

3. Education and Science Personnel

Included is information on educational attainment of population, the breakdown of women and men by types of state and municipal educational establishments, the distribution student studying at public and municipal secondary and higher professional establishments by branches and groups of occupations, the breakdown of post-graduates and potential doctors by fields of science, on the number of women and men – teachers and professors of public and municipal educational establishments and institutes.

Since 1995 secondary and higher professional education background has been carried out according to occupations and directions of education contained in the All-Russia Classification on specialization of education (OKSO).

The sources of information are the annual federal statistical observations of the public and municipal general education, secondary and higher professional education establishments activity, conducted by educational and statistical offices.

Statistical data on primary professional education establishments and managers of day-time general education establishments are represented by the Federal Agency of Education.



3.1. Educational Attainment of Women and Men

Data of Population Censuses

	1989				2002			
	thou. people		by sex, %		thou. people		by sex, %	
	female	male	female	male	female	male	female	male
Total population at age of 15 years and over	61593	51445	54	46	65893	55407	54	46
of which								
professional education								
higher (including post- graduates)	6739	6001	53	47	10766	8613	56	44
higher, incomplete	1036	894	54	46	2018	1722	54	46
secondary	13200	8514	61	39	19052	13877	58	42
primary	5563	9122	38	62	6661	8706	43	57
general education								
secondary (complete)	10055	10201	50	50	10938	10338	51	49
basic	10584	9205	53	47	8882	7813	53	47



3.2. Children of 3-9 Years at Pre-school and General Education Schools in 2002

Data of Population Censuses

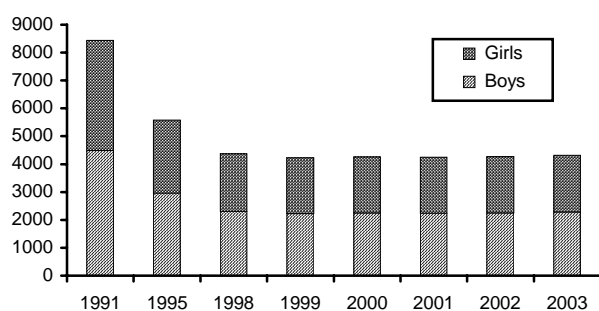
	Total	of them		% to total number of children of the given sex and age	
		studying at schools ¹⁾	not studying at schools ¹⁾	studying at schools ¹⁾	not studying at schools ¹⁾
Girls at age of 3-9 years	4638581	3821481	716900	82	16
of them at age, years:					
3	613887	377961	214520	62	35
4	632187	421276	193374	67	30
5	630073	428826	180938	68	29
6	647384	521232	109767	80	17
7	686899	666839	11391	97	2
8	707605	695768	4013	98	1
9	720546	709579	2897	99	0
Boys at age of 3-9 years	4856016	3990125	758961	82	16
of them at age, years:					
3	644652	395840	225973	61	35
4	662998	440685	203931	66	31
5	659306	449022	189138	68	29
6	678341	542440	118327	80	17
7	717053	694556	13044	97	2
8	740366	726956	4966	98	1
9	753300	740626	3582	98	1

¹⁾ Schools indicated in the table heading



3.3. Number of Girls and Boys at Pre-school Education Establishments in 1991-2003

End of year, thousand



3.4. Number of Students at Different Type of Public Education Institutions, Beginning of 2003/2004 Academic Year

	Female	Male	By sex, %	
			female	male
Number of students - total				
thousand persons	13598	13081		
percentage	100	100	51	49
of them:				
general education schools	62.0	63.9	50	50
primary professional education institutions ¹⁾	4.5	8.0	38	62
secondary special education institutions	9.6	9.1	52	48
higher education institutions	23.5	18.4	57	43
post-graduates ¹⁾	0.4	0.6	45	55
doctorial courses ¹⁾	0.0	0.0	44	56

¹⁾ The end of 2003.



