The Teachers' Occupational Well-being Study: Representativeness of the Data

AUTHOR
Lauri Hietajärvi & Olli-Pekka Heinimäki

Further information about the research project is available on the EDUCA Flagship Programme website and on Zenodo. The project, dataset, and findings can be cited using the following DOI: https://doi.org/10.5281/zenodo.13467024.

Descriptive Summary of the Data

Table 1: Respondent Counts Across Timepoints

Time Point	n	%
Spring 2020	1182	0.08
Autumn 2020	1502	0.10
Spring 2021	1336	0.09
Autumn 2021	1046	0.07
Spring 2022	476	0.03
Autumn 2022	687	0.05
Spring 2023	1628	0.11
Autumn 2023	1396	0.10
Spring 2024	1488	0.10
Autumn 2024	1821	0.13
Spring 2025	1863	0.13

Representativeness

In the assessment of representativeness, data from Statistics Finland's *"Teachers and Other Education Sector Professionals 2019"* were used. This dataset includes, in addition to teachers, other education sector professionals such as school assistants. For this reason, the representativeness analysis should be considered primarily indicative. Relative representativeness was calculated by dividing the obtained percentage by the corresponding 2019 figure. A relative representativeness value of 2, for example, indicates that twice as many respondents from a given category were included in the dataset compared to the reference population, whereas a value of 0.5 indicates only half as many. Values above 2 are interpreted as notable overrepresentation, and values below 0.5 as underrepresentation.

