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USSR  
1928 - 1960  
(Thousands)

Recapitulation of Scientific-Technical Graduations

	Total all Fields	Engineering <sup>1</sup>	Agriculture <sup>2</sup>	Health	Physical Sciences <sup>3</sup>	Biological Sciences	Non-Scientific Technical Fields	By Field					
								All		By Types			Life Sciences
								Scientific Technical Fields	Applied Sciences	Funda- mental sciences	Physical Sciences and Engineering		
1928	28.7	8.44	6.36	6.21	.46	.14	7.09	21.61	21.01	.60	8.90	12.71	
29	32.5	10.09	6.73	3.87	.49	.14	11.18	21.32	20.69	.63	10.58	10.74	
30	43.9	19.51	6.58	4.36	.63	.18	12.64	31.26	30.45	.81	20.14	11.32	
31	50.4	17.67	8.43	6.46	1.00	.29	16.55	33.85	32.56	1.29	18.67	15.18	
32	43.2	16.15	8.41	4.34	.88	.25	13.17	30.03	28.90	1.13	17.03	13.00	
33	34.6	7.60	4.75	4.59	.90	.25	16.51	18.09	16.94	1.15	8.50	9.59	
34	49.2	18.26	6.30	2.52	.68	.19	21.25	27.95	27.08	.87	18.94	9.01	
35	83.7	35.77	8.78	7.54	1.07	.29	30.25	53.45	52.09	1.36	36.84	16.61	
36	97.6	34.22	10.39	9.26	1.84	.49	41.40	56.20	53.87	2.33	36.06	20.14	
37	104.6	33.61	11.40	12.51	2.70	.71	43.87	60.93	57.52	3.41	36.31	24.62	
38	103.8	30.25	10.29	13.12	3.13	.81	46.20	57.60	53.66	3.94	33.38	24.22	
39	98.3	27.60	10.77	13.89	3.25	.83	41.96	56.34	52.26	4.08	30.85	25.49	
40	128.0	29.51	10.53	17.78	5.19	1.30	61.69	64.31	57.82	6.49	34.70	29.61	
41	109.9	27.67	8.30	18.11	4.19	1.03	50.60	59.30	54.08	5.22	31.86	27.44	
42	71.6	13.36	6.38	21.35	2.21	.53	27.77	43.63	41.09	2.74	15.57	28.26	
43	28.6	9.57	1.94	9.45	.51	.12	7.01	21.59	20.96	.63	10.08	11.51	
44	37.3	9.22	2.38	8.09	1.32	.31	15.98	21.32	19.69	1.63	10.54	10.78	
45	54.6	9.65	2.94	6.88	2.64	.60	11.89	22.71	19.47	3.24	12.29	10.42	
46	76.0	14.68	5.25	14.91	2.90	.64	37.62	38.38	34.84	3.54	17.58	20.80	
47	98.5	18.94	6.81	19.44	3.73	.81	48.77	49.73	45.19	4.54	22.67	27.06	
48	138.0	26.62	9.54	27.14	5.17	1.11	68.42	69.58	63.30	6.28	31.79	37.79	
49	162.6	31.50	11.25	31.89	6.02	1.26	80.68	81.92	74.64	7.28	37.52	44.40	
50	176.9	34.33	12.86	20.75	7.40	1.51	100.05	76.85	67.94	8.91	41.73	35.12	
51	201.4	41.26	15.08	17.39	8.72	1.73	117.22	84.18	73.73	10.45	49.98	34.20	
52	219.2	45.44	16.42	18.81	9.39	1.81	127.63	91.57	80.37	11.20	54.53	37.04	
53	220.2	45.61	16.52	18.77	9.32	1.75	128.23	91.27	80.90	11.07	54.93	37.04	
54	234.8	53.55	20.47	17.75	9.26	1.69	132.08	102.72	91.77	10.95	62.81	39.91	
55	245.8	63.79	25.56	16.94	9.00	1.59	129.92	115.88	105.29	10.59	72.79	43.09	
56	260.0	68.79	24.58	17.53	9.76	1.68	137.66	122.34	110.90	11.44	78.55	43.79	
57	273.0	72.36	27.39	22.72	10.01	1.66	135.86	134.14	122.47	11.67	82.37	51.77	
58	293.9	96.89	30.63	19.45	10.25	1.65	135.03	150.87	146.97	11.90	107.14	51.73	
59	327.4	117.15	35.17	21.01	10.49	1.62	141.96	185.44	173.33	12.11	127.64	57.80	
60	315.0	119.76	36.32	21.31	10.72	1.60	125.29	189.71	177.39	12.32	130.48	59.23	

