https://www.gov.uk/government/collections/fertiliser-usage

A2.4 TOTAL QUANTITIES OF NITROGEN, PHOSPHATE, POTASH AND SULPHUR USED IN THE UK

Estimates of quantities of nitrogen, phosphate, potash and sulphur used in the UK since 2003 are illustrated in Figure A2.7. Longer term data from 1966 is attached. These data are based on BSFP findings and trade and sales data. They are compiled by the AIC in conjunction with Defra using the methodology described in Appendix 3.2.5. Users should note that these figures relate also to the whole of the UK, whereas the other figures presented in this report relate just to Great Britain.

Total nitrogen use in the UK increased from 590 thousand tonnes in 1966 up to 1,674 thousand tonnes in 1987 before declining gradually to 1,001 thousand tonnes in 2008. The drop in 2009 was related to high fertiliser prices. Between 2010 and 2019 nitrogen use has remained relatively stable. The reduction in nitrogen use observed in 2020 was related to weather and cropping factors. From the peak in 1987, UK nitrogen use since has fallen by approximately 40%. Estimated nitrogen use in 2024 increased slightly on the previous year, to 872 thousand tonnes. 2022 was the lowest level seen since 1970, driven predominantly by supply shortage and price increases, in part as a result of the conflict in Ukraine.

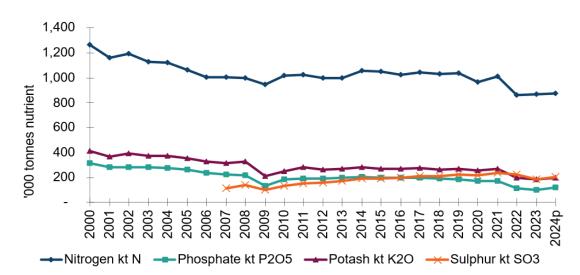


Figure A2.7 Quantities of major nutrients used, United Kingdom 2000 - 2024

Phosphate use in the UK has fallen since the mid-1980s but since 2007 this decline has slowed. The low use of 129 thousand tonnes in 2009 was price related. Between 2010 and 2019 total phosphate use was more stable, between 184 and 201 thousand tonnes. Results for 2020 and 2021 showed a further reduction of this nutrient, (174 thousand tonnes of phosphate was used in 2020). At this level of usage volumes are only 40% of the annual average used between 1966 and 1995. This reduction somewhat reversed in 2024, increasing 14 thousand tonnes on the year, to 116 thousand tonnes. A softening of pricing and supply challenges from the year earlier helped to drive this recovery.

Potash use in the UK was highest in the mid-1980s through to 1999, after which there has been a sustained decline. Potash use in 2022 recorded a steeper decline, following a decade of reasonable stability. This reduced further in 2023 to 184 thousand tonnes. During 2024, potash use recovered to 2022 levels, to 198 thousand tonnes. As with phosphate, an easing in global price increases and reduction in supply issues were key drivers of this recovery.

Between 2009 and 2021, sulphur use recorded a steady increase, reaching highs of 239 thousand tonnes in 2021. This growth was reversed in the subsequent two years, with usage levels of 182 thousand tonnes reported in 2023, the lowest usage volume since 2014. Sulphur use in 2024 has reversed this downward trend, with usage volumes of 205 thousand tonnes. However, this is still the second lowest volume in the last eight years.

