

EUROPEAN COMMISSION

> Brussels, 11.10.2021 SWD(2021) 1001 final

PART 1/38

# COMMISSION STAFF WORKING DOCUMENT

Accompanying the document

# REPORT FROM THE COMMISSION TO THE COUNCIL AND THE EUROPEAN PARLIAMENT

on the implementation of Council Directive 91/676/EEC concerning the protection of waters against pollution caused by nitrates from agricultural sources based on Member State reports for the period 2016–2019

{COM(2021) 1000 final}

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#### 1. EVOLUTION OF PRESSURES FROM AGRICULTURE

#### Agricultural area and livestock

Table 1: Average livestock numbers (10<sup>6</sup>) presented in the article 10 reports of the Member States (MS) for reporting periods 2012-2015 and 2016-2019, and the change between the two reporting periods. In blue, the values taken from the staff working document of reporting period 2012-2015 because not available in the current reports

		Cattle			Pigs			Poultry	
MS	2012-2015	2016-2019	Change %	2012-2015	2016-2019	Change %	2012-2015	2016-2019	Change %
AT	1.96	1.93	-1.5	2.92	2.78	-4.8	15.21	17.46	15
BE-FL	1.3	NA	-	6.3	NA	-	29.88	NA	-
BE-WA	1.22	1.13	-7.4	0.34	0.38	12	4.98	8.12	63
BG	0.55	0.534	-2.9	0.568	0.589	3.7	14.67	14.89	1.46
CY	0.06	NA	-	0.36	NA	-	3.3	NA	-
CZ	1.41	NA	-	1.56	NA	-	22.51	NA	-
DE	12.64	12.08	-4.4	28.11	26.86	-4.5	177	174	-2.1
DK	1.52	1.54	1.3	20.1	17	-15.4	18.6	20.8	11.8
EE	0.26	0.25	-3.8	0.35	0.29	-17	2.2	2.16	-1.8
EL	0.43	0.78	81	0.2	0.55	175	46.6	91	95
ES	NA	NA	-	NA	NA	-	NA	NA	-
FI	0.91	0.88	-3.7	1.24	1.04	-16	12.6	14.14	12
FR	18.91	19.02	0.58	13.47	13.6	0.97	297.08	308.14	3.7
HR	0.46	0.43	-6.1	1.51	1.09	-28	12.9	11.1	-14
HU	0.82	0.88	7.3	3.12	2.82	-9.6	37.12	39.94	7.6
IE	6.9	7.28	5.5	1.58	1.6	1.3	NA	NA	-
IT	5	5	0	9	9	0	177	176	-0.56
LT	0.73	NA	-	0.76	NA	-	9.4	NA	-
LU	0.195	0.198	1.5	0.09	0.091	1.1	0.113	0.123	8.8
LV	0.051	0.048	-5.9	0.11	0.13	12	3.96	4.09	3.2
MT	0.01	NA	-	0.03	NA	-	0.08	NA	-
NL	4	4	0	12.3	12.4	0.8	101	101	0
PL	5.76	6.26	8.6	10.6	11.2	5.9	151	201	31
PT	1.4	NA	-	1.8	NA	-	NA	NA	-
RO	2.048	2.01	-1.7	5.10	4.35	-15	78	74	-5.2
SE	1.496	1.489	-0.51	1.399	1.354	-3.2	16.5	18.8	13
SI	0.46	NA	-	0.29	NA	-	5	NA	-
SK	0.47	0.44	-5.2	0.64	0.61	-4.2	12.0	13.2	9.5
UK-EN									
UK-WA									
UN-SC									
UK-NI	1.609	1.612	0.19	0.57	0.68	18	21.2	24.8	17

(\*) NA: not available (no data from MS report); - : not applicable

Reporting period				Change (%)			
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015		
AT	3093	2791	2663	-9.8	-4.6		
BE	1359	1334	1349	-1.8	1.1		
BG	5068	5027	5030	-0.8	0.1		
CY	120	114	123	-5.2	7.7		
CZ	3536	3514	3514	-0.6	0.0		
DE	16810	16706	16664	-0.6	-0.2		
DK	2668	2644	2629	-0.9	-0.6		
EE	933	973	990	4.2	1.8		
EL	5306	5262	5228	-0.8	-0.6		
ES	24131	23607	24058	-2.2	1.9		
FI	2293	2271	2273	-0.9	0.1		
FR	30682	29005	29059	-5.5	0.2		
HR	1312	1353	1508	3.1	11.5		
HU	5563	5343	5339	-4.0	-0.1		
IE	4587	4477	4498	-2.4	0.5		
IT	12964	12589	12977	-2.9	3.1		
LT	2735	2923	2953	6.9	1.0		
LU	131	131	131	0.2	0.0		
LV	1820	1869	1940	2.7	3.8		
MT	11	12	12	6.8	-0.4		
NL	1896	1843	1806	-2.8	-2.0		
PL	15154	14440	14481	-4.7	0.3		
PT	3681	3694	3610	0.4	-2.3		
RO	13848	13832	13438	-0.1	-2.8		
SE	3070	3033	3009	-1.2	-0.8		
SI	475	479	479	0.8	0.0		
SK	1929	1926	1916	-0.2	-0.5		
UK	17358	17231	17429	-0.7	1.1		
EU27+UK	179292	178421	171223	-0.5	-4.0		

Table 2: Utilized agricultural area (1000 ha) in the periods 2008-2011, 2012-2016, 2016-2019, and the change between periods (Source: Eurostat, December 2020).

