578	14772	14624	14752	14901
071 Vestfold	84492	86383	85556	84723	84429	84281
081 Grenland	45161	46215	45691	44584	44049	43598
082 ØstreTelemark	15363	15457	15214	14804	14550	14493
083 Vestre Telemark	11715	11871	11775	11542	11632	11401
091 Østre/Indre Agder	12332	12612	12494	12167	12378	12357
092 Sentrale Aust-Agder	26027	26550	26227	25720	26258	26313
101 Kristandsområdet	43116	43949	43715	43928	42894	42166
102 Vestre Agder	20782	21326	21418	21232	21594	21573
111 Dalane	8720	9058	8970	8848	9009	8936
112 Jæren	113116	116137	114811	111434	108425	109880
113 Ryfylke	10220	9717	9555	9575	9847	9647
114 Nord-Rogaland	34112	34212	34080	33122	32527	32790
121 Sunnhordland	23043	23696	24182	23518	24120	24459
122 Indre Hordaland	21851	22120	22150	21632	21565	21361
123 Bergensområdet	139333	142575	142386	137519	135722	135413
124 Nordhordland	10379	11379	12097	11922	11573	11980
141 Ytre Sogn/Dalsfjorden	7214	7229	7285	7342	7331	7288
142 Sunnfjord	12041	12706	13005	12904	13572	13725
143 Indre Sogn	13850	14182	14266	14160	13972	14113
144 Nordfjord	14923	15580	15324	15098	15322	15110
151 Søre Sunnmøre	21313	22043	21844	21507	21865	21887
152 Ålesund/Moldeområdet	40097	40884	40300	38774	38270	38054
153 Ytre Møre og Romsdal	23836	24810	24421	23745	23992	23475
154 Indre Sunnmøre/Romsdal	8368	8499	8417	8183	8179	8119
155 Nordre/Indre Nordmøre	12788	12999	12826	12730	12647	12511
161 Ytre Sør-Trøndelag	20136	20115	19788	19501	19791	19731
162 Trondheimsområdet	88566	91854	90550	87860	86555	84805
163 Indre Sør-Trøndelag	13716	14048	13771	13675	13791	13727
171 Indre Nord-Trøndelag	39348	39838	39976	39358	39327	38951
172 Namdalen	16641	16925	16818	16806	17117	17033
181 Helgeland	35225	35237	34617	33209	33575	33520
182 Salten og Ofoten	27469	27986	27414	27220	27141	26620
183 Bodø	20757	21142	21081	21162	21060	21072
184 Lofoten og Vesterålen	24441	24723	24602	23905	23828	23183
191 Sør/Midt-Troms	36753	37530	37011	35930	36155	35636
192 Tromsø	28800	30164	29754	28791	29127	28373
193 Nord-Troms	7577	7547	7302	7175	7230	7381
201 Finnmark	36829	36752	36322	34874	35054	34914
999 Undistributed act.	13777	12867	13644	13410	13851	13523
Total	2089800	2133200	2117100	2067300	2050500	2033900

