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Title: Genesis of a growth triangle in Southeast Asia : a study of economic connections between Singapore, Johor and the Riau Islands, 1870s – 1970s

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Appendix 1: Tables

*Appendix i. Population in Singapore in selected years, 1871-1970.
(thous.)*

Year	Chinese	Malays	Indians	Europeans Eurasians	Total
1871	55	26	12	5	97
1881	-	-	-	-	139
1891	-	-	-	-	185
1911	220	42	28	14	303
1921	315	54	32	17	418
1931	419	65	51	23	558
1937	455	70	52	26	603
1947	729	114	69	26	938
1950	789	124	72	30	1,015
1956	965	154	98	44	1,262
1966	1,427	276	157	54	1,914
1970	-	-	-	-	2,075

Note: 1881, 1891, 1931: census; the rest are estimates.

Source: 1871: Abshire, *The History*, 66; 1881-1937: ARSS (1881, 1891, 1911, 1921, 1931, 1937); 1947-1956: CSAR (1950, 1956); 1966: SYB (1966); 1970: YSS (1971/1972).

Appendix ii. Population in Johor in selected years, 1911-1971.
(thous.)

Year	Chinese	Malays	Indians	Europeans	Others	Total
1911	63	102	6	-	9	180
1921	-	-	-	-	-	199
1926	97	158	24	-	-	280
1931	-	-	-	-	-	505
1932	253	232	55	1	4	545
1938	308	312	84	1	5	710
1941	309	302	58	1	5	675
1947	-	-	-	-	-	738
1949	341	368	58	-	-	772
1957	-	-	-	-	-	927
1964	580	485	89	-	-	1179
1967	654	532	98	-	-	1317
1971	709	524	89	-	-	1328

Notes: 1967: census. The rest are estimates. Johor in 1926 estimates the population in 1926 at some 250,000 (an increase of some 100,000 since on the figures of 1911 census) which is contradicted by the total sum of the population of different ethnic groups. Thus here we revise it to 280,000.

Source: 1911, 1921, 1932, 1938: JAR (1911, 1921, 1932, 1938); 1926: Kirby, 'Johore', 253; 1931, 1941, 1947: Kratoska, *The Japanese Occupation*, 18-9; 1949: RRBDFM (1949); 1957: VSWM (1967); 1964-1971: RRBDFM (1964), ABSM (1964-1971).

Appendix iii. Estimated non-indigenous population in Riau, 1870-1971.

	1870	1880	1890	1900	1905	1910	1920	1930	1940	1966a	1966b	1971a	1971b
Malays (× 1000)	13	-	-	-	93	240	200/248	257	267	-	-	-	-
Chinese (× 1000)	18	23	-	14	18	-	23	39	-	-	-	-	-
Europeans	115	181	151	238	201	-	409	516	-	-	-	-	-
Other Asians	211	167	352	247	209	-	556	1186	-	-	-	-	-
Total (× 1000)	-	-	-	-	-	-	-	-	-	134	317	164	330
Territory	R, S, I				R, I					R, I	R	R, I	R

Note: Territory: R: the Riau Islands; I: Indragiri; S: Siak.

Source: 1870: RAN (1870); 1880-1930: CEI, vol. 11, table 16; 1910, 1940: Lindblad, *New Challenges*, 245, 251-2; 1966a, 1966b, 1971a: Lampiran (1971-1973); 1971b: Sensus Penduduk 1971.

Appendix iv. Trade of Singapore, 1870-1969.