	R	eporting peri	bd	Change (%)		
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015	
AT	2003	1958	1923	-2.3	-1.8	
BE	2514	2465	2415	-1.9	-2.0	
BG	561	561	548	0.0	-2.3	
CY	55	58	69	5.0	18.3	
CZ	1343	1348	1360	0.4	0.8	
DE	12780	12643	12084	-1.1	-4.4	
DK	1616	1577	1536	-2.4	-2.6	
EE	237	257	251	8.6	-2.3	
EL	679	645	546	-5.1	-15.4	
ES	6025	5969	6474	-0.9	8.5	
FI	907	904	865	-0.3	-4.3	
FR	19650	19196	18773	-2.3	-2.2	
HR	448	444	432	-0.9	-2.6	
HU	695	791	879	13.8	11.1	
IE	6095	6307	6610	3.5	4.8	
IT	6254	6196	6338	-0.9	2.3	
LT	758	725	665	-4.2	-8.3	
LU	193	197	197	1.9	-0.2	
LV	380	410	402	8.0	-1.9	
MT	16	15	14	-5.2	-6.7	
NL	3966	4140	3934	4.4	-5.0	
PL	5554	5633	6113	1.4	8.5	
PT	1491	1531	1653	2.7	8.0	
RO	2296	2048	1990	-10.8	-2.8	
SE	1478	1438	1431	-2.7	-0.5	
SI	469	468	482	-0.1	2.9	
SK	473	465	439	-1.5	-5.6	
UK	9846	9735	9666	-1.1	-0.7	
EU27+UK	88781	88125	88087	-0.7	0.0	

Table 3: Number of total cattle (1000 heads) in the periods 2008-2011, 2012-2016, 2016-2019, and the change between the periods (Source: Eurostat, December 2020).

	R	eporting peri	bc	Change (%)			
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015		
AT	531	531	535	0.1	0.7		
BE	516	517	529	0.2	2.4		
BG	310	298	253	-3.7	-15.2		
CY	24	25	31	6.3	25.2		
CZ	383	371	363	-3.2	-2.1		
DE	4193	4260	4132	1.6	-3.0		
DK	573	566	568	-1.3	0.4		
EE	97	95	86	-2.3	-10.0		
EL	143	127	96	-11.3	-24.4		
ES	840	840	822	0.0	-2.2		
FI	285	282	267	-1.1	-5.2		
FR	3747	3660	3568	-2.3	-2.5		
HR	204	165	138	-19.1	-16.4		
HU	250	252	242	0.8	-4.0		
IE	1022	1128	1358	10.3	20.5		
IT	1803	2052	1979	13.9	-3.6		
LT	370	315	264	-14.7	-16.3		
LU	46	47	53	3.8	11.7		
LV	166	164	147	-0.9	-10.7		
MT	7	6	6	-5.0	-2.1		
NL	1543	1616	1650	4.8	2.1		
PL	2564	2257	2166	-12.0	-4.0		
PT	251	236	237	-6.1	0.3		
RO	1313	1178	1166	-10.3	-1.0		
SE	354	343	316	-3.1	-7.9		
SI	111	110	105	-0.9	-4.8		
SK	162	144	129	-11.2	-10.5		
UK	1854	1851	1887	-0.1	1.9		
EU27+UK	23661	23438	23095	-0.9	-1.5		

Table 4: Number of dairy cattle (1000 heads) in the periods 2008-2011, 2012-2016, 2016-2019, and the change between the periods (Source: Eurostat, December 2020).