**Tab 18. Industry employment at the place of work by
NUTS-3 regions. 1980 -1985.**

Region	1980	1981	1982	1983	1984	1985
011 Østfold	39617	39001	37292	34915	34735	34513
021 Akershus	32251	32052	31524	31227	31885	33828
031 Oslo	89818	86087	83020	80855	78115	79159
041 Sentrale Hedmark	12483	12541	12014	11327	11352	11341
042 Solør/Odal	6897	6679	6554	6518	6396	6427
043 Østerdalen	2982	2804	2865	2767	2640	2706
051 Sentrale Oppland	14656	13589	13512	13195	13471	13531
052 Gudbrandsdalen	4475	4306	4139	3884	3666	3546
053 Land/Valdres	2459	2393	2374	2181	2193	2289
061 Nedre Buskerud	31445	30155	30366	29332	29388	29149
062 Øvre Buskerud	3935	3861	3738	3570	3578	3689
071 Vestfold	29711	29299	27932	26879	27160	27510
081 Grenland	17371	17126	16757	16583	16701	16678
082 ØstreTelemark	5542	5192	5278	4952	4696	4767
083 Vestre Telemark	2951	2903	2855	2719	2739	2720
091 Østre/Indre Agder	3404	3349	3215	3106	3107	3196
092 Sentrale Aust-Agder	8069	8047	7822	6963	6845	7350
101 Kristandsandområdet	12862	12742	12501	12042	11977	12082
102 Vestre Agder	6832	6659	6465	6259	5978	6499
111 Dalane	3626	3602	3719	3807	3703	3459
112 Jæren	33367	35610	36886	35390	35476	37065
113 Ryfylke	3022	2967	2860	2748	2842	3044
114 Nord-Rogaland	8909	9149	9254	8398	8913	9140
121 Sunnhordland	7649	7533	7581	7713	8276	8973
122 Indre Hordaland	7140	7021	6594	6519	6572	6584
123 Bergensområdet	35182	34630	35130	32987	33140	32765
124 Nordhordland	3661	3516	3386	3298	3432	3493
141 Ytre Sogn/Dalsfjorden	2052	2029	1942	1808	1922	1927
142 Sunnfjord	3172	3068	3077	2465	2609	3290
143 Indre Sogn	3840	4012	3964	3839	4028	4072
144 Nordfjord	4443	4308	4206	3943	3980	3970
151 Søre Sunnmøre	7289	7124	7121	6958	6991	7629
152 Ålesund/Moldeområdet	11281	11429	10784	9701	9395	10018
153 Ytre Møre og Romsdal	7774	7642	7406	6643	6835	7034
154 Indre Sunnmøre/Romsdal	3147	2978	3027	2971	2893	3055
155 Nordre/Indre Nordmøre	3677	3939	3706	3498	3574	3815
161 Ytre Sør-Trøndelag	4523	4413	4422	4240	4223	4303
162 Trondheimsområdet	22328	20812	20849	20407	19981	20393
163 Indre Sør-Trøndelag	3419	3370	3349	3299	3218	3169
171 Indre Nord-Trøndelag	9658	9541	8720	8997	8934	8867
172 Namdalen	3523	3547	3588	3390	3297	3166
181 Helgeland	10749	10715	10679	10381	10035	9924
182 Salten og Ofoten	5777	5755	5701	5467	5811	5741
183 Bodø	3219	3176	3017	3057	3199	3198
184 Lofoten og Vesterålen	5263	5232	5292	5260	5266	4891
191 Sør/Midt-Troms	6501	6273	6299	6124	6280	6215
192 Tromsø	4277	4050	4302	4403	4583	4544
193 Nord-Troms	1365	1505	1535	1358	1286	1279
201 Finnmark	10176	9276	9108	9008	8849	8995
999 Undistributed act.	2530	3390	3675	3747	3839	4003
Total	570300	560400	551400	531100	530000	539000

