Newly Certified Mathematics and Science Teacher Demographics 2011-12 through 2020-21

This study reports the demographic data of candidates who received initial, standard teaching certificates in the certification areas of Mathematics and Science in the ten academic years from 2011-12 through 2020-21. The first table presents the reported gender information for the candidates while the second presents the reported race / ethnic information for the candidates. In several academic year, the sum of each race / ethnicity does not equal the total. This is because a few teachers did not report their race / ethnicity.

Definitions: An initial teaching certificate is a standard teaching certificate issued to a teacher who was not previously issued a standard or lifetime teaching certificate. Standard certificates, as defined in 19 TAC Chapter 230, are certificates offered since September 1, 1999 that are renewed every five years. The academic year is determined by the date of issuance. An academic year is defined as September 1 through August 31 of the following calendar year.

Newly Certified Mathematics and Science Teacher Gender

Certificate Area	Academic Year	Total	Female		Male	
			Number	Percent	Number	Percent
Mathematics	2020-21	1,916	1,183	61.74%	733	38.26%
	2019-20	1,477	977	66.15%	500	33.85%
	2018-19	1,689	1,056	62.52%	633	37.48%
	2017-18	1,759	1,130	64.24%	629	35.76%
	2016-17	1,827	1,131	61.90%	696	38.10%
	2015-16	1,794	1,175	65.50%	619	34.50%
	2014-15	1,851	1,197	64.67%	654	35.33%
	2013-14	1,971	1,294	65.65%	677	34.35%
	2012-13	1,859	1,236	66.49%	623	33.51%
	2011-12	1,743	1,129	64.77%	614	35.23%
Science	2020-21	1,572	975	62.02%	597	37.98%
	2019-20	1,154	743	64.38%	411	35.62%
	2018-19	1,406	890	63.30%	516	36.70%
	2017-18	1,460	908	62.19%	552	37.81%
	2016-17	1,555	1,000	64.31%	555	35.69%
	2015-16	1,435	907	63.21%	528	36.79%
	2014-15	1,399	908	64.90%	491	35.10%
	2013-14	1,388	932	67.15%	456	32.85%
	2012-13	1,236	819	66.26%	417	33.74%
	2011-12	1,284	881	68.61%	403	31.39%
Both	2020-21	3,488	2,158	61.87%	1,330	38.13%
	2019-20	2,631	1,720	65.37%	911	34.63%
	2018-19	3,095	1,946	62.88%	1,149	37.12%
	2017-18	3,219	2,038	63.31%	1,181	36.69%
	2016-17	3,382	2,131	63.01%	1,251	36.99%
	2015-16	3,229	2,082	64.48%	1,147	35.52%
	2014-15	3,250	2,105	64.77%	1,145	35.23%
	2013-14	3,359	2,226	66.27%	1,133	33.73%
	2012-13	3,095	2,055	66.40%	1,040	33.60%
	2011-12	3,027	2,010	66.40%	1,017	33.60%