	R	eporting perio	bc	Change (%)		
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015	
AT	3085	2898	2791	-6.1	-3.7	
BE	6235	6378	6145	2.3	-3.7	
BG	696	568	589	-18.5	3.8	
CY	458	356	354	-22.3	-0.4	
CZ	1845	1561	1507	-15.4	-3.5	
DE	26966	28114	26863	4.3	-4.4	
DK	12427	12524	12621	0.8	0.8	
EE	367	349	287	-4.9	-17.8	
EL	1085	1000	735	-7.9	-26.4	
ES	25743	26420	30313	2.6	14.7	
FI	1346	1248	1102	-7.3	-11.7	
FR	14402	13453	13342	-6.6	-0.8	
HR	1204	1154	1089	-4.2	-5.6	
HU	3211	3063	2821	-4.6	-7.9	
IE	1517	1486	1582	-2.0	6.5	
IT	7125	8643	8513	21.3	-1.5	
LT	886	741	600	-16.4	-19.1	
LU	87	90	88	3.5	-1.8	
LV	381	352	319	-7.8	-9.3	
MT	62	46	37	-24.8	-21.2	
NL	12038	12159	12002	1.0	-1.3	
PL	14082	10996	11315	-21.9	2.9	
PT	1950	2103	2184	7.8	3.9	
RO	5690	5096	4218	-10.4	-17.2	
SE	1623	1462	1429	-9.9	-2.2	
SI	398	284	256	-28.5	-10.1	
SK	689	636	604	-7.7	-5.0	
UK	4421	4383	4660	-0.9	6.3	
EU27+UK	150019	147561	148365	-1.6	0.5	

Table 5: Number of pigs (1000 heads) in the periods 2008-2011, 2012-2016, 2016-2019, and the change between the periods (Source: Eurostat, December 2020).

	Reporting period			Change (%)		
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015	
AT	349	356	397	2.0	11.5	
BE	123	116	87	-6.0	-25.2	
BG	1424	1350	1327	-5.3	-1.7	
CY	313	329	319	5.0	-2.9	
CZ	203	224	218	10.6	-2.7	
DE	1807	1598	1570	-11.6	-1.7	
DK	124	151	147	21.3	-2.4	
EE	74	82	77	11.1	-5.8	
EL	9356	9123	8547	-2.5	-6.3	
ES	18806	15979	15814	-15.0	-1.0	
FI	117	140	156	19.7	11.4	
FR	7705	7218	7076	-6.3	-2.0	
HR	633	628	638	-0.8	1.5	
HU	1190	1194	1114	0.3	-6.6	
IE	3262	3351	3757	2.7	12.1	
IT	8008	7128	7170	-11.0	0.6	
LT	55	113	162	107.1	43.3	
LU	8	9	9	3.2	0.7	
LV	74	91	106	23.5	17.2	
MT	12	11	12	-11.5	12.1	
NL	1240	1067	889	-13.9	-16.7	
PL	230	228	267	-0.9	17.0	
PT	2331	2060	2203	-11.6	6.9	
RO	8743	9324	10098	6.6	8.3	
SE	562	593	483	5.4	-18.6	
SI	136	113	112	-16.7	-1.4	
SK	382	396	351	3.6	-11.1	
UK	21611	22702	22987	5.0	1.3	
EU27+UK	88879	85672	86095	-3.6	0.5	

Table 6: Number of sheep (1000 heads) in the periods 2008-2011, 2012-2016, 2016-2019, and the change between the periods (Source: Eurostat, December 2020).

Note:

The blue color indicates where data from Eurostat was completed with FAO data (FAODATA extends until 2018)

	Re	porting per	iod	Change (%)		
MS	2010	2013	2016	2013 / 2010	2016 / 2013	
AT	14620	15740	17430	7.7	10.7	
BE	34370	35110	42630	2.2	21.4	
BG	17490	14290	16610	-18.3	16.2	
CY	3220	1850	2600	-42.5	40.5	
CZ	25320	25340	25100	0.1	-0.9	
DE	128900	177330	169720	37.6	-4.3	
DK	18740	19430	18510	3.7	-4.7	
EE	1940	2170	1900	11.9	-12.4	
EL	36760	27880	30390	-24.2	9.0	
ES	200910	205820	203110	2.4	-1.3	
FI	9310	13410	15390	44.0	14.8	
FR	296130	297080	308140	0.3	3.7	
HR	13470	13630	10390	1.2	-23.8	
HU	48700	41100	46690	-15.6	13.6	
IE	10930	12820	11050	17.3	-13.8	
IT	167520	164900	158030	-1.6	-4.2	
LT	8600	9340	11250	8.6	20.4	
LU	90	110	120	22.2	9.1	
LV	5160	5040	4650	-2.3	-7.7	
MT	980	910	780	-7.1	-14.3	
NL	103620	99430	107340	-4.0	8.0	
PL	174300	149190	198360	-14.4	33.0	
PT	35350	28610	36050	-19.1	26.0	
RO	79190	76300	77200	-3.6	1.2	
SE	14290	16590	18780	16.1	13.2	
SI	4900	4860	6220	-0.8	28.0	
SK	12660	11360	12060	-10.3	6.2	
UK	162560	137190	164380	-15.6	19.8	
EU27+UK	1630030	1606830	1714880	-1.4	6.7	

Table 7: Number of poultry (1000 heads) in the 2010, 2013 and 2016, and change between years (Source: Eurostat, December 2020).

