

Table SPBS-18

## S&amp;E articles in agricultural sciences, whole count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	17,899	18,435	18,640	19,292	21,009	19,347	21,373	21,940	23,686	25,491	27,472	31,726	34,874	35,721	37,368	39,266	42,117	44,949	46,042	47,232	50,465	53,820	57,137	61,911	69,075
North America	5,993	6,001	5,816	5,592	6,524	5,548	6,126	6,402	7,145	6,959	7,098	7,868	8,034	7,641	7,772	7,674	8,065	7,867	8,111	8,333	8,702	9,413	9,807	10,318	11,135
Canada	1,148	1,121	1,120	988	1,074	935	1,013	1,109	1,277	1,107	1,298	1,348	1,379	1,415	1,396	1,425	1,486	1,416	1,628	1,543	1,571	1,637	1,665	1,783	1,846
Greenland	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	1	1	2	2	3	0	0	0	1	0
Mexico	115	137	153	139	179	173	220	246	296	316	367	419	459	505	516	702	628	604	667	675	722	867	939	1,032	1,185
United States	4,873	4,879	4,710	4,628	5,428	4,564	5,038	5,239	5,791	5,769	5,687	6,382	6,462	5,983	6,128	5,871	6,248	6,129	6,125	6,430	6,751	7,258	7,568	7,926	8,532
Central America and Caribbean	149	140	147	137	124	122	168	151	136	217	189	203	231	175	195	294	311	251	262	248	327	214	275	235	241
Antigua and Barbuda	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Bahamas, The	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	1	2
Barbados	1	2	2	0	2	0	4	0	6	2	0	1	0	0	0	1	1	1	0	0	2	0	0	0	2
Belize	1	2	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	2	0	0	1	3	0
Costa Rica	18	18	15	8	4	13	14	6	14	29	17	20	27	20	21	22	29	17	28	26	38	47	41	44	57
Cuba	57	59	61	66	67	63	82	78	64	82	85	101	111	90	70	166	198	144	136	129	152	88	113	66	71
Dominica	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	1	0	0	0
Dominican Republic	5	1	2	0	1	0	1	2	1	0	1	0	2	2	3	4	1	3	4	5	8	0	3	5	5
El Salvador	2	1	1	0	0	1	1	0	0	2	0	0	0	0	2	0	0	0	1	0	1	2	1	3	1
Grenada	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	1	1	4	5	1
Guatemala	1	0	3	2	1	0	1	1	6	3	6	2	2	2	2	2	1	3	2	6	12	10	8	6	9
Haiti	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	2	2	5	0	3	1	1	0	2
Honduras	4	4	3	10	3	1	5	6	4	2	8	2	3	2	5	2	2	0	3	5	1	8	8	21	13
Jamaica	5	3	6	2	4	3	4	4	5	7	4	4	9	8	6	7	10	6	9	4	6	4	10	4	11
Nicaragua	6	1	4	3	1	1	2	2	3	7	5	4	3	4	4	6	7	4	4	6	2	10	4	1	5
Panama	2	0	2	2	0	1	1	1	0	10	4	5	2	4	10	10	11	17	20	17	17	8	28	14	10
Puerto Rico	42	34	35	36	36	28	36	47	28	54	51	53	60	24	54	49	30	40	32	29	63	24	46	51	40
Saint Kitts and Nevis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	4	8	1	3	7	7
Saint Lucia	0	1	2	1	0	0	0	0	1	1	1	1	0	0	0	2	1	0	0	0	0	0	0	0	0
Saint Vincent and the Grenadines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Trinidad and Tobago	10	14	13	7	6	11	20	9	7	22	11	14	12	14	18	23	25	15	24	19	21	22	17	13	13
South America	809	1,032	1,180	1,287	1,461	1,261	1,683	1,604	1,831	2,020	3,346	3,972	4,957	5,442	5,774	6,218	6,480	6,888	7,212	6,926	7,174	7,785	8,227	8,584	9,028
Argentina	179	194	190	193	213	239	274	235	280	284	329	368	400	390	464	482	528	528	561	583	610	622	705	719	725
Bolivia	5	5	3	4	5	2	4	13	6	7	8	9	12	12	10	10	9	13	7	12	9	12	11	14	17

