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TABLE A-1

Persons Engaged in Small-Scale Industry: Soviet Union, Selected Years (thousands *)

Industry	1913	1926/27	1927/28	1928/29
I. Ferrous and nonferrous mining and metallurgy]	1	1	1
A. Extraction of ore	36	1	1	1
II. Fuel	J		5	4 4
A. Peat	J		n.a.	4
III. Electric power stations		54	116	98
IV. Chemicals	46	2	n.a.	2
A. Paints and varnishes B. Pharmaceutical chemicals	n.a. n.a.	2	n.a.	
C. Chemical wood processing	37 °	51	107	90
D. All other chemicals	n.a.	1		6
V. Machine building and metal products	349	427	536	431
A. Machine building	n.a.	50	140	105
1. Land transport. equip.	n.a.		n.a.	
2. Shipbuilding	n.a.	2	n.a.	
3. Agricultural machinery	n.a.	3	n.a.	74
4. Electrical and indus. machinery	n.a.	45	3	31
B. Metal products	n.a.	377	396	325
1. Ferrous metal products	n.a.	371	385	316 9
2. Nonferrous metal products	n.a.	6	11	1,991
VI. Wood products, paper, and logging	1,164	1,423	1,942 29	26
A. Plywood and lumber	819	17 476	722	532
B. Miscellaneous wood products	19 d	4/0	122	7
C. Pulp and paper	826 °	900 f	1,000 B	1,199 #
D. Logging E. Carts, sleds, and parts	020	23	182	157
F. Others			_	70
VII. Construction materials	159	68	167	198
A. Bricks and others	n.a.	43	142	128
B. Glass	n.a.	1		
C. Cement	n.a.	1		70
D. Other construc. materials	n.a.	23	25	/0
VIII. Printing	13	13	63 4	n.a.
A. Printing and publishing	n.a.	n.a.	59	n.a.
B. Stationery and art equipment	n.a.	n.a. 2,068	2,451	2,210
IX. Textiles	1,911	2,000		
A. Cotton ginning B. Primary processing of flax			_	
C. Cotton fabrics		115	146	125
D. Linen fabrics		23	8	6
E. Woolen fabrics h	1,427 ⁱ	290	427	358
F. Silk fabrics	•	16	32	27
G. Hemp and jute products		62	83	63
H. Processing of mixed fibers		16	48	41 131
I. Knitted goods		,92	149 645	560
J. Garment industry		677 73	124	73
K. Leather industry	484	93	78	85
L. Fur industry	404	607	624	557
M. Boots and shoes (product. and repair)			63	149
N. Lace O. Others		4	24	35
0. Others		•		

TABLE A-1 (concluded)

Industry	1913	1926/27	1927/28	1928/29
X. Food and allied products	1,116	791 [.]	1,083	892
A. Flour and groats	345	328	566	345
B. Fishing	500 i	204 ^k	199 ¹	261 ¹
C. All other food	271	259	318	286
1. Confectionery	n.a.	19	32	28
2. Vegetable oil	n.a.	64	82	73
3. Starch and syrup	n.a.	4	12	10
4. Alcohol, wine, yeast, and vodka	n.a.	17		
5. Tobacco and makhorka	n.a.	1	_	
6. Grease, tallow, and soap	n.a.	14	5	4
7. Meat (incl. sausages)	n.a.		_	22
8. Dairy products	n.a.	25	46	40
9. Bakeries	n.a.	88	73	61
10. Others	n.a.	27	68	48
XI. All others	92 ^m	50	131	117
A. China and pottery	n.a.	46	50	46
B. Others	n.a.	4	81 n	71
Total	4,853	4,895	6,495	5,948

* In actual numbers, not in full-time equivalents.

^b Includes all mining products.

° For 1912. From 13, 52.

^d Paper products.

e Persons engaged in full-time equivalents (Table A-2) doubled on the assumption that the average working season was 6 months in logging.

¹ Assumed to be 90% of no. of persons engaged in 1927/28. ⁸ From 34, 89. For 1927/28, includes 331.3 thous. in wood cutting and 668.3 thous. with their own horses and carts. For 1928/29, includes 387.2 thous. in wood cutting and 811.6 thous. with their own horses and carts.

h Includes felt and felt products.

ⁱ Includes lace and others.

ⁱ Estimated for 1913 in 1, 28.

^k From 72, 126.

¹ Employment in 1926/27 extrapolated by fish catch (48, Table B-2).

^m School supplies and other products.

ⁿ Includes materials of animal origin.

- negligible or nonexistent

Source and Derivation of Table A-1

- (Note: Exceptions to these general explanations are separately footnoted above.)
 1913: Estimates of no. of persons engaged in "noncensus" industry in 1913 on inter-war Soviet territory made by a special committee of the Central Statistical Administration (2, 91 ff).
- 1926/27: 81, 482 ff. For additional breakdown, see 44, 88 ff.
- 1927/28: Total no. of weeks worked in small-scale industry (87, 3) apportioned among industries according to percentage distribution for 1928/29 (40, 118 ff). For each industry, total no. of weeks worked was divided by avg. no. of weeks worked per worker in 1928/29 (40, 14 ff).

1928/29: 40, 11 ff, and 118 ff.

TABLE A-2

Persons Engaged in Large- and Small-Scale Industry in Full-Time Equivalents: Soviet Union, Selected Years (thousand full-time equivalents)

 Industry	1913	1926/27	1927/28	1928/29	1933
Ferrous and nonferrous mining and metallurgy Large-scale Small-scale	425 425	269 269	281 281	276 276	573 573 —
A. Extraction of iron ore Large-scale Small-scale	49 49	25 25	27 27 —	33 33 —	45 45
B. Extraction of manganese ore Large-scale Small-scale	7 7 	10 10 —	6 6	11 11 —	8 8 —
C. Ferrous metallurgy Large-scale Small-scale	242 242	202 202	212 212 —	232 232	365 365 —
D. Nonferrous mining and metallurgy Large-scale Small-scale	127 127	32 32	36 36 	n.a. n.a. 	155 155 —
 Fuel Large-scale Small-scale	315 314 1 ª	368 368	400 399 2	421 419 2	725 725
A. Coal and coke Large-scale Small-scale	208 208	278 278	283 283	303 303 	494 494
B. Crude petroleum Large-scale Small-scale	47 47	43 43 —	41 41 —	36 36 —	31 31
C. Petroleum refining Large-scale Small-scale	7 7 	8 8	8	9 9 	54 54 ^ь
D. Peat Large-scale Small-scale	52 52 —	39 39 —	67 65 2	73 71 2	146 146 ° —
Electric power stations Large-scale Small-scale	20 20	28 28 	28 28 —	33 33 	97 95 2
Chemicals (incl. rubber) Large-scale Small-scale	70 56 14	77 63 14	100 76 24 ª	98 77 21	279 264 15

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TABLE A-2 (continued)

Industry	1913	1926/27	1927/28	1928/29	1933
A. Basic chemicals	13	17	18	20	54
Large-scale Small-scale	 	17	18	20	
B. Paints and varnishes	n.a.	6	n.a.	6	10
Large-scale	n.a.	5	5	5	9
Small-scale	n.a.	1	n.a.	1	1
C. Pharmaceutical chemicals	n.a.	72	n.a.	5	72
Large-scale	n.a.	71	5	5	71
Small-scale	n.a.	1	n.a.		1
D. Rubber and asbestos	17	22	31	28	54
Large-scale	17	22	31	28	54
Small-scale		-	—		_
E. All other chemicals	40	27	17	39	89
Large-scale	26 d		17 •		76
Small-scale	14	13	_	20	13
V. Machine building and metal products	602	603	663	705	1,504
Large-scale	391	395	446	521	1,488
Small-scale	211	208	217	184	16
A. Machine building	303	296	391	415	811
Large-scale	250	276	336	371	804
Small-scale	53 f	20	55	44	7
1. Land transport. equipment (incl.					
tractors)	n.a.	60	n.a.	79	355
Large-scale	n.a.	60	55	79	348
Small-scale	n.a.		n.a.	_	7
2. Shipbuilding	n.a.	29	n.a.	43	106
Large-scale	n.a.	28	42	43	106
Small-scale	n.a.	1	n.a.		
3. Agricultural machinery (excl.					
tractors	n.a.	46	n.a.	94	110
Large-scale	n.a.	45	51	62	110
Small-scale	n.a.	1	n.a.	32	
4. Electrical and industrial					
machinery	n.a.	161	n.a.	199	240
Large-scale Small-scale	n.a. n.a.	143 18	188 n.a.	187 12	240
Sman-scate					
B. Metal products	299	307	272	290	422
Large-scale	141 150 f	119	110	150	413
Small-scale	158 f	188	162	140	9

TABLE A-2 (continued)

	Industry	1913	1926/27	1927/28	1928/29	1933
VI.	Wood products, paper, and logging	1,073	650	768	846	1,798
	Large-scale	176	172	180	218	1,687
	Small-scale	897	478	588	628	111
	A. Plywood and lumber	89	94	92	122	252
	Large-scale	89	89	92	116	247
	Small-scale	—	5		6	5
	B. Miscellaneous wood products	498	192	280	251	354
	Large-scale	27	23	29	34	249
	Small-scale	471	169 b	251 ^h	217 ʰ	105
	C. Matches Large-scale Small-scale	23 23 —	14 14 	17 17	21 21 —	19 19 —
	D. Pulp and paper	50	50	49	52	53
	Large-scale	37	46	43	47	53
	Small-scale	13 ⁱ	4	6	5	—
	E. Logging Large-scale Small-scale	413 	300 300 *	331 	400 400 m	1,120 1,119 1
VII.	Construction materials	231	172	221	243	520
	Large-scale	168	153	162	192	495
	Small-scale	63	19	59	51	25
	A. Cement industry Large-scale Small-scale	n.a. 19 n.a.	22 22 —	22 22 —	23 23	33 33 —
	B. Bricks and other construction materials Large-scale Small-scale	n.a. 87 n.a.	55 43 12	83 47 36	94 62 32	161 145 16
	C. Glass Large-scale Small-scale	n.a. 59 n.a.	69 69 	71 71 —	73 73	83 83
	D. Others	n.a.	26	45	53	243
	Large-scale	3	19	22	34	234 ¤
	Small-scale	n.a.	7	23	19	9
VIII.	Printing	79	85	115	93	123
	Large-scale	70	77	76	87	115
	Small-scale	9	8	39	6	8
	A. Printing and publishing	n.a.	n.a.	71	n.a.	n.a.
	Large-scale	49	69	64	69	n.a.
	Small-scale	n.a.	n.a.	7	n.a.	n.a.