(£ mill. in current prices)

Year	Import	Export	Year	Import	Export	Year	Import	Export
1870	8.7	5.8	1901	22.9	19.2	1932	39.2	31.4
1871	7.5	6.2	1902	21.6	18.3	1933	36.8	33.8
1872	9.0	7.7	1903	22.7	18.9	1934	44.6	38.7
1873	9.2	7.5	1904	23.7	19.3	1935	44.5	40.4
1874	9.0	7.2	1905	24.5	20.3	1936	48.5	42.7
1875	8.3	7.1	1906	27.4	23.6	1937	64.5	57.4
1876	8.2	6.8	1907	28.0	23.6	1938	46.9	39.6
1877	8.9	7.1	1908	24.7	21.1	1939	56.1	50.9
1878	8.3	6.4	1909	25.6	21.7	1946	73.2	54.5
1879	9.2	7.7	1910	30.0	25.7	1947	151.7	116.7
1880	10.3	8.7	1911	31.6	26.5	1949	211.2	169.8
1881	12.3	10.2	1912	35.2	28.2	1950	381.9	353.1
1882	12.7	10.0	1913	38.3	29.9	1951	586.6	553.7
1883	13.1	11.3	1914	32.3	26.6	1952	437.6	373.4
1884	13.7	10.7	1915	39.4	35.5	1953	352.5	309.7
1885	12.2	9.2	1916	50.3	44.1	1954	353.0	313.4
1886	11.4	8.7	1917	61.6	57.4	1955	450.8	393.1
1887	12.7	10.6	1918	67.2	58.0	1956	458.5	400.1
1888	14.8	13.8	1919	84.8	84.0	1957	477.5	405.8
1889	15.9	14.7	1920	103.9	84.5	1958	436.4	366.4
1890	16.9	13.5	1921	56.6	48.5	1959	456.0	401.4
1891	15.0	12.7	1922	53.3	48.4	1960	475.8	405.7
1892	14.0	12.1	1923	67.7	59.9	1961	462.4	386.1
1893	13.9	12.0	1924	74.3	64.3	1962	470.9	398.7
1894	14.3	12.2	1925	116.9	105.0	1963	499.3	405.5
1895	14.6	12.2	1926	116.3	102.1	1964	406.0	323.5
1896	14.9	12.5	1927	108.6	92.4	1965	444.2	350.5
1897	15.2	12.7	1928	90.5	76.2	1966	474.4	393.7
1898	16.6	13.7	1929	94.5	76.9	1967	514.2	407.4
1899	19.4	16.5	1930	73.0	61.4	1968	694.5	531.6
1900	23.1	19.0	1931	45.9	38.0	1969	853.0	647.7

Source: 1870-1939: ARSS (1870-1940); 1946-1966: SYB (1946-1966), CSAR (1950-1960);
 1967-1969: YSS (1967-1972).

Appendix v. Structure of import and export of Singapore, 1870-1910.

(£ thous. in current prices)

	Pepper		Gambir		Rattan		Fish		Tin	
	Import	Export	Import	Export	Import	Export	Import	Export	Import	Export
1870	191	313	224	397	101	112	14	8	-	-
1875	400	588	440	803	119	114	126	86	-	-
1880	261	409	438	638	158	305	196	215	-	-
1885	722	699	670	641	223	302	399	269	-	-
1890	816	1,005	904	1,028	384	431	596	409	319	1,848
1895	332	376	753	874	309	363	525	496	973	2,065
1900	633	621	604	682	556	680	622	645	2,914	3,526
1905	880	860	592	627	386	463	840	787	2,709	3,988
1910	591	760	614	665	367	454	1,011	896	3,179	4,041
	Copra		Gutta-percha		Rice and opium		Cotton goods			
	Import	Export	Import	Export	Import	Export	Import	Export		
1870	-	-	354	436	1,084	733	1,690	1,101		
1875	-	-	95	78	1,676	1,286	1,212	892		
1880	47	94	313	299	1,996	1,633	1,393	1,056		
1885	235	212	246	388	1,808	1,383	1,318	821		
1890	160	227	708	834	2,684	1,896	1,499	896		
1895	300	335	236	330	2,292	1,853	762	581		
1900	425	374	1,013	1,465	3,395	2,612	1,182	872		
1905	708	625	207	283	3,585	3,030	1,348	882		
1910	1,496	1,586	260	576	5,118	4,074	1,340	788		

Source: ARSS (1870-1910); Chiang Hai Ding, *A History*, 196-7.