**3.5. Number of Students at Public and Municipal Special
Secondary Institutions by Groups of Specialization,
Beginning of 2003/2004 Academic Year**

	Female	Male	By sex, %	
			female	male
Number of students - total				
thousand persons	1304	1197		
percentage	100	100	52	48
including by specialization groups				
humanities and social sciences	6.7	6.6	53	47
educational	14.0	5.3	74	26
public health	15.5	3.0	85	15
culture and art	4.5	2.1	70	30
economics and management	35.5	8.9	81	19
exploration of minerals	0.3	2.0	16	84
energy	0.5	2.2	19	81
metallurgy	0.3	0.9	29	71
machine building and metal-cutting	1.3	5.2	22	78
technological machinery and equipment	0.5	17.8	3	97
electric-technical	0.2	4.8	5	95

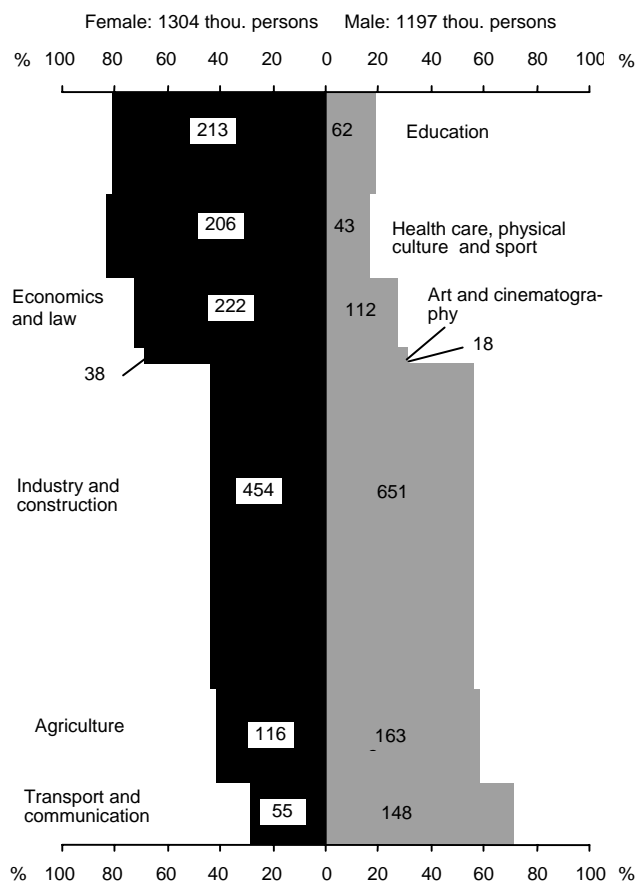


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	Female	Male	By sex, %	
			female	male
electronic and radio technique, communication	0.9	3.4	23	77
automatics and control	0.4	2.5	14	86
informatics and computers	2.2	6.7	27	73
service	1.6	0.4	81	19
operation of transport	1.2	3.6	27	73
chemical technology	1.1	0.8	59	41
reproduction and processing of timber	0.8	1.6	34	66
technology for food products	4.1	1.9	70	30
technology for consumer goods production	2.5	0.4	86	14
construction and architecture	2.7	9.8	23	77
agriculture and fisheries	2.2	8.8	21	79
other specializations	1.0	1.3	43	57



3.6. Students of Public and Municipal Special Secondary Institutions by Specialization of Institutions, Beginning of 2003/2004 Academic Year



3.7. Number of Students of Public and Municipal Higher Education Institutions by Groups of Specialization and Main Fields, Beginning of 2003/2004 Academic Year