1 - Including hydrology, meteorology, geodesy, and cartography

2 - Including veterinary medicine

3 - Including mathematics and geography

7 November 1957

US  
1928 - 1960  
(Thousands)

## Recapitulation of scientific-technical graduations

	Total all Fields	Engineering <sup>1</sup>	Agriculture	Health <sup>2</sup>	Physical Sciences <sup>3</sup>	Biological Sciences	Non-scientific Technical Fields	By type				
								All Technical Fields	Applied Sciences	Funda-mental Sciences	Physical Sciences and Engineering	Life Sciences
1928	111.16	7.90	2.04	10.32	9.26	4.37	77.27	33.89	20.26	13.63	17.16	16.73
29	116.68	7.80	2.15	10.12	9.49	4.70	82.42	34.26	20.07	14.19	17.29	16.97
30	122.48	7.70	2.25	9.86	9.78	5.07	87.82	34.66	19.81	14.85	17.48	17.18
31	130.04	9.20	2.44	10.14	9.59	4.94	93.73	36.31	21.78	14.53	18.79	17.52
32	138.06	10.70	2.64	10.45	9.72	4.98	99.57	38.49	23.79	14.70	20.42	18.07
33	137.95	11.30	2.60	9.55	9.38	4.77	100.35	37.60	23.45	14.15	20.68	16.92
34	137.84	12.00	2.56	8.84	9.16	4.66	100.62	37.22	23.40	13.82	21.16	16.06
35	140.90	11.60	2.73	9.44	9.42	4.71	103.30	37.60	23.47	14.13	21.02	16.58
36	143.12	11.20	2.91	9.55	9.99	5.01	104.46	38.66	23.66	15.00	21.19	17.47
37	154.45	11.40	3.86	9.90	10.76	5.41	113.12	41.33	25.16	16.17	22.16	19.17
38	164.94	11.60	4.82	9.97	11.81	5.94	120.80	44.14	26.39	17.75	23.41	20.73
39	175.72	13.30	5.52	10.16	12.17	6.14	128.43	47.29	28.98	18.31	25.47	21.82
40	186.50	15.10	6.23	10.46	12.52	6.32	135.87	50.63	31.79	18.84	27.62	23.01
41	185.92	15.20	5.92	10.87	12.76	6.44	134.73	51.19	31.99	19.20	27.96	23.23
42	185.35	16.00	5.58	10.97	12.90	6.52	133.38	51.97	32.55	19.42	28.90	23.07
43	151.69	15.30	2.86	11.15	11.00	5.56	105.82	45.87	29.31	16.56	26.30	19.57
44	125.88	13.50	1.25	11.98	9.46	4.78	84.91	40.97	26.73	14.24	22.96	18.01
45	131.02	8.50	1.65	12.83	10.44	5.65	92.25	38.77	22.98	15.79	18.64	20.13
46	136.17	11.50	1.73	13.63	9.70	5.98	93.63	42.54	26.86	15.68	21.20	21.34
47	203.30	21.00	4.13	15.48	13.68	9.34	139.67	63.63	40.61	23.02	34.68	28.95
48	272.36	31.10	6.84	16.21	16.89	11.51	189.81	82.55	54.15	28.40	47.99	34.56
49	366.63	43.60	10.31	17.97	20.74	16.45	257.56	109.07	71.88	37.19	64.34	44.73
50	433.73	52.41	15.00	20.62	25.88	19.98	299.84	133.89	88.03	45.86	78.29	55.60
51	384.35	41.83	12.16	20.33	21.66	17.22	271.35	113.00	74.12	38.88	63.29	49.71
52	331.92	30.75	9.60	20.21	17.25	14.94	239.17	92.75	60.56	32.19	48.00	44.75
53	304.83	25.82	8.84	20.56	15.49	13.24	220.88	83.95	55.22	28.73	41.31	42.64
54	292.88	24.17	7.83	23.62	14.68	9.37	213.21	79.67	55.62	24.05	38.85	40.82
55	237.40	24.22	7.17	23.11	15.18	9.05	208.47	78.93	54.70	24.23	39.40	39.53
56	311.30	28.06	7.29	22.25	16.98	7.90	228.82	82.48	57.60	24.88	45.04	37.44
57	347.	33.97	7.44	28.49	18.77	8.71	249.62	97.38	69.90	27.48	52.74	44.64
58	392.	36.93	7.95	32.30	23.60	9.39	283.83	108.17	77.18	30.99	58.53	49.64
59	421.	40.88	8.45	34.90	23.28	10.06	303.43	117.57	84.23	33.34	64.16	53.41
60	437.	42.39	8.95	36.49	24.21	10.74	314.22	122.78	87.83	34.95	66.60	56.18