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Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Brazil	520	666	866	865	1,019	808	1,123	1,089	1,246	1,383	2,619	3,123	4,002	4,394	4,684	5,080	5,250	5,601	5,832	5,568	5,666	6,068	6,416	6,672	6,894
Chile	30	31	23	50	36	37	64	68	89	108	141	175	160	241	225	247	265	274	271	282	340	362	346	400	458
Colombia	34	41	30	37	38	24	43	39	47	67	83	95	171	174	184	208	240	248	254	263	338	452	447	466	543
Ecuador	0	5	4	2	3	3	7	9	10	3	10	10	11	18	5	14	16	30	42	66	103	147	189	141	217
Guyana	0	5	1	1	2	0	3	2	4	0	3	3	1	0	0	0	0	1	0	0	0	0	1	0	0
Paraguay	1	0	1	3	2	2	1	0	2	2	1	4	2	2	5	6	8	2	3	4	8	8	12	13	16
Peru	13	14	8	32	50	41	45	58	35	45	50	52	65	81	55	86	97	97	89	125	112	163	196	263	315
Suriname	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	0
Uruguay	15	21	23	21	21	26	28	25	39	34	43	40	50	65	69	82	79	86	104	105	99	107	139	154	161
Venezuela	29	72	48	101	91	90	121	98	123	132	128	164	170	171	171	129	135	134	199	104	72	87	52	43	77
Europe	7,074	7,272	7,491	7,759	7,894	7,537	8,199	8,785	9,009	9,948	10,126	11,536	12,472	12,780	12,626	13,251	14,445	15,048	14,709	15,334	16,084	16,404	17,107	18,567	21,003
EU-27 and UK <sup>a</sup>	6,234	6,600	6,750	6,815	7,101	6,721	7,198	7,620	7,667	8,515	8,753	10,167	11,078	11,260	11,297	11,767	12,714	13,494	13,092	13,603	14,172	14,227	14,911	16,114	18,183
UK	1,190	1,294	1,285	1,256	1,324	1,174	1,160	1,247	1,129	1,165	1,137	1,233	1,192	1,088	1,149	1,151	1,202	1,222	1,186	1,161	1,357	1,392	1,487	1,636	1,803
EU-27 <sup>b</sup>	5,235	5,515	5,691	5,800	6,052	5,770	6,278	6,659	6,788	7,639	7,908	9,271	10,248	10,487	10,540	11,008	11,914	12,693	12,301	12,850	13,287	13,363	13,953	15,074	17,017
Austria	74	113	98	109	105	114	147	132	111	147	174	148	171	205	221	228	247	259	275	298	306	314	383	345	369
Belgium	234	203	235	234	273	245	274	308	353	389	434	482	471	468	486	461	481	581	593	628	616	622	622	644	689
Bulgaria	28	40	15	29	28	22	19	21	26	35	30	45	110	83	91	93	136	228	170	169	143	121	181	235	276
Croatia	14	12	17	21	26	30	36	48	55	91	43	103	172	207	120	199	190	158	174	186	162	172	203	262	271
Cyprus	8	6	1	4	7	1	5	3	5	6	5	4	8	13	19	7	29	19	23	22	27	47	41	57	54
Czechia	201	221	176	198	196	228	223	199	204	181	257	530	557	604	687	701	710	849	644	755	787	722	700	700	625
Denmark	221	272	328	324	352	352	323	369	413	388	390	466	412	365	475	468	541	489	540	561	572	576	581	642	736
Estonia	10	6	5	13	7	6	8	13	9	17	29	22	42	27	25	47	55	51	72	49	60	56	74	85	106
Finland	177	207	195	174	191	193	245	187	216	223	242	230	255	242	240	238	244	239	220	239	227	226	273	289	316
France	862	831	943	939	982	887	882	946	1,004	1,012	1,084	1,159	1,211	1,232	1,299	1,214	1,329	1,247	1,345	1,318	1,386	1,431	1,462	1,437	1,586
Germany	1,138	1,148	1,141	1,210	1,180	1,205	1,190	1,208	1,219	1,401	1,331	1,348	1,447	1,458	1,459	1,554	1,714	1,694	1,729	1,807	1,874	1,917	2,173	2,176	2,388
Greece	125	131	141	152	188	190	218	211	207	274	298	317	316	304	332	272	329	361	291	297	323	363	331	431	461
Hungary	93	120	130	126	131	103	138	131	119	167	149	124	128	167	116	137	155	146	121	142	156	134	179	203	237
Ireland	109	130	177	176	221	191	200	197	199	232	290	267	345	358	360	341	375	397	420	381	435	468	520	556	526
Italy	396	448	435	443	511	443	626	874	741	933	870	1,411	1,393	1,541	1,434	1,454	1,520	1,970	1,780	2,041	2,103	2,175	2,374	2,626	3,343
Latvia	0	1	0	1	2	1	4	3	3	0	7	6	22	11	12	128	82	82	95	111	174	147	186	176	189
Lithuania	6	3	7	4	12	11	11	21	24	23	27	25	133	127	117	114	126	142	119	118	173	91	127	110	150
Luxembourg	0	0	0	2	0	0	0	1	3	0	4	3	3	7	12	10	11	18	20	15	27	6	23	14	12
Malta	0	0	0	0	0	0	1	0	1	1	1	1	0	0	2	2	1	2	4	8	12	7	8	10	15
Netherlands	446	570	533	487	545	395	489	514	513	550	599	671	611	601	591	663	672	728	811	759	823	766	834	908	1,003