		Mineral fertiliser nutrients														Mineral fertiliser product							
Crop year		Nitroge	en kt N		Phosphate kt P₂O₅				Potash kt K ₂ O				Sulphur kt SO ₃				Nitrogen (N & NS)			Com	Compounds, Blends		
,	England & Wales	Scotland	N Ireland	UK	England & Wales	Scotland	N Ireland	UK	England & Wales	Scotland	N Ireland	UK	England & Wales	Scotland	N Ireland	UK	Great Britain	Northern Ireland	UK	Great Britain	Northern Ireland	UK	
1966	491	76	23	590	332	81	22	435	335	61	18	413	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x]	
1967 1968	573 625	85 93	27 29	685 748	359 367	79 81	23	460 469	354 362	61	19 18	434 441	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x] [x]	
1969	639	108	35	781	362	84	22	467	363	65	19	447	[X]	[X]		[x]		[x]	[X]	[x]	[x]	[x]	
1970	653	108	34	796	366	81	23	470	356	63	20	438	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x]	
1971	732	119	43	894	397	84	24	504	373	65	21	459	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x]	
1972 1973	751 759	120 132	48 56	919 947	371 373	76 85	24 25	470 482	336 333	60	19 21	416 417	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[X]	
1973	784	139	57	980	357	72	21	449	347	55	19	421	[X]			[X]		[X]	[X]	[x]	[x]	[x] [x]	
1975	788	143	54	984	306	69	18	393	302	59	16	377	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x]	
1976	851	144	65	1,059	315	69	19	404	322	59	17	398	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x] [x]	
1977	879 924	146	68 75	1,093	316 316	69	21	406 410	330 328	59	20	409 412	[X]	[x]		[x]		[x]	[X]	[x]	[x]	[X]	
1978 1979	924	156 160	85	1,155 1,186	321	72 73	22	410	328	64 65	20 21	412	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x] [x]	
1980	1,031	156	81	1,268	342	75	24	440	361	65	22	447	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x]	
1981	1,100	159	76	1,335	344	73	24	441	367	66	21	454	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]	
1982	1,180	160	76	1,416	357	65	24	446	394	67	22	483	[X]	[x]		[X]		[x]	[X]	[x]	[x]	[x]	
1983 1984	1,227 1,316	161 183	82 89	1,470 1,588	359 391	65 69	24 28	448 488	409 457	68 73	23 29	500 559	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[X]	
1985	1,298	186	96	1,580	375	71	23	469	441	72	28	541	[X]	[X]		[X]		[X]	[X]	[x]	[x]	[x] [x]	
1986	1,297	176	99	1,572	341	65	28	434	415	66	29	510	[x]	[x]	[x]	[x]	[x]	[x]	[x]		[x]	[x]	
1987	1,370	193	111	1,674	340	65	27	432	429	70	29	528	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x]	
1988 1989	1,251 1,223	180 193	94 98	1,525 1,514	341 334	70 65	24 26	435 425	419 420	76 74	29 29	524 523	[X]	[X]		[X]		[X]	[X]	[x]	[X]	[X]	
1990	1,275	193	113	1,514	323	63	28	414	409	73	33	515	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x] [x]	
1991	1,224	193	98	1,515	321	61	24	406	393	71	28	492	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x]	
1992	1,105	166	94	1,365	295	55	21	371	351	64	26	441	[x]	[x]		[x]	[x]	[x]	[x]	[x]	[x]	[x]	
1993	968	142	109	1,219	286	50	24	360	344	57	29	430	[X]	[x]		[x]		[x]	[x]	[x]	[x]	[x] [x]	
1994 1995	986 1,064	133 156	129 128	1,248 1,348	312 325	51 53	28 27	391 405	361 378	59 64	38	458 476	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[X]	
1996	1,048	157	128	1,333	302	62	30	394	370	65	36	471	[X]	[X]		[x]		[x]	[X]	[x]	[x]	[X]	
1997	1,156	172	112	1,440	325	63	24	412	405	65	31	501	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x]	
1998	1,111	158	106	1,375	308	56	19	383	397	64	26	487	[x]	[x]		[x]		[x]	[x]	[x]	[x]	[x]	
1999 2000	1,015	152 150	117 113	1,284	274	50 59	23	347 317	365 322	59 61	27	451 409	[X]	[X]		[x]		[x] 135	2,429	[X]	[x]	[x] 2,848	
2000	1,005 876	180	106	1,268 1,162	201	57	21	279	274	69	26 26	369	[x]	[x]		[x]		99	1,936	2,519 2,142	329 329	2,040	
2002	915	187	95	1,197	209	55	19	283	297	70	24	391	58	8		[x]		85	2,335	2,211	300	2,511	
2003	853	170	108	1,131	203	60	19	282	283	66	26	375	75	11	[x]	[x]	1,911	85	1,996	2,171	335	2,506	
2004	875	150	100	1,125	205	57	16	278	288	65	22	375	95	14		[x]		91	2,030	2,254	296	2,550	
2005 2006	834 780	150 153	77 70	1,061 1,003	192 173	55 51	12 11	259 235	267 243	67 66	18 16	352 325	94 88	13 13		[x]	2,067 1,885	75 75	2,142 1,959	1,999 1,932	222 202	2,221 2,134	
2007	802	126	80	1,003	169	46	9	224	243	59	17	317	94	13		114	1,924	108	2,032	1,833	202	2,134	
2008	800	127	74	1,001	160	49	6	215	244	68	13	325	114	16	6	136	2,197	130	2,326	1,675	153	1,827	
2009	767	124	57	948	91	34	4	129	148	52	8	208	82	12		101	2,050	113	2,163	1,013	103	1,116	
2010 2011	813 824	127 124	76 74	1,016 1,022	134 145	44	6 5	184 192	182 213	57 59	12 11	251 283	107 124	15 18		129 150	2,220 2,293	134 143	2,355 2,436	1,384 1,446	145 137	1,529 1,583	
2011	809	125	66	1,022	140	43	5	188	193	56	10	259	130	19		156	2,293	112	2,430	1,352	132	1,483	
2013	781	139	79	999	141	46	7	194	194	60	13	267	142	20		172	2,160	118	2,277	1,410	185	1,594	
2014	838	151	71	1,060	146	48	7	201	206	65	13	284	160	23		192	2,449	117	2,566	1,482	166	1,647	
2015	819	155	75	1,049	142	48	6	196	196	64	12	272	157	22		193	2,469	108	2,577	1,348	157	1,505	
2016 2017	801 806	155 157	71 78	1,026 1,041	139 133	51 54	7	197 195	188 185	69 77	13	270 276	162 175	23 25		194 211	2,378 2,450	121 133	2,499 2,583	1,349 1,361	155 171	1,504 1,532	
2017	804	147	82	1,033	131	48	9	188	174	72	16	262	176	25		210	2,430	126	2,563	1,296	192	1,488	
2019	810	150	79	1,038	132	46	7	186	182	68	14	264	183	25		220	2,505	130	2,635	1,301	172	1,473	
2020	757	131	79	967	127	39	8	174	177	63	14	254	177	29		219	2,276	120	2,396	1,328	177	1,505	
2021	797	135	82	1,014	118	45	8	171	180	69	17	266	194	29		239	2,406	131	2,536	1,389	181	1,570	
2022 2023	687 692	118 114	57 65	862 871	73 67	32 29	5	110 102	131 122	55 51	11	197 184	190 148	26 23		226 182	2,243 2,174	102 123	2,345 2,297	939 818	110 115	1,049 933	
2024[p]	690	112	70	872	73	36	7	116	126	60	12	198	170	21		205		129	2,267	892	129	1,021	

Note: Years are crop rather than calendar years (e.g. 2024 refers to the 2032-24 crop years, fertiliser consumption period July to June). Data for 2024[p] are provisional. Cells where data are not available are represented by '[x]'