	Rep	porting pe	riod	Change (%)		
MS	2010	2013	2016	2013 / 2010	2016 / 2013	
AT	2517	2439	2432	-3.1	-0.3	
BE	3799	3584	3773	-5.6	5.3	
BG	1149	1025	1094	-10.8	6.8	
CY	201	175	172	-13.2	-1.4	
CZ	1722	1728	1757	0.4	1.6	
DE	17793	18407	18182	3.5	-1.2	
DK	4919	4133	4128	-16.0	-0.1	
EE	306	310	279	1.3	-9.9	
EL	2407	2143	2103	-11.0	-1.9	
ES	14831	14502	14443	-2.2	-0.4	
FI	1121	1173	1071	4.6	-8.7	
FR	22674	21871	22082	-3.5	1.0	
HR	1020	864	755	-15.3	-12.7	
HU	2484	2259	2445	-9.1	8.2	
IE	5787	5865	6196	1.3	5.6	
IT	9912	9374	9468	-5.4	1.0	
LT	900	839	850	-6.8	1.3	
LU	168	165	174	-1.5	5.0	
LV	475	486	499	2.3	2.6	
MT	42	35	32	-16.8	-7.0	
NL	6712	6602	6820	-1.6	3.3	
PL	10377	9165	9443	-11.7	3.0	
PT	2206	2036	2224	-7.7	9.2	
RO	5444	4975	4829	-8.6	-2.9	
SE	1752	1715	1706	-2.1	-0.5	
SI	518	488	512	-5.8	5.0	
SK	668	645	622	-3.5	-3.6	
UK	13308	13106	13252	-1.5	1.1	
EU27+UK	135212	130109	131340	-3.8	0.9	

Table 8: Number of Livestock Units (1000) in 2010, 2013 and 2016, and the change between the years (Source: Eurostat, December 2020).

	Repo	orting p	eriod	Change (%)		
MS	2010	2013	2016	2013 / 2010	2016 / 2013	
AT	0.87	0.89	0.91	2.3	2.2	
BE	2.80	2.74	2.79	-2.1	1.8	
BG	0.26	0.22	0.24	-15.4	9.1	
CY	1.70	1.60	1.54	-5.9	-3.8	
CZ	0.49	0.50	0.51	2.0	2.0	
DE	1.07	1.10	1.09	2.8	-0.9	
DK	1.86	1.58	1.58	-15.1	0.0	
EE	0.33	0.32	0.28	-3.0	-12.5	
EL	0.46	0.44	0.46	-4.3	4.5	
ES	0.62	0.62	0.62	0.0	0.0	
FI	0.49	0.51	0.48	4.1	-5.9	
FR	0.81	0.79	0.79	-2.5	0.0	
HR	0.78	0.55	0.48	-29.5	-12.7	
HU	0.53	0.49	0.52	-7.5	6.1	
IE	1.16	1.20	1.27	3.4	5.8	
IT	0.77	0.77	0.75	0.0	-2.6	
LT	0.33	0.29	0.29	-12.1	0.0	
LU	1.28	1.26	1.33	-1.6	5.6	
LV	0.26	0.26	0.26	0.0	0.0	
MT	3.64	3.21	2.92	-11.8	-9.0	
NL	3.58	3.57	3.80	-0.3	6.4	
PL	0.72	0.64	0.66	-11.1	3.1	
PT	0.60	0.56	0.61	-6.7	8.9	
RO	0.41	0.38	0.39	-7.3	2.6	
SE	0.57	0.56	0.57	-1.8	1.8	
SI	1.07	1.00	1.05	-6.5	5.0	
SK	0.35	0.34	0.33	-2.9	-2.9	
UK	0.79	0.76	0.79	-3.8	3.9	
EU27+UK	1.02	0.97	0.98	-5.1	0.6	

Table 9: Livestock density index (LU per ha UAA) in 2010, 2013 and 2016, and the change between the years (Source: Eurostat, December 2020).



Map 1: Livestock density by NUTS2 expressed as livestock units per hectare of UAA, year 2016 (Source: Eurostat, February 2021)



Map 2: Bovine density by NUTS2 expressed as livestock units per hectare of UAA, year 2016 (Source: Eurostat, February 2021). The label 'NA' stands for not available data.



Map 3: Poultry density by NUTS2 expressed as livestock units per hectare of UAA, year 2016 (Source: Eurostat, February 2021). The label 'NA' stands for not available data.



Map 4: Sheep density by NUTS2 expressed as livestock units per hectare of UAA, year 2016 (Source: Eurostat, February 2021). The label 'NA' stands for not available data.



Map 5: Swine density by NUTS2 expressed as livestock units per hectare of UAA, year 2016 (Source: Eurostat, February 2021). The label 'NA' stands for not available data.