	Female	Male	By sex, %	
			female	male
Number of students - total				
thousand persons	3192	2404		
percentage	100	100	57	43
of them by specialization groups:				
natural sciences	4.7	3.7	63	37
educational	22.4	16.7	64	36
public health	8.6	2.7	81	19
culture and art	4.2	2.2	71	29
economics and management	2.4	1.2	73	27
humanities and social sciences	34.9	17.5	73	27
inter-subject and natural-engineering	2.0	3.5	43	57
geology and exploration of minerals	0.2	0.3	40	60
extraction and processing of minerals	0.3	1.6	17	83
energy and related machinery	0.5	3.0	18	82
metallurgy	0.3	0.8	31	69
machine building and metal cutting	0.8	3.1	25	75
aviation and rockets techniques	0.1	0.8	18	82



marine engineering	0.1	0.3	19	81
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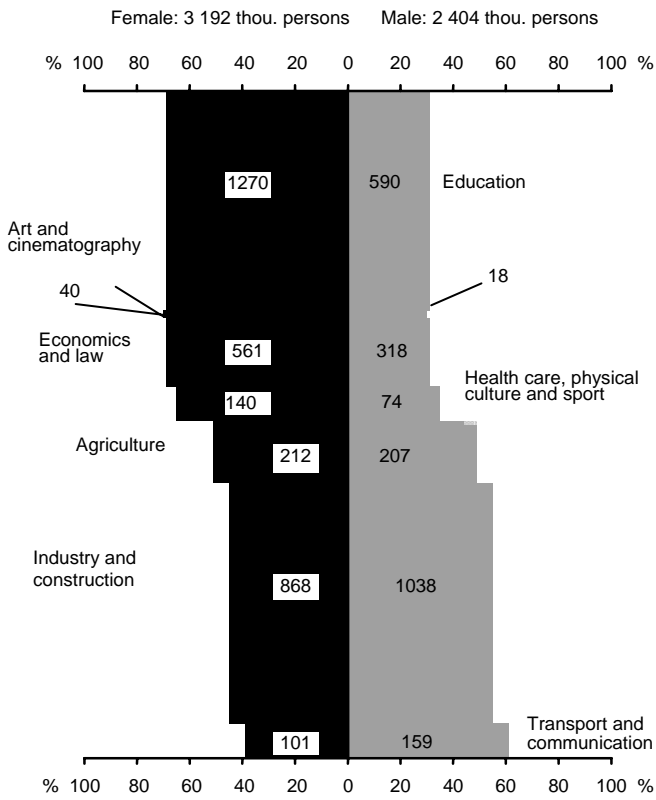


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	Female	Male	By sex, %	
			female	male
surface transportation means	0.2	2.7	8	92
technological machines and equipment	0.4	3.0	14	86
electric techniques	0.2	1.7	12	88
engineering	0.3	0.7	35	65
electronic, radio techniques and communication	0.6	3.0	22	78
automatics and control	0.7	2.4	28	72
informatics and computers	0.8	3.2	25	75
service	1.0	1.6	46	54
operation of transport	0.5	2.3	24	76
chemical technology	0.7	0.8	56	44
reproduction and processing of timber	0.5	1.0	42	58
technology for food products	1.3	0.8	70	30
technology for consumer goods production	0.9	0.2	86	14
construction and architecture	2.2	5.1	36	64
geography and cartography	0.1	0.1	47	53
agriculture and fisheries	2.4	5.7	36	64
ecology and	0.9	0.6	66	34
other specialization	0.7	1.0	50	50
by main fields:				
natural sciences and mathematics	0.5	0.8	44	56
humanities and social-economics sciences	2.0	1.8	60	40
public health	0.0	0.0	81	19
educational	0.5	0.3	69	31
technical sciences	1.0	3.6	28	72
agricultural sciences	0.1	0.2	26	74



3.8. Students of Public and Municipal Higher Education Institutions by Specialization of Institutions, Beginning of 2003/2004 Academic Year