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Poland	250	189	221	288	278	336	326	315	382	467	420	536	678	683	759	792	850	955	1,070	1,130	1,199	1,272	1,252	1,416	1,749
Portugal	86	95	115	99	110	130	147	140	139	170	251	273	303	318	391	400	451	445	417	502	537	601	618	669	819
Romania	10	10	10	9	8	6	5	11	11	19	7	19	30	57	54	81	154	155	135	135	139	163	201	230	265
Slovakia	94	73	86	85	75	57	63	47	54	67	70	96	128	123	115	134	106	257	221	230	301	252	246	324	295
Slovenia	11	18	15	16	17	23	26	41	32	51	44	92	151	153	136	154	159	137	135	137	176	115	136	133	164
Spain	739	863	849	876	900	826	998	1,098	1,154	1,311	1,502	1,737	1,907	2,073	2,043	2,250	2,384	2,444	2,359	2,421	2,384	2,378	2,460	2,657	3,196
Sweden	244	246	284	279	318	252	289	325	299	342	291	338	342	300	317	356	401	372	379	392	400	435	572	589	656
Other Europe	956	794	871	1,100	935	954	1,182	1,375	1,563	1,675	1,632	1,689	1,721	1,865	1,706	1,895	2,181	2,063	2,191	2,304	2,544	2,865	2,975	3,297	3,783
Other Europe, 2020 <sup>b</sup>	2,126	2,054	2,128	2,326	2,221	2,100	2,300	2,560	2,643	2,795	2,730	2,864	2,860	2,900	2,797	2,969	3,318	3,214	3,303	3,396	3,828	4,186	4,375	4,820	5,473
Albania	1	2	2	3	1	1	2	3	1	3	1	3	8	6	5	11	13	5	5	3	13	12	17	20	15
Andorra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Belarus	7	4	6	10	7	6	6	11	4	3	2	6	9	3	3	4	0	5	8	2	7	6	12	10	20
Bosnia and Herzegovina	0	0	0	0	0	0	1	0	1	2	0	1	12	9	9	19	33	18	21	32	26	31	36	34	40
Holy See (Vatican City)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iceland	5	7	3	9	12	10	11	7	15	14	15	21	15	12	24	24	27	13	21	15	18	20	20	22	18
Kosovo	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	2	4	7	5	5	4	17	28	13	5
Liechtenstein	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Moldova	6	1	3	1	3	2	2	1	2	2	4	2	4	2	1	4	9	6	9	2	15	8	7	10	8
Monaco	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	1	0	0	0	1	0	0	0	0	1
Montenegro <sup>c</sup>	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	8	3	7	8	9	5	14	14	19	17
North Macedonia	0	0	0	0	1	1	3	0	0	2	4	4	9	4	6	21	15	25	21	18	37	33	31	27	30
Norway	110	119	113	149	135	132	118	140	173	195	206	233	220	214	216	232	274	232	267	247	216	247	269	256	327
Russia	393	214	242	179	236	197	219	205	210	196	216	211	197	217	203	195	174	201	219	261	303	481	477	648	788
San Marino	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Serbia <sup>c</sup>	0	0	0	0	0	0	0	0	0	0	0	44	65	89	111	174	389	225	229	230	209	241	221	265	278
Serbia and Montenegro <sup>d</sup>	10	16	13	16	20	16	14	14	20	38	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Switzerland	141	165	184	184	179	185	184	227	213	252	265	285	345	303	314	322	386	399	420	417	461	525	518	532	527
Turkey	263	255	296	544	337	396	617	762	918	961	890	871	830	1,000	824	901	887	943	963	1,075	1,208	1,203	1,294	1,355	1,610
Ukraine	23	17	18	13	14	19	13	14	12	23	10	22	24	16	12	16	27	41	48	50	74	99	134	180	230
Middle East	306	342	354	365	387	359	376	425	519	565	587	718	883	1,047	1,191	1,410	1,738	1,666	1,743	2,036	2,204	2,412	2,633	3,143	3,783
Armenia	1	1	1	0	0	1	2	0	0	2	1	0	0	1	0	1	4	6	3	3	6	5	4	4	7

