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ORGANIZATION OF INDUSTRIAL STATISTICS IN YUGOSLAVIA

Submitted by the Government of Yugoslavia

D01838

We regret that some of the pages in the microfiche copy of this report may not be up to the proper legibility standards, even though the best possible copy was used for preparing the master fiche.

1. The data on manufacturing, mining and quarrying in Yugoslavia have been gathered by the network of statistical organs. Those are: the Federal Institute for Statistics, statistical institutes of socialist republics and regional institutes. All these institutes as regards financial and personnel matters are mutually independent. However, their activity is linked by a joint plan of statistical inquiries. The division of labour between the listed organs has been carried out within the scope of this plan. The regional institutes are entrusted with data collection from industrial enterprises. At the same time they carry out the control of the received data. Finally, the regional organs process and publish data for the requirements of their communities. Republican institutes co-operate with the Federal Institute for Statistics on the elaboration of the methodology of statistical inquiries, they are responsible for the organisation of statistics in the republic, perform partly the data processing and publish data for the territory of their republic. The Federal Institute for Statistics works out the methodology, co-ordinates the activity of republican institutes, carries on a part of data processing and publishes data for the whole country.

2. Statistical organs gather data on manufacturing, mining and quarrying through a great many different inquiries the most important of which are: monthly report of manufacturing, mining and quarrying and the system of annual reports. Among the latter, there are two principal ones: the first one which contains indicators on production in physical terms, on persons engaged and capacities of power equipment and the second one which contains the review of financial results of enterprises operations. The

statistics 1963" that means that handicrafts have been included.

6. Since handicrafts are excluded the data on the size of manufacturing, mining and quarrying are smaller than they would be according to the definitions of the international statistics. This difference can be noticed as the difference between the data of the two last tables and other tables. However, it should be noted that the data on single products are shown only for manufacturing, mining and quarrying, in its narrower sense. This is of exceptional importance for the assessment of certain data on manufactured goods which are largely produced in handicrafts (furniture, clothing, footwear, etc.).

Classification of activities (industries)

7. The data are grouped in industrial branches on two bases. In the first one, the national classification of activities has been applied and in the second one - international classification anticipated for "the World programme of basic industrial statistics 1963". This distinction has been marked in the title of the table.

8. The Yugoslav classification of activities differs from the international one in many essential features. Firstly, mining is not presented as a separate activity. Mining, in the Yugoslav classification, is comprised by the following branches: production and preparation of coal, extraction and processing of crude petroleum, ferrous metallurgy, non-ferrous metallurgy, production and preparation of non-metallic mineral ores and manufacture of building materials. Secondly, the summary data which present manufacturing, mining and quarrying on the whole, include generation, transmission and distribution of electric energy. Thirdly, the definitions of branches do not correspond to the definitions of International Standard Industrial Classification of All Economic Activities. Accordingly, the data given by the national classification render more difficult the international

comparisons. This was the reason why in this review, the same indicators are shown according to two classification schemes.

Definitions of Basic Characteristics

9. Manufactured goods are defined as the total finished production of commodities listed in the nomenclature, printed as the instruction for drawing up statistical reports of industrial enterprises and establishments. The presentation of manufactured goods printed in this volume covers only selected list of principal commodities.

10. Index of the physical volume of production has been computed on the basis of monthly and annual data on finished production and on the basis of the weighting coefficients fixed according to the sum of wages (salaries) and depreciation which are charged against the costs of production of certain commodities. The weighting system has been rectified each year, so that the procedure of the chain variation of weights has been applied. Long-term series of the index numbers have been established by connecting new chain index through computation with a series of previously computed results. The data on quantities of commodities on the basis of which the production index has been computed, relate to over 90 percent of the value added of the whole manufacturing, mining and quarrying.

11. Index of persons engaged covers only personnel of industrial activities. It excludes personnel which in industrial enterprises is engaged in works of construction, forest exploitation, trade, etc. On the other hand, it covers personnel engaged in larger industrial establishments of agricultural, building, trade and other enterprises. The index has been computed on the basis of the annual average of the numbers employed. The average has been computed from twelve data relating to condition at end of every month. The datum on the numbers employed at the end of month shows the number of persons in lab-

our status, regardless of whether they were at work or not at the specified date.

12. Index of labour productivity in industry shows the dynamics of social labour productivity per 1 employed. It is computed by dividing the index of production with the index of persons engaged.

13. Index of consumption of raw materials and semi-finished products has been computed on the basis of data on quantity of consumed raw materials and semi-finished products and on the basis of average prices from 1962. Basic raw materials and semi-finished products comprised by this computation represent approximately 60 per cent of the value of all raw materials and semi-finished products which have been consumed by manufacturing, mining and quarrying.

14. Besides the above, it is also necessary to peruse the notes to the tables.

latter is based on the banking statistics (Social Auditing Accounting Service). Besides these a series of other reports from manufacturing, mining and quarrying or other enterprises and institutions have been gathered by the statistics. These reports show the movement of prices, personal incomes (wages/salaries), investment, training of personnel, commodity turnover and other data which can be used for more complex study of development of manufacturing, mining and quarrying.

The Statistical Yearbook of SPRY gives the most complete survey of the Yugoslav statistical system.

3. The basic data on development of industrial production are being available monthly. Indexes of industrial production for the previous month, as provisional results are published on each thirteenth day in a month. Before the end of a month, also grouped monthly data on employment, consumption of raw materials and materials and stocks are placed at the disposal of administrative organs. The basic monthly series are printed in the monthly review of economic statistics, under the title "Index".

4. A major number of the other data on manufacturing, mining and quarrying are gathered by way of annual reports the summary data of which are published at mid-year, i.e. approximately six months at the expiration of the year to which the data relate.