#### Use of fertilisers

	A	Animal manure Mineral fertiliser			er	
MS	2012-2015	2016-2019	Change %	2012-2015	2016-2019	Change %
AT	169.4	171.1	1.0	107	118	10
BE-FL	95	NA	-	39	NA	-
BE-WA	70.6	68.6	-2.9	76	71	-7.8
BG	73.2	87.9	20.1	289	352	21.8
CY	9	NA	-	7	NA	-
CZ	63	NA	-	397	NA	-
DE	1515.5	1547	2.1	1697	1552	-8.5
DK	217	220	1.4	202	232	14.9
EE	23.1	21.6	-6.5	34.7	37.5	8.1
EL	57.2	NA	-	NA	NA	-
ES	NA	NA	-	NA	NA	-
FI	75.19	73.36	-2.4	147	138	-6.1
FR	1720	NA	-	2200	NA	-
HR	49	55.48	13	74	91.92	24
HU	123	99.4	-19.2	493	635	28.8
IE	489	523	6.9	328	371	13
IT	364	401	10.2	610	640	4.9
LT	47	NA	-	NA	NA	-
LU	12	NA	-	13	NA	-
LV	NA	NA	-	76	NA	-
MT	NA	NA	-	0.6	NA	-
NL	345	367	6.4	218	222	1.8
PL	517	553	7.9	1004	1903	90
PT	NA	NA	-	NA	NA	-
RO	410	NA	-	323.5	398	23
SE	102.7	76.54	-26	155	NA	-
SI	29	NA	-	27	NA	-
SK	19.3	15.79	-18	1.33	3.55	167
UK-EN						
UK-WA						
UN-SC						
UK-NI	97.86	102.9	5.1	71.04	77.73	9.4

Table 10: Average annual animal manure nitrogen and mineral fertiliser nitrogen use (1 000 tons N) presented in the article 10 reports of the Member States for reporting periods 2012-2015 and 2016-2019, and the change between the two reporting periods.

(\*) NA: not available (no data from MS report); - : not applicable

	Reporting period			Change (%)		
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015	
AT	107020	112898	120164	5.5	6.4	
BE	145490	144361	NA	-0.8	NA	
BG	185728	272082	351120	46.5	29.0	
CY	4568	3725	NA	-18.5	NA	
CZ	304597	350853	402385	15.2	14.7	
DE	1678333	1696830	1684726	1.1	-0.7	
DK	202080	189274	NA	-6.3	NA	
EE	30304	34148	NA	12.7	NA	
EL	192598	179637	NA	-6.7	NA	
ES	830780	991646	1025129	19.4	3.4	
FI	150406	141972	138538	-5.6	-2.4	
FR	2234186	2141910	2203465	-4.1	2.9	
HR	123826	86478	85391	-30.2	-1.3	
HU	288126	323962	366043	12.4	13.0	
IE	318490	327827	354099	2.9	8.0	
IT	547826	578411	547249	5.6	-5.4	
LT	135725	152667	NA	12.5	NA	
LU	13733	13855	NA	0.9	NA	
LV	54675	69267	76755	26.7	10.8	
MT	627	636	NA	1.3	NA	
NL	209423	218410	233824	4.3	7.1	
PL	1089053	1099673	1124123	1.0	2.2	
PT	100098	116865	107062	16.8	-8.4	
RO	298758	323836	398097	8.4	22.9	
SE	166675	170125	189567	2.1	11.4	
SI	26965	27624	27090	2.4	-1.9	
SK	111209	128571	126172	15.6	-1.9	
UK	996880	1026872	1032898	3.0	0.6	
EU27+UK	10548181	10802383	NA	2.4	NA	

Table 11: Mineral fertiliser nitrogen use (1000 kg N) in the periods 2008-2011, 2012-2015 and 2016-2019, and the change between the reporting periods (Source: Eurostat, December 2020).

	R	eporting perio	bd	Change (%)		
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015	
AT	12394	12787	13659	3.2	6.8	
BE	55 <del>5</del> 0	5600	NA	0.9	NA	
BG	14168	20199	29562	42.6	46.4	
CY	1000	867	NA	-13.3	NA	
CZ	15660	19551	22437	24.9	14.8	
DE	110524	121864	113268	10.3	-7.1	
DK	9500	12425	NA	30.8	NA	
EE	3002	3286	NA	9.5	NA	
EL	28250	24680	NA	-12.6	NA	
ES	136777	176733	185718	29.2	5.1	
FI	12667	11153	11040	-12.0	-1.0	
FR	201743	200313	181598	-0.7	-9.3	
HR	14968	14156	10361	-5.4	-26.8	
HU	22360	32768	43252	46.5	32.0	
IE	25731	34136	39484	32.7	15.7	
IT	91000	73651	NA	-19.1	NA	
LT	27236	32776	NA	20.3	NA	
LU	572	516	NA	-9.7	NA	
LV	6736	9841	11297	46.1	14.8	
MT	30	31	NA	2.2	NA	
NL	8357	4550	4942	-45.6	8.6	
PL	174625	153161	146896	-12.3	-4.1	
PT	15124	17595	22897	16.3	30.1	
RO	49398	52186	66871	5.6	28.1	
SE	10700	11700	13933	9.3	19.1	
SI	4203	3970	3994	-5.5	0.6	
SK	8687	10676	11424	22.9	7.0	
UK	78497	85131	87080	8.5	2.3	
EU27+UK	1089457	1148391	NA	5.4	NA	