**Tab 18. Industry employment at the place of work by
NUTS-3 regions. 1986 -1991.**

Region	1986	1987	1988	1989	1990	1991
011 Østfold	36007	36972	35590	34291	32834	30682
021 Akershus	36062	35591	35875	32989	31431	31053
031 Oslo	80354	80507	76011	67895	62653	58188
041 Sentrale Hedmark	11184	12102	11319	10422	10514	9869
042 Solør/Odal	6593	6803	6652	6126	5987	5694
043 Østerdalen	2724	2808	2707	2594	2601	2499
051 Sentrale Oppland	14104	14266	14007	13196	12424	11604
052 Gudbrandsdalen	3553	3675	3780	3689	3781	3505
053 Land/Valdres	2346	2284	2285	2247	2269	2154
061 Nedre Buskerud	29601	30440	29706	28297	27526	26114
062 Øvre Buskerud	3639	3746	3817	3657	3599	3407
071 Vestfold	27924	28361	27028	25329	24338	23109
081 Grenland	17353	16882	15378	15395	15093	14077
082 ØstreTelemark	5334	4599	4506	4264	4021	3521
083 Vestre Telemark	2873	2878	2787	2688	2570	2533
091 Østre/Indre Agder	3356	3567	3173	2959	3092	2942
092 Sentrale Aust-Agder	7563	7587	6429	6061	6356	6405
101 Kristandsandområdet	12808	13715	12622	12155	11244	10885
102 Vestre Agder	6735	7215	6852	6382	6546	6186
111 Dalane	3626	3685	3370	3367	3503	3523
112 Jæren	39616	40144	40603	38017	37779	38277
113 Ryfylke	2980	2944	2960	2771	2774	2603
114 Nord-Rogaland	9100	9721	9348	8378	8064	7988
121 Sunnhordland	8991	9575	9336	8581	8729	8689
122 Indre Hordaland	6539	7023	6941	6417	6266	5929
123 Bergensområdet	34014	34210	34746	30701	29568	28570
124 Nordhordland	3782	3961	4212	4253	3969	3912
141 Ytre Sogn/Dalsfjorden	2014	2112	2204	2171	2133	1997
142 Sunnfjord	2332	2867	2980	2749	3387	3378
143 Indre Sogn	4175	4163	4224	4037	3747	3522
144 Nordfjord	4308	4427	4598	4335	4374	4248
151 Søre Sunnmøre	7852	7858	7725	7325	7215	7132
152 Ålesund/Moldeområdet	10670	10682	9989	9089	8871	8742
153 Ytre Møre og Romsdal	7100	7424	6916	6881	6619	6373
154 Indre Sunnmøre/Romsdal	3204	3121	3059	2870	2870	2785
155 Nordre/Indre Nordmøre	3997	4152	4036	3750	3514	3343
161 Ytre Sør-Trøndelag	4360	4359	4120	3870	3906	3769
162 Trondheimsområdet	20894	21252	20863	19295	18311	17396
163 Indre Sør-Trøndelag	3516	3479	3461	3147	3065	2903
171 Indre Nord-Trøndelag	9239	9481	9338	9177	9169	8736
172 Namdalen	3034	3095	3039	2853	2905	2658
181 Helgeland	10307	10287	9358	7373	7747	7388
182 Salten og Ofoten	6164	6033	6024	5646	5643	5170
183 Bodø	3540	3646	3537	3312	3245	3032
184 Lofoten og Vesterålen	5086	5150	4662	4099	3940	3748
191 Sør/Midt-Troms	6473	6225	6603	5735	5823	5460
192 Tromsø	4387	4575	4547	4240	4312	4085
193 Nord-Troms	1485	1323	1249	1285	1193	1113
201 Finnmark	8884	8192	7464	6593	6176	6244
999 Undistributed act.	4615	4834	5365	5147	5607	5659
Total	556400	564000	547400	508100	493300	472800

**Tab 19. Agricultural employment at the place of work by
NUTS-3 regions. 1989**

Region	1989
011 Østfold	5240
021 Akershus	4445
031 Oslo	464
041 Sentrale Hedmark	3899
042 Solør/Odal	2381
043 Østerdalen	3478
051 Sentrale Oppland	3469
052 Gudbrandsdalen	5221
053 Land/Valdres	2725
061 Nedre Buskerud	2654
062 Øvre Buskerud	2213
071 Vestfold	3145
081 Grenland	885
082 ØstreTelemark	1031
083 Vestre Telemark	1156
091 Østre/Indre Agder	1029
092 Sentrale Aust-Agder	820
101 Kristandsandområdet	678
102 Vestre Agder	1999
111 Dalane	1419
112 Jæren	7342
113 Ryfylke	2029
114 Nord-Rogaland	2905
121 Sunnhordland	2902
122 Indre Hordaland	2577
123 Bergensområdet	1430
124 Nordhordland	1139
141 Ytre Sogn/Dalsfjorden	1821
142 Sunnfjord	1883
143 Indre Sogn	1755
144 Nordfjord	3372
151 Søre Sunnmøre	3794
152 Ålesund/Moldeområdet	1873
153 Ytre Møre og Romsdal	4232
154 Indre Sunnmøre/Romsdal	1404
155 Nordre/Indre Nordmøre	2978
161 Ytre Sør-Trøndelag	4622
162 Trondheimsområdet	1764
163 Indre Sør-Trøndelag	3184
171 Indre Nord-Trøndelag	6328
172 Namdalen	3832
181 Helgeland	4629
182 Salten og Ofoten	2133
183 Bodø	397
184 Lofoten og Vesterålen	4847
191 Sør/Midt-Troms	3527
192 Tromsø	1366
193 Nord-Troms	1778
201 Finnmark	3600
999 Undistributed act.	6
Total	133800