- 1 - Including military and naval science  
2 - Including veterinary medicine  
3 - Including mathematics and geography

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	Professionally Employed Persons with College-Level Training, by Field of Employment (Thousands)				Research-Teaching Personnel, <sup>7</sup> by Field of Competence (Thousands)		Holders of Advanced Degrees, <sup>8</sup> by Field of Training (Thousands)	
	Mid - 1957		Mid - 1960		Mid - 1957		Mid - 1957	
	USSR	US	USSR	US	USSR	US	USSR	US
Total All Fields	2855.2	4085.2	3514.9	na	250.2	na	104.5	123.2
Engineering <sup>1</sup>	780.7	480.	1037.1	547.9	68.3	na	26.9	5.7
Health <sup>2</sup>	370.5	448.3	398.2	499.4	28.3	na	17.6	1.3
Agriculture <sup>3</sup>	203.8	158.4	285.2	170.6	16.9	na	8.3	4.9
Physical sciences <sup>4</sup>	100.5	168.4	122.3	217.8	50.9	na	18.1	32.3
Biological sciences	20.3	73.1	23.2	94.9	12.3	na	7.6	16.9
Non-scientific fields <sup>5</sup>	1379.4	2757.0	1648.9	na	73.5	na	26.0	62.1
Recapitulation								
All scientific fields <sup>6</sup>	1475.8	1328.2	1866.0	1530.6	176.7	285	78.5	61.1
Distribution by type								
Applied sciences <sup>1</sup>	1355.0	1086.7	1720.5	1217.9	113.5	na	52.8	11.9
Fundamental sciences <sup>4</sup>	120.8	241.5	145.5	312.7	63.2	na	25.7	49.2
Distribution by field								
Physical sciences and engineering	881.2	648.4	1159.4	765.7	119.2	225	45.0	38.0
Life sciences	594.6	679.8	706.6	764.9	57.5	60	33.5	23.1

<sup>1a</sup> No estimate made.

<sup>3</sup> Including meteorology. Soviet figures include hydrology, geodesy, and cartography.  
US figures include military and naval science.

<sup>2</sup> Excluding veterinary medicine.

<sup>3</sup> Including veterinary medicine.

<sup>4</sup> Including mathematics and geography, excluding meteorology. Soviet figures  
exclude hydrology, geodesy, and cartography.

<sup>5</sup> US figures include psychology and "sciences without major".

<sup>6</sup> US figures exclude psychology and "sciences without major".

<sup>7</sup> Persons teaching in higher educational institutions or engaged in research and development.

<sup>8</sup> Soviet: Kandidat and Doktor degrees; U.S.: Ph.D., D.Sc., etc., excluding Master-level degrees.

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