Appendix vi. Export of major commodities from Singapore, 1911-1970.**(£ thous. in current prices)**

	Tin	Rubber	Copra	Canned Pineapple	Palm oil	Petroleum	Rice	Manufactured goods
1911	4,828	1,451	-	289	-	55	3,456	-
1915	6,415	6,376	-	366	-	141	4,939	-
1920	8,225	27,131	-	838	-	228	3,406	-
1925	8,466	47,356	-	865	-	8,300	5,276	-
1929	8,933	21,423	-	1,019	-	5,775	-	-
1934	5,290	14,474	-	697	121	5,210	692	-
1939	8,113	20,859	-	1,035	-	6,133	992	-
1946	64	30,838	44	-	343	821	26	-
1950	24,176	163,976	8,016	1,289	2,595	18,749	925	-
1953	20,104	87,604	-	2,077	2,067	39,858	3,292	-
1956	16,179	141,955	1,937	3,389	2,420	52,070	3,433	-
1960	6,022	166,454	3,547	2,946	2,778	32,580	7,260	104,158
1964	701	75,242	-	4,332	2,908	42,196	2,908	128,763
1967	617	88,105	-	5,281	4,545	78,818	4,545	153,630
1970	269	95	158,800	-	6,936	11,842	111,756	11,842

Source: 1911-1939: ARSS (1911-1940); 1946: SYB (1946), ARFM (1949); 1950-1960: CSAR (1950-1960); 1960-1970: ABSM (1964-1968), CSAR (1965-1966), SYB (1966) , TDAR (1969), YSS (1967-1972).

Appendix vii. Imports and exports of Johor, 1870-1938.

(£ thous. in current prices)

	Import	Export	Less re-export
1870	-	225	-
1875	-	394	-
1880	-	317	-
1886	501	726	-
1891	478	765	-
1896	382	688	-
1897	352	604	-
1898	353	599	-
1899	332	718	-
1901	546	1,093	-
1906	446	1,031	-
1911	615	1,025	-
1912	-	1,461	-
1913	1,086	1,658	-
1914	1,014	1,929	-
1915	1,069	3,374	-
1916	1,487	4,881	-
1917	2,030	5,757	-
1918	2,272	5,084	17
1919	3,445	8,317	26
1920	5,003	8,015	22
1924	3,931	5,656	41
1925	5,820	13,794	58
1927	4,600	10,305	106
1928	4,376	7,623	153
1929	5,294	11,576	242
1930	5,499	6,968	156
1931	3,436	4,083	153
1932	2,545	3,457	111
1933	2,633	4,199	198
1937	5,518	12,383	334
1938	5,062	7,323	179

Source: 1870-1911: Courtenay, *Trade*, 228; 1911-1938: JAR (1911-1939).

Appendix viii. Major exports of Johor, 1870-1938.**(£ thous. in current prices)**

	Gambir	Pepper	Areca nuts	Copra	Tapioca	Rubber
1870	139	86	-	-	-	-
1875	250	144	-	-	-	-
1880	225	92	-	-	-	-
1885	324	237	-	-	-	-
1890	472	376	-	-	-	-
1903	340	244	-	-	-	-
1910	210	117	140	111	63	175
1912	222	-	187	169	42	525
1913	177	163	170	241	39	758
1918	177	29	208	273	176	3,533
1920	83	24	433	854	238	5,523
1927	27	2	146	642	62	8,061
1930	22	0	155	605	94	4,581
1938	7	-	246	313	30	5,180
	Canned pineapple	Tin ore	Iron ore	Bauxite	Timber	Fish
1912	-	42	-	-	35	18
1913	-	62	-	-	22	14
1918	-	491	-	-	78	-
1920	-	466	-	-	69	24
1927	523	275	239	-	151	-
1930	590	74	425	-	100	12
1938	385	199	321	33	-	-

Source: JAR (1911-1939).