THE NUTS-3 CLASSIFICATION OF MUNICIPALITIES

NUTS-3		NUTS-3	
codes	Municipalities	codes	Municipalities
011	0101 Halden	043	0436 Tolga
011	0103 Fredrikstad	043	0437 Tynset
011	0104 Moss	043	0438 Alvdal
011	0105 Sarpsborg	043	0439 Folldal
011	0111 Hvaler	043	0441 Os
011	0113 Borge	051	0501 Lillehammer
011	0118 Aremark	051	0502 Gjøvik
011	0119 Marker	052	0511 Dovre
011	0121 Rømskog	052	0512 Lesja
011	0122 Trøgstad	052	0513 Skjåk
011	0123 Spydeberg	052	0514 Lom
011	0124 Askim	052	0515 Vågå
011	0125 Eidsberg	052	0516 Nord-Fron
011	0127 Skiptvet	052	0517 Sel
011	0128 Rakkestad	052	0519 Sør-Fron
011	0131 Rolvsøy	052	0520 Ringebu
011	0133 Kråkerøy	052	0521 Øyer
011	0134 Onsøy	052	0522 Gausdal
011	0135 Råde	051	0528 Østre Toten
011	0136 Rygge	051	0529 Vestre Toten
011	0137 Våler	051	0532 Jevnaker
011	0138 Hobøl	051	0533 Lunner
021	0211 Vestby	051	0534 Gran
021	0213 Ski	053	0536 Søndre Land
021	0214 Ås	053	0538 Nordre Land
021	0215 Frogn	053	0540 Sør-Aurdal
021	0216 Nesodden	053	0541 Etnedal
021	0217 Oppegård	053	0542 Nord-Aurdal
021	0219 Bærum	053	0543 Vestre Slidre
021	0220 Asker	053	0544 Øystre Slidre
021	0221 Aurskog-Høland	053	0545 Vang
021	0226 Sørum	061	0602 Drammen
021	0227 Fet	061	0604 Kongsberg
021	0228 Rælingen	061	0605 Ringerike
021	0229 Enebakk	061	0612 Hole
021	0230 Lørenskog	062	0615 Flå
021	0231 Skedsmo	062	0616 Nes
021	0233 Nittedal	062	0617 Gol
021	0234 Gjerdrum	062	0618 Hemsedal
021	0235 Ullensaker	062	0619 Ål
021	0236 Nes	062	0620 Hol
021	0237 Eidsvoll	062	0621 Sigdal
021	0238 Nannestad	062	0622 Krødsherad
021	0239 Hurdal	061	0623 Modum
031	0301 Oslo	061	0624 Øvre Eiker
042	0402 Kongsvinger	061	0625 Nedre Eiker
041	0403 Hamar	061	0626 Lier
041	0412 Ringsaker	061	0627 Røyken
041	0415 Løten	061	0628 Hurum
041	0417 Stange	062	0631 Flesberg
042	0418 Nord-Odal	062	0632 Rollag
042	0419 Sør-Odal	062	0633 Nore og Uvdal
042	0420 Eidskog	071	0701 Borre
042	0423 Grue	071	0702 Holmestrand
042	0425 Åsnes	071	0704 Tønsberg
042	0426 Våler	071	0706 Sandefjord
041	0427 Elverum	071	0709 Larvik
043	0428 Trysil	071	0711 Svelvik
043	0429 Åmot	071	0713 Sande
043	0430 Stor-Elvdal	071	0714 Hof
043	0432 Rendalen	071	0716 Våle
043	0434 Engerdal	071	0718 Ramnes