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TABLE A-2 (continued)

	<u> </u>				
Industry	1913	1926/27	1927/28	1928/29	1933
B. Stationery and art equipment	n.a.	n.a.	44	n.a.	n.a.
Large-scale	21	8	12	18	n.a.
Small-scale	n.a.	n.a.	32	n.a.	n.a.
IX. Textiles and allied products	1,847	1,757	1,919	1,898	2,000
Large-scale	773	873	968	1,068	1,800
Small-scale	1,074	884	951	830	200
A. Cotton ginning	n.a.	5	5	7	16
Large-scale	11	5	5	7	16
Small-scale	n.a.		_		
B. Primary processing of fibers	n.a. 9		4	6	73
Large-scale	n.a.	5	4	6	73
Small-scale	n.a.				
C. Cotton fabrics	n.a.	580	610	593	516
Large-scale	501	517	547	539	515
Small-scale	n.a.	63	63	54	1
D. Linen fabrics	n.a.	102	95	96	72
Large-scale	71	100	93	94	72
Small-scale	n.a.	9	2	2	
E. Woolen fabrics	n.a.	154	182	167	126
Large-scale	91	76	77	78	97
Small-scale	n.a.	78	105 P	89	29
F. Silk fabrics	n.a.	18	34	36	25
Large-scale	35	11	18	23	25
Small-scale	n.a.	7	16	13	
G. Hemp and jute products	n.a.	45	59	52	86
Large-scale	17	20	25	26	56
Small-scale	n.a.	25 q	34 9	26 q	30
H. Knitted goods	n.a.	66	104	103	192
Large-scale	6	18	31	47	156
Small-scale	n.a.	48	73	56	36
I. Garment industry	n.a.	328	410	332	436
Large-scale	6	50	79 P		403
Small-scale	n.a.	278	331	218	33
J. Leather industry	n.a.	81	93	85	48
Large-scale	17	41	45	49	47
. Small-scale	n.a.	40	48	36	1
K. Fur industry	n.a.	34	27	33	43
Large-scale	4	3	5	8	41
Small-scale	n.a.	31	22	25	2

TABLE A-2 (continued)

Industry	1913	1926/27	1927/28	1928/29	1933
L. Boots and shoes, production and repair Large-scale Small-scale	n.a. 14 n.a.	330 27 303	296 39 257	317 77 240	283 239 44
M. Others Large-scale Small-scale		_2 2		71 71	84 60 24
X. Food and allied products Large-scale Small-scale	1,072 448 624	736 273 463	803 322 481	822 343 479	1,094 905 189
A. Flour and groats Large-scale Small-scale	n.a. 50 n.a.	167 49 118	167 42 125 ⁻	120 41 79	174 59 115
B. Sugar Large-scale Small-scale	148 148 —	53 53 —	60 60 —	59 59 —	91 91
C. Confectionery Large-scale Small-scale	n.a. 26 n.a.	31 17 14	42 22 20	47 28 19	64 58 6
D. Vegetable oil Large-scale Small-scale	n.a. 13 n.a.	29 12 17	34 14 20	34 16 18	27 20 7
E. Starch and syrup Large-scale Small-scale	n.a. 9 n.a.	5 4 1	5 3 2	6 4 2	15 14 1
F. Alcohol, wine, yeast, and vodka Large-scale Small-scale	25 25 	40 32 8	39 39 —	33 33 —	76 76
G. Beer and malt Large-scale Small-scale	12 12	16 16	15 15 —	13 13 —	_
H. Tobacco and makhorka Large-scale Small-scale	32 32 —	33 33 —	29 29 	26 26	21 21
I. Salt Large-scale Small-scale	20 20 —	7 7 —	7 7 	7 7 —	9 9
J. Grease, tallow, and soap Large-scale Small-scale	n.a. 11 n.a.	17 9 8	14 11 3	14 12 2	27 24 3

TABLE	A-2 ((concluded)
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Industry	1913	1926/27	1927/28	1928/29	1933
K. Fishing	277	204	229	299	180
Large-scale		—	30	38	179
Small-scale	277 ئ	204 u	199 u	261 ^u	1
L. Others	n.a.	134	162	167	410
Large-scale	102	41	50	67	354
Small-scale	n.a.	93 v	112 •	100 v	56
XI. All others	83	74	80	103	211
Large-scale	23	55	33	63	186
Small-scale	60	19	47	40	25
A. China and pottery	n.a.	43	39	40	37
Large-scale	21	26	25	26	31
Small-scale	n.a.	17	14	14	6
B. Others	n.a.	31	41	63	174
Large-scale	2 -	29	8 🖷	37	155
Small-scale	n.a.	2	33	26	19
Total excl. repair shops	5,817	4,819	5,379	5,538	8,653
Large-scale	2,864	2,726	2,971	3,296	8,062
Small-scale	2,953	2,093	2,408	2,241	591
Repair shops	86	81	86	96	1,573
Large-scale	86	81	86	96	1,303
Small-scale	_	_			270
District railroad repair shops	86	81	86	96	271
Large-scale	86 *	⁴ 81	86 ×	96	271
Small-scale	_		—	—	_
Other repair shops	n.a.	n.a.	n.a.	n.a.	1,572
Large-scale	n.a.	n.a.	n.a.	n.a.	1,302 3
Small-scale	n.a.	n.a.	n.a.	n.a.	270 -
Total incl. repair shops	5,903	4,900	5,465	5,634	10,226
Large-scale	2,950	2,807	3,057	3,393	9,365
Small-scale	2,953	2,093	2,408	2,241	861

— negligible.

NOTES TO TABLE A-2

^a Includes all mining products.

^b Includes all kinds of fuel processing.

Includes oil shale.

^d Includes paints, varnishes, and pharmaceutical chemicals.

* Includes tar (4 thous.), chemical wood processing (1 thous.), and others (12 thous.).

^f Total small-scale for machine building and metal products apportioned to components by small-scale employment in 1927/28.

^s Includes furniture and prefabricated houses.

h Includes carts and sleds.

ⁱ Paper products.

¹ Employment in 1927/28 extrapolated by haulage of industrial timber (48, Table B-2). Data underestimated because seasonal workers hired with their own horses are not included.

* Assumed to be 90% of 1927/28 employment.

189, 10.

^m No. of persons engaged (Table A-1) divided by 3 on the assumption that average logging season was 4 months.

^a Includes extraction of minerals (125 thous.) and others (109 thous.).

° Distributed among individual fibers.

P Includes felt and felt products.

^q Includes mixed fibers.

^r Derived from total no. of weeks worked in 1927/28 and the percentage share of total weeks worked accounted for by flour milling and grain cracking in 1928/29 (40, 189). This was divided by average annual no. of weeks worked in large-scale flour industry (45.4).

Includes beer and malt.

^t Employment in 1926/27 extrapolated by fish catch (48, Table B-2).

^u Taken from Table A-1 without adjustment because assumed to be full-time equivalents.

^v Includes bakeries, dairy products, and other food products.

• For 1913, artificial gas; for 1927/28, includes water supply (7 thous.) and artificial gas (1 thous.).

* No. of workers is taken to be half the 1932 level (75, 3 f) and salaried personnel the same fraction of workers as for machine building in 1913 (see Table A-2a below).

^y Given in Soviet sources as "others" under machine building and metal products. The large-scale component is known to include maintenance repair shops, and we have assumed the entire category applies to repair shops of various kinds.

Source and Derivation of Table A-2

(Note: Exceptions to these general explanations are separately footnoted above.)

Total industry: Sum of large- and small-scale industry.

1913

Large-scale industry: For "census" industry, sum of no. of workers on interwar territory (42, 398 ff, or 75, 3 ff) and of salaried personnel, the latter derived by dividing no. of workers by ratio of workers to salaried personnel. The ratios used are given in Table A-2a below, which is derived from data in the 1918 industrial census on employment in 1913 in "census" enterprises that still existed in 1918 (65, 180 f). When data were lacking for particular industries, the average ratio for all covered industries was used.

TABLE A-2a

 	<u> </u>
Extraction and processing of minerals	15.4
Mining and metallurgy	16.3
Metal products	10.8
Machine building	10.0
Wood products	8.5
Chemical industry	7.5
Food industry	8.1
Products of animal origin	5.4
Leather and fur industry	14.7
Cotton industry	23.0
•	16.9
Woolen industry	24.4
Silk industry	
Linen industry	20.0
Hemp industry	25.8
Mixed fibers	14.5
Garment industry	15.2
Paper industry	15.5
Printing industry	10.1
Scientific, school, and art equipment	7.3
Water supply and gas industry	4.5
All industries above	14.6

RATIO OF WORKERS TO SALARIED PERSONNEL IN LARGE-SCALE INDUSTRY, BY INDUSTRIAL GROUP, 1913

Small-scale industry: Estimates in Table A-1, col. 1, reduced to full-time equivalents by multiplying them by ratio (see Table A-2b), for each industry, of no. of weeks worked per year in small-scale sector in 1913 to full-time work year (assumed to be 48 weeks). When data were lacking for particular industries, the avg. no. of weeks worked per year was used to compute the ratio. The data in Table A-2b were derived from 2, 196.

TABLE A-2b

Number of Weeks Worked per Year in Small-Scale Industry, by Industrial Group, 1913

Extraction and processing of minerals	19.2
Metal products	31.2
Machine and machine tool building	26.8
Wood products	27.6
Chemical industry	16.8
Products of animal origin	27.2
Leather and fur industry	29.2
Cotton industry	24.0
Woolen industry	20.8
Silk industry	38.8
Linen industry	25.2
Hemp industry	22.8
Mixed fibers	27.2
Garment industry	30.4
Paper products	32.4
Scientific, school, and art equipment	31.6
All industries above	27.0

1926/27

Large-scale industry: 14.

Small-scale industry: Data in Table A-1, col. 2, reduced to full-time equivalents by multiplying them by ratio, for each industry, of no. of weeks worked per year in small-scale sector to no. of weeks worked per year in large-scale sector. The former was derived as a simple avg. of the no. of weeks worked per year in small-scale industry in 1924/25 (80, 256 ff) and in 1928/29 (40, 14 ff). The latter was taken as 44 weeks for all industries (see 14). When data were lacking for particular industries, the avg. no. of weeks worked per year was used to compute the ratio.