Representativeness by Regions

Table 2: Respondent Counts and Representativeness by Region Across Timepoints

Region	n	%	% 2019	Difference	Relative Representation	Representation
Spring 2020						
Etelä-Karjala	44	3.72	1.93	1.79	1.93	OK
Etelä-Pohjanmaa	84	7.11	3.15	3.96	2.26	Overrepresentation
Etelä-Savo	56	4.74	2.09	2.65	2.27	Overrepresentation
Kainuu	4	0.34	1.14	-0.80	0.30	Underrepresentation
Kanta-Häme	111	9.39	2.76	6.63	3.40	Overrepresentation
Keski-Pohjanmaa	12	1.02	1.22	-0.20	0.83	OK
Keski-Suomi	8	0.68	5.30	-4.62	0.13	Underrepresentation
Kymenlaakso	6	0.51	2.40	-1.89	0.21	Underrepresentation
Lappi	32	2.71	3.22	-0.51	0.84	OK
Pirkanmaa	115	9.73	8.77	0.96	1.11	OK
Pohjanmaa	9	0.76	3.56	-2.80	0.21	Underrepresentation
Pohjois-Karjala	21	1.78	2.94	-1.16	0.60	OK
Pohjois-Pohjanmaa	77	6.51	8.11	-1.60	0.80	OK
Pohjois-Savo	29	2.45	4.11	-1.66	0.60	OK
Päijät-Häme	44	3.72	2.83	0.89	1.32	OK
Satakunta	16	1.35	3.23	-1.88	0.42	Underrepresentation
Uusimaa	365	30.88	34.31	-3.43	0.90	OK
Varsinais-Suomi	108	9.14	8.31	0.83	1.10	OK
Autumn 2020						
Etelä-Karjala	45	3.00	1.93	1.07	1.55	OK
Etelä-Pohjanmaa	1	0.07	3.15	-3.08	0.02	Underrepresentation
Etelä-Savo	2	0.13	2.09	-1.96	0.06	Underrepresentation
Kainuu	5	0.33	1.14	-0.81	0.29	Underrepresentation
Kanta-Häme	13	0.87	2.76	-1.89	0.31	Underrepresentation
Keski-Suomi	1	0.07	5.30	-5.23	0.01	Underrepresentation
Kymenlaakso	65	4.33	2.40	1.93	1.80	OK
Lappi	14	0.93	3.22	-2.29	0.29	Underrepresentation
Pirkanmaa	64	4.26	8.77	-4.51	0.49	Underrepresentation
Pohjois-Karjala	152	10.12	2.94	7.18	3.44	Overrepresentation
Pohjois-Pohjanmaa	160	10.65	8.11	2.54	1.31	OK
Pohjois-Savo	187	12.45	4.11	8.34	3.03	Overrepresentation
Päijät-Häme	41	2.73	2.83	-0.10	0.96	OK
Satakunta	42	2.80	3.23	-0.43	0.87	OK
Uusimaa	587	39.08	34.31	4.77	1.14	OK
Varsinais-Suomi	92	6.13	8.31	-2.18	0.74	OK
Spring 2021						
Etelä-Karjala	60	4.49	1.93	2.56	2.33	Overrepresentation
Etelä-Pohjanmaa	73	5.46	3.15	2.31	1.73	OK
Etelä-Savo	7	0.52	2.09	-1.57	0.25	Underrepresentation
Kainuu	4	0.30	1.14	-0.84	0.26	Underrepresentation
Kanta-Häme	13	0.97	2.76	-1.79	0.35	Underrepresentation
Keski-Pohjanmaa	12	0.90	1.22	-0.32	0.74	OK
Keski-Suomi	3	0.22	5.30	-5.08	0.04	Underrepresentation
Kymenlaakso	85	6.36	2.40	3.96	2.65	Overrepresentation
Lappi	19	1.42	3.22	-1.80	0.44	Underrepresentation
Pirkanmaa	214	16.02	8.77	7.25	1.83	OK
Pohjanmaa	11	0.82	3.56	-2.74	0.23	Underrepresentation
Pohjois-Karjala	9	0.67	2.94	-2.27	0.23	Underrepresentation
Pohjois-Pohjanmaa	174	13.02	8.11	4.91	1.61	OK
Pohjois-Savo	123	9.21	4.11	5.10	2.24	Overrepresentation
Päijät-Häme	47	3.52	2.83	0.69	1.24	OK
Satakunta	6	0.45	3.23	-2.78	0.14	Underrepresentation
Uusimaa	393	29.42	34.31	-4.89	0.86	OK
Varsinais-Suomi	48	3.59	8.31	-4.72	0.43	Underrepresentation
Autumn 2021						
Etelä-Karjala	1	0.10	1.93	-1.83	0.05	Underrepresentation
Etelä-Pohjanmaa	127	12.14	3.15	8.99	3.85	Overrepresentation
Kanta-Häme	91	8.70	2.76	5.94	3.15	Overrepresentation