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071	0719	Andebu
071	0720	Stokke
071	0722	Nøtterøy
071	0723	Tjøme
071	0728	Lardal
081	0805	Porsgrunn
081	0806	Skien
082	0807	Notodden
081	0811	Siljan
081	0814	Bamble
083	0815	Kragerø
083	0817	Drangedal
082	0819	Nome
082	0821	Bø
082	0822	Sauherad
082	0826	Tinn
082	0827	Hjartdal
083	0828	Seljord
083	0829	Kviteseid
083	0830	Nissedal
083	0831	Fyresdal
083	0833	Tokke
083	0834	Vinje
091	0901	Risør
092	0904	Grimstad
092	0906	Arendal
091	0911	Gjerstad
091	0912	Vegårshei
091	0914	Tvedestrand
091	0919	Froland
092	0926	Lillesand
091	0928	Birkenes
091	0929	Åmli
091	0935	Iveland
091	0937	Evje og Hornnes
091	0938	Bygland
091	0940	Valle
091	0941	Bykle
101	1001	Kristiansand
102	1002	Mandal
102	1003	Farsund
102	1004	Flekkefjord
101	1014	Vennesla
101	1017	Sogdalen
101	1018	Søgne
102	1021	Marnardal
102	1026	Åseral
102	1027	Audnedal
102	1029	Lindesnes
102	1032	Lyngdal
102	1034	Hægebostad
102	1037	Kvinesdal
102	1046	Sirdal
111	1101	Eigersund
112	1102	Sandnes
112	1103	Stavanger
114	1106	Haugesund
111	1111	Sokndal
111	1112	Lund
111	1114	Bjerkreim
112	1119	Hå
112	1120	Klepp
112	1121	Time
112	1122	Gjesdal
112	1124	Sola
112	1127	Randaberg
113	1129	Forsand

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113	1130	Strand
113	1133	Hjelmeland
113	1134	Suldal
113	1135	Sauda
113	1141	Finnøy
112	1142	Rennesøy
112	1144	Kvitsøy
114	1145	Bokn
114	1146	Tysvær
114	1149	Karmøy
114	1151	Utsira
114	1154	Vindafjord
123	1201	Bergen
121	1211	Etne
121	1214	Ølen
121	1216	Sveio
121	1219	Bømlo
121	1221	Stord
121	1222	Fitjar
121	1223	Tysnes
121	1224	Kvinnherad
122	1227	Jondal
122	1228	Odda
122	1231	Ullensvang
122	1232	Eidfjord
122	1233	Ulvik
122	1234	Granvin
122	1235	Voss
122	1238	Kvam
122	1241	Fusa
122	1242	Samnanger
123	1243	Os
121	1244	Austevoll
123	1245	Sund
123	1246	Fjell
123	1247	Askøy
122	1251	Vaksdal
122	1252	Modalen
124	1253	Osterøy
124	1256	Meland
123	1259	Øygarden
124	1260	Radøy
124	1263	Lindås
124	1264	Austrheim
124	1265	Fedje
124	1266	Masfjorden
142	1401	Flora
141	1411	Gulen
141	1412	Solund
141	1413	Hyllestad
141	1416	Høyanger
143	1417	Vik
143	1418	Balestrand
143	1419	Leikanger
143	1420	Sogndal
143	1421	Aurland
143	1422	Lærdal
143	1424	Årdal
143	1426	Luster
141	1428	Askvoll
141	1429	Fjaler
142	1430	Gaular
142	1431	Jølster
142	1432	Førde
142	1433	Naustdal
144	1438	Bremanger
144	1439	Vågsøy