Definition of Manufacturing, Mining and Quarrying

5. The concept "manufacturing, mining and quarrying" in Yugoslav statistics is less extensive than the concept used in definitions of international statistics (UNO). Namely in Yugoslav statistics, manufacturing, mining and quarrying excludes craft establishments and enterprises. All the data furnished in this review relate to manufacturing, mining and quarrying in this narrower sense. The exception are only two last tables in which manufacturing, mining and quarrying is presented according to the definitions of "the World programme of basic industrial

1. GENERAL DATA OF DEVELOPMENT OF
MANUFACTURING, MINING AND QUARRYING
/national definition of manufacturing, mining and quarrying/

	Value added, at 1960 prices, milliard din.	Index of physical volume of production	Persons engaged in man., mining & quarrying	Index numbers of producers prices	Export of manufactured goods. milliard dinars	Imports of manufactured goods. milliard old dinars
1947	358	73	...	...	1 49	1 66
1948	445	91	...	...	2 28	3 38
1949	491	102	...	...	1 63	3 02
1950	495	105	...	...	1 33	2 44
1951	488	101	...	...	1 73	3 53
1952	483	100	562	100	1 72	3 54
1953	529	111	592	98	1 71	3 45
1954	605	126	671	96	1 94	3 06
1955	690	147	748	101	2 24	3 92
1956	758	162	788	102	2 73	4 01
1957	888	189	856	102	3 50	6 32
1958	993	210	929	103	3 77	7 12
1959	1 109	238	991	103	4 50	6 91
1960	1 261	274	1 072	105	5 29	9 35
1961	1 348	294	1 128	110	5 31	9 78
1962	1 447	314	1 165	110	6 82	9 45
1963	1 673	363	1 222	111	7 56	10 56
1964	1 941	421	1 319	112	8 75	14 24
1965	2 103	455	1 378	129	11 08	13 51
1966	...	474	1 358	143	12 45	16 62

2. SHARE OF MANUFACTURING, MINING AND QUARRYING
 IN YUGOSLAV ECONOMY

/national definition of manufacturing, mining and
 quarrying/

	Persons engaged ^{1/}	Fixed assets ^{2/}	Invest- ment /excluding private investment	Value added		Exports
				at cur- rent prices	at con- stant 1960 prices	
1952	33,4	44,8	65,6	47,0	35,3	58,7
1953	33,2	44,6	56,6	42,4	32,8	78,5
1954	34,4	46,3	49,0	43,0	36,1	68,8
1955	34,6	48,9	48,6	43,9	36,1	69,9
1956	36,5	51,3	42,6	44,1	41,1	67,5
1957	36,7	52,2	34,6	40,2	39,3	70,8
1958	37,4	52,7	32,5	44,4	42,7	68,3
1959	37,2	52,5	31,9	42,9	40,9	75,6
1960	36,9	52,3	35,4	44,0	43,7	74,7
1961	35,6	52,5	38,0	42,3	44,3	74,7
1962	35,8	51,1	38,5	40,9	45,6	79,0
1963	36,8	51,9	37,7	40,5	47,0	76,6
1964	37,3	49,4	35,6	40,7	48,3	78,4
1965	38,5	50,0	36,4	38,2	...	81,1
1966	38,9	...	39,5	...	...	87,5

1/ The share in the total number of persons engaged has been computed on the basis of data on employed persons in the social sector, including also non-economic organizations. The share of manufacturing, mining and quarrying in the overall economically active population in 1953 was 8% and in 1961 13,5%.

2/ The share in assets of social economic organizations. According to estimates, the share of manufacturing, mining and quarrying in the overall fixed assets of SFRY was 21% in 1961.

3. BASIC INDEX NUMBERS ON MANUFACTURING, MINING
 AND QUARRYING

/national definition of manufacturing, mining
 and quarrying/

1965 = 100

	Production	Employment	Labour productivity	Consumption of semi-finished products & raw materials
1952	21,9	40,7	54,0	..
1953	24,4	42,7	57,4	26,3
1954	27,7	48,5	57,3	30,3
1955	32,3	54,9	59,0	36,0
1956	35,6	58,7	60,8	39,3
1957	41,7	62,9	66,2	44,3
1958	46,2	69,1	66,9	48,2
1959	52,2	74,3	70,4	54,6
1960	60,4	80,4	75,0	61,4
1961	64,6	83,5	77,5	64,8
1962	69,1	85,2	81,1	70,9
1963	79,7	88,9	89,8	79,4
1964	92,6	98,5	96,0	93,1
1965	100,0	100,0	100,0	100,0
1966	104,3	99,1	105,2	106,2

Source: "Manufacturing, mining and quarrying", Federal Institute
 for Statistics, Statistical bulletin No. 412.

Index of production shows the physical volume of production.

Index of employment shows the average annual number of persons
 engaged in industrial activities.

Index of labour productivity has been computed by dividing the
 index of production with the index of employment and it shows the
 production per worker.

Index of consumption of semi-finished products and raw materials
 shows the physical volume of consumption of basic raw materials
 originating from mining, forestry, agriculture or from imports.

4. INDEX NUMBERS OF INDUSTRIAL PRODUCTION BY BRANCHES AND REPUBLICS

/national classification and definition of manufacturing, mining and quarrying/

	<u>1966</u> <u>1959</u>	<u>1966</u> <u>1952</u>	<u>1966</u> <u>1963</u>	<u>1965</u> <u>1964</u>	<u>1966</u> <u>1965</u>
Total	780	474	116	108	104
<u>By branches</u>					
Electric energy	1 450	633	105	109	110
Coal	315	219	107	100	98
Crude petroleum	4 928	1 167	114	119	119
Ferrous metallurgy	941	533	110	107	105
Non-ferrous metallurgy	466	321	103	106	103
Non-metals	1 827	695	122	109	107
Manufactures of metals	1 302	523	126	108	99
Man. of elec.mach., appar. applian. & suppl.	10 598	1 320	132	105	105
Manufac.of chemicals	1 975	1 200	120	121	114
Building materials	474	288	114	104	100
Manufacture of wood	460	373	118	107	103
Paper	1 247	894	124	115	108
Textiles	461	385	113	107	108
Leather & footwear	530	414	122	106	101
Rubber	923	553	124	110	108
Food manufact.industr.	624	550	111	107	109
Tobacco	253	200	141	107	90
<u>Groups of products by destination:</u>					
Work instruments	2 884	495	119	110	102
Reproduction materials	684	438	115	107	104
Consumer goods	764	540	116	109	106
<u>By republics</u>					
Bosnia & Herzegovina	935	534	118	109	102
Montenegro	4 060	1 153	121	108	102
Croatia	699	449	113	110	108
Macedonia	1 889	712	121	115	112
Slovenia	546	382	112	104	104
Serbia	810	520	119	108	103

Source: Statistical Yearbook of SFRY 1966.