*Appendix ix. Malaya external trade, 1947-1968.**(£ mill. in current prices)*

	Exports	Imports	M export to S	M import from S
1947	97	73	-	-
1948	130	101	57	43
1949	137	109	65	47
1950	304	154	-	-
1951	394	218	-	-
1952	249	194	-	-
1953	186	169	79	65
1954	190	154	-	-
1955	277	180	-	-
1956	264	204	97	81
1957	254	212	-	-
1958	220	193	-	-
1959	289	203	-	-
1960	341	251	99	98
1961	306	260	-	-
1962	306	286	-	-
1963	312	294	-	-
1964	324	294	89	38
1965	361	304	105	43
1966	363	307	111	46
1967	339	300	99	37
1968	446	444	116	40

Source: ARMD (1947-1970), ARFM (1949), ASTSIJB (1963-1966), ABSM (1964-1973), VSWM (1967).

Appendix x. Major exports of Johor, 1949-1970, volume or value (in current prices).

	Rubber lb mill.	Palm oil ton thous.	Canned pineapple £ thous.	Tin ore pkl. thous.	Iron ore ton thous.	Bauxite ton thous.	£ thous.
1949	-	-	736	19	-	-	-
1954	-	-	-	-	-	166	-
1958	-	-	-	-	-	262	-
1961	-	-	-	-	-	410	63
1963	-	-	-	30	506	444	51
1966	-	-	-	57	675	940	123
1968	833	103	-	-	-	786	132
1970	978	168	6,000	-	-	-	-

Source: ARMD (1947-1970), ARFM (1949), ASTSIJB (1963-1966), ABSM (1964-1973), VSWM (1967), RSH (1968-1972), OCTS (1968-1972).

*Appendix xi. Imports and exports of Riau Archipelago, 1868-1938.**(£ thous. in current prices)*

Year	Imports	Exports									
1868	162	233	1901	73	113	1917	643	4,167	1925	674	825
1871	174	242	1902	88	143	1918	933	3,475	1926	924	743
1879	262	446	1903	107	254	1919	1,326	7,508	1927	609	583
1883	168	341	1904	130	249	1920	1,159	6,590	1928	804	678
1885	147	420	1905	98	243	1913	460	2,155	1929	787	1,003
1890	309	482	1906	101	194	1914	506	3,007	1930	602	813
1891	246	344	1907	93	246	1915	343	2,861	1931	322	407
1892	155	286	1908	150	182	1916	413	4,238	1932	193	311
1893	127	227	1909	123	250	1917	643	4,167	1933	126	281
1894	111	213	1910	187	354	1918	933	3,475	1934	113	376
1895	102	232	1911	226	578	1919	1,326	7,508	1935	152	422
1896	79	224	1912	340	891	1920	1,159	6,590	1936	223	712
1897	202	200	1913	460	2,155	1921	1,972	5,428	1937	398	1,325
1898	104	187	1914	506	3,007	1922	1,617	6,565	1938	599	868
1899	107	190	1915	343	2,861	1923	526	282	-	-	-
1900	80	113	1916	413	4,238	1924	587	764	-	-	-

Note: 1911-1922: imports and exports both include oil products.

Source: SHS (1868-1925), JN (1925-1942), MCKS (1925-1940).