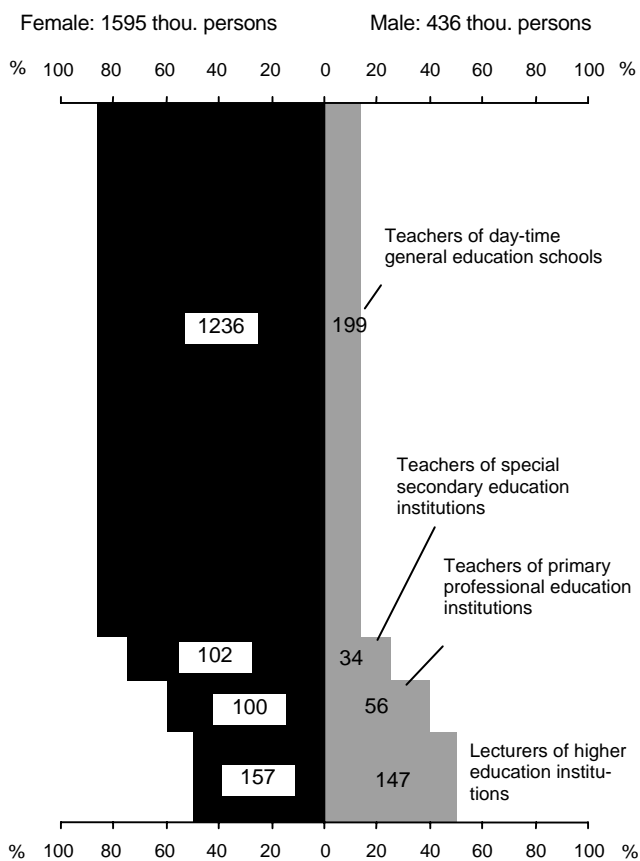
**3.9. Administration of Day-time General Education Schools,
Beginning of 2003/2004 Academic Year**

	Female	Male	By sex, %	
			female	male
Number of directors of general education schools and their deputies¹⁾ - total				
thou. persons	131.6	24.2		
percentage	100	100	84	16
of them :				
directors of general education schools:				
primary	2.8	0.1	95	5
basic	8.4	3.4	71	29
secondary (complete)	24.1	12.8	65	35
deputies directors of general education schools:				
primary	2.0	0.1	97	3
basic	5.5	0.5	92	8
secondary (complete)	88.8	7.3	92	8

¹⁾ For schools of Ministry for Education and Science.



3.10. Teachers, Lecturers and Above of Public and Municipal Education Institutions by Type of Institution, Beginning of 2003/2004 Academic Year



3.11. Instructional Staff of Public and Municipal Higher Institutions, Beginning of 2003/2004 Academic Year

	Female	Male	By sex, %	
			female	male
Instructional staff¹⁾ - total				
thou. persons	157.0	147.0		
percentage	100	100	52	48
of them :				
rectors	0.0	0.4	7	93
deputy rectors, directors of affiliates	0.7	2.4	23	77
deans of faculties	1.1	2.7	31	69
heads of sub-faculties	4.7	11.4	31	69
professors of sub-faculties	3.9	14.4	22	78
senior lecturers of sub-faculties	32.9	40.1	47	53
senior lecturers	30.2	15.4	68	32
lecturers, assistances	26.5	13.2	68	32

¹⁾ Payroll personnel.



3.12. Post Graduates by Fields of Sciences, end of 2003

	Female	Male	By sex, %	
			female	male
Total				
persons	62849	77892		
percentage	100	100	45	55
including by sciences:				
physics and mathematics	3.4	7.1	28	72
chemicals	2.7	2.0	52	48
biological	6.3	3.2	62	38
technical	10.7	34.2	20	80
agricultural	2.5	2.6	43	57
historical	4.0	3.1	52	48
economics	17.3	19.3	42	58
philosophy	2.8	1.8	56	44
philological	9.4	1.7	82	18
juridical	5.8	7.0	40	60
pedagogical	10.4	3.3	72	28
medical	9.5	4.6	63	37
pharmaceutical	0.3	0.1	59	41
veterinary	0.9	0.7	50	50
art	2.0	0.8	67	33
architectural	0.4	0.3	49	51
psychological	3.8	1.0	76	24
sociological	2.6	1.5	11	89
political	1.1	1.1	59	41
culture	1.0	0.4	44	56
science on earth	3.1	4.0	67	33
other sciences	0.0	0.2	39	61