1927/28

Large-scale industry: Sum of no. of workers (derived from no. of workers in 1928/29 and percentage increase between 1927/28 and 1928/29, both in 23, 88 ff) and no. of salaried personnel as of Jan. 1, 1928 (73, 12 ff).

Small-scale industry: Total no. of weeks worked in small-scale industry (87) apportioned among industries according to the percentage distribution for 1928/29 (40, 118 ff). For each industry, the total no. of weeks worked was divided by the avg. no. of weeks worked per worker in the corresponding large-scale industry. The latter averages are derived from the no. of days worked in each large-scale industry (23, 88 ff) divided by 6 times the avg. annual no. of workers in the corresponding large-scale industry.

1928/29

Large-scale industry: 23, 88 ff.

Small-scale industry: Data in Table A-1, col. 4, reduced to full-time equivalents by multiplying them by ratio, for each industry, of no. of weeks worked per year in small-scale sector (40, 14 ff) to no. of weeks worked per year in large-scale sector (taken as 44 for all industries). When data were lacking for particular industries, the avg. no. of weeks worked per year was used to compute the ratio.

1933

Large-scale industry: Avg. annual no. of workers (24, 41 ff) multiplied by ratio of total no. of persons engaged to no. of workers (derived from labor statistics for 1933 in 88, 62 ff).

imall-scale industry: 24, 41 ff. These figures are already in full-time equivalents.

TABLE A-3

VALUE OF OUTPUT OF LARGE- AND SMALL-SCALE INDUSTRY: SOVIET UNION, SELECTED YEARS (million rubles *)

	Industry	1913	1926/27	1927/28	1928/29	1933
I.	Electric power stations Large-scale Small-scale	105.4 ^b 105.4 —	158.9 158.9 —	191.7 191.7 —	237.3 236.5 0.8	855.5 854.3 1.1
11.	Fuel Large-scale Small-scale	647.6 647.2 0.4	1,025.5 1,025.5	1,186.9 1,186.0 0.9	1,315.7 1,314.3 1.4	2,766.6 2,766.2 0.4
	A. Coal and coke Large-scale Small-scale	213.3 213.3	354.4 354.4 —	416.7 416.7 —	455.1 455.1 —	1,102.9 1,102.9 —
	B. Petroleum Large-scale Small-scale	426.8 426.8 —	615.0 615.0 —	713.9 713.9	787.4 78 7. 4 —	1,468.2 1,468.2 —
	 Crude petroleum and natural gas extraction Large-scale Small-scale 	240.7 240.7 —	304.2 304.2	336.0 336.0 —	375.4 375.4	498.0 498.0
	2. Petroleum refining Large-scale Small-scale	186.1 186.1	310.8 310.8 —	377.9 377.9	412.0 412.0 —	969.0 969.0
	C. Peat Large-scale Small-scale	7.5 7.1 0.4	51.4 51.4	52.0 51.1 0.9	67.8 66.4 ° 1.4	178.0 177.0 0.4
	D. Artificial gas Large-scale Small-scale		4.6 4.6 	4.3 4.3 —	5.4 5.4	17. 17.
III.	Ferrous mining and metallurgy Large-scale Small-scale	334.3 334.3 —	677.1 677.1	720.3 720.3	845.3 845.3 —	1,880. 1,880.
	A. Mining of ferrous ores Large-scale Small-scale	49.3 49.3	38.3 38.3	44.0 44.0 —	65.7 65.7 —	313.9 313.9
	1. Iron ore Large-scale Small-scale	42.6 42.6 	30.7 30.7	35.4 35.4	46.6 46.6 —	96. 96.
	2. Manganese ore Large-scale Small-scale	6.7 6.7	7.6 7.6	8.7 8.7	19.0 19.0	14. 14.

TABLE A-3 (continued)

Industry	1913	1926/27	1927/28	1928/29	1933
3. Others Large-scale Small-scale					202.6 202.6
B. Ferrous metallurgy Large-scale Small-scale	285.0 285.0 —	638.9 638.9 —	676.2 676.2 	779. 6 779.6 	1,566.2 1,566.2 —
IV. Nonferrous mining and metal- lurgy Large-scale Small-scale	109.8 109.8	80.6 80.6	95.0 94.8 0.2	79.0 78.6 0.4	390.8 390.8
A. Mining of nonferrous ores Large-scale Small-scale	81.4 81.4 °	41.6	51.4 51.2 0.2	14.7 14.3 ^r 0.4	55.3 55.3
B. Nonferrous metallurgy Large-scale Small-scale	28.4 28.4	39.0 39.0	43.6 43.6 —	64.3 64.3 —	335.5 335.5 —
V. Machine building and metal products Large-scale Small-scale	775.3 646.1 129.2	1,593.5 1,368.7 224.8	1,696.1 1,431.3 264.8	2,233.0 1,936.3 296.7	11,125,5 10,732.6 393.0
A. Machine building Large-scale Small-scale	398.1 398.1 —	945.2 924.9 20.3	963.9 917.1 46.8	1,424.2 1,352.3 71.9	7,627.0 7,614.3 12.7
1. Land transportation equip. (incl. tractors) Large-scale Small-scale	n.a. n.a. n.a.	206.2 206.2	142.3 ¤ 142.3 	246.9 246.9 	2,286.1 2,279.2 6.9
2. Shipbuilding Large-scale Small-scale	n.a. n.a. n.a,	99.8 99.1 0.7	85.3 79.0 6.3	130.7 119.0 11.7	494.8 494.8 —
3. Agricultural machinery (excl. tractors) Large-scale Small-scale	n.a. n.a. n.a.	133.2 132.4 0.8	177.3 ¤ 163.8 13.5	256.8 231.0 25.8	398.4 398.2 0.3
4. Electrical and industrial machinery Large-scale Small-scale	n.a. n.a. n.a.	506.0 487.2 18.8	559.1 532.0 27.1	789.7 755.4 34.3	4,447.7 4,442.1 5.5
B. Metal products Large-scale Small-scale	377.2 248.0 129.2	648.2 443.8 204.4	732.2 514.2 218.0	808.8 584.0 ⁱ 224.8	1,746.4 1,714.1 32.3

TABLE A-3 (continued)

	Industry	1913	1926/27	1927/28	1928/29	1933
VI.	Extraction of minerals for					
	chemical, construction, glass					
	and china industries		37.0	52.3	79.7	269.
	Large-scale		30.3	40.2	62.3 17.4	259.
	Small-scale	—	6.7	12.1	17.4	10.
VII.	Chemicals	193.2	271.4	310.9	408.5	1,401.
	Large-scale	184.4	250.4	281.1	370.8	1,350.
	Small-scale	8.8 i	21.0	29.8	37.7	51.
	A. Basic chemicals	n.a.	78.6	85.6	103.5	324.
	Large-scale	n.a.	78.0	84.7	102.4	323.
	Small-scale	n.a.	0.6	0.9	1.1	1.
	B. Paints and varnishes	n.a.	49.9	60.8	72.3	166
	Large-scale	n.a.	44.8	53.5	63.1	155.
	Small-scale	n.a.	5.1	7.3	9.2	10
	C. Pharmaceutical chemicals	n.a.	43.6	50.0	69.2	173
	Large-scale	n.a.	42.6	48.5	67.3	168.
	Small-scale	n.a.	1.0	1.5	1.9	4
	D. All other chemicals	n.a.	99.2	114.7	163.6	737
	Large-scale	0.2	85.0	94.5	. 138.1 ^k	702
	Small-scale	n.a.	14.2	20.2	25.5	34
VIII.	Construction materials	116.3	181.3	199.5	246.4	530.
	Large-scale	83.8	150.6	155.6	190.8	498
	Small-scale	32.5	30.7	43.9	55.6	32.
	A. Cement	39.6	63.1	67.4	79.6	105
	Large-scale	39.6	62.2	66.0	77.7	105
	Small-scale	_	0.9	1.4	· 1.9	
	B. Bricks and other construc-					
	tion materials	76.7	118.2	132.1	167.0	425
	Large-scale	44.2	88.3	89.6	113.2	393.
	Small-scale	32.5 ^m	29.9	42.5	53.8	32
IX.	Glass and china industries	58.9	160.7	171.0	210.1	413
	Large-scale	58.9	158.3	167.2	205.0	399
	Small-scale	_	2.4	3.8	5.1	13.
	A. Glass	45.9	115.8	121.1	151.3	275
	Large-scale	45.9	113.5	117.5	146.5	273
·	Small-scale	_	2.3	3.6	4.8	1.
	B. China	13.0	44.9	49.9	58.7	138.
	Large-scale	13.0	44.8	49.7	58.4	126
	Small-scale	n	0.1	0.2	0.3	12.

TABLE A-3 (continued)

	Industry	1913	1926/27	1927/28	1928/29	1933
X.	Extraction of all other minerals			<u> </u>		
	(incl. asbestos, excl. salt)	5.7	28.9	32.7	42.0	74.5
	Large-scale	5.7	28.3	31.7	40.7	74.2
	Small-scale		0.6	1.0	1.3	0.3
	A. Asbestos	2.1	6.9	7.8	9.3	24.4
	Large-scale	2.1	6.9	7.8	9.3	24.
	Small-scale		0.01	0.02	0.03	
	B. All other mineral products	3.6	22.1	24.8	32.6	50.:
	Large-scale	3.6	21.5	23.9	31.4	49.
	Small-scale		0.6	0.9	1.2	0.
XI.	Rubber products	85.6	148.7	184.0	225.9	623.
	Large-scale	85.6	147.8	182.7	224.2	623.
	Small-scale		0.9	1.3	1.7	
хп	Wood products (incl. matches)	329.9	661.3	755.6	902.2	1,832.
	Large-scale	182.5	477.7	536.2	653.7	1,698.
	Small-scale	147.4	183.6	219.4	248.5	134.
	A. Plywood and lumber	n.a.	369.9	402.0	484.5	905.
	Large-scale	135.8	356.0	386.6	468.1	890.
	Small-scale	n.a.	13.9	15.4	16.4	14.
	B. Miscellaneous wood					
	products	n.a.	261.2	319.3	372.6	875.
	Large-scale	35.4	91.5	115.3	140.5	756.
	Small-scale	n.a.	169.7	204.0	232.1	119.
	C. Matches	11.3	30.3	34.4	45.2	51.
	Large-scale	11.3	30.3	34.4	45.2	51.
	Small-scale			_		
XIII.	Logging	842	765.0	721.8	814.0	1,565.
	Large-scale					1,564.
	Small-scale	842 P	765.0 q	721.8 *	۹ 814.0	1.
XIV.	Pulp and paper	82.5	181.6	192.5	256.2	302.
	Large-scale	77.7	169.7	179.6	242.6	302.
	Small-scale	4.8	11.9	12.9	13.6	
xv.	Textiles and allied products	1,576.5	3,798.2	4,193.5	4,893.5	6,069.
	Large-scale	1,475.0	3,465.8	3,789.8	4,431.0	6,007.
	Small-scale	101.5	332.4	403.7	462.5	61.
	A. Cotton industry	1,065.6	2,541.3	2,775.5	3,148.9	3,612.
	Large-scale	1,065.6	2,474.5	2,687.4	3,042.1	3,608.
	Small-scale		66.8	88.1	106.8	4.