9. INDEX NUMBERS OF INDUSTRIAL PRODUCTION
 ACCORDING TO THE INTERNATIONAL STANDARD
 INDUSTRIAL CLASSIFICATION OF ALL
 ECONOMIC ACTIVITIES

/optional definition of manufacturing, mining
 and quarrying/

1958 = 100

	1939	1947	1952	1957	1962	1965
<u>Mining and quarrying</u>	39	43	60	96	139	168
Coal mining	49	56	70	97	121	138
Metal mining	47	42	58	97	142	158
Crude petroleum	0,4	8	32	86	325	500
Stone quarrying, clay and sand pits	25	25	51	89	160	206
Non-metallic mining and quarrying, not elsewhere classif.	19	41	48	96	144	187
<u>Manufacturing</u>	28	34	45	89	151	236
Food and beverages	38	49	43	97	157	234
Tobacco manufactures	43	48	55	70	53	110
Manufacture of textiles	49	56	54	93	140	206
Wearing apparel and footwear	35	78	66	87	162	270
Wood and cork	64	67	74	94	161	247
Manufacture of furniture	13	19	39	95	197	283
Manufacture of paper and paper products	29	34	41	94	198	360
Manufacture of leather and leather products	51	57	65	96	139	187
Manufacture of rubber products	31	43	51	94	157	283
Manufacture of chemicals and chemical products	21	25	33	83	167	318
Crude petroleum and coal derivatives	15	4	25	90	148	277
Manufacture of non-meta- lic mineral products	34	44	53	89	132	201
Basic metal industries	17	22	35	89	146	193
Manufacture of metal products	26	34	44	91	158	263
Manufacture of machinery /except electrical machi- nery/	11	18	43	81	146	204
Manufacture of electrical mach., apparat.applian. & supplies	3	7	27	82	192	350
Manuf.of motor vehicles	4	14	37	79	171	291

Source: "Manufacturing, mining and quarrying 1965"
 Federal Institute for Statistics, Statistical bulletin, No.421.

6. MANUFACTURED GOODS

	1939	1952	1962	1966
<u>Production of electricity, mil.kwh</u>				
Total	1 173	2 700	11 275	17 174
hydraulic	566	1 423	6 851	9 880
thermic	607	1 277	4 424	7 294
<u>Coal mining and production of coke</u> thous.tons				
Hard coal	1 410	1 011	1 187	1 133
Brown coal	4 312	6 842	9 319	10 079
Lignite	1 310	4 245	14 188	18 080
Coke	35	41	1 125	1 227
<u>Extraction and processing of crude petroleum</u> thous.tons				
Crude petroleum	1	151	1 525	2 222
Oil	/97/	518	1 665	4 132
<u>Ferrous metallurgy</u>				
Iron ore	thous.tons 667	676	2 190	2 493
Crude iron	thous.tons 101	273	1 050	1 143
Crude SM steel	thous.tons 232	425	1 436	1 573
Crude EI steel	thous.tons 2,8	17	160	294
Rolled goods	thous.tons 151	293	1 057	1 226
Drawn goods	thous.tons 2,5	23	84	142
<u>Non-ferrous metallurgy</u>				
Bauxite, thous.tons	719	613	1 331	1 887
Copper, blister, thous.tons	42	33	46	71
Copper, electrolytic, thous.tons	12	21	46	63
Lead, thous.tons	11	67	98	98
Silver, tons	1	80	117	114
Antimony, regulus, tons	1 500	1 329	2 691	2 645
Zinc, tons	4 918	14 463	39 304	51 089
Mercury, tons	378	504	561	548
Rolled copper goods, tons	...	18 186	38 206	55 906
Rolled aluminium goods, tons	15	1 730	39 796	57 281
Aluminium, tons	1 795	2 563	27 980	42 022
<u>Production of non-metallic mineral products</u>				
Magnesite, crude, thous.tons	33	38	373	527
Salt, sea, thous.tons	44	101	87	34
Salt, denatured, thous.tons.	54	83	128	130
Asbestos fibre, tons	-	2 506	6 714	7 630
Fireclay refractory materials, thous.tons	19	52	135	166
Chrome magnesite refractory material, tons	-	-	26 776	49 329
Magnesite refractory material, tons	-	-	29 549	43 988

2.

	1939	1952	1962	1966
<u>Manufacture of non-metallic mineral products</u>				
Earthenware for household use, tons	742	1 534	6 241	8 985
Electroborcelain, tons	188	1 047	5 403	9 818
Structural ceramic ware, tons	2 462	6 244	39 830	57 541
Flat glass, thous.cu.m.	1 678	3 415	8 307	13 906
Blown glass, tons	10 927	20 333	70 737	138 504
<u>Manufacture of metal products</u>				
Iron castings, thous.tons	28	55	203	289
Steel castings, thous.tons	2	10	29	36
Cast iron pipes, tons	5 280	10 292	48 322	65 554
Roller-bearings, tons	-	87	1 596	2 268
Structures, iron and plate, tons	6 703	24 990	67 338	121 872
Metal and wood-working machinery, tons	84	1 963	5 871	10 299
Other machinery and equipment for use in gen., mining and quarrying, tons	4 990	12 830	37 709	56 715
<u>Agricultural machinery and implements</u>				
Tractors, number	-	210	2 850	4 242
Trucks, number	-	789	5 410	8 668
Buses, number	-	654	6 454	8 870
Motor cars, number	-	41	2 144	2 522
Motorcycles, number	-	-	13 125	37 687
Bicycles, thousands	-	-	31 968	48 773
Metal furniture, tons	-	9	266	346
Metal utensils, tons	1 625	3 910	14 102	15 007
Washing machines, textile, number	5 276	5 543	12 956	15 773
<u>Manufacture of electrical machinery, apparatus, appliances and supplies</u>				
Rotating machines, kW	-	-	12 429	58 090
Transformers, kVA	4	259	588	1 304
Lead cables, tons	0	413	1 905	2 759
Other insulated conductors, tons	65	995	45 162	54 801
Accumulators, tons	572	1 950	16 712	27 350
Electric meters, thousands	115	1 309	5 361	13 671
Radio receivers, thousands	-	85	422	717
Television receivers, thousands	-	27	289	369
Telephones, number	-	-	69	286
Thermic apparatus for household use, tons	-	19 741	77 180	102 342
Refrigerators for households, number	48	209	15 661	25 838
Refrigerators for households, hectolitres	-	-	74 891	206 157
	-	-	67 879	236 898

3.