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Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Azerbaijan	0	0	1	0	1	1	0	2	0	0	4	3	1	1	4	4	4	4	2	8	7	6	8	14	16
Bahrain	0	1	5	1	1	0	1	0	2	1	1	0	4	0	1	0	2	1	1	0	2	1	1	4	6
Gaza Strip <sup>e</sup>	0	0	2	0	1	1	2	0	0	1	1	1	1	0	1	1	0	1	1	0	0	0	0	7	6
Georgia	2	2	2	3	0	3	1	3	1	5	5	5	0	1	5	6	3	10	5	1	1	8	9	9	12
Iran	33	41	33	51	51	52	79	103	174	208	279	360	493	662	775	904	1,200	1,066	1,150	1,321	1,445	1,629	1,743	1,942	2,306
Iraq	12	6	5	3	0	8	4	0	2	5	4	6	14	2	11	16	18	30	37	27	58	77	104	232	240
Israel	163	174	166	169	177	148	158	170	179	185	147	173	183	184	154	175	188	174	163	164	156	170	170	202	215
Jordan	13	24	38	37	33	38	42	51	57	39	37	62	62	59	46	60	54	72	62	67	82	85	95	122	105
Kuwait	3	8	10	7	18	7	7	6	13	7	6	9	9	4	8	8	8	13	10	12	16	17	16	22	27
Lebanon	9	7	9	7	17	18	8	14	11	13	14	12	21	18	33	24	22	17	29	27	32	30	52	49	55
Oman	11	7	20	16	17	19	18	18	21	29	19	25	12	18	16	13	21	34	33	27	23	29	46	44	70
Qatar	0	1	0	2	1	2	2	1	1	0	0	1	3	1	1	9	5	4	7	14	17	12	8	19	32
Saudi Arabia	29	34	37	38	36	36	29	21	22	18	21	22	19	40	77	121	141	181	195	328	317	303	327	436	623
Syria	28	29	25	21	31	23	11	27	27	45	33	29	46	37	60	62	60	40	38	25	37	19	24	20	29
United Arab Emirates	5	6	5	11	7	7	7	11	15	15	22	14	20	24	15	17	19	28	21	33	30	58	45	58	84
West Bank <sup>e</sup>	1	1	0	1	0	1	4	1	2	1	2	3	3	3	3	3	8	5	9	7	7	5	5	15	13
Yemen	0	1	1	0	0	3	1	1	0	0	1	1	1	3	2	9	7	5	3	2	4	6	16	18	23
Africa	755	851	864	885	874	848	1,004	1,013	1,084	1,048	1,138	1,293	1,269	1,402	1,613	1,782	1,775	1,854	2,144	2,249	2,530	3,073	3,389	3,594	4,449
Algeria	5	4	7	11	12	10	8	13	9	18	28	22	35	53	48	54	58	68	78	108	125	154	219	192	197
Angola	0	0	1	1	0	0	0	0	0	1	2	1	1	0	1	3	2	1	1	1	2	10	3	7	6
Benin	3	4	4	8	9	4	8	12	14	10	23	21	21	27	26	40	35	33	40	49	38	53	48	44	53
Botswana	9	11	10	13	24	7	19	15	18	6	8	14	13	11	19	15	12	24	7	10	19	25	16	16	20
Burkina Faso	2	10	17	13	10	8	6	16	24	28	26	28	24	11	18	16	27	15	15	27	29	45	40	33	49
Burundi	3	0	1	3	0	0	0	0	1	0	0	0	0	1	2	0	0	1	1	6	5	4	11	8	9
Cabo Verde	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2	1	0	0	1	2
Cameroon	19	23	14	27	19	14	30	32	29	46	42	34	47	30	29	38	27	33	53	46	50	61	63	62	84
Central African Republic	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0	1
Chad	0	0	0	3	1	2	0	0	0	0	0	1	1	1	0	2	0	0	3	6	0	3	0	1	4
Comoros	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1
Congo, Democratic Republic of the	0	2	1	1	0	0	1	3	0	0	0	2	4	4	4	8	7	7	8	15	15	20	19	14	15
Congo, Republic of the	5	0	2	0	0	1	2	2	1	0	3	6	1	3	2	2	2	5	5	3	8	8	4	2	7