Table 12: Mineral fertiliser phosphate use (1 000 kg P) in the periods 2008-2011, 2012-2015 and 2016-2019, and the change between the reporting periods (Source: Eurostat, December 2020).

	Reporting period			Change (%)		
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015	
AT	161066	170204	172237	5.7	1.2	
BE	234751	231894	NA	-1.2	NA	
BG	100130	91278	76072	-8.8	-16.7	
CY	22188	20046	NA	-9.7	NA	
CZ	112133	96996	90486	-13.5	-6.7	
DE	1250936	1273535	1203788	1.8	-5.5	
DK	267041	261971	NA	-1.9	NA	
EE	24094	25660	NA	6.5	NA	
EL	293721	293797	NA	0.0	NA	
ES	854513	827451	949015	-3.2	14.7	
FI	103326	102925	101813	-0.4	-1.1	
FR	1798323	1763660	1761385	-1.9	-0.1	
HR	59545	57284	58838	-3.8	2.7	
HU	115035	125387	129728	9.0	3.5	
IE	474359	489166	520786	3.1	6.5	
IT	848472	829948	862737	-2.2	4.0	
LT	69779	66776	NA	-4.3	NA	
LU	15054	14908	NA	-1.0	NA	
LV	34009	36238	25932	6.6	-28.4	
MT	2636	2371	NA	-10.0	NA	
NL	414726	400763	423421	-3.4	5.7	
PL	560112	515639	557558	-7.9	8.1	
PT	155866	151238	159316	-3.0	5.3	
RO	385984	354933	326955	-8.0	-7.9	
SE	120974	119578	120475	-1.2	0.8	
SI	37702	36112	37461	-4.2	3.7	
SK	60239	57919	45649	-3.9	-21.2	
UK	995281	995396	1019849	0.0	2.5	
EU27+UK	9571992	9384716	NA	-2.0	NA	

Table 13: Animal manure nitrogen use (1 000 kg N) in the periods 2008-2011, 2012-2015 and 2016-2019, and the change between the reporting periods (Source: Eurostat, December 2020)

	Reporting period			Change (%)		
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015	
AT	29550	28898	29164	-2.2	0.9	
BE	36441	37419	NA	2.7	NA	
BG	14437	12890	2409	-10.7	-81.3	
CY	3882	3486	NA	-10.2	NA	
CZ	22638	19202	18839	-15.2	-1.9	
DE	227103	230703	198664	1.6	-13.9	
DK	63374	62717	NA	-1.0	NA	
EE	4833	5068	NA	4.9	NA	
EL	39943	40202	NA	0.6	NA	
ES	138454	130160	147260	-6.0	13.1	
FI	17866	18081	18051	1.2	-0.2	
FR	301432	293387	323994	-2.7	10.4	
HR	10761	9767	9200	-9.2	-5.8	
HU	22706	24954	25414	9.9	1.8	
IE	59841	61869	65209	3.4	5.4	
IT	163876	157755	NA	-3.7	NA	
LT	12297	11826	NA	-3.8	NA	
LU	2176	2163	NA	-0.6	NA	
LV	5178	5514	4724	6.5	-14.3	
MT	612	567	NA	-7.3	NA	
NL	60345	55591	54172	-7.9	-2.6	
PL	113283	98147	105497	-13.4	7.5	
PT	28350	27182	28319	-4.1	4.2	
RO	68697	63953	64469	-6.9	0.8	
SE	19994	19390	19485	-3.0	0.5	
SI	5511	5242	5445	-4.9	3.9	
SK	9350	8906	7401	-4.7	-16.9	
UK	170652	170422	174797	-0.1	2.6	
EU27+UK	1653580	1602325	NA	-3.1	NA	

Table 14: Animal manure phosphate use (1000 kg P) in the periods 2008-2011, 2012-2015 and 2016-2019, and the change between the reporting periods (Source: Eurostat, December 2020)

## Nutrient balance

Table 15: Gross	nitrogen balanc	e per hectare	UAA (kg	g/ha N - 1	UAA) in t	he period	ls 2008-
2011, 2012-2015	and 2015-2019,	and the chang	ge betwee	n the perio	ods in kg l	N per ha.	(Source:
Eurostat, Decem	ber 2020)						

