Experience of Math and Science Teachers 2009-2013

The tables below present the number of employed Mathematics and Science teachers, as reflected in the PEIMS data, with years of experience in the Texas public school system. The first table shows the number of teachers and average years of experience. It breaks experience into 9-year ranges and provides the percentage of teachers within each range. The second table breaks the 0-9 year range into individual numbers of years.

Definition. Experience is number of years in the Texas public school system.

Results for all teachers

- Experience results were very similar for the two subject areas.
- A majority of Mathematics and Science teachers had 0 to 9 years of experience.
- Teachers with 0 to 9 years experience showed a small decline in academic year 2011-12; teachers with 10 to 19 years experience showed a small increase.
- Percentages declined with greater experience.

	Number	Average	Percentage by Years of Experience							
Year	Employed	Experience	0-9	10-19	20-29	30-39	40-49	50-59		
Mathematics										
2012-13	110,763	10.69	55.18	28.01	12.37	4.00	0.42	0.014		
2011-12	106,917	10.83	55.03	27.65	12.53	4.37	0.40	0.014		
2010-11	99,020	10.46	57.28	25.61	12.15	4.56	0.38	0.007		
2009-10	62,297	10.40	57.48	25.08	12.25	4.81	0.38	0.006		
2008-09	59,276	10.48	57.07	24.72	12.88	4.99	0.33	0.007		
Science										
2012-13	101,892	10.49	56.03	27.68	12.15	3.76	0.35	0.015		
2011-12	98,548	10.66	55.80	27.35	12.35	4.14	0.34	0.017		
2010-11	91,021	10.22	58.45	24.96	11.95	4.29	0.34	0.007		
2009-10	54,595	10.06	58.87	24.43	12.03	4.35	0.32	0.007		
2008-09	51,350	10.17	58.40	24.03	12.83	4.45	0.28	0.010		

Notes. Results may include experience in other roles, such as Educational Aide. Columns for lowest and highest years of experience were not included, as teachers new to the public school system cause all lowest experience results to be 0, and a few highly experienced teachers can cause misleading changes in the results.

Source: TEA PEIMS data

Michael C. Ramsay, Ph.D., Research Specialist

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Experience of Math and Science Teachers 2009-2013

Results for teachers with nine years of experience or less

- As above, results were very similar for the two subject areas.
- Percentages were highest at 1 year of experience in academic year 2008-09, but at 4 years of experience by academic year 2011-12.
- In academic year 2012-13, the 0-year group showed the highest percentage, and the 5-year group, the second highest.
- The 1-year group showed one of the lower percentages.

	Percentage by Years of Experience										
Year	All 0-9	0	1	2	3	4	5	6	7	8	9
Mathematics											
2012-13	55.2	7.0	4.7	5.5	5.5	5.9	6.3	5.9	5.2	5.0	4.1
2011-12	55.0	4.7	5.6	5.8	6.4	6.6	6.3	5.6	5.3	4.5	4.3
2010-11	57.3	6.5	6.3	6.7	7.0	6.8	5.8	5.5	4.4	4.3	4.0
2009-10	57.5	6.9	7.5	7.6	7.1	5.9	5.8	4.6	4.5	4.1	3.6
2008-09	57.1	7.8	7.9	7.4	6.3	6.1	5.0	4.9	4.4	3.8	3.6
Science											
2012-13	56.0	7.2	4.7	5.6	5.7	6.1	6.4	6.0	5.2	5.0	4.1
2011-12	55.8	4.7	5.8	5.9	6.6	6.9	6.4	5.6	5.3	4.5	4.2
2010-11	58.5	6.8	6.5	7.0	7.2	6.8	5.9	5.4	4.5	4.3	4.1
2009-10	58.9	7.3	8.1	8.1	7.1	5.9	5.8	4.5	4.4	4.1	3.5
2008-09	58.4	8.4	8.5	7.5	6.3	6.0	5.0	4.8	4.5	3.8	3.7

Notes. The 0-year experience group includes all teachers with less than one year of experience. A line graph like that shown in Administrator Experience 2009-2013 was not presented because the two subject areas produced nearly identical lines.

Summary of methodology: Number Employed and Average Experience. Five tables were extracted containing identification numbers, subject areas, and years of experience for all Mathematics and Science teachers employed in academic years 2008-09 through 2012-13. From each of these tables, a new table was computed containing the total numbers and average years of experience of the two groups of teachers. The new tables were combined, and the resulting table was reformatted so that the results for each academic year could be combined with the percentages.

Summary of methodology: Percentages by Years of Experience (9-year ranges and other percentages). A table was extracted containing identification numbers, subject areas, and years of experience of all employed Mathematics and Science teachers for each academic year shown. To eliminate errors, teachers showing more than 80 years of experience were excluded. From each table, a second table was computed in which experience was grouped into 9-year ranges: 0 to 9 years, 10 to 19 years, and so on. From each of these second tables, a third table was computed containing a count of teachers for each range and subject area, and a sum of all counts for each subject area. The third table was reformatted so that the counts appeared horizontally rather than vertically. Then, each count was taken as a percentage of the applicable sum, and the percentages were combined with the numbers and averages. Finally, counts and percentages by years of experience were obtained for the 0 to 9 year group. The percentages were reformatted to appear horizontally for the second table.

Source: TEA PEIMS data

Michael C. Ramsay, Ph.D., Research Specialist

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