TABLE A-3 (continued)

		·				
	Industry	1913	1926/27	1927/28	1928/29	1933
	1. Cotton ginning	n.a.	186.9	212.0	267.2	470.2
	Large-scale	n.a.	185.8	210.5	265.3	469.0
	Small-scale		1.1	1.5	1.9	0.6
	2. Cotton textiles	n.a.	2,354.4	2,563.5	2,881.6	3,142.7
	Large-scale	n.a.	2,288.7	2,476.9	2,776.8	3,138.8
	Small-scale		65.7	86.6	104.8	3.9
	B. Flax and mixed fibers	136.4	254.9	249.6	305.4	422.1
	Large-scale	119.5	248.2	241.1	295.4	421.3
	Small-scale	16.9 •	6.7	8.5	10.0	0.8
	1. Primary processing of					
	mixed fibers	24.0	32.4	34.7	48.8	98.9
	Large-scale	24.0	30.2	30.6	43.0	98.0
	Small-scale		2.2	4.1	5.8	0.3
	2. Processing of flax	112.4	222.4	214.8	256.5	323.2
	Large-scale	95.5	218.0	210.5	252.4	322.
	Small-scale	16.9	4.4	4.3	4.1	0.
	C. Wool industry	199.1	538.0	595.6	698.0	718.4
	Large-scale	195.1	464.1	496.9	577.7	706.9
	Small-scale	4.0 °	73.9	98.7	120.3	11.4
	1. Wool washing	n.a.	16.6	16.8	28.0	47.0
	Large-scale	n.a.	16.2	16.3	27.3	47.3
	Small-scale	n.a.	0.4	0.5	0.7	0.3
	2. Wool products	n.a.	521.4	578.7	670.1	670.8
	Large-scale	n.a.	447.9	480.6	550.4	659.0
	Small-scale	n.a.	73.5	98.1	119.7	11.1
	D. Silk industry	64.7	96.0	132.8	191.9	268.
	Large-scale	49.2	77.0	102.0	150.2	267.
	Small-scale	15.5 °	19.0	30.8	41.7	0.9
	E. Hemp and jute products	56.7	86.7	99.4	116.7	185.4
	Large-scale	30.6	69.9	78.3	91.9	173.3
	Small-scale	26.1 °	16.8	21.1	24.8	12.1
	F. Knitted goods	16.9	161.0	210.0	280.4	699.0
	Large-scale	9.8	105.4	150.5	218.7	688.3
	Small-scale	7.1 •	55.6	59.5	61.7	10.0
	G. Felt and felt products	37.1	120.4	130.4	152.2	162.9
	Large-scale	5.2	26.8 *	33.5	54.9 *	141.0
	Small-scale	31.9 *	93.6	96.9	97.3	21.4
XVI.	Garment industry	256.7	794.5	896.0	1,119.3	2,116.9
	Large-scale	7.7	226.8 *	349.8	611.5 •	2,046.9
	Small-scale	249.0 ª	567.7	546.2	507.8	70.0

TABLE A-3 (continued)

,	Industry	1913	1926/27	1927/28	1928/29	1933
XVII.	Leather, fur, and shoe industry	605.1	1,323.2	1,355.9	1,549.6	1,833.0
	Large-scale	91.1	558.1	670.4	964.7	1,760.8
	Small-scale	514.0	765.1	685.5	584.9	72.2
	A. Leather, natural and artificial		601.6	581.2	617.3	535.5
	Large-scale	61.3	392.8	414.5	497.7	517.9
	Small-scale	17.3 u	208.8	166.7	119.6	17.5
	B. Fur products		87.2	129.7	169.8	432.3
	Large-scale		25.9	50.5	75.1	422.1
	Small-scale		61.3	79.2	94.7	10.1
	C. Boots and shoes, production					
	and repair	526.5	634.3	645.0	762.5	865.3
	Large-scale	29.8	139.3	205.4	391.9	820.7
	Small-scale	496.7 v	495.0	439.6	370.6	44.6
XVIII.	Grease, tallow, soap, and					
	perfume	75.1	171.2	218.4	246.5	342.9
	Large-scale	75.1	145.8	197.4	230.5	320.7
	Small-scale	w	25.4	21.0	16.0	22.2
XIX.	Food and allied products					
	(excl. fish catch)	2,743.9	4,649.4	5,447.2	6,088.6	9,693.2
	Large-scale	1,812.3	2,560.5	3,069.2	3,494.7	6,949.6
	Small-scale	931.6 ×	2,088.9	2,378.0	2,593.9	2,743.5
	A. Flour milling and grain		0 000 2	0 (00 0	0.000.0	
		n.a. 424.3	2,299.3	2,608.0 973.6	2,809.0	3,553.9
	Large-scale Small-scale	424.5 n.a.	870.8 1,428.5	1,634.4	1,018.8 1,790.2 У	1,285.6
			•	604.5	•	•
	B. Beet sugar Large-scale	n.a. 297.6	443.0 443.0	604.5 604.5	605.2 605.2	449.2 449.2
	Small-scale	n.a.				
	C. Confectionery	n.a.	156.3	217.2	311.4	737.7
	Large-scale	55.2	99.1	149.2	234.6	688.2
	Small-scale	n.a.	57.2	68.0	76.8	49.6
	D. Vegetable oil	n.a.	201.1	245.6	296.2	273.9
•	Large-scale	95.2	129.6	173.1	224.9	261.6
	Small-scale	n.a.	71.5	72.5	71.3	12.2
	E. Starch and syrup	n.a.	30.8	28.0	46.2	63.9
	Large-scale	19.1	26.5	20.6	36.0	60.0
	Small-scale	n.a.	4.3	7.4	10.2	3.9
	F. Wine, yeast, and vodka	n.a.	362.7	362.7	372.1	1,012.4
	Large-scale	482.5 •	357.9	356.6	364.8	1,003.4
	Small-scale	n.a.	4.8	6.1	7.3	8.9

TABLE A-2 (concluded)

	Industry	1913	1926/27	1927/28	1928/29	1933
	G. Beer and malt	n.a.	104.2	97.1	95.4	164.0
	Large-scale	64.7	103.7	96.5	94.7	164.0
	Small-scale	n.a.	0.5	0.6	0.7	—
	H. Tobacco and makhorka	n.a.	169.7	177.6	186.5	269.3
	Large-scale	96.4	168.1	175.5	184.1	268.1
	Small-scale	n.a.	1.6	2.1	2.4	1.2
	I. Salt	n.a.	17.1	16.4	19.8	25.0
	Large-scale	9.7	17.1	16.4	19.8	23.0
	Small-scale	n.a.	<u> </u>		<u> </u>	24.0
	J. Others	n.a.	865.2	1,090.2	1,347.0	3,143.9
	Large-scale	267.6	344.7	503.3	711.8	2,744.7
	Small-scale	n.a.	520.5	586.9	635.2	399.2
xx	Fishing	134.4	209.2 ab	242.8 *	276.3 '	410.8
	Large-scale			31.8 bb	36.2 bb	406.8
	Small-scale	134.4 ^r	209.2	211.0 ы	240.1 bb	4.0
			20712		2.001	
XXI.	Printing, publishing,					
	stationery, etc.	100.3	265.8	294.5	377.9	612.3
	Large-scale	92.0	216.6	237.9	315.7	572.9
	Small-scale	8.3	49.2	56.6	62.2	39.9
	A. Printing and publishing	n.a.	211.7	220.5	265.2	420.9
	Large-scale	n.a.	190.0	204.2	254.8	395.5
	Small-scale	n.a.	21.7	16.3	10.4	25.4
	B. Stationery and art					
	equipment	n.a.	54.1	74.1	112.7	191.4
	Large-scale	n.a.	26.6	33.8	60.9	177.4
	Small-scale	n.a.	27.5	40.3	51.8	14.0
XXII.	All others	67.3	151.1	172.0	222.2	631.4
	Large-scale	28.8	97.2	105.4	145.7	589.8
	Small-scale	38.5	53.9	66.6	76.5	41.6
Totales	cl. repair shops	9,245.9	17,334.1	19,330.6	22,669.2	45,742.5
I Otal C/	Large-scale	6,103.4	11,994.7	13,650.1	16,630.0	42,050.1
	Small-scale	3,142.4	5,339.4	5,680.5	6,039.2	3,692.5
		-,	0,00711	5,00015	0,007/12	0,072.0
XXIII.	District railroad repair shops	136.6	150.0	180.0	219.0	212.7
	Large-scale	136.6	150.0 ∞	180.0 ¤	219.0 ∞	210.7
	Small-scale	—	—			1.9
Totel !	al repair shows	0 202 5	17 40 4 4	10 510 /	22 000 2	45 055 0
i otai in	cl. repair shops	9,382.5	17,484.1	19,510.6	22,888.2	45,955.2
	Large-scale Small-scale	6,240.0 3,142.4	12,144.7	13,830.1	16,849.0	42,260.8
	Sman-scale	5,142.4	5,339.4	5,680.5	6,039.2	3,694.4

— negligible.

NOTES TO TABLE A-3

Value of output (valovaia produktsiia) is the value of goods produced and work done on an enterprise basis, but including some intershop transfers in a few industries (e.g., textiles, ferrous metals, and meat packing).

Current rubles for all years except 1933, for which data are official 1926/27 rubles.