Appendix xii. Imports and exports of Indonesia, 1951-1971.*(Rp. mill. in current prices)*

	Import	Export	Interinsular import
1951	3,383	4,918	-
1952	10,855	10,664	-
1954	8,739	9,609	-
1954	7,216	9,928	-
1955	7,264	10,830	-
1956	9,813	10,606	12,046
1957	9,217	11,016	15,341
1958	6,244	9,154	20,501
1959	5,500	10,732	25,608
1960	26,001	37,835	38,013
1961	35,732	35,468	48,555
1962	29,120	30,675	80,439
1963	23,488	31,337	-
1964	28,086	32,589	-
1965	32,321	31,795	-
1966	-	30,732	-
1967	-	30,129	-
1968	-	33,086	-
1969	-	38,656	-
1970	-	52,552	-
1971	-	55,405	-

Source: SI (1951-1971).***Appendix xiii. Registered oil products export from Pulau Sambu, 1911-1916.****(£ thous. in current prices)*

Year	Value	Year	Value
1911	174	1917	3,828
1912	393	1918	3,015
1913	1,787	1919	6,840
1914	2,468	1920	4,440
1915	2,446	1921	4,880
1916	3,991	1922	6,028

Source: MCKS (1911-1916).

Appendix xiv. Major imports into Riau Archipelago, 1866-1938.
(£ thous. in current prices)

	Rice	Clothes and textiles	Machines, iron	Tobacco, opium	Other (including oil products)
1866	91	12	-	-	10
1883	94	3	-	43	29
1895	40	4	-	37	20
1900	28	2	-	27	24
1905	39	1	-	28	30
1911	72	3	1	-	149
1918	387	3	1	6	535
1925	140	5	1	43	485
1928	-	-	-	-	-
1930	278	32	23	47	223
1934	74	10	9	15	6
1938	75	8	197	42	279

Source: SHS (1868-1925), JN (1925-1942), MCKS (1925-1940).

Appendix xv. Major exports from Riau Archipelago (excluding oil products), 1866-1909.
 (£ thous. in current prices)

	Gambir	Pepper	Getah pertjah	Copra	Rottan	Fish	Sago	Wood
1866	133	78	-	-	0	1	-	-
1879	271	150	0	-	0	-	5	-
1885	180	209	0	-	3	6	28	-
1890	213	188	-	-	12	1	39	-
1895	164	51	2	0	10	1	3	0
1900	83	23		0	10	1	4	-
1905	175	27	1	1	-	2	16	-
1909	99	19	26	62	-	-	34	2
<hr/>								
	Tin	Bauxite	Rottan	Fish	Penang-nuts	Sago		
1911	-	-	-	3	-	27		
1915	-	-	-	28	-	31		
1920	122	-	-	15	-	77		
1924	-	-	-	6	13	149		
1927	-	-	-	55	1	57		
1929	205	-	-	120	1	46		
1933	57	-	4	29	3	-		
1938	188	-	-	36	5	20		
1973*	562	2650	19	95	-	-		
	Wood	Gambir	Getah Percha	Pepper	Copra	Rubber		
1911	-	154	1	25	182	-		
1915	2	91	-	6	251	1		
1920	-	116	-	1	345	1,448		
1924	-	145	-	-	325	117		
1927	3	27	-	-	164	231		
1929	24	35	-	-	191	288		
1933	-	-	-	-	333	104		
1938	32	41	-	-	103	183		
1973*	10,979**	-	-	-	319	7,719		

Note: * The Riau Province ** Wood, charcoal.

Source: SHS (1868-1925), JN (1925-1942), MCKS (1925-1940), Lampiran (1973).

Appendix xvi. Interinsular trade of Riau Islands, 1957-1962.
(Rp. mill. in current prices)