Keski-Pohjanmaa	23	2.20	1.22	0.98	1.80	OK
Keski-Suomi	54	5.16	5.30	-0.14	0.97	OK
Kymenlaakso	70	6.69	2.40	4.29	2.79	Overrepresentation
Lappi	28	2.68	3.22	-0.54	0.83	OK
Pirkanmaa	2	0.19	8.77	-8.58	0.02	Underrepresentation
Pohjanmaa	103	9.85	3.56	6.29	2.77	Overrepresentation
Pohjois-Karjala	50	4.78	2.94	1.84	1.63	OK
Pohjois-Pohjanmaa	1	0.10	8.11	-8.01	0.01	Underrepresentation
Pohjois-Savo	140	13.38	4.11	9.27	3.26	Overrepresentation
Päijät-Häme	50	4.78	2.83	1.95	1.69	OK
Satakunta	1	0.10	3.23	-3.13	0.03	Underrepresentation
Uusimaa	239	22.85	34.31	-11.46	0.67	OK
Varsinais-Suomi	6	0.57	8.31	-7.74	0.07	Underrepresentation
Spring 2022						
Etelä-Karjala	3	0.63	1.93	-1.30	0.33	Underrepresentation
Kanta-Häme	64	13.45	2.76	10.69	4.87	Overrepresentation
Keski-Suomi	5	1.05	5.30	-4.25	0.20	Underrepresentation
Kymenlaakso	1	0.21	2.40	-2.19	0.09	Underrepresentation
Lappi	29	6.09	3.22	2.87	1.89	OK
Pirkanmaa	38	7.98	8.77	-0.79	0.91	OK
Pohjois-Karjala	16	3.36	2.94	0.42	1.14	OK
Pohjois-Savo	59	12.39	4.11	8.28	3.02	Overrepresentation
Päijät-Häme	12	2.52	2.83	-0.31	0.89	OK
Uusimaa	107	22.48	34.31	-11.83	0.66	OK
Varsinais-Suomi	117	24.58	8.31	16.27	2.96	Overrepresentation
Autumn 2022						
Etelä-Pohjanmaa	40	5.82	3.15	2.67	1.85	OK
Etelä-Savo	2	0.29	2.09	-1.80	0.14	Underrepresentation
Kanta-Häme	38	5.53	2.76	2.77	2.00	Overrepresentation
Keski-Pohjanmaa	26	3.78	1.22	2.56	3.10	Overrepresentation
Keski-Suomi	1	0.15	5.30	-5.15	0.03	Underrepresentation
Kymenlaakso	43	6.26	2.40	3.86	2.61	Overrepresentation
Lappi	23	3.35	3.22	0.13	1.04	OK
Pohjanmaa	74	10.77	3.56	7.21	3.03	Overrepresentation
Pohjois-Karjala	5	0.73	2.94	-2.21	0.25	Underrepresentation
Pohjois-Pohjanmaa	104	15.14	8.11	7.03	1.87	OK
Päijät-Häme	2	0.29	2.83	-2.54	0.10	Underrepresentation
Satakunta	3	0.44	3.23	-2.79	0.14	Underrepresentation
Varsinais-Suomi	123	17.90	8.31	9.59	2.15	Overrepresentation
Spring 2023						
Etelä-Karjala	84	5.16	1.93	3.23	2.67	Overrepresentation
Etelä-Pohjanmaa	139	8.54	3.15	5.39	2.71	Overrepresentation
Etelä-Savo	18	1.11	2.09	-0.98	0.53	OK
Kanta-Häme	65	3.99	2.76	1.23	1.45	OK
Keski-Pohjanmaa	32	1.97	1.22	0.75	1.61	OK
Keski-Suomi	1	0.06	5.30	-5.24	0.01	Underrepresentation
Kymenlaakso	96	5.90	2.40	3.50	2.46	Overrepresentation
Lappi	78	4.79	3.22	1.57	1.49	OK
Pirkanmaa	277	17.01	8.77	8.24	1.94	OK
Pohjanmaa	47	2.89	3.56	-0.67	0.81	OK
Pohjois-Karjala	84	5.16	2.94	2.22	1.76	OK
Pohjois-Pohjanmaa	136	8.35	8.11	0.24	1.03	OK
Pohjois-Savo	100	6.14	4.11	2.03	1.49	OK
Päijät-Häme	143	8.78	2.83	5.95	3.10	Overrepresentation
Uusimaa	40	2.46	34.31	-31.85	0.07	Underrepresentation
Varsinais-Suomi	158	9.71	8.31	1.40	1.17	OK
Autumn 2023						
Etelä-Karjala	1	0.07	1.93	-1.86	0.04	Underrepresentation
Etelä-Pohjanmaa	69	4.94	3.15	1.79	1.57	OK
Etelä-Savo	2	0.14	2.09	-1.95	0.07	Underrepresentation
Kanta-Häme	90	6.45	2.76	3.69	2.34	Overrepresentation
Keski-Pohjanmaa	16	1.15	1.22	-0.07	0.94	OK
Keski-Suomi	37	2.65	5.30	-2.65	0.50	OK
Kymenlaakso	44	3.15	2.40	0.75	1.31	OK