^b Includes gas and water supply.

• 1927/28 value of output extrapolated by output (48, Table B-2).

^d Includes oil shale and fuel refining other than oil refining.

^e Includes gold, platinum, and other nonferrous metals.

⁴ Includes lead, tin, and silver ore. Not comparable with 1927/28 data.

g Value of output for tractors was 6.8 mill. rubles (48, Tables B-2 and D-8).

^h 77, 6 f.

ⁱ Includes machine-made metal products for mass consumption, other ferrous products, type-foundry products, and nonferrous metal products.

¹ Does not include chemical wood processing, for which data were not available.

^k Includes tar, chemical wood processing, and other chemical products.

¹ Includes organic chemicals and chemical wood processing.

^m Includes pottery.

ⁿ Included in bricks and other construction materials.

• Includes prefabricated houses, furniture, and other wood products.

▶ 1926/27 value of output in prewar rubles (976.9 mill. in 28, 339) extrapolated by output (48, Table B-2).

^q Marketed output in current prices (31, 422). Because of its close ties with agriculture, logging is put in small-scale industry.

^r Output times price (48, Tables B-2 and D-8).

• Value of output of large-scale industry times ratio of small-scale to large-scale industry as given by Morgenshtern's data (41).

^t Derived from data for garment and other apparel industry.

^u Value of output of large-scale leather and fur industry times 1908 ratio of small-scale to large-scale value as given by Rybnikov (61, 6-8).

v Value of output of large-scale industry times ratio of small-scale to large-scale value as given by Gorelik (17, 16).

" Included in food and allied products.

* Includes grease, soap, tallow, and perfume.

⁹ Total value of output including flour milling (26, 281) minus total value of output excluding flour milling (40, 118).

Includes excise tax.

^{aa} Derived from output in 1926/27 and price (280 rubles/m. ton, from 1927/28 output and value of output in 1926/27 prices in 51, 10).

^{bb} Total apportioned on the basis of employment in 1927/28 (Table A-2).

⁶⁰ Value of output per worker (assumed to be the same as in the large-scale machinebuilding industry, see above and Table A-2) multiplied by no. of workers in district railroad repair shops (Table A-2).

Source and Derivation of Table A-3

(Note: Exceptions to these general explanations are separately footnoted above.)

Total industry: Sum of large- and small-scale industry.

1913

Large-scale industry: Taken from 8 and 42, 318 ff. Interwar territory.

Small-scale industry: Taken from 2. Given in prewar rubles for interwar territory.

1926/27

Large-scale industry: Derived from 14, Table 3, 84 ff.

Small-scale industry: Turnover in 1926/27 (48, Table C-2) times avg. ratio of value of output to turnover for 1924/25 (from 80, 245 ff) and for 1928/29 (from 48, Table C-2).

1927/28

Large-scale industry: Derived from 81, 324 ff.

Small-scale industry: Avg. value of output for 1926/27 and 1928/29 times ratio for total small-scale industry (1.0156) of value of output for 1927/28 (6, 1929, 9, 281) to avg. for 1926/27 and 1928/29.

1928/29

Large-scale industry: Taken from 23, 88 ff.

Small-scale industry: Taken from 40, 14 ff.

1933

Large- and small-scale industry: Taken from 24, 41 ff.

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TABLE A-4

BASIC DATA FOR PRODUCTION INDEXES FOR INDUSTRIAL MATERIALS, LARGE- AND SMALL-SCALE INDUSTRY: SOVIET UNION, 1913, 1927/28, AND 1933

Code Product Unit Weight (rubles) ¹ 1913 1927/28 1913 1927/28 103 Steel ingots and castings th. m.t. 195 4,311 4,251 6,889 — — 103 Copper th. m.t. 195 4,311 4,251 6,889 — — 104 Copper th. m.t. 700 2.95 2.25 16.6 — — …				1927/28 Unit	Larg	Output, se-Scale Inc	lustry	Small	Output, l-Scole Ind	usiry
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Code	Product	Unit		1913	1927/28	1933	1913	1927/28	1933
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								_	-	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Lead						—		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									_	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									_	_
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								_		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			211							_
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	305	Crude petroleum	mill. m.t.		9.23					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					29					_
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								—		—
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			mill. m.t.							_
404 Sulfuric acid th. m.t. 101.9 121 211 627 405.1 Phosphoric fertilizer th. m.t. 39.9 47.1 111.5 545.0 405.3 Potash fertilizer th. m.t. 100 13.8 11.2 110.9 405.4 Potash fertilizer th. m.t. 100 13.8 11.2 110.9 405.3 Potash fertilizer th. m.t. 100 13.8 11.2 110.9 406 Ground natural phosphate th. m.t. 12.7 32.0 8.8 8.8 8.8 12.8 11.7 10.0								67	53	32
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Ammonium sulfate							_	_
10Red leadth. m.t.830 2.4 4.6 2.6 6 68 416Paperth. m.t.444197.0284.5506.1 $$ 68 417Paperboardth. m.t.27520.047.179.0 $$ $$ 418Motor vehicle tiresthous.83 b19.285679 $$ $$ 418Motor vehicle tiresthous.83 b2,1441,8882,9591,233768505Sand-lime, silica, andsiag bricksmillions38 °123134459 $$ $$ 506Cementth. m.t.11280127446240108508Construction gypsumth. m.t.1542752841,394235242510Lumbermill. m³28.68826.866511Plywoodth. m.t.286.721.034.886 $$ $$ 516Abestos shinglesmill. m³0.3558.819.289.4 $$ $$ 510Flourmill. m.t.21.034.886 $$ $$ $$ 513Roll roofingmill. m²2.6523.233.529.80.50.71501Flourmill. m.t.120 $$ $$ $$ $$ $$ 513Butterth. m.t.120 $$ $$ $$ $$ <			th. m.t.	62.4		_	45.8		_	_
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			th. m.t.							73
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$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$			mill. m.t.				7	18	16	13
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					_	254				13
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrr$	1507	Salt		7.2	1.959	2.336	2.734	1,018		
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1510									_
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$		Starch and syrup						30		ç
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1513	Canned food	mill. cans					2	25	_
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$			th. hectol.	13.4				.		-
601 Crude alcohol th. hectol. 15.1 4,670 2,330 3,883 1604 Cotton fabrics mill. m 0.347 2,453 2,539 2,732 129 139 1607 Linen fabrics mill. m 0.362 102.0 174.4 170.9 18.0 3.5 1609 Silk and rayon fabrics mill. m $\begin{cases} 4.0 \text{ d} \\ 3.0 \text{ d} \end{cases}$ 45 13 25.9 7 1 1611 Woolen and worsted fabrics mill. m 1.855 87 83 74.0 18 34 1614 Felt footwear mill. pairs 5.2 2.2 4.4 6.1 13.8 11.2 604 Hard leather th. m.t. 750 17.9 63.8 38.9 5.1 25.2			th. 20-kg.							_
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1607 Linen fabrics mill. m 0.662 102.0 174.4 170.9 18.0 3.5 1609 Silk and rayon fabrics mill. m $\begin{cases} 4.0 \text{ d} \\ 3.0 \text{ d} \end{cases}$ 45 13 25.9 7 1 1611 Woolen and worsted fabrics mill. m 1.855 87 83 74.0 18 34 1614 Felt footwear mill. pairs 5.2 2.2 4.4 6.1 13.8 11.2 604 Hard leather th. m.t. 750 17.9 63.8 38.9 5.1 25.2								129	139	
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fabrics mill. m 1.855 87 83 74.0 18 34 1614 Felt footwear mill. pairs 5.2 2.2 4.4 6.1 13.8 11.2 604 Hard leather th. m.t. 750 17.9 63.8 38.9 5.1 25.2		··· •	mill. m	{ 3.0 d	45	13	25.9	7	1	0.1
1614 Felt footwear mill. pairs 5.2 2.2 4.4 6.1 13.8 11.2 604 Hard leather th. m.t. 750 17.9 63.8 38.9 5.1 25.2	1011		mill m	1 055	07	07	74.0	10	34	12.
604 Hard leather th. m.t. 750 17.9 63.8 38.9 5.1 25.2										
UUY HAIN CALICI LII, III,L. 130 17,9 UJ,O J8.9 J.1 23.2										1.
605 Soft leather mill. dcm ² 27 897 2,175 2,436 253 875			mill dem ⁸		807					50

Abbreviations and symbols:

	-	negligible	m,	==	meter
bill.		billion	m ²		square meter
dcm ²		square decimeter	m ³		cubic meter
hectol.		hectoliter	m.t.		metric ton
kg.		kilogram	mill.	2 2	million
Irmh	-	hilowett hour	Al an Alawa	_	they and

*g. = kuogram mill. = million
* Weight applies basic unit, such as metric ton, kilowatt hour, and so on, except as noted.
* Per tire.
* Per thousand.
* Gamil-scale output weighted by value added per unit (taken as 80% of price) of pure silk fabrics, the first figure shown. Price (5 rubles/m) is derived from 1913 price (68, 1933, 2) and price index (1927/28 = 251% of 1913, in 11, 1928, Sept., 25).

Source and Derivation of Table A-4	Source	AND	DERIVATION	OF	TABLE	A-4
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1927/28 unit weights: 48, Table D-8.

Output, Large-Scale Industry

Except as noted, total output (48, Table B-2) minus small-scale output.

309 Firewood							
1913, 1927/28, 1933	Haulage of firewood for industry (38, 57).						
410 Red lead	, (, - ,						
1927/28	78, series 438.5, col. 6.						
501 Red bricks	-,						
1913, 1927/28	78, series 706.5.						
507 Construction gypsum	/0, 50105 / 0015.						
1913	4, Vol. 27, 536 ff.						
510 Lumber	4, 401. 27, 330 II.						
1927/28	11, 1929, Sept., 2 ff.						
511 Plywood	77, 1929, Sept., 2 II.						
1927/28	11, 1929, Sept., 2 ff.						
604 Hard leather	77, 1727, Sept., 2 II.						
1927/28	18, 72.						
	18, 72.						
605 Soft leather 1927/28	18, 72.						
1501 Flour	10, 12.						
1927/28	79						
	78, series 1103.5.						
1504 Vegetable oil	79						
1913, 1927/28	78, series 1107.1, col. 6.						
1506 Meat slaughtering	79						
1927/28	78, series 1109.2. State industry.						
1511 Starch and syrup	70						
1913	78, series 1118.5.						
1513 Canned food							
1913, 1927/28	78, series 1121.1, col. 6.						
1515 Cigarettes	11 1000 G						
1927/28	11, 1929, Sept., 22 ff.						
1601 Boots and shoes							
1927/28	78, series 1201.1, col. 7.						
1604 Cotton fabrics							
1927/28	11, 1929, Sept., 15.						
1611 Woolen and worsted							
1927/28	11, 1929, Sept., 42.						
	Output, Small-Scale Industry						
309 Firewood							
1913, 1927/28, 1933	Total consumption (48, Table B-2) minus haulage of firewood						
	for industry (38, 57).						
410 Red lead							
1913	No small-scale production.						
1927/28	Total output minus large-scale output.						
1933	Total output times share of small-scale industry (8%, 78,						
	Part 4. Appendix on Small-Scale Industry).						