3.13. Post Graduates by Age Groups, end of 2003

	Female	Male	By sex, %	
			female	male
Number of post-graduates – total				
persons	62849	77892		
percentage	100	100	45	55
of them at age, years:				
under 26	64.6	80.4	39	61
27-30	18.8	10.3	59	41
31-34	7.9	4.2	60	40
35-38	4.0	2.1	61	39
39 and over	4.7	3.0	56	44



3.14. Doctorate by Fields of Sciences, end of 2003

	Female	Male	By sex, %	
			female	male
Total -				
persons	2016	2551		
percentage	100	100	44	56
of them by sciences:				
physics and mathematics	3.4	10.6	20	80
chemicals	2.2	3.8	32	68
biological	4.3	4.0	46	54
technical	9.5	35.2	18	82
agricultural	1.5	1.6	41	59
historical	5.6	5.4	45	55
economics	12.7	8.5	54	46
philosophy	5.6	4.0	53	47
philological	14.9	3.2	79	21
juridical	2.1	2.7	38	62
pedagogical	17.5	6.6	68	32
medical	7.2	5.0	53	47
pharmaceutical	0.4	0.0	88	12
veterinary	0.5	0.3	56	44
art	0.6	0.1	80	20
architectural	0.5	0.6	40	60
psychological	4.2	0.9	78	22
sociological	0.0	0.3	11	89
political	3.4	1.5	64	36
culture	0.7	1.2	32	68
science on earth	1.3	0.5	69	31
other sciences	1.9	4.0	28	72



3.15. Doctorate by Age Groups, end of 2003

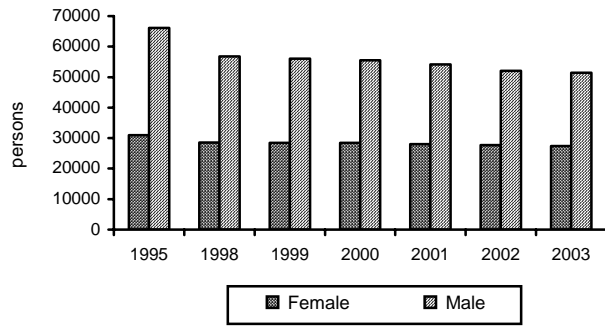
	Female	Male	By sex, %	
			female	male
Number of doctorate – total				
persons	2016	2551		
percentage	100	100	44	56
of them at age, years:				
under 39	38.5	38.0	44	56
40-49	45.4	36.1	50	50
50-59	14.9	22.4	34	66
59 and over	1.2	3.5	22	78

3.16. Scientists Having Degrees and Training Post Graduates

	Thousand persons		By sex, %	
	female	male	female	male
1995				
candidates of science	2.6	8.3	24	76
doctors of science	2.7	17.2	13	87
1998				
candidates of science	4.3	11.6	27	73
doctors of science	3.8	22.2	15	85
1999				
candidates of science	4.6	11.9	29	71
doctors of science	4.3	23.6	15	85
2000				
candidates of science	5.3	12.2	30	70
doctors of science	4.9	25.1	17	83
2001				
candidates of science	5.7	12.7	31	69
doctors of science	5.6	26.4	18	82
2002				
candidates of science	6.1	13.1	32	68
doctors of science	6.3	27.6	19	81
2003				
candidates of science	6.6	13.1	33	67
doctors of science	6.8	28.3	19	81



**3.17. Candidates of Science, Performed
Researches and Developments in 1995-2003**



**3.18. Doctors of Science, Performed
Researches and Developments in 1995-2003**