Lappi	72	5.16	3.22	1.94	1.60	OK
Pirkanmaa	230	16.48	8.77	7.71	1.88	OK
Pohjanmaa	31	2.22	3.56	-1.34	0.62	OK
Pohjois-Karjala	31	2.22	2.94	-0.72	0.76	OK
Pohjois-Pohjanmaa	86	6.16	8.11	-1.95	0.76	OK
Pohjois-Savo	118	8.45	4.11	4.34	2.06	Overrepresentation
Päijät-Häme	94	6.73	2.83	3.90	2.38	Overrepresentation
Satakunta	2	0.14	3.23	-3.09	0.04	Underrepresentation
Uusimaa	98	7.02	34.31	-27.29	0.20	Underrepresentation
Varsinais-Suomi	260	18.62	8.31	10.31	2.24	Overrepresentation
Spring 2024						
Etelä-Karjala	29	1.95	1.93	0.02	1.01	OK
Etelä-Pohjanmaa	72	4.84	3.15	1.69	1.54	OK
Etelä-Savo	1	0.07	2.09	-2.02	0.03	Underrepresentation
Kainuu	1	0.07	1.14	-1.07	0.06	Underrepresentation
Kanta-Häme	65	4.37	2.76	1.61	1.58	OK
Keski-Pohjanmaa	41	2.76	1.22	1.54	2.26	Overrepresentation
Keski-Suomi	36	2.42	5.30	-2.88	0.46	Underrepresentation
Kymenlaakso	79	5.31	2.40	2.91	2.21	Overrepresentation
Lappi	57	3.83	3.22	0.61	1.19	OK
Pirkanmaa	182	12.23	8.77	3.46	1.39	OK
Pohjanmaa	107	7.19	3.56	3.63	2.02	Overrepresentation
Pohjois-Karjala	50	3.36	2.94	0.42	1.14	OK
Pohjois-Pohjanmaa	111	7.46	8.11	-0.65	0.92	OK
Pohjois-Savo	117	7.86	4.11	3.75	1.91	OK
Päijät-Häme	45	3.02	2.83	0.19	1.07	OK
Satakunta	3	0.20	3.23	-3.03	0.06	Underrepresentation
Uusimaa	218	14.65	34.31	-19.66	0.43	Underrepresentation
Varsinais-Suomi	103	6.92	8.31	-1.39	0.83	OK
Autumn 2024						
Etelä-Karjala	112	6.15	1.93	4.22	3.19	Overrepresentation
Etelä-Pohjanmaa	85	4.67	3.15	1.52	1.48	OK
Etelä-Savo	2	0.11	2.09	-1.98	0.05	Underrepresentation
Kainuu	1	0.05	1.14	-1.09	0.05	Underrepresentation
Kanta-Häme	92	5.05	2.76	2.29	1.83	OK
Keski-Pohjanmaa	31	1.70	1.22	0.48	1.40	OK
Keski-Suomi	56	3.08	5.30	-2.22	0.58	OK
Kymenlaakso	66	3.62	2.40	1.22	1.51	OK
Lappi	27	1.48	3.22	-1.74	0.46	Underrepresentation
Pirkanmaa	249	13.67	8.77	4.90	1.56	OK
Pohjanmaa	62	3.40	3.56	-0.16	0.96	OK
Pohjois-Karjala	17	0.93	2.94	-2.01	0.32	Underrepresentation
Pohjois-Pohjanmaa	113	6.21	8.11	-1.90	0.77	OK
Pohjois-Savo	157	8.62	4.11	4.51	2.10	Overrepresentation
Päijät-Häme	85	4.67	2.83	1.84	1.65	OK
Satakunta	1	0.05	3.23	-3.18	0.02	Underrepresentation
Uusimaa	329	18.07	34.31	-16.24	0.53	OK
Varsinais-Suomi	173	9.50	8.31	1.19	1.14	OK
Spring 2025						
Etelä-Karjala	50	2.68	1.93	0.75	1.39	OK
Etelä-Pohjanmaa	73	3.92	3.15	0.77	1.24	OK
Etelä-Savo	29	1.56	2.09	-0.53	0.74	OK
Kainuu	1	0.05	1.14	-1.09	0.05	Underrepresentation
Kanta-Häme	95	5.10	2.76	2.34	1.85	OK
Keski-Pohjanmaa	19	1.02	1.22	-0.20	0.84	OK
Keski-Suomi	61	3.27	5.30	-2.03	0.62	OK
Kymenlaakso	66	3.54	2.40	1.14	1.48	OK
Lappi	96	5.15	3.22	1.93	1.60	OK
Pirkanmaa	238	12.78	8.77	4.01	1.46	OK
Pohjanmaa	52	2.79	3.56	-0.77	0.78	OK
Pohjois-Karjala	99	5.31	2.94	2.37	1.81	OK
Pohjois-Pohjanmaa	142	7.62	8.11	-0.49	0.94	OK
Pohjois-Savo	160	8.59	4.11	4.48	2.09	Overrepresentation
Päijät-Häme	65	3.49	2.83	0.66	1.23	OK
Satakunta	3	0.16	3.23	-3.07	0.05	Underrepresentation
Uusimaa	416	22.33	34.31	-11.98	0.65	OK
Varsinais-Suomi	92	4.94	8.31	-3.37	0.59	OK