	Part 4, Appendix on Small-Scale Industry).
501 Red bricks	
1913, 1927/28	Total output minus large-scale output.
1933	Total output times share of small-scale industry (12%, 78, Part 4, Appendix on Small-Scale Industry).
	I art 4, rippendix on oman-ocale industry).

507 Construction gypsum	
1913	Total output minus large-scale output.
1927/28	Total output times share of small-scale industry (assumed to be the same as in 1913).
1933	Total output times share of small-scale extraction of mineral raw materials for the construction and ceramic industry given in value terms (3.7%, 77, 4).
508 Construction lime	
1913, 1927/28	Total output times share of small-scale industry (assumed to be the same as for construction gypsum in 1913).
1933	Total output times share of small-scale extraction of mineral raw materials for the construction and ceramic industries given in value terms (3.7%, 77, 4).
510 Lumber	
1913	Total output times share of small-scale industry (assumed to be the same as in 1927/28).
1927/28	Total output minus large-scale output.
1933	Total output times share of small-scale industry (2%, 78, Part 4, Appendix on Small-Scale Industry).
511 Plywood	
1913	Total output times share of small-scale industry (assumed to be the same as in 1927/28).
1927/28	Total output minus large-scale output.
1933	Small-scale production negligible (78, Part 4, Appendix on Small-Scale Industry).
519 Window glass	·
1913, 1927/28	Total output times share of small-scale industry (assumed to be the same in 1913 as in 1927/28; in 1927/28 2%, 78, Part 4, Appendix on Small-Scale Industry).
1933	Small-scale production negligible (78, Part 4, Appendix on Small-Scale Industry).
604 Hard leather	
1913, 1933	Total output times share of small-scale industry (78, Part 4, Appendix on Small-Scale Industry).
1927/28	Total output minus large-scale output.
605 Soft leather	
1913, 1927/28, 1933	Same as for hard leather.
1501 Flour	
1913	Total output times share of small-scale industry (assumed to be the same as in 1927/28).
1927/28	Total output minus large-scale output.
1933	Total output (assumed to be the same as in 1932) times share of small-scale industry (63.8%, 24, 44).
1503 Butter	
1913, 1927/28	Total output assumed to be small-scale.
1933	Total output times share of small-scale industry (28%, 24, 42).
1504 Vegetable oil	
1913, 1927/28 1933	Total output minus large-scale output. Total output times share of small-scale industry (6.6%, 24, 42).
1506 Meat slaughtering	
1913	Total output assumed to be small-scale.
1927/28	Total output minus large-scale output.
1933	Total output times share of small-scale industry (1.7%, 77,
	10).
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1507 Fish catch	
1913, 1927/28	Total output assumed to be small-scale.
1933	Total output times share of small-scale industry (1%, 24, 44).
1508 Soap	
1913, 1927/28, 1933	Total output times share of small-scale industry (assumed to be the same in 1913 as in 1927/28; for 1927/28 and 1933 15% and 11%, 78, Part 4, Appendix on Small-Scale Industry).
1511 Starch and syrup	
1913	Total output minus large-scale output.
1927/28, 1933	Total output times share of small-scale industry (28% and 6%, 78, Part 4, Appendix on Small-Scale Industry).
1513 Canned food	
1913, 1927/28	Total output minus large-scale output.
19 3 3	No small-scale production (24, 41 ff).
1515 Cigarettes	
1913	Total output times share of small-scale industry (assumed to be the same as in 1927/28).
1927/28	Total output minus large-scale output.
1933	Small-scale production negligible (78, Part 4, Appendix on Small-Scale Industry).
1516 Low-grade tobacco	
1913, 1927/28, 1933	Same as for cigarettes.
1604 Cotton fabrics	·
1913	Total output times share of small-scale industry (assumed to
	be the same as in 1927/28).
1927/28	Total output minus large-scale output.
1933	Small-scale production negligible (24, 42).
1607 Linen fabrics	
1913, 1927/28	Total output times share of small-scale industry (15% and 2%, 78, Part 4, Appendix on Small-Scale Industry).
1933	Small-scale production negligible (24, 42).
1609.1 Pure silk fabrics	
1913, 1927/28, 1933	Total output (48, Appendix Table B-2, series 1609.1) times share of small-scale industry (24%, 32%, and 1%, 78, Part 4, Appendix on Small-Scale Industry).
1611 Woolen and worsted for	
1913, 1933	Total output times share of small-scale industry (for 1913
,	assumed same as for 1927/28; for 1933 14%, 78, Part 4, Appendix on Small-Scale Industry).
1927/28	Total output minus large-scale output.
1614 Felt footwear	
1913, 1933	Total output times share of small-scale industry (for 1913 86%, 78, Part 4, Appendix on Small-Scale Industry; for 1933 20%, 24, 42).
1927/28	Assumed same as in 1928/29 (11.2 mill pairs, 69 , 1930, 5–6).

TABLE A-5

Output of Additional Small-Scale Industries: Soviet Union, 1913, 1927/28, and 1933

Code	Product		e Product Unit		1913 1927/28		
509	Industri	al timber hauled	mill. m. ³	75.0	60.1		
1508	Soap (4	0%)	th.m.t.	38	54	29	
1601	Boots and shoes		mill. pairs	56.4		10.8	
		So	URCE				
509 Industrial	timber haule	d					
1913, 1927	/28	Total output assu:	med to be sma	ll-scale.			
1933	•	Small-scale produ	uction negligib	le (24,	44).		
1508 Soap (4)	0%)	•	00	• •			
* *	7/28, 1933	Total output time to be same as 7 78, Part 4, App	1927/28; 1927	/28 and	d 1933 1	5% and 11%,	
1601 Boots an	nd shoes	, , ,				•	
1913, 193	3	Total output tim 17, 16; 1933 1 Industry).					
1927/28		Total output min	us large-scale o	output.			

TABLE A-6

Index for Industrial Materials, Large- and Small-Scale Industry: Soviet Union, 1913, 1927/28, and 1933

(million constant rubles, 1928 prices)