	1939	1952	1962	1966
<u>Manufacture of chemicals and chemical products</u>				
Sulphuric acid, thous.tons	23	36	286	542
Hydrochloric acid, tons	750	3 970	9 834	20 807
Nitric acid, thous.tons	-	-	42	267
Calcined soda, tons	21 967	33 004	96 311	94 324
Caustic soda, tons	13 673	20 428	53 747	90 909
Calcium carbide, thousand tons	55	40	84	112
Manufactured fertilizers, th.tons	71	68	636	1 585
PVC powder, tons	-	1 976	8 193	14 999
PVC primary products, tons	-	824	11 383	24 173
Other artificial materials, tons	-	285	14 369	17 800
Cellulosic fibre, tons	-	-	17 030	19 379
Rayon, tons	-	-	3 239	4 233
Cord, tons	-	-	747	939
Soap, 60% tons	12 792	23 322	32 622	38 935
Detergents, 15%, tons	-	-	26 086	53 532
<u>Manufacture of building materials</u>				
Stone and marble slabs, thous.sq.m.	16	46	253	336
Bricks, millions, standard pattern	380	551	1 164	1 508
Roofing tiles, millions	170	190	219	344
Cement, thousand tons	894	1 313	2 518	3 232
Asbestos-cement products, thous.tons	27	30	92	170
Roofing felt, tons	7 024	15 649	27 102	42 083
<u>Manufacture of wood</u>				
Sawn wood, oak, thous.cu.m.	106	113	145	207
Sawn wood, beech, thousand cu.m.	170	260	579	904
Sawn wood, conifers, thous.cu.m.	1 542	1 609	1 796	1 539
Sawn railway sleepers, thous.cu.m.	57	67	27	31
Veneer, cu.m.	5 057	6 164	98 545	198 818
Flywood boards, cu.m.	13 354	13 966	68 867	107 477
Panel boards, cu.m.	2 961	7 657	51 272	41 081
Artificial slabs, thous.sq.m.	-	668	11 274	20 582
Utility furniture, thous.suites	14	50	247	401
Matches, cases /5000 boxes/	36 865	56 459	78 852	102 533
<u>Manufacture of paper and paper products</u>				
Wood pulp, mechanical, thous.tons	10	15	60	90
Cellulose, thousand tons	28	34	194	317
Newsprint, thousand tons	-	-	25	53
Writing and printing paper thous.tons	19	20	77	138
Cigarette paper, tons				

4.

	1939	1952	1962	1966
Other paper, thous.tons	13	18	64	126
Cardboard and paste board, thous.tons	13	13	51	84
<u>Manufacture of textiles</u>				
Cotton yarn, tons	18 947	25 909	68 595	92 543
Woollen yarn, tons	6 216	10 290	19 341	35 175
Hemp yarn, tons	3 159	3 937	11 105	19 533
Cotton fabrics, million sq.m.	110	112	312	416
Woollen fabrics, thous.sq.m.	12 443	19 983	43 383	56 540
Hoses and stockings, thous.pairs	23 401	22 635	41 754	67 421
Make-up underwear, thous.sq.m.	5 498	15 741	34 886	62 951
Make-up clothing, thous.sq.m.	1 360	9 027	24 208	41 009
Knitwear, tons	1 824	2 532	10 864	14 128
<u>Manufacture of leather and footwear</u>				
Sole leather, tons	7 600	8 150	9 798	8 916
Upper leather, thous.sq.m.	2 182	2 411	6 906	10 528
Pigskin, for fancy goods, thous sq.m.	221	432	526	369
Leather footwear, thous.pairs	4 208	5 756	18 635	30 206
Leather fancy goods, thous.sq.m.	254	484	896	1 379
<u>Manufacture of rubber products</u>				
Tyres, automobile, thousands	7,9	55	517	1 613
Rubber footwear, thous.pairs	5 154	7 875	14 492	17 069
<u>Food manufacturing industries</u>				
Paste products, tons	11 147	23 857	52 078	45 564
Canned vegetables, tons	876	2 148	28 047	52 063
Sausage products, tons	3 943	7 817	37 985	44 860
Canned meat, tons	1 328	1 845	35 688	44 539
Canned fish, tons	3 223	3 873	19 373	19 871
Sugar, thousand tons	108	58	227	334
Vegetable oil, thous, tons	21	19	73	104
Sweets, cocoa, candies, tons	4 786	8 637	37 545	62 393
Beer, thousand hectolitres	427	922	1 789	4 051
<u>Tobacco manufactures</u>				
Fermented tobacco, tons	16 525	24 369	15 295	48 781
Cigarettes, tons	6 373	12 243	22 455	28 493

7. ELECTRICITY AND FUEL CONSUMED IN
 MANUFACTURING, MINING AND QUARRYING
 /national definition of manufacturing, mining and
 quarrying/

	1952	1957	1962	1966
Electricity-million kWh	1 664	3 875	6 580	10 012
Anthracite thous.tons	66	98	128	142
Coke " "	509	1 052	1 337	1 336
Hard coal " "	261	1 546	1 821	1 906
Brown coal " "	3 570	5 243	6 098	6 562
Lignite " "	2 133	4 513	7 783	11 379
Mazout " "	-	168	226	898
Other liquid fuels thous.tons	87 ^{a/}	115	203	444

^{a/} Including mazout.

8. IMPORT OF BASIC INDUSTRIAL RAW MATERIALS
 AND MACHINERY
 quantity in tons

	1952		1966	
	quantity	value ^{3/}	quantity	value ^{3/}
Hard coal	57 671	1 015	1 836 034	26 555
Crude petroleum	316 352	7 440	2 202 197	32 500
Steel, obtained by stretching and rolling	43 799	10 027	173 006	24 409
Cotton	23 630	21 855	89 670	56 442
Wool	4 936	8 568	13 425	23 396
Raw-hide, big	8 111	4 269	26 667	14 629
Natural rubber	3 145	2 976	17 537	9 021
Machinery	73 863	91 346	176 874	349 472
Transport means	21 561	23 240	161 311	109 614

^{3/} In 1952 converted on the basis of parity 300 dinars = 1 U.S. Dollar, and in 1966, 1,250 dinars = 1 U.S. Dollar.