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codes	Municipalities
144	1441 Selje
144	1443 Eid
144	1444 Hornindal
144	1445 Gloppen
144	1449 Stryn
152	1502 Molde
153	1503 Kristiansund
152	1504 Ålesund
151	1511 Vanylven
151	1514 Sande
151	1515 Herøy
151	1516 Ulstein
151	1517 Hareid
151	1519 Volda
151	1520 Ørsta
152	1523 Ørskog
154	1524 Norddal
154	1525 Stranda
154	1526 Stordal
151	1528 Sykkylven
152	1529 Skodje
152	1531 Sula
153	1532 Giske
153	1534 Haram
152	1535 Vestnes
154	1539 Rauma
154	1543 Nesset
153	1545 Midsund
153	1546 Sandøy
153	1547 Aukra
153	1548 Fræna
153	1551 Eide
153	1554 Averøy
153	1556 Frei
155	1557 Gjemnes
155	1560 Tingvoll
155	1563 Sunndal
155	1566 Surnadal
155	1567 Rindal
155	1569 Aure
155	1571 Halså
155	1572 Tustna
155	1573 Smøla
162	1601 Trondheim
161	1612 Hemne
161	1613 Snillfjord
161	1617 Hitra
161	1620 Frøya
161	1621 Ørland
161	1622 Agdenes
161	1624 Rissa
161	1627 Bjugn
161	1630 Åfjord
161	1632 Roan
161	1633 Osen
163	1634 Oppdal
163	1635 Rennebu
163	1636 Meldal
161	1638 Orkdal
163	1640 Røros
163	1644 Holtålen
163	1648 Midtre Gauldal
162	1653 Melhus
162	1657 Skaun
162	1662 Klæbu
162	1663 Malvik
163	1664 Selbu

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163	1665 Tydal
171	1702 Steinkjer
172	1703 Namsos
171	1711 Meråker
171	1714 Stjørdal
171	1717 Frosta
171	1718 Leksvik
171	1719 Levanger
171	1721 Verdal
171	1723 Mosvik
171	1724 Verran
172	1725 Namdalseid
171	1729 Inderøy
172	1736 Snåsa
172	1738 Lierne
172	1739 Røyrvik
172	1740 Namsskogan
172	1742 Grong
172	1743 Høylandet
172	1744 Overhalla
172	1748 Fosnes
172	1749 Flatanger
172	1750 Vikna
172	1751 Nærøy
172	1755 Leka
183	1804 Bodø
182	1805 Narvik
181	1811 Bindal
181	1812 Sømna
181	1813 Brønnøy
181	1815 Vega
181	1816 Vevelstad
181	1818 Herøy
181	1820 Alstahaug
181	1822 Leirfjord
181	1824 Vefsn
181	1825 Grane
181	1826 Hattfjelldal
181	1827 Dønna
181	1828 Nesna
181	1832 Hemnes
181	1833 Rana
181	1834 Lurøy
181	1835 Træna
181	1836 Rødøy
182	1837 Meløy
182	1838 Gildeskål
182	1839 Beiarn
182	1840 Saltdal
182	1841 Fauske
182	1842 Skjerstad
182	1845 Sørfold
182	1848 Steigen
182	1849 Hamarøy
182	1850 Tysfjord
182	1851 Lødingen
182	1852 Tjeldsund
182	1853 Evenes
182	1854 Ballangen
184	1856 Røst
184	1857 Værøy
184	1859 Flakstad
184	1860 Vestvågøy
184	1865 Vågan
184	1866 Hadsel
184	1867 Bø
184	1868 Øksnes

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184	1870	Sortland
184	1871	Andøy
184	1874	Moskenes
191	1901	Harstad
192	1902	Tromsø
191	1911	Kvæfjord
191	1913	Skånland
191	1915	Bjarkøy
191	1917	Ibestad
191	1919	Gratangen
191	1920	Lavangen
191	1922	Bardu
191	1923	Salangen
191	1924	Målselv
191	1925	Sørreisa
191	1926	Dyrøy
191	1927	Tranøy
191	1928	Torsken
191	1929	Berg
191	1931	Lenvik
191	1933	Balsfjord
193	1936	Karlsøy
193	1938	Lyngen
193	1939	Storfjord
193	1940	Kåfjord
193	1941	Skjervøy
193	1942	Nordreisa
193	1943	Kvænangen
201	2002	Vardø
201	2003	Vadsø
201	2004	Hammerfest
201	2011	Kautokeino
201	2012	Alta
201	2014	Loppa
201	2015	Hasvik
201	2017	Kvalsund
201	2018	Måsøy
201	2019	Nordkapp
201	2020	Porsanger
201	2021	Karasjok
201	2022	Lebesby
201	2023	Gamvik
201	2024	Berlevåg
201	2025	Tana
201	2027	Nesseby
201	2028	Båtsfjord
201	2030	Sør-Varanger

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