202 C 203 204 2 301.1 H 3 302 A 3 303 H 3 304 L 3 305 C 3 306 L 3 307 C 3 308 H 4 404 S 4 405.3 H 4 405.2 H 4 405.3 H 4 405 G G 410 L 4 406 G G 410 L 4 501 L 5 505 S 5 506 G 5 511 L L 513 L 5 1504 L 1 1500 L 1 1500 L 1	Product Steel ingots and castings Copper ead Zinc Hydroelectric power Anthracite Bituminous coal Lignite Crude petroleum Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paperboard Motor vehicle tires Red bricks	Large- Scale (1) 489.9 30.0 2.1 1.7 51.6 227.5 74.9 14.9 190.4 11.7 12.3 1.9 1.4 - 0.1 2.0 87.5 5.5 5.5 1.6	Small- Scale (2)	Total (3) 489.9 30.9 1.0 2.1 1.7 51.6 227.5 7.8 27.8 27.8 264.9 1.7 14.9 570.0 11.7 12.3 1.9 570.0 11.7 12.3 1.9 570.0 2.1 1.4 0.1 2.0 87.5	Large-Scale (1) 492.3 29.9 1.6 20.9 86.4 239.6 239.6 239.6 239.6 233.8 17.6 	Small- Scale (2)	Total (3) 492.3 29.9 1.6 20.9 86.4 239.6 21.1 333.8 17.6 450.3 15.9 21.5 4.5 1.1	Large-Scale (1) 797.7 44.1 9.2 11.6 60.7 223.9 458.1 616.8 61.8 121.9 429.2 44.1 9.2 11.6 21.9 429.9 421.9 24.1 63.8 1.0 21.7 11.1	Small- Scale (2)	Total (3) 797.7 44.1 9.2 11.6 60.7 223.9 458.1 61.2 616.8 61.8 61.8 61.8 61.2 9 458.1 61.2 616.8 61.2 9 24.1 63.9 24.1
202 C 203 204 2 301.1 H 2 303 H 3 304 L 3 305 C 2 303 H 3 304 L 3 305 C 3 306 L 4 407 3 4 405.3 H 4 405.1 L 4 405.2 H 4 405.3 H 4 501 L 5 506 C 5 507 C 5 508 C 5 510 L 5 511 L 1 513 L 5 516 L 1 1506 L 1 1507 L 1 1500 L 1	Copper ead Zinc Hydroelectric power Anthracite Bituminous coal Lignite Grude petroleum Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paper Paperboard Motor vehicle tires	30.0 1.0 2.1 1.7 51.6 227.5 7.8 264.9 1.7 14.9 190.4 1.7 12.3 1.9 1.4 0.1 2.0 87.5 5.5	379.6	30.9 1.0 2.1 1.7 51.6 227.5 7.8 264.9 14.9 570.0 11.7 12.3 1.9 570.0 11.7 12.3 1.9 50.0 0.1 1.7 1.4 0.1 1.7 1.7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	29.9 1.6 20.9 86.4 239.6 21.1 333.8 17.6 		29.9 1.6 20.9 86.4 239.6 21.1 333.8 17.6 46.8 450.3 15.9 21.5 4.5 1.1	44.1 9.2 11.6 60.7 223.9 458.1 61.2 616.8 61.8 1.0 121.9 429.2 24.1 63.9 21.7 11.1		44.1 9.2 11.6 60.7 223.9 458.1 61.2 616.8 61.8 61.8 1.0 121.9 609.9 24.1 63.9
203 204 2 204 2 301.1 1 302 2 4 2 302 2 4 302 4 302 2 4 303 1 303 304 1 303 306 1 1 303 306 1 1 303 1 1 303 308 1 303 308 1 404 1 </td <td>ead Zinc Hydroelectric power Anthracite Bituminous coal Lignite Crude petroleum Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires</td> <td>$\begin{array}{c} 1.0\\ 2.1\\ 1.7\\ 51.6\\ 227.5\\ 7.8\\ 264.9\\ 1.7\\ -1\\ 14.9\\ 190.4\\ 11.7\\ 12.3\\ 1.4\\ -1\\ 2.0\\ 87.5\\ 5.5\end{array}$</td> <td>379.6</td> <td>$\begin{array}{c} 1.0\\ 2.1\\ 1.7\\ 51.6\\ 227.5\\ 7.8\\ 264.9\\ 1.7\\ 14.9\\ 570.0\\ 11.7\\ 12.3\\ 1.9\\ 1.4\\ -\\ 0.1\\ 2.0\\ \end{array}$</td> <td>1.6 1.6 20.9 86.4 239.6 21.1 333.8 17.6 46.8 146.5 15.9 21.5 4.5 1.1 0.2</td> <td></td> <td>1.6 1.6 20.9 86.4 239.6 21.1 333.8 17.6 46.8 450.3 15.9 21.5 4.5 1.1</td> <td>9.2 11.6 60.7 223.9 458.1 61.2 616.8 61.8 1.0 121.9 429.2 24.1 63.9 21.7 11.1</td> <td></td> <td>9.2 11.6 60.7 223.9 458.1 61.2 616.8 61.8 1.0 609.9 24.1 63.9</td>	ead Zinc Hydroelectric power Anthracite Bituminous coal Lignite Crude petroleum Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	$\begin{array}{c} 1.0\\ 2.1\\ 1.7\\ 51.6\\ 227.5\\ 7.8\\ 264.9\\ 1.7\\ -1\\ 14.9\\ 190.4\\ 11.7\\ 12.3\\ 1.4\\ -1\\ 2.0\\ 87.5\\ 5.5\end{array}$	379.6	$\begin{array}{c} 1.0\\ 2.1\\ 1.7\\ 51.6\\ 227.5\\ 7.8\\ 264.9\\ 1.7\\ 14.9\\ 570.0\\ 11.7\\ 12.3\\ 1.9\\ 1.4\\ -\\ 0.1\\ 2.0\\ \end{array}$	1.6 1.6 20.9 86.4 239.6 21.1 333.8 17.6 46.8 146.5 15.9 21.5 4.5 1.1 0.2		1.6 1.6 20.9 86.4 239.6 21.1 333.8 17.6 46.8 450.3 15.9 21.5 4.5 1.1	9.2 11.6 60.7 223.9 458.1 61.2 616.8 61.8 1.0 121.9 429.2 24.1 63.9 21.7 11.1		9.2 11.6 60.7 223.9 458.1 61.2 616.8 61.8 1.0 609.9 24.1 63.9
204 2 301.1 F 301.1 F 302 A 303 F 401 S 405.1 F 405.2 A 405.3 F 405.3 F 405.3 F 405.3 F 405.3 F 405.3 F 501 F 505 S 506 C 507 C 508 C 511 F 513 F 1504 F 1500 F	Zinc Hydroelectric power Anthracite Bituminous coal Lignite Crude petroleum Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	2.1 1.7 51.6 227.5 7.8 264.9 1.7 	379.6	2.1 1.7 51.6 227.5 7.8 264.9 14.9 570.0 11.7 12.3 1.9 1.4 	1.6 20.9 86.4 239.6 21.1 333.8 17.6 46.8 146.5 15.9 21.5 4.5 1.1 0.2		1.6 20.9 86.4 239.6 21.1 333.8 17.6 46.8 450.3 15.9 21.5 4.5 1.1	11.6 60.7 223.9 458.1 61.2 616.8 61.8 1.0 121.9 429.2 24.1 63.9 21.7 11.1		11.6 60.7 223.9 458.1 61.2 616.8 1.6 121.5 609.9 24.1 63.9
301.1 F 302 A 303 F 304 L 304 L 304 L 304 L 304 L 306 F 306 F 306 F 307 G 308 L 309 L 404 S 405.3 L 405.3 L 405.3 L 406 L 405 L 501 L 505 S 506 G 507 G 508 G 511 L 513 L 1506 L 1507 L 1507 L 1500 L	Hydroelectric power Anthracite Bituminous coal Lignite Crude petroleum Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paper Paperboard Motor vehicle tires	$\begin{array}{c} 1.7\\ 51.6\\ 227.5\\ 7.8\\ 264.9\\ 1.7\\ -\\ 14.9\\ 190.4\\ 11.7\\ 12.3\\ 1.9\\ 1.4\\ -\\ 0.1\\ 2.0\\ 87.5\\ 5.5\end{array}$	379.6	$ \begin{array}{r} 1.7\\ 51.6\\ 227.5\\ 7.8\\ 264.9\\ 1.7\\ -14.9\\ 570.0\\ 11.7\\ 12.3\\ 1.9\\ 1.4\\ -0.1\\ 2.0\\ \end{array} $	20.9 86.4 239.6 21.1 333.8 17.6 46.8 146.5 15.9 21.5 4.5 1.1 - 0.2		20.9 86.4 239.6 21.1 333.8 17.6 46.8 450.3 15.9 21.5 4.5 1.1	60.7 223.9 458.1 61.2 616.8 61.8 1.0 121.9 429.2 24.1 63.9 21.7 11.1		60.7 223.9 458.1 616.8 616.8 61.8 1.0 121.9 609.9 24.1 63.9
302 A 303 H 306 F 307 H 308 H 401 H 405.3 H 405.3 H 405.3 H 405.3 H 405.3 H 410 H 411 H 505 S 506 G 507 G 508 G 511 H 512 H 513 H 1504 H 1507 H 1507 H 1510 H	Anthracite Bituminous coal Lignite Crude petroleum Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	51.6227.57.8264.91.714.9190.411.712.31.91.40.12.087.55.5		51.6 227.5 7.8 264.9 1.7 14.9 570.0 11.7 12.3 1.9 1.4 0.1 2.0	86.4 239.6 21.1 333.8 17.6 46.8 146.5 15.9 21.5 4.5 1.1 0.2		86.4 239.6 21.1 333.8 17.6 46.8 450.3 15.9 21.5 4.5 1.1	223.9 458.1 61.2 61.8 1.0 121.9 429.2 24.1 63.9 21.7 11.1		223.9 458.1 616.8 616.8 61.8 1.0 121.9 609.9 24.1 63.9
304 I 305 G 306 F 307 307 308 H 309 H 404 S 404 S 405.1 H 405.2 A 405.3 H 405.4 H 405 S 501 H 505 S 506 G 507 G 508 G 510 H 511 H 512 H 513 H 1504 H 1507 H 1507 H 1500 H	Lignite Crude petroleum Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	7.8264.91.714.9190.411.712.31.91.40.12.087.55.5		227.5 7.8 264.9 1.7 14.9 570.0 11.7 12.3 1.9 1.4 0.1 2.0	21.1 333.8 17.6 46.8 146.5 15.9 21.5 4.5 1.1 0.2		21.1 333.8 17.6 46.8 450.3 15.9 21.5 4.5 1.1	61.2 616.8 61.8 1.0 121.9 429.2 24.1 63.9 21.7 11.1	 180.7 	61.3 616.3 61.4 1.0 121.9 609.9 24. 63.9
305 C 306 C 307 C 308 F 401 S 401 S 401 S 401 S 404 S 405.1 F 405.2 A 405.3 F 406 C 410 F 406 C 410 F 501 F 505 S 506 S 507 C 508 C 511 F 512 F 513 F 1504 F 1507 F 1500 F	Crude petroleum Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	264.9 1.7 14.9 190.4 11.7 12.3 1.9 1.4 - 0.1 2.0 87.5 5.5	379.6 — — — — — — — —	264.9 1.7 14.9 570.0 11.7 12.3 1.9 1.4 0.1 2.0	333.8 17.6 46.8 146.5 15.9 21.5 4.5 1.1 - 0.2		333.8 17.6 46.8 450.3 15.9 21.5 4.5 1.1	616.8 61.8 1.0 121.9 429.2 24.1 63.9 21.7 11.1	 180.7 	616.8 61.8 1.0 121.9 609.9 24.1 63.9
306 r 307 C 308 I 309 I 309 I 401 S 404 S 405.1 I 405.2 A 405.3 I 405.3 I 410 I 417 I 416 I 417 I 501 J 505 S 506 C 507 C 508 C 511 I 512 I 513 I 1506 I 1507 I 1500 I	Natural gas Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paper Paperboard Motor vehicle tires	$ \begin{array}{r} 1.7 \\ 14.9 \\ 190.4 \\ 11.7 \\ 12.3 \\ 1.9 \\ 1.4 \\ \hline 0.1 \\ 2.0 \\ 87.5 \\ 5.5 \\ \end{array} $	379.6 — — — — — — — — —	1.7 14.9 570.0 11.7 12.3 1.9 1.4 0.1 2.0	17.6 46.8 146.5 15.9 21.5 4.5 1.1 0.2	Ξ	17.6 46.8 450.3 15.9 21.5 4.5 1.1	61.8 1.0 121.9 429.2 24.1 63.9 21.7 11.1	 180.7 	61.8 1.0 121.9 609.9 24.1 63.9