Export from the Riau Islands to other places						
	1957	1958	1959	1960	1961	1962
West Java	5.2	11.2	19.2	9.1	12.2	20.9
Central Java	3.8	20.4	20.6	12.6	1.5	1.
East Java	1.6	0.3	-	4.1	14.8	14.1
North Sumatra	0.1	-	-	0.1	-	-
Central Sumatra	0.4	6.2	7.1	3.2	2.9	3.3
South Sumatra	44.1	2.4	20.3	3.1	2.7	14.7
West Kalimantan	1.1	2.3	4.7	2.9	1.9	3.2
Central Kalimantan	-	-	0.1	-	-	-
South Sulawesi	-	-	-	-	0.1	0.5
Nusa Tenggara	-	-	-	-	-	-
Total	56.3	42.8	72	35.1	36.3	57.7
Import from other places to the Riau Islands						
	1957	1958	1959	1960	1961	1962
West Java	5.4	18	8.2	13.4	16.1	30.1
Central Java	2.8	2.2	0.3	-	1.2	-
East Java	0.1	0.1	0.6	0.1	0.7	-
North Sumatra	-	0.1	-	-	0.1	-
Central Sumatra	2.1	4.3	1.2	9.1	4.9	13
South Sumatra	3.8	0.8	0.5	0.3	1.1	1.1
West Kalimantan	1.6	3.2	5	7.1	2	2.9
Central Kalimantan	-	-	-	0.6	0.2	0.7
South Sulawesi	-	-	-	-	-	0.1
Nusa Tenggara	15.8	28.7	15.8	30.6	26.3	47.9
Total	31.6	57.4	31.6	61.2	52.6	95.8

Source: SI (1957-1962).

Appendix xvii. Exports by principal ports in Indonesia, 1963-1971.

(£ mill. in current prices)

	1963	1964	1965	1966	1967
Java and Madura	33.3	39.6	31.4	41.6	31.4
Sumatra	183.1	186.0	192.7	166.9	179.2
Tanjung Pinang	1.5	1.3	0.4	0.5	0.7
Indonesia	249.3	258.6	252.8	242.4	237.6
	1968	1969	1970	1971	
Java and Madura	35.5	30.3	48.0	63.8	
Sumatra	226.2	277.9	359.5	351.5	
Tanjung Pinang	1.6	2.2	2.9	0.8	
Indonesia	304.5	355.7	483.6	509.8	

Source: SI (1963-1971), RdA (1975).

Appendix xviii. Vessels entering into and departing from Singapore, 1870-1907.

Year	Entrance				Clearance			
	Rigged vessels and steamers		Indigenous craft		Rigged vessels and steamers		Indigenous craft	
	No.	1000 n.r.t.	No.	1000 n.r.t.	No.	1000 n.r.t.	No.	1000 n.r.t.
1870	1,604	668	2455	78	1,557	626	2,763	78
1871	1,678	819	2376	83	1,689	680	3,348	81
1875	2,261	1,284	3171	84	2,348	1,003	3,462	83
1876	2,149	1,454	3716	94	2,182	1,428	3,718	103
1877	2,168	1,457	-	-	-	-	-	-
1880	2,120	1,893	a	B	2,309	1,802	a	B
1881	2,443	1,821	a-185	b-12	2,418	1,790	a-86	b-7
1884	8,272	2,451	-	-	8,222	2,402	-	-
1885	8,539	2,703	-	-	8,532	2,652	-	-
1886	8,796	2,739	-	-	8,802	2,687	-	-
1889	3,867	3,066	6,619	255	3,848	3,048	6,619	255
1890	3,646	2,990	5,546	209	3,621	2,956	5,515	213
1891	4,184	3,325	7,293	261	4,155	3,289	7,188	259
1904	-	12,332/2	-	-	12,332/2	-	-	-
1905	-	12,764/2	-	-	12,764/2	-	-	-
1906	-	13,334/2	-	-	13,334/2	-	-	-
1907	-	13,580/2	-	-	13,580/2	-	-	-

Note: 1884-1886: all vessels; After 1891, 'indigenous craft' also includes 'steamer under 50 n.r.t.'

Source: ARSS (1870-1907).