9. EXPORTS OF MANUFACTURED GOODS
quantity in tons

value in thousand dollars

	1 9 5 2		1 9 6 6	
	quantity	value ^{4/}	quantity	value ^{4/}
Total	2 423 631	144 647	6 267 893	993 964
Magnesite	14 604	564	103 012	6 096
Bauxite	612 716	4 856	1 479 250	10 341
Mercury	481	2 472	494	6 837
Lead	62 370	20 303	61 458	17 396
Ferro-alloys	4 795	1 637	31 066	6 113
Machinery and accessories	37	33	43 674	71 082
Rail and road vehicles	-	-	96 901	61 514
Vessels	3	1	156296	88 873
Cables and Wire	12	9	46 739	35 287
Electrotechnical supplies	138	76	30 768	42 650
Caustic and calcined soda	24 995	1 487	23 440	19 246
Calcium carbide	9 239	861	52 524	41 125
Cement	290 559	5 134	189 260	2 340
Sawn wood, conifer	247 443	17 585	139 056	10 896
Sawn hardwood	122 198	10 263	463 363	34 342
Wooden furniture	2 160	768	58 565	2 909
Veneer	1 424	457	11 511	5 883
Cellulose	4 870	1 676	44 404	6 414
Hemp and tow	8 406	3 579	7 160	3 544
Clothing	-	-	7 345	54 570
Footwear	-	-	6 948	37 709
Cotton fabrics	252	5 851	20 012	25 019
Canned meat	10	12	23 807	30 076
Canned fish	1 343	981	10 363	6 299

^{4/} In 1952 converted on the basis of parity 300 dinars = 1 U.S. Dollar, and in 1966 1,250 dinars = 1 U.S. Dollar.

10. PERSONS ENGAGED IN MANUFACTURING, MINING AND
 QUARRYING,
 thousands

/national definitions and classification/

	1952	1957	1962	1966
Total	562	856	1 165	1 358
Electric energy	14,1	23,4	33,5	36,0
Coal	73,2	92,5	81,5	81,1
Crude petroleum	5,3	7,2	7,5	12,2
Ferrous metallurgy	26,2	41,4	47,2	51,2
Non-ferrous metals	32,9	42,3	42,7	48,5
Non-metallic mineral ores	14,5	27,4	39,1	43,4
Manufacture of metals	89,0	137,0	202,1	248,0
Shipbuilding	13,7	17,1	20,9	20,8
Manufac.of elect.mach., appar., applian. & supplies	12,2	30,8	54,6	76,2
Manufacture of chemicals and chemical products	16,9	31,0	48,2	69,1
Building materials	33,7	56,1	68,3	64,7
Manufacture of wood	59,8	81,3	123,2	130,9
Paper	8,1	12,4	16,8	26,8
Textiles	74,1	115,6	170,7	213,4
Leather and footwear	16,3	23,5	34,3	43,2
Rubber	3,6	6,8	11,2	15,0
Food manufacturing industries	35,5	59,9	95,2	101,8
Printing, publishing and allied industries	11,2	19,8	37,4	42,6
Tobacco manufactures	11,6	20,9	14,9	19,9
Motion picture production	1,1	1,2	2,1	1,2
Other miscellaneous manufac. industries	2,8	3,7	7,3	7,2

11. EXPERT PERSONNEL IN MANUFACTURING, MINING AND QUARRYING WITH
 HIGH EDUCATIONAL ATTAINMENT
 (national definition of manufacturing, mining and
 quarrying)

Type of school	1952	1959	1962	1965
Total	4 758	9 366	14 797	22 302
Mining-Geology	361	694	1 059	1 370
Chemistry-Technology and Metallurgy		1 421	2 217	3 670
Mechanics	2 222	1 658	2 687	3 897
Electrotechnics		980	1 264	1 889
Other technical schools	212	701	632	785
Pharmacy, Medicine and Veterinary Science	...	205	461	594
Economics	586	1 359	2 729	4 567
Law	572	793	1 417	2 131
Other schools	805	1 555	2 331	3 399

12. CAPACITY OF POWER EQUIPMENT IN POWER PLANTS

	1951	1957	1962	1965
Prime movers - MW	324	1 702	3 001	3 728
in public power plants	546	1 356	2 588	3 315
in industrial power plants	278	346	413	413
Generators - MVA	942	2 097	3 656	4 510
in public power plants	643	1 683	3 134	3 959
in industrial power plants	299	414	522	551

Under capacity is shown nominal capacity indicated by the manufacturer.

13. CAPACITY OF POWER EQUIPMENT IN MANUFACTURING, MINING AND
 QUARRYING

(national classification and definition of manufacturing,
 mining and quarrying)

(in MW)

	1951	1957	1962	1965
Total	910	1 802	2 526	3 160
Coal	148	240	312	321
Crude petroleum	26	53	60	88
Ferrous metallurgy	97	225	331	395
Non-ferrous metallurgy	114	182	236	288
Non-metals	12	46	63	83
Manufacture of metals	(95)	243	335	458
Shipbuilding	(2,7)	43	58	58
Manuf.od elec.mach.,appar. applian. and supplies	11	39	60	75
Manufacture of chemicals	32	85	148	257
Building materials	72	143	182	203
Manufacture of wood	63	116	158	187
Paper	25	77	129	234
Textiles	83	117	175	222
Leather and footwear	18	30	44	52
Rubber	12	20	33	44
Food manufac.industries	91	127	162	143
Printing, publish.& allied ind.	4,2	10,1	14	19
Tobacco manufactures	3,0	5,1	7,3	11
Motion picture production	0,2	1,0	0,3	0,7
Other miscel.manuf.indus.	...	...	9,2	6,0

Source: Statistical Yearbook of SFRY 1966. Capacity of power equipment is nominal power of prime movers and electric motors. Power of electricity generating machines is excluded.