307 C 308 H 309 H 401 S 401 S 403 H 404 S 405.1 H 405.2 H 405.3 H 406 C 410 H 410 H 501 H 505 S 506 C 501 H 512 H 513 H 516 H 1504 H 1507 H 1500 H	Oil shale Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires		379.6 — — — — —	14.9 570.0 11.7 12.3 1.9 1.4 0.1 2.0	46.8 146.5 15.9 21.5 4.5 1.1 0.2	303.8 — —	46.8 450.3 15.9 21.5 4.5 1.1	1.0 121.9 429.2 24.1 63.9 21.7 11.1	180.7 	1.0 121.9 609.9 24.1 63.9
308 1 309 1 309 1 401 1 405.1 1 405.2 4 405.3 1 405.3 1 405.3 1 406 1 410 1 411 1 411 1 501 1 505 5 506 0 508 0 511 1 513 1 1504 1 1507 1 1507 1 1507 1 1507 1 1507 1 1507 1 1507 1 1509 1	Peat Firewood (consumption) Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paper Paperboard Motor vehicle tires	190.4 11.7 12.3 1.9 1.4 0.1 2.0 87.5 5.5	379.6 	570.0 11.7 12.3 1.9 1.4 0.1 2.0	146.5 15.9 21.5 4.5 1.1 0.2	303.8 — — —	450.3 15.9 21.5 4.5 1.1	121.9 429.2 24.1 63.9 21.7 11.1	180.7 	121.9 609.9 24.1 63.9
401 5 404 5 405.1 1 405.2 4 405.3 1 405.3 1 405.3 1 405.3 1 405.3 1 406 1 410 1 416 1 501 1 505 5 506 5 507 0 513 1 513 1 516 1 1504 1 1500 1 1500 1	Soda ash Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	11.7 12.3 1.9 1.4 	379.6 	11.7 12.3 1.9 1.4 	15.9 21.5 4.5 1.1 0.2	303.8 — — —	15.9 21.5 4.5 1.1	24.1 63.9 21.7 11.1	180.7 	24.1 63.9
404 5 405.1 4 405.2 4 405.3 1 405.4 4 405.3 1 405.4 1 405.2 1 405.3 1 405.3 1 405.4 1 405.2 1 501 1 505 5 506 0 507 0 508 0 510 1 512 1 513 1 514 1 5150 1 1504 1 1507 1 1500 1 1500 1	Sulfuric acid Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	12.3 1.9 1.4 		12.3 1.9 1.4 	21.5 4.5 1.1 0.2		21.5 4.5 1.1	63.9 21.7 11.1		63.9
405.1 1 405.2 4 405.3 4 405.4 4 405.3 4 405.4 4 405.3 4 405.4 4 410 1 416 1 416 1 501 1 505 5 506 507 508 1 511 1 512 1 513 1 516 2 1504 1 1507 1 1509 1 1500 1	Phosphoric fertilizer Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	1.9 1.4 2.0 87.5 5.5		1.9 1.4 0.1 2.0	4.5 1.1 0.2		4.5 1.1	21.7 11.1	=	
405.2 4 405.3 1 406 10 410 1 411 1 410 1 411 1 501 1 505 50 506 0 500 0 510 1 511 1 513 1 516 2 519 1 1504 1 1507 1 1507 1 1507 1 1500 1	Ammonium sulfate Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	1.4 0.1 2.0 87.5 5.5		1.4 	1.1 0.2	Ξ	1.1	11.1	=	41.4
405.3 406 406 6 410 1 410 1 410 1 410 1 410 1 410 1 410 1 410 1 410 1 410 1 410 1 410 1 410 1 410 1 505 5 505 5 506 5 507 5 508 5 510 1 511 1 513 1 516 2 1504 1 1507 1 1509 1	Potash fertilizer Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	0.1 2.0 87.5 5.5		0.1 2.0	0.2	—	*~~**			11.1
406 400 410 1 411 1 417 1 501 1 505 5 506 507 507 6 508 6 511 1 512 1 513 1 516 2 1503 1 1504 1 1507 1 1500 1	Ground natural phosphate Red lead Paper Paperboard Motor vehicle tires	2.0 87.5 5.5	=	2.0					—	2.9
416 1 417 1 418 1 501 1 505 5 506 5 507 6 508 1 510 1 511 1 513 1 516 1 1503 1 1504 1 1507 1 1509 1	Paper Paperboard Motor vehicle tires	87.5 5.5	Ξ		2 8	_	0.2	4.0	—	4.0
417 1 418 1 418 1 501 1 505 5 506 6 507 6 508 6 510 1 511 1 512 1 513 1 514 1 515 1 1504 1 1504 1 1507 1 1509 1 1510 1	Paperboard Motor vehicle tires	5.5	_	87.5		0.7	4.5	2.1	0.2	2.3
418 1 501 1 505 505 506 0 507 0 508 0 510 1 511 1 512 1 513 1 1504 1 1504 1 1507 1 1509 1 1509 1 1500 1 1500 1 1500 1 1500 1 1500 1 1500 1 1500 1 1500 1	Motor vehicle tires				126.3	_	126.3	224.7		224.
501 1 505 5 506 5 507 6 508 6 510 1 511 1 512 1 513 1 514 1 515 1 1504 1 1507 1 1507 1 1507 1 1509 1				5.5 1.6	13.0		13.0 7.1	21.7 56.4		21.2 56.4
505 5 506 0 507 0 508 0 510 1 511 1 512 1 513 1 514 1 515 1 1501 1 1503 1 1504 1 1507 1 1507 1 1509 1 1509 1 1500 1 1500 1 1500 1 1500 1 1500 1 1500 1		81.4	46.9	128.3	7.1 71.7	29.2	100.9	112.4	15.4	127.8
507 6 508 6 510 1 511 1 512 1 513 1 514 1 515 1 516 2 517 1 518 1 519 1 1503 1 1504 1 1506 1 1507 1 1509 1	Sand-lime, silica, and slag bricks	4.7		4.7	5.1		5.1	17.4		127.6
508 6 510 I 511 I 512 I 513 I 514 I 515 I 516 I 517 I 518 I 519 I 1501 I 1503 I 1504 I 1507 I 1509 I 1510 I	Cement	50.2	—	50.2	61.1	_	61.1	89.4		89.4
\$10 I 511 I 512 I 513 I 514 I 515 I 516 I 517 I 1501 I 1503 I 1504 I 1506 I 1507 I 1500 I 1510 I	Construction gypsum	3.1	2.6	5.7	1.4	1.2	2.6	4.9	0.2	5.:
511 1 512 1 513 1 516 2 519 1 1501 1 1503 1 1504 1 1506 1 1507 1 1509 1 1500 1 1500 1	Construction lime Lumber	4.3 217.4	3.6 193.0	7.9 400.4	4.4	3.7	8.1 400.4	21.5 766.5	1.1 14.3	22. 780.
512 1 513 1 516 2 519 1 1501 1 1503 1 1504 1 1506 1 1507 1 1509 5 1510 1	Plywood	13.2	3.9	17.1	217.4 21.7	183.0 4.0	25.7	56.0	14.5	56.
513 1 516 2 519 1 1501 1 1503 1 1504 1 1506 1 1507 1 1509 5 1510 1	Magnesite metal-	10.1	5.9		21.7	4.0	25.1	50.0		00.
516 2 519 1 1501 1 1503 1 1504 1 1506 1 1507 1 1509 5 1510 1	lurgical powder	6.0	—	6.0	10.0	_	10.0	24.7		24.
519 1501 1503 1504 1506 1507 1509 1510	Roll roofing	3.1		3.1	6.8	—	6.8	31.7		31.
1501 1 1503 1 1504 1 1506 1 1507 1 1509 5 1510 1	Asbestos shingles	1.3		1.3	5.7		5.7	9.0	-	9.
1503 1504 1506 1507 1509 1510	Window glass Flour ^a	61.5 202.4	1.3 394.0	62.8 596.4	88.7 174.7	1.9 336.5	90.6 511.2	79.0 153.4	272.6	79.0 426.0
1504 1506 1507 1509 1510	Butter a	202.4	44.6	44.6	1/4./	35.2	35.2	38.4	14.9	53.
1507 1509 1510	Vegetable oil *	31.7	24.8	56.5	33.8	40.6	74.4	36.0	2.5	38.
1509 S 1510 J	Meat a		107.3	107.3	26.2	43.6	69.8	43.2	0.8	44.0
1510]	Fish catch		294.2	294.2		242.8	242.8	372.8	3.8	376.
	Salt Raw sugar ^a	14.1 247.8	_	14.1 247.8	16.8 236.1		16.8 236.1	19.7 183.1		19. 183.
1511 \$	Starch and syrup ^a	11.9	3.1	15.0	230.1	2.8	10.0	14.8	0.9	103.
	Canned food	5.3	0.1	5.4	5.7	1.4	7.1	34.9		34.
1514	Beer *	108.1	_	108.1	52.4		52.4	57.8		57.
1515 (Cigarettes *	27.3	1.4	28.7	61.2	3.1	64.3	81.5		81.
	Low-grade tobacco *	10.1	3.7	13.8	11.0	4.0	15.0	8.8	_	. 8.
601	Crude alcohol ^a	70.5 850.9	45.1	70.5 896.0	35.2 880.7	48.6	35.2 929.3	58.6 948.0		58.
1604 0 1607 1	Cotton fabrics ^a Linen fabrics ^a	850.9 67.5	11.0	70 4	880.7	48.0 2.3	929.3 115.5	948.0		948.0 93.0
1609 5		129.2	26.8 ^t	156.0	39.6	2.3	42.0	77.6	0.4	78.
1611	Silk and synthetic fabrics a		33.3	194.8	154.1	62.9	217.0	137.3	22.4	159.
1614	Silk and synthetic fabrics ^a Woolen and worsted fabrics	11.4	71.8	83.2	22.9	58.2	81.1	31.7	7.8	39.
	Silk and synthetic fabrics ^a Woolen and worsted fabrics Felt footwear ^a	13.7	3.8	17.5	47.8	18.9	66.7	29.2	0.6	29.
605	Silk and synthetic fabrics ^a Woolen and worsted fabrics Felt footwear ^a Hard leather ^a		6.8	31.0	58.7	23.6	82.3	65.8	1.3	67.
To To	Silk and synthetic fabrics ^a Woolen and worsted fabrics Felt footwear ^a	24.2		5.535.8	4.102.8	1,454.4 1,117.9	5,557.2 5,046.0	7,027.9 6,874.5	539.9 267.3	7.567.

NOTES TO TABLE A-6

" "Net" price used.

^b Small-scale output of pure silk fabrics from Table A-4 (no synthetic fabrics produced by small-scale industry) multiplied by "net" price of pure silk fabrics (4 rubles/m., assumed to be 80% of gross price). Gross price, 5 rubles/m., derived from avg. 1913 price of pure silk fabrics, pile goods, and piece goods (68, 1933, 2) and price index for silk fabrics (1927/28=251, 1913=100, in 11, 1928, Sept., 23).

SOURCE

Col. 1: Col. 3 minus col. 2.

Col. 2: Output of small-scale industry (Table A-) multiplied by gross price unless otherwise noted (for prices, see 48, Table D-8). When small-scale output not available, it was assumed negligible or nonexistent.

Col. 3: Output of total industry (48, Table B-2) multiplied by price, as in col. 2.