Newly Certified Mathematics and Science Teacher Race / Ethnicity

Certificate Area	Academic Year	Total	American Indian / Alaska Native		Asian		Black / African American		Hispanic / Latino		Pacific Islander		White		Two or More Races / Ethnicities	
			Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.
Mathe-	2020-21	1,916	6	0.31%	133	6.94%	206	10.75%	482	25.16%	3	0.16%	1,022	53.34%	64	3.34%
	2019-20	1,477	9	0.61%	131	8.87%	157	10.63%	361	24.44%	3	0.20%	781	52.88%	35	2.37%
	2018-19	1,689	8	0.47%	130	7.70%	194	11.49%	417	24.69%	2	0.12%	899	53.23%	39	2.31%
	2017-18	1,759	6	0.34%	115	6.54%	179	10.18%	463	26.32%	1	0.06%	943	53.61%	52	2.96%
	2016-17	1,827	7	0.38%	101	5.53%	199	10.89%	438	23.97%	1	0.05%	1,051	57.53%	30	1.64%
	2015-16	1,794	6	0.33%	138	7.69%	168	9.36%	443	24.69%	1	0.06%	994	55.41%	43	2.40%
	2014-15	1,851	2	0.11%	121	6.54%	165	8.91%	451	24.37%	1	0.05%	1,072	57.91%	38	2.05%
	2013-14	1,971	5	0.25%	125	6.34%	163	8.27%	451	22.88%	2	0.10%	1,195	60.63%	30	1.52%
	2012-13	1,859	6	0.32%	92	4.95%	140	7.53%	387	20.82%	1	0.05%	1,204	64.77%	28	1.51%
	2011-12	1,743	5	0.29%	74	4.25%	110	6.31%	377	21.63%	2	0.11%	1,139	65.35%	33	1.89%
Science	2020-21	1,572	6	0.52%	100	8.67%	107	9.27%	281	24.35%	2	0.17%	632	54.77%	26	2.25%
	2019-20	1,154	5	0.36%	94	6.69%	146	10.38%	327	23.26%	1	0.07%	789	56.12%	44	3.13%
	2018-19	1,406	2	0.14%	107	7.33%	130	8.90%	372	25.48%	2	0.14%	814	55.75%	33	2.26%
	2017-18	1,460	4	0.26%	107	6.88%	146	9.39%	357	22.96%	0	0.00%	909	58.46%	31	1.99%
	2016-17	1,555	4	0.28%	98	6.83%	132	9.20%	370	25.78%	1	0.07%	807	56.24%	23	1.60%
	2015-16	1,435	11	0.79%	102	7.29%	132	9.44%	305	21.80%	0	0.00%	818	58.47%	30	2.14%
	2014-15	1,399	6	0.43%	74	5.33%	138	9.94%	322	23.20%	2	0.14%	820	59.08%	26	1.87%
	2013-14	1,388	3	0.24%	73	5.91%	92	7.44%	250	20.23%	1	0.08%	798	64.56%	19	1.54%
	2012-13	1,236	7	0.55%	76	5.92%	91	7.09%	246	19.16%	1	0.08%	845	65.81%	18	1.40%
	2011-12	1,284	8	0.47%	112	6.61%	134	7.91%	318	18.76%	6	0.35%	1,094	64.54%	21	1.24%
Both	2020-21	3,488	9	0.26%	227	6.51%	364	10.44%	844	24.20%	3	0.09%	1,935	55.48%	106	3.04%
	2019-20	2,631	15	0.57%	231	8.78%	264	10.03%	642	24.40%	5	0.19%	1,413	53.71%	61	2.32%
	2018-19	3,095	13	0.42%	224	7.24%	340	10.99%	744	24.04%	3	0.10%	1,688	54.54%	83	2.68%
	2017-18	3,219	8	0.25%	222	6.90%	309	9.60%	835	25.94%	3	0.09%	1,757	54.58%	85	2.64%
	2016-17	3,382	11	0.33%	208	6.15%	345	10.20%	795	23.51%	1	0.03%	1,960	57.95%	61	1.80%
	2015-16	3,229	10	0.31%	236	7.31%	300	9.29%	814	25.21%	2	0.06%	1,800	55.74%	66	2.04%
	2014-15	3,250	13	0.40%	223	6.86%	297	9.14%	756	23.26%	1	0.03%	1,890	58.15%	68	2.09%
	2013-14	3,359	11	0.33%	199	5.92%	302	8.99%	773	23.01%	4	0.12%	2,014	59.96%	56	1.67%
	2012-13	3,095	9	0.29%	165	5.33%	232	7.50%	637	20.58%	2	0.06%	2,003	64.72%	46	1.49%
	2011-12	3,027	12	0.40%	150	4.96%	201	6.64%	623	20.58%	3	0.10%	1,984	65.54%	51	1.68%

Methodology: All standard teaching certifications in the areas of Mathematics and Science regardless of grade level that were issued between September 1, 2011 and August 31, 2021 to educators who did not previously hold a standard or lifetime teaching certification were identified in the Educator Certification Online System (ECOS). The initial certificates were categorized into academic years by the certificate issue date and aggregated according to the educator's self-identified gender and race / ethnic information.

Note: TEA collects all employment and demographic data stored in PEIMS from local education agencies. TEA maintains this data separately from the self-reported demographic data located in the Educator Certification Online System (ECOS). The two demographic data collections are similar but not identical categories. Demographic data may differ between PEIMS and ECOS. Users of this report should consider this when comparing data in this table with data in other reports concerning demographic data of educators.