14. INVESTMENT IN MANUFACTURING, MINING AND QUARRYING
 (national definition of manufacturing, mining and
 quarrying)

million old dinars - current prices

	1952- 1956	1957- 1961	1962- 1966	1952- 1966
Total	957	1 301	3 202	5 460
Electricity	224	298	658	1 179
Coal	77	110	176	362
Crude petroleum	33	42	137	212
Ferrous metallurgy	155	52	413	619
Non-ferrous metallurgy	80	86	178	345
Non-metallic mineral ores	58	37	76	171
Manufacture of metals	63	104	304	470
Shipbuilding	6	14	29	4 ^a
Manufacture of electr.machin., apparatus, applian.& supplies	23	24	105	151
Manufac.of chemicals and chemical products	66	97	265	428
Building materials	10	42	75	127
Manufacture of wood	30	51	108	190
Manufacture of paper	25	50	154	228
Manufacture of textiles	37	94	199	329
Manufacture of leather and footwear	5	16	25	45
Manufacture of rubber	3	8	28	39
Food manufactur.industr.	46	104	145	294
Printing, publishing and allied industries	6	12	48	65
Tobacco manufactures	4	10	23	37
Motion picture production	1	3	1	5
Other and unclassified	9	49	59	164

15. INDUSTRIAL ENTERPRISES ACCORDING TO VALUE OF FIXED ASSETS IN 1965

national classification and definitions value data in million old dinars

	Total	Under 1,5 million old din.	1,5-5	5-15	15-50	50-150	150-500	500-1500	1500-5000	Over 5000 million old din.
Number of economic organiz.	2 466	16	18	39	181	453	717	530	312	200
Number of employed persons	1 368 475	106	281	913	12 319	56 170	176 910	272 284	346 851	502 641
Fixed assets at purchase value	48 760 60	10	60	3 70	62 40	446 50	209 650	450 610	838 430	3317 030
Fixed assets at present value	30 894 50	10	30	2 40	40 30	281 50	132 410	280 770	499 860	2134 960
Average total assets	51 149 20	30	370	15 50	170 70	720 60	318 230	620 090	974 300	3099 430
Average working assets	20 798 80	30	340	13 00	136 60	480 50	187 990	351 290	483 200	993 170
Invoiced realization	72 188 30	380	2280	48 40	439 70	2030 70	722 810	1310 980	1728 070	3202 240
Material costs	38 384 10	300	1000	25 70	208 40	997 30	366 580	720 940	946 960	1680 190
Value added	30 544 00	120	870	24 70	203 50	877 10	310 370	530 510	722 330	1370 670
Net-product	27 868 10	120	870	24 40	199 50	852 10	298 710	514 130	675 870	1189 500
Personal receipts /net/	9 093 50	100	450	11 50	77 30	317 70	103 630	170 100	221 570	372 860
Contributions out of personal receipts	5 616 90	50	190	5 30	43 00	191 80	64 530	104 310	139 020	231 390
Allocations to community	6 514 30	-50	70	2 60	34 00	158 70	59 250	123 340	166 030	283 250
Allocations for funds of enterpr.	6 352 20	10	160	4 90	43 00	172 40	61 730	112 020	143 780	290 090
Allocations for joint funds	291 10	0	10	20	2 20	11 50	4 180	4 350	7 280	119 10
Investment in fixed assets	6 244 80	0	10	70	30 40	7 890	36 020	84 370	115 060	378 020

Value of fixed assets, according to which this distribution has been drawn up, show the purchase value of fixed assets.

16. INDUSTRIAL ENTERPRISES ACCORDING TO VALUE OF NET-PRODUCT IN 1965

value data in million old dinars

national classification and definitions

	Total	Under 1,5 million old din.	1,5-5	5-15	15-50	50-150	150-500	500-1500	1500- 5000	Over 5000 million old din.
Number of economic organizations	2 466	9	7	14	112	405	810	646	366	96
Number of employed persons	1368 475	880	39	224	3 905	34 689	166 001	312 482	454 367	395 888
Fixed assets at purchase value	4876 060	2120	80	510	8 790	51 330	277 510	1026 480	1726 800	1782 450
Fixed assets at present value	3089 450	1590	60	310	6 960	32 970	183 450	715 980	1095 460	1052 650
Average total assets	5114 920	3210	90	600	8 490	57 070	334 930	1114 970	1751 330	1844 230
Average working assets	2079 880	1610	30	260	2 810	24 340	161 600	398 500	677 380	813 350
Invoiced realization	7218 830	6420	90	370	8 700	26 980	633 070	1474 230	2429 590	2569 390
Material costs	3839 410	6210	60	190	4 640	50 830	345 490	802 230	1256 450	1373 310
Value added	3054 400	- 170	30	170	3 970	43 690	255 760	611 140	1022 130	1117 670
Net-product	2786 810	- 270	30	150	3 680	41 130	241 900	563 340	932 380	1004 450
Personal receipts/net/contributions out of personal receipts	909 350	400	20	110	1 860	17 590	92 030	195 940	304 130	297 280
Allocations to community	561 690	230	10	60	1 090	10 470	56 390	121 010	187 670	184 770
Allocations for funds of enterpr.	651 430	30	00	20	620	6 800	43 450	114 060	212 030	274 440
Allocations for joint funds	63 520	- 850	- 10	- 10	210	5 910	47 790	126 390	217 560	238 230
Investment in fixed assets	29 110	- 70	-	- 20	- 90	370	2 230	5 950	11 000	9 740
	624 480	1090	-	30	2 580	10 290	42 720	119 620	206 040	242 120

17. INDUSTRIAL ENTERPRISES ACCORDING TO NUMBER OF EMPLOYED PERSONS IN 1965

national classification and definitions	value data in million old dinars						Over 2000 employed persons	
	Under 15 employed persons	16-20	30-50	61-125	126-250	501-1000		1001-2000
Total	55	56	171	407	547	343	216	123
Number of economic organiz.	2466							
Number of employed persons	516	1214	7979	37457	99062	192701	246873	303859
Fixed assets at purchase value	820	1870	44290	133500	459090	567280	760290	1061630
Fixed assets at present value	500	1110	33710	93850	330910	367670	498740	682600
Average total assets	1280	2340	43940	141680	448870	502280	822370	1109260
Average working assets	770	1300	11410	45700	122900	240650	319790	449230
Invoyced realization	3100	7020	39550	191720	498270	949450	1236890	1560170
Material costs	1480	3450	19990	94610	248940	497080	632630	841600
Value added	1540	3180	18910	83100	212300	388670	519130	663140
Net-product	1510	3090	17330	77880	194260	351620	480170	600650
Personal receipts /net/ of personal	900	1250	6110	24580	62830	119650	158480	198260
Contributions out of personal receipts	340	630	3430	14590	38410	73750	97700	122880
Allocations to community	80	370	2040	15320	41270	75470	110380	149280
Allocations for fund of enterpr.	170	800	4670	22480	49190	88290	108120	124050
Allocations for joint funds	0	50	280	910	2560	4470	5490	6130
Investment in fixed assets	70	400	9280	14930	58090	81120	79670	128060

Employed persons, according to which this distribution has been drawn up, show the average number of the employed in 1965.