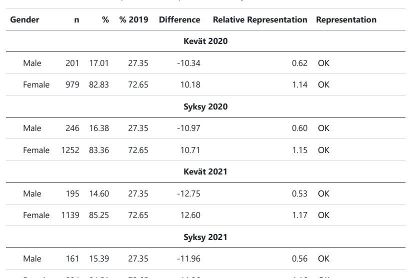

Figure 1: Over- and Underrepresentation by Region Across Measurement Waves

Representativeness by Gender

Table 3: Number of Respondents and Representativeness by Gender Across Measurement Waves

Gender	n	%	% 2019	Difference	Relative Representation	Representation
Kevät 2020						
Male	201	17.01	27.35	-10.34	0.62	OK
Female	979	82.83	72.65	10.18	1.14	OK
Syksy 2020						
Male	246	16.38	27.35	-10.97	0.60	OK
Female	1252	83.36	72.65	10.71	1.15	OK
Kevät 2021						
Male	195	14.60	27.35	-12.75	0.53	OK
Female	1139	85.25	72.65	12.60	1.17	OK
Syksy 2021						
Male	161	15.39	27.35	-11.96	0.56	OK
Female	884	84.51	72.65	11.86	1.16	OK
Kevät 2022						
Male	63	13.24	27.35	-14.11	0.48	Underrepresentation
Female	412	86.55	72.65	13.90	1.19	OK
Syksy 2022						
Male	106	15.43	27.35	-11.92	0.56	OK
Female	580	84.43	72.65	11.78	1.16	OK
Kevät 2023						
Male	244	14.99	27.35	-12.36	0.55	OK
Female	1359	83.48	72.65	10.83	1.15	OK
Syksy 2023						
Male	212	15.19	27.35	-12.16	0.56	OK
Female	1164	83.38	72.65	10.73	1.15	OK
Kevät 2024						
Male	186	12.50	27.35	-14.85	0.46	Underrepresentation
Female	1115	74.93	72.65	2.28	1.03	OK
Syksy 2024						
Male	239	13.12	27.35	-14.23	0.48	Underrepresentation
Female	1562	85.78	72.65	13.13	1.18	OK
Kevät 2025						
Male	243	13.04	27.35	-14.31	0.48	Underrepresentation
Female	1592	85.45	72.65	12.80	1.18	OK

Representativeness by Age Group

Table 4: Number of Respondents and Representativeness by Age Group Across Timepoints