Table SPBS-18

## S&amp;E articles in agricultural sciences, whole count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Sudan	13	20	26	23	14	17	20	26	24	25	18	30	24	33	38	43	40	39	39	43	45	62	53	85	85
Tanzania	23	35	48	23	20	18	25	32	29	39	51	61	27	40	38	50	45	41	64	70	75	84	92	97	123
Togo	2	1	4	2	2	1	2	8	8	9	9	6	4	4	9	4	7	7	7	1	4	9	3	8	12
Tunisia	14	10	16	13	24	16	29	26	30	43	39	80	121	173	182	196	184	168	196	182	201	225	204	244	259
Uganda	12	16	19	13	9	10	14	18	23	20	29	17	22	30	27	51	38	46	46	59	64	69	81	72	86
Zambia	8	8	13	8	8	17	5	5	8	8	9	7	6	5	7	7	14	11	8	13	12	27	25	24	39
Zimbabwe	33	39	15	35	35	40	40	35	24	40	36	40	32	27	22	40	29	33	47	37	44	68	73	63	61
Asia	3,344	3,490	3,586	3,970	4,341	4,231	4,582	4,976	5,654	6,581	7,012	8,582	9,723	10,224	11,269	12,213	13,277	15,613	16,620	17,538	19,390	21,448	23,833	26,596	30,331
Afghanistan	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	5	1	2	1	2	6	8	12	27	17
Bangladesh	61	59	44	55	44	49	37	36	43	55	37	53	53	61	73	78	93	131	164	131	160	168	215	217	317
Bhutan	0	2	1	1	1	1	1	2	1	2	2	0	1	3	7	4	2	6	6	5	5	5	7	1	9
Brunei	0	2	1	2	0	0	0	0	0	0	0	2	0	0	3	0	0	2	0	6	7	2	8	8	5
Burma	0	0	0	1	0	0	0	1	1	1	3	8	4	1	1	2	7	6	1	6	4	5	10	18	35
Cambodia	0	4	3	4	7	2	15	13	9	13	15	9	11	9	10	5	7	11	13	15	18	20	33	20	23
China	307	335	391	509	559	749	890	1,111	1,452	2,390	2,605	3,193	3,444	3,798	4,310	5,068	5,653	7,755	8,343	9,173	10,614	12,025	13,930	16,601	19,225
India	1,526	1,613	1,674	1,724	1,769	1,770	1,689	1,786	1,777	1,788	1,987	2,375	2,970	3,001	3,241	3,055	3,463	3,339	3,771	3,877	3,760	3,955	3,783	3,344	3,415
Indonesia	37	65	50	57	68	37	35	34	65	61	38	46	55	80	154	160	181	184	246	303	369	490	685	943	1,101
Japan	1,006	970	937	1,120	1,252	1,061	1,215	1,228	1,469	1,354	1,285	1,286	1,407	1,397	1,322	1,342	1,337	1,334	1,299	1,167	1,210	1,243	1,442	1,467	1,601
Kazakhstan	3	1	1	1	0	2	2	0	6	9	3	5	7	2	10	9	9	19	12	11	26	26	34	62	64
Kyrgyzstan	0	0	0	0	0	0	1	1	1	4	0	2	0	2	2	2	5	3	6	4	8	9	3	9	8
Laos	1	3	1	1	3	0	4	11	11	4	13	10	18	14	15	13	36	19	15	14	26	28	34	18	20
Malaysia	57	45	53	59	75	57	64	60	77	71	89	126	140	219	260	373	411	485	516	526	621	712	746	697	889
Maldives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mongolia	2	2	4	1	1	0	0	1	1	1	3	3	2	5	8	8	6	11	6	8	9	10	6	11	21
Nepal	8	11	10	11	12	19	9	12	13	14	14	19	16	19	11	8	17	28	25	26	21	27	42	40	57
North Korea	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	1	0	2	2	3	1
Pakistan	61	61	60	61	59	46	49	68	66	71	103	214	197	180	225	275	308	426	372	399	489	613	723	857	978
Papua New Guinea	6	6	8	3	8	2	2	1	1	0	6	1	5	2	7	7	3	1	5	3	6	13	10	7	4
Philippines	70	95	60	70	80	46	71	43	69	64	68	74	69	71	60	70	75	89	72	101	99	106	118	138	181
Singapore	12	17	15	29	10	14	24	32	39	41	63	62	56	46	64	56	52	67	80	84	75	111	121	114	158
South Korea	78	105	113	145	241	208	264	329	343	417	411	724	872	867	1,009	1,005	1,094	1,257	1,375	1,306	1,451	1,628	1,635	1,827	2,099
Sri Lanka	20	16	32	25	32	31	23	42	37	36	39	55	51	44	43	56	46	57	63	72	67	65	83	90	98
Taiwan	110	127	152	126	173	165	202	206	215	248	293	380	379	426	477	481	493	446	394	385	348	307	312	402	468
Tajikistan	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	3	5	4	1	1	3	7
Thailand	53	48	63	79	115	98	106	137	184	183	215	284	317	313	382	562	401	452	469	509	656	696	774	773	927