1°. VALUE ADDED (SOCIAL PRODUCT) OF MANUFACTURING, MINING⁵⁾
in billion old dinars

- national classification and definitions -

	Total	Deprecia- tion	Personal receipts	Accumula- tion and funds	Material expendi- ture
1952	446	44	64	338	499
1953	491	51	67	364	534
1954	559	62	80	417	652
1955	631	72	98	510	763
1956	711	81	109	520	840
1957	901	74	153	574	1 036
1958	984	79	170	635	1 221
1959	1 050	89	221	741	1 434
1960	1 269	99	276	895	1 740
1961	1 424	124	344	956	1 986
1962	1 545	147	376	1 022	2 174
1963	1 855	187	447	1 220	2 603
1964	2 475	237	647	1 591	3 069
1965	3 049	267	908	1 874	3 949

5) At current prices.

Source: Statistical Yearbook of SFRY, 1966 and 1967.

19. FIXED ASSETS OF INDUSTRIAL ENTERPRISES
 (national definition of manufacturing, mining and quarrying)

current prices in billion old
dinars

	Fixed assets		Fixed	Working	Fixed
	total	equip-	assets	assets	capital
			under		forma-
			construc-		tion
			tion		
1962	3 515	1 884	281	1 322	473
1963	3 911	2 066	344	1 503	532
1964	4 377	2 350	446	1 727	671
1965	4 867	2 651	618	2 077	696

20. CLASSIFICATION OF INDUSTRIAL UNITS BY SIZE
 (definitions and classification of UNO)

Average number of persons engaged	Number of statisti- cal units	Average number of employees in thou- sands	Value added in million old din.	Capacity of power equipment in MW
Total	92 295	1 395	1 964 270	3 117
Under 4	86 854	104	76 614	1,8
5 - 9	358	2,4	2 703	4,0
10 - 19	534	7,4	8 791	10,1
20 - 49	1 008	33,3	37 660	49,5
50 - 99	977	70,7	84 089	117
100 - 199	1 036	147	183 895	241
200 - 499	920	298	389 128	560
500 - 999	355	251	378 472	574
1000 - 4999	246	439	718 130	1 294
Over 5000	7	52,7	84 789	266

An enterprise has been used as the basic statistical unit for the compilation of the above table. Exceptionally, data on large combined enterprises have been broken down into several statistical units, depending on industry of individual establishments. The number of employees covers the number of working proprietors.

21. BASIC DATA ON YUGOSLAV MANUFACTURING, MINING AND QUARRYING
1963 ACCORDING TO CLASSIFICATION AND DEFINITIONS OF UNO

	Number of statisti- cal units	Average number of employees	Capacity of power equipment thous.kWh	Value added mil.old din.
Total	92 295	1 308 881	3 116 892	1 964 270
Coal mining	67	72 848	290 354	78 676
Iron ore mining	5	3 385	21 393	7 010
Metal mining except iron ore mining	27	24 011	135 680	36 963
Crude petroleum and natural gas	3	3 657	28 064	29 283
Stone quarrying, clay and sand pits	1 864	26 327	50 296	20 749
Salt mining and quarrying	6	2 620	6 677	5 339
Non-metallic mining and quarrying not elsewhere classified	29	5 924	11 738	4 555
Slaughtering, preparation and preserving of meat	1 150	25 724	30 645	28 427
Manufacture of dairy products	40	3 755	5 640	4 413
Canning and preserving of fruits and vegetables	47	9 618	12 224	6 841
Canning and preserving of fish and other sea foods	21	6 509	3 232	4 007
Manufacture of grain mill products	7 763	18 811	62 352	30 591
Manufacture of bakery products	5 279	16 227	4 348	18 555
Sugar factories and refineries	13	8 193	76 384	19 476
Manufacture of cocoa, chocolate and sugar confectionery	332	7 015	6 841	8 623
Manufacture of miscellaneous food preparations	2 387	11 339	24 637	20 510
Distilling, rectifying and blending of spirits	31	3 132	4 401	8 726
Wine industries	2 111	288	508	1 987
Breweries and manufacturing of malt	27	4 395	13 733	10 817
Soft drinks and carbonated water industries	888	982	871	2 222

Source: "Yugoslav Industry 1963," Federal Institute for Statistics,
Statistical Bulletin 421.

21. BASIC DATA ON YUGOSLAV MANUFACTURING, MINING AND QUARRYING
1963 ACCORDING TO CLASSIFICATION AND DEFINITIONS OF UNO
(continued)

	Number of statistical units	Average number of employees	Capacity of power equipment thous.kWh	Value added mil. din.
Tobacco manufactures	76	19 410	0 151	77 159
Spinning, weaving and finishing textiles	1 458	108 386	165 205	131 900
Knitting mills	989	37 798	16 476	40 735
Cordage, rope and twine industries	646	1 793	2 087	2 631
Manufacture of textiles not elsewhere classified	6	1 477	1 901	1 759
Manufacture of footwear	6 569	29 839	13 534	32 068
Manufacture of wearing apparel	11 500	52 663	14 769	62 169
Manufacture of made-up textile goods except wearing apparel	1 464	5 605	2 516	5 071
Sawmills, planing and other wood mills	2 059	69 202	110 281	57 701
Wooden and cane containers and cane small are	1 070	3 110	2 651	3 495
Manufacture of cork and wood products	3 589	2 039	2 710	5 056
Manufacture of furniture and fixtures	9 026	70 759	32 074	59 101
Manufacture of pulp, paper and paperboard	22	12 523	151 192	37 763
Manufacture of articles of pulp, paper and paper board	113	5 740	4 849	7 125
Printing, publishing and allied industries	392	34 663	15 861	46 708
Tanneries and leather finishing plants	51	10 970	32 223	13 843
Manufacture of fur products except wearing apparel	159	203	137	345
Manuf. of leather products, except footwear & wearing apparel	1 988	5 316	2 122	6 042
Manufc. of rubber products	477	13 074	31 959	30 209
Basic industrial chemicals, including fertilizers	71	26 839	187 922	62 609