	R	eporting perio	bd	Change (kg/ha N - UAA)		
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015	
AT	33.6	40.1	39.0	6.5	-1.1	
BE	134.6	136.2	NA	1.6	NA	
BG	15.6	23.9	65.8	8.3	41.9	
CY	192.2	187.8	NA	-4.3	NA	
CZ	70.8	81.3	97.3	10.5	16.0	
DE	78.8	75.4	65.1	-3.4	-10.3	
DK	92.7	82.6	NA	-10.1	NA	
EE	28.3	23.2	NA	-5.1	NA	
EL	64.2	55.9	NA	-8.4	NA	
ES	30.7	35.0	44.1	4.4	9.1	
FI	49.0	47.8	49.2	-1.3	1.5	
FR	46.0	43.0	43.2	-3.0	0.1	
HR	87.6	59.5	56.2	-28.0	-3.3	
HU	28.9	35.1	30.9	6.2	-4.2	
IE	35.4	44.8	58.2	9.3	13.5	
IT	61.6	70.3	66.3	8.8	-4.0	
LT	38.4	27.6	NA	-10.8	NA	
LU	126.8	127.5	NA	0.7	NA	
LV	23.9	26.9	26.3	2.9	-0.6	
MT	178.8	145.5	NA	-33.3	NA	
NL	172.2	173.3	190.6	1.1	17.2	
PL	52.5	47.6	51.5	-4.9	3.9	
PT	36.6	42.7	46.0	6.0	3.3	
RO	5.0	7.1	-2.1	2.1	-9.2	
SE	40.6	32.0	43.6	-8.5	11.6	
SI	48.9	53.5	53.7	4.7	0.2	
SK	34.0	34.6	24.0	0.7	-10.6	
UK	85.4	86.0	86.3	0.7	0.2	
EU27+UK	48.9	49.0	NA	0.1	NA	

Table 16: Net nitrogen balance per hectare UAA (kg/ha N - UAA) in the periods 2008-2011,
2012-2015 and 2015-2019, and the change between the periods in kg N per ha. (Source:
Eurostat, December 2020).

	R	eporting perio	bc	Change (kg/ha N - UAA)			
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-201		
AT	13.8	18.0	15.3	4.3	-2.7		
BE	89.4	92.3	NA	2.9	NA		
BG	7.8	16.4	55.7	8.5	39.3		
CY	152.4	147.3	NA	-5.1	NA		
CZ	52.6	64.3	79.4	11.7	15.1		
DE	41.4	35.9	25.9	-5.5	-9.9		
DK	64.4	56.7	NA	-7.7	NA		
EE	17.2	12.1	NA	-5.1	NA		
EL	52.8	44.7	NA	-8.0	NA		
ES	16.9	21.0	27.6	4.0	6.6		
FI	33.9	32.6	33.9	-1.3	1.3		
FR	25.3	22.2	24.3	-3.1	2.1		
HR	66.3	42.4	37.1	-23.9	-5.3		
HU	16.6	21.7	16.4	5.1	-5.3		
IE	13.7	22.2	33.8	8.6	11.5		
IT	35.4	44.3	39.2	8.9	-5.1		
LT	25.2	16.3	NA	-8.9	NA		
LU	86.4	86.8	NA	0.4	NA		
LV	16.0	18.2	17.7	2.2	-0.5		
MT	61.5	33.9	NA	-27.6	NA		
NL	114.1	117.6	131.2	3.5	13.6		
PL	33.7	28.8	31.9	-4.9	3.1		
PT	25.6	31.9	34.5	6.3	2.6		
RO	-4.6	-1.8	-12.8	2.9	-11.0		
SE	24.4	15.7	27.3	-8.8	11.7		
SI	14.9	21.2	20.9	6.4	-0.4		
SK	34.0	34.6	14.5	0.7	-20.1		
UK	67.9	67.8	78.8	-0.1	11.0		
EU27+UK	29.7	29.6	NA	-0.1	NA		