*Appendix xix. Total tonnage of vessels entering into and clearing out from Singapore, 1875-1918.
(thous. n.r.t.)*

Year	Country	British	German	Dutch	Other European countries*	Asian countries**	Other countries***
1875	Tons	1,510	-	-	-	-	-
	Percentage	64	-	-	-	-	-
1898	Tons	5,193	-	-	-	-	-
	Percentage	63	-	-	-	-	-
1905	Tons	7,746	1,829	1,235	1,825	116	271
	Percentage	61	14	10	12	1	2
1910	Tons	7,809	2,001	1,671	1,763	1,274***	191
	Percentage	53	14	11	12	9	1
1918	Tons	3,349	-	1,702	807	3,404****	145
	Percentage	36	-	18	9	36	2

Note: * including Denmark, France, Italy, Norway, Sweden, Russia, Portugal and Spain; ** including China, Japan, Sarawak and Siam; *** including the USA and Australia; **** only Japan: 1,041; ***** only Japan, 2,769.

Source: 1898: Great Britain, Trade. Others: ARSS (1875, 1905, 1910, 1918).

Appendix xx. Merchant vessels clearing out from Singapore, 1900-1975.

Year	All vessels		Vessels of 50 n.r.t. and over (1900-1930)		Year	All vessels		Vessels of 75 n.r.t. and over (1930-1975)	
	1000 n.r.t.	No.	1000 n.r.t.	1000 n.r.t.		1000 n.r.t.	No.	1000 n.r.t.	1000 n.r.t.
1900	5,392	4,649	4,834		1931	15,291	7,020	14,599	
1901	6,008	4,924	5,454		1932	15,013	6,725	14,375	
1902	6,264	5,086	5,693		1933	14,800	6,428	14,214	
1903	6,607	5,290	5,994		1934	15,522	6,814	14,897	
1904	6,743	5,429	6,156		1935	15,754	6,796	15,116	
1905	6,984	5,268	6,402		1936	15,849	6,534	15,187	
1906	7,215	5,281	6,662		1937	17,096	6,761	16,397	
1907	7,324	5,161	6,784		1938	16,330	6,474	15,631	
1908	7,461	5,161	6,948		1939	16,494	6,455	15,809	
1909	7,503	5,320	7,069		1949	29,925/2	-	-	
1910	7,897	5,341	7,419		1950	30,905/2	-	-	
1911	8,258	5,761	7,718		1951	35,406/2	-	-	
1912	8,738	5,957	8,221		1952	21,150	7,995	20,312	
1913	9,205	6,084	8,618		1953	23,020	8,708	22,267	
1914	8,690	5,962	7,994		1954	24,566	9,444	24,012	
1915	7,768	5,821	6,964		1955	26,541	9,979	26,025	
1916	7,401	5,774	6,612		1956	30,035	10,702	29,556	
1917	6,173	5,326	5,362		1958	32,505	10,755	32,065	
1918	5,509	4,752	4,696		1959	33,291	10,712	32,879	
1919	7,922	5,615	7,024		1960	34,923	10,842	34,449	
1920	9,443	5,772	8,562		1961	38,395	10,883	37,919	
1921	9,793	5,699	8,972		1962	41,912	11,104	41,405	
1922	9,875	5,868	9,142		1963	41,485	11,597	41,085	
1923	11,040	6,243	10,258		1964	40,854	10,296	40,670	
1924	11,798	6,488	10,946		1965	44,523	10,934	44,325	
1925	12,828	7,136	11,990		1966	50,892	12,188	50,676	
1926	13,671	7,996	12,852		1967	57,823	13,718	57,535	
1927	14,483	8,982	13,634		1968	63,338	15,524	63,037	
1928	15,563	9,705	14,697		1969	64,884	16,978	64,535	
1929	16,460	9,768	15,579		1970	74,690	19,019	74,277	
1930	16,606	9,112	15,920		1971	78,317	19,681	77,648	

Source: 1910-1939: ARSS (1910-1940); 1947-1951: SYB (1966); 1952-1971: Huff, *The Economic Growth, 398-9.*

Appendix xxi. Entrance and clearance of ships in