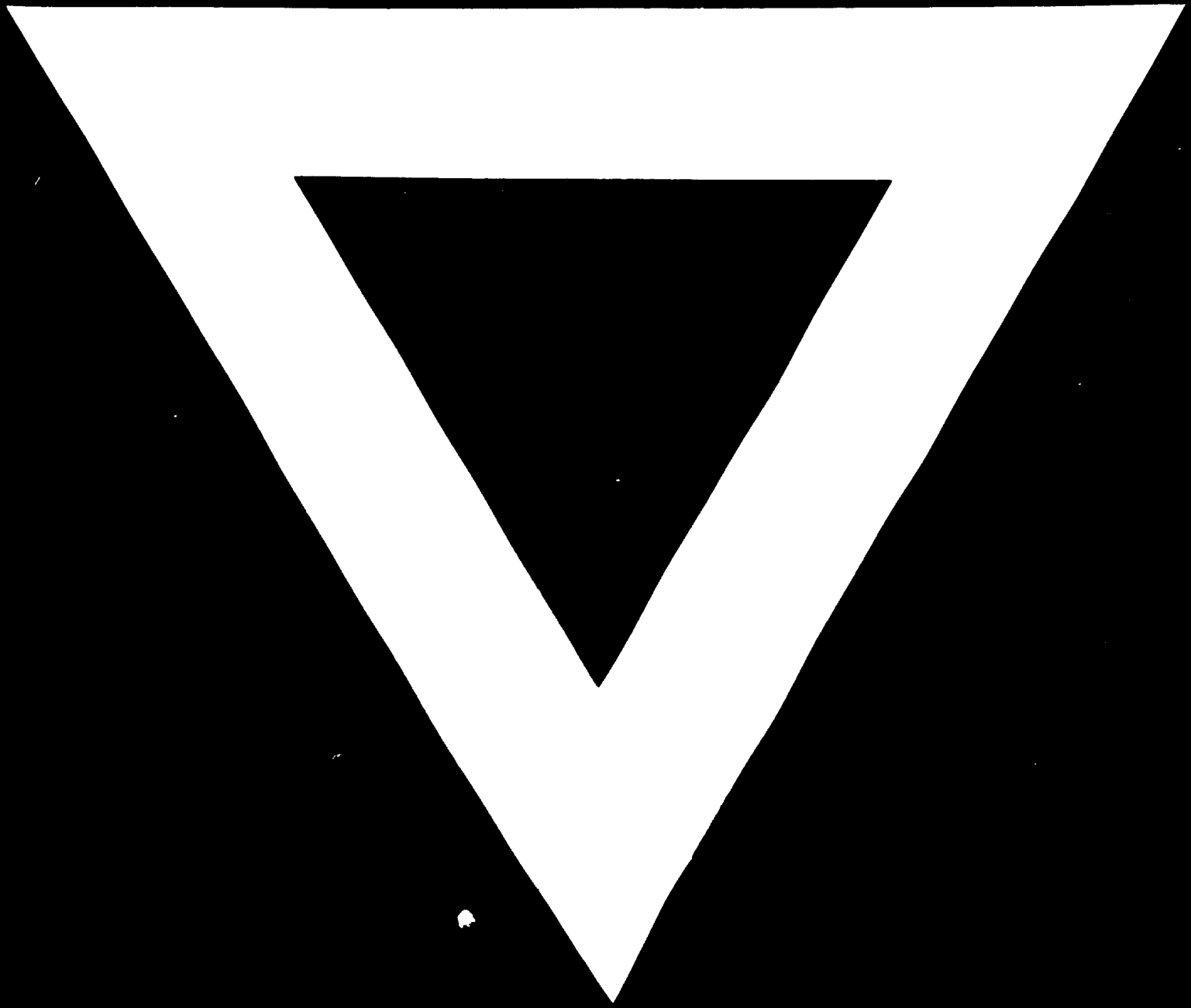
21. BASIC DATA ON YUGOSLAV MANUFACTURING, MINING AND QUARRYING
1963 ACCORDING TO CLASSIFICATION AND DEFINITIONS OF UNO

	Number of statisti- cal units	Average number of employees	Capacity of power equipment thous.kWh	Value added mil. old din.
Manufacture of paints, var- nishes and lacquers	15	2 909	7 208	13 099
Manufac.of miscellaneous chemical, products	261	17 599	21 134	43 313
Petroleum refineries	5	3 594	23 594	26 050
Manufac.of miscellaneous prod- ucts of petroleum & coal	2	2 742	21 752	4 550
Manufacture of structural clay products	717	33 984	84 339	30 290
Manufacture of glass and glass products	80	11 676	10 770	13 177
Manufacture of pettery, china and earthenware	645	7 308	12 886	8 243
Manufacture of cement	13	8 703	08 647	10 111
Manufacture of non-metallic mineral products not elsewhere classified	1 402	13 309	25 032	21 193
Iron and steel basic industries	13	31 172	313 169	54 882
Non-ferrous metal basic industries	20	15 684	103 362	46 041
Manufacture of metal products, except machinery	16 941	100 286	154 803	148 201
Manufacture of machinery, except electrical machinery	453	68 229	116 851	103 280
Manufacture of electrical machinery, apparatus, applian- ces and supplies	2 207	62 524	64 333	100 367
Ship building and repairing	91	21 540	62 852	31 785
Manufacture of railroad equipment	29	25 745	43 276	30 039
Manufacture of motor vehicles	31	41 619	38 964	76 764
Repair of motor vehicles	801	11 901	10 117	15 190
Manufacture of motorcycles and bicycles	3	6 515	14 091	10 290
Manufacture of measuring and other instruments	9	3 529	2 455	5 033
Manufacture of photographic and optical goods	3	1 956	1 386	4 792
Manufacture of watches and clocks	1	969	443	1 105
Manufacture of musical instruments	54	456	395	655

21. BASIC DATA ON YUGOSLAV MANUFACTURING, MINING AND QUARRYING
1963 ACCORDING TO CLASSIFICATION AND DEFINITIONS OF UNO
(continued)

	Number of statisti- cal units	Average number of employees	Capacity of power equipment thous.kWh	Value added mil. old din.
Manufacturing industries not elsewhere classified	3 623	19 960	14 101	20 494
Electric light and power	114	23 920	164 032	86 766
Gas manufacture	10	378	7 315	1 800





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