Age Group	n	%	% 2019	Difference	Relative Representation	Representation
Spring 2020						
Under 30 years	47	3.98	10.71	-6.73	0.37	Underrepresentation
30–39 years	187	15.82	22.21	-6.39	0.71	OK
40–49 years	358	30.29	27.73	2.56	1.09	OK
50–59 years	449	37.99	28.37	9.62	1.34	OK
60+ years	124	10.49	10.96	-0.47	0.96	OK
Autumn 2020						
Under 30 years	66	4.39	10.71	-6.32	0.41	Underrepresentation
30–39 years	254	16.91	22.21	-5.30	0.76	OK
40–49 years	438	29.16	27.73	1.43	1.05	OK
50–59 years	580	38.62	28.37	10.25	1.36	OK
60+ years	146	9.72	10.96	-1.24	0.89	OK
Spring 2021						
Under 30 years	46	3.44	10.71	-7.27	0.32	Underrepresentation
30–39 years	203	15.19	22.21	-7.02	0.68	OK
40–49 years	370	27.69	27.73	-0.04	1.00	OK
50–59 years	518	38.77	28.37	10.40	1.37	OK
60+ years	193	14.45	10.96	3.49	1.32	OK
Autumn 2021						
Under 30 years	46	4.40	10.71	-6.31	0.41	Underrepresentation
30–39 years	160	15.30	22.21	-6.91	0.69	OK
40–49 years	298	28.49	27.73	0.76	1.03	OK
50–59 years	410	39.20	28.37	10.83	1.38	OK
60+ years	126	12.05	10.96	1.09	1.10	OK
Spring 2022						
Under 30 years	10	2.10	10.71	-8.61	0.20	Underrepresentation
30–39 years	51	10.71	22.21	-11.50	0.48	Underrepresentation
40–49 years	148	31.09	27.73	3.36	1.12	OK
50–59 years	186	39.08	28.37	10.71	1.38	OK
60+ years	80	16.81	10.96	5.85	1.53	OK
Autumn 2022						
Under 30 years	29	4.22	10.71	-6.49	0.39	Underrepresentation
30–39 years	94	13.68	22.21	-8.53	0.62	OK
40–49 years	192	27.95	27.73	0.22	1.01	OK
50–59 years	273	39.74	28.37	11.37	1.40	OK
60+ years	92	13.39	10.96	2.43	1.22	OK
Spring 2023						
Under 30 years	60	3.69	10.71	-7.02	0.34	Underrepresentation
30–39 years	212	13.02	22.21	-9.19	0.59	OK
40–49 years	427	26.23	27.73	-1.50	0.95	OK
50–59 years	645	39.62	28.37	11.25	1.40	OK
60+ years	266	16.34	10.96	5.38	1.49	OK
Autumn 2023						
Under 30 years	54	3.87	10.71	-6.84	0.36	Underrepresentation
30–39 years	171	12.25	22.21	-9.96	0.55	OK
40–49 years	393	28.15	27.73	0.42	1.02	OK
50–59 years	566	40.54	28.37	12.17	1.43	OK
60+ years	194	13.90	10.96	2.94	1.27	OK
Spring 2024						
Under 30 years	56	3.76	10.71	-6.95	0.35	Underrepresentation
30–39 years	168	11.29	22.21	-10.92	0.51	OK
40–49 years	416	27.96	27.73	0.23	1.01	OK
50–59 years	564	37.90	28.37	9.53	1.34	OK
60+ years	281	18.88	10.96	7.92	1.72	OK
Autumn 2024						
Under 30 years	69	3.79	10.71	-6.92	0.35	Underrepresentation
30–39 years	230	12.63	22.21	-9.58	0.57	OK
40–49 years	492	27.02	27.73	-0.71	0.97	OK
50–59 years	705	38.71	28.37	10.34	1.36	OK
60+ years	319	17.52	10.96	6.56	1.60	OK
Spring 2025						
Under 30 years	57	3.06	10.71	-7.65	0.29	Underrepresentation
30–39 years	238	12.78	22.21	-9.43	0.58	OK
40–49 years	459	24.64	27.73	-3.09	0.89	OK
50–59 years	720	38.65	28.37	10.28	1.36	OK
60+ years	388	20.83	10.96	9.87	1.90	OK