Table SPBS-18

**S&E articles in agricultural sciences, whole count, by region, country, or economy: 1996–2020**

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Timor-Leste	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	4	1	3	2	0	1	1	1	0
Turkmenistan	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0
Uzbekistan	3	2	0	1	3	2	4	5	5	10	6	11	9	13	19	12	8	9	7	5	15	10	12	19	18
Vietnam	23	33	21	18	23	22	25	31	49	59	55	47	65	64	79	93	109	123	81	87	121	149	225	254	409
Australia and Oceania	1,275	1,337	1,214	1,236	1,498	1,172	1,385	1,375	1,317	1,345	1,485	1,530	1,622	1,510	1,665	1,644	1,740	1,866	2,108	2,036	2,225	2,232	2,459	2,678	2,874
Australia	926	968	863	867	1,128	854	1,057	1,031	980	1,007	1,119	1,168	1,231	1,179	1,308	1,266	1,318	1,429	1,603	1,595	1,673	1,722	1,900	2,014	2,125
Cook Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fiji	1	5	2	3	1	2	0	2	0	3	7	2	5	1	3	3	3	0	1	1	8	7	20	15	23
Kiribati	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Marshall Islands	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	1	1	0
Micronesia, Federated States of	0	0	0	0	0	0	0	1	0	0	2	0	1	1	1	0	1	0	1	1	0	0	0	0	0
Nauru	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Zealand	380	396	388	414	394	333	341	385	375	384	402	402	459	376	384	414	466	502	609	522	613	585	607	731	810
Niue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palau	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Samoa	1	0	2	2	2	2	4	2	4	2	4	3	0	0	1	2	0	0	2	3	0	5	5	1	12
Solomon Islands	0	0	0	0	0	0	1	1	1	0	0	0	0	1	2	0	1	0	1	1	0	1	0	3	1
Tonga	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	1
Tuvalu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanuatu	0	0	0	0	0	0	0	1	1	2	0	0	2	2	2	2	1	3	1	2	4	2	0	0	2
Unassigned	560	441	513	437	349	251	212	372	300	316	362	470	617	355	238	193	181	199	167	108	73	132	143	226	232

EU = European Union; UK = United Kingdom.

<sup>a</sup> The UK was a part of the EU for data purposes from 1973 to 2019.<sup>b</sup> Beginning in 2020, the UK was no longer a member of the EU.<sup>c</sup> Beginning in 2006, Serbia and Montenegro represented individual countries.<sup>d</sup> Serbia and Montenegro represented a single country for data purposes from 1992 to 2006.<sup>e</sup> West Bank and Gaza Strip are separate entities in this list but are grouped in the World Bank Lending Groups classification list. Here, the economic status of the group is applied to both individual regions.

**Note(s):**

Article counts refer to publications from selected journals and conference papers in S&E from Scopus. Articles are classified by their year of publication and are assigned to a region, country, or economy on the basis of the institutional address(es) of author(s) listed in the article. Articles are credited on a whole count basis. In whole counting, each region, country, or economy with a collaborating author on an article is credited with one count. The sum of the whole count for regions, countries, or economies does not add to the world total because of multiple counts of coauthored publications. Some publications have incomplete address information for coauthored publications in the Scopus database. The unassigned category count is the sum of whole counts for publications that cannot be assigned to a region, country, or economy.

**Source(s):**

National Center for Science and Engineering Statistics; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed May 2021.

*Science and Engineering Indicators*