	R	eporting perio	bd	Change (kg/ha P - UAA)			
MS	2008-2011	2012-2015	2016-2019	2012-2015 / 2008-2011	2016-2019 / 2012-2015		
AT	0.2	0.6	0.5	0.4	-0.1		
BE	4.0	5.5	NA	1.5	NA		
BG	-4.8	-6.2	1.0	-1.5	7.2		
CY	31.2	30.8	NA	-0.5	NA		
CZ	-2.5	-2.3	-1.7	0.2	0.6		
DE	-1.8	-2.3	-4.0	-0.5	-1.7		
DK	7.2	7.2	NA	0.0	NA		
EE	-5.5	-7.0	NA	-1.5	NA		
EL	1.5	0.2	NA	-1.2	NA		
ES	2.4	3.8	7.6	1.4	3.8		
FI	4.0	3.8	4.7	-0.1	0.8		
FR	1.2	1.1	1.7	-0.1	0.6		
HR	5.7	4.9	0.1	-0.8	-4.8		
HU	-3.1	-1.0	-1.4	2.1	-0.4		
IE	17.3	20.0	22.4	2.7	2.4		
IT	-1.8	-1.5	NA	0.2	NA		
LT	4.0	2.8	NA	-1.2	NA		
LU	4.2	4.0	NA	-0.2	NA		
LV	1.5	2.0	1.8	0.5	-0.2		
MT	34.5	29.2	NA	-5.2	NA		
NL	8.0	3.2	3.4	-4.8	0.1		
PL	5.6	2.1	2.0	-3.4	-0.1		
PT	2.5	4.0	6.4	1.6	2.4		
RO	-0.5	-0.9	-3.9	-0.4	-2.9		
SE	-0.4	-0.8	1.0	-0.4	1.8		
SI	3.2	3.1	3.2	-0.1	0.0		
SK	-4.8	-5.1	-6.1	-0.3	-1.0		
UK	5.5	5.8	5.9	0.2	0.2		
EU27+UK	1.7	1.6	NA	-0.1	NA		

Table 17: Gross phosphate balance per hectare UAA (kg/ha P - UAA) in the periods 2008-2011, 2012-2015 and 2015-2019, and the change between the periods in kg N per ha (Source: Eurostat, December 2020).

### N-discharge into the environment from agriculture

Table 18: Annual average nitrogen discharge (kton N) to the aquatic environment and relative contribution of agriculture (%), presented in the article 10 reports of the Member States for reporting periods 2008-2011, 2012-2015 and 2016-2019.

	Nitrogen discharge (kton N)			Contribution agriculture (%)				Contribution agriculture		
MS	2008-2011	2012-2015	2016-2019	Change %	2008-2011	2012-2015	2016-2019	Change %	UAA (1000 ha)	kg/ha N - UAA
AT	80	80	NA	-	50	NA	NA	-	2663	-
BE-FL	19.5	22.3	20	-10.3	65.8	70.5	71	0.71	1349	14.8
BE-WA	24	19	18	-5.3	81	NA	NA	-	1349	13.3
BG	NA	NA	NA	-	NA	NA	NA	-	5030	-
CY	27	15.5	17.4	12.3	NA	NA	NA	-	123	142
CZ	217	223.2	179.8	-19.4	95	95.7	94.9	-0.84	3514	51.2
DE	450	NA	350	-	77.6	NA	75	-	16664	21.0
DK	NA	NA	NA	-	NA	NA	NA	-	2629	-
EE	23	26.8	NA	-	85	96	84	-12.5	990	-
EL	NA	NA	NA	-	NA	NA	NA	-	5213	-
ES	NA	3119	1940	-37.8		92.9	89.4	-3.79	24058	80.7
FI	50.37	42.9	41.9	-2.3	79.6	74.8	76.3	2.0	2273	18.4
FR	1073	1271	NA	-	NA	94.4	NA	-	29062	-
HR	NA	122	NA	-	NA	96	NA	-	1508	-
HU	410	459	541	17.9	93	96	98	2.1	5339	101
IE	767	817	895	9.5	NA	99.5	99.3	-0.20	4498	199
IT	NA	NA	NA	-	NA	NA	NA	-	12977	-
LT	NA	NA	NA	-	NA	NA	NA	-	2953	-
LU	2.88	3	2.97	-1.2	65.3	73	76.2	4.4	131	22.6
LV	NA	26.6	65.8	147	NA	83.6	90.9	8.7	1940	33.9
MT	0.2	NA	NA	-	NA	NA	NA	-	11.6	-
NL	57	51	NA	-	63	62	NA	-	1806	-
PL	1696	1521	1625	6.8	99	98.6	98.7	0.10	14498	112
PT	NA	154.6	164.2	6.2	NA	86.9	87.6	0.81	3610	45.5
RO	NA	NA	16	-	NA	NA	22	-	13535	1.18
SE	60.2	57.4	52.9	-7.8	51.9	49.9	49	-1.8	3009	17.6
SI	7.1	10.3	8.5	-17.5	NA	60.1	66.7	11.0	479	17.7
SK	NA	18.5	18	-2.7	NA	45.7	49.2	7.7	1916	9.4
UK-EN									17529	
UK-NI	16.2	17.1	18.1	5.8	78.7	79.2	79.8	0.76	17529	1.03
UK-SC									17529	
UK-WA									17529	

Note:

The last column represents the kg/ha N from agriculture.

In blue, values taken from the staff working document of reporting period 2012-2015 because not available in the current reports.

UAA data retrieved from Eurostat (March 2021)

For BE and UK, UAA data are available for the whole  $\operatorname{country}$ 

NA: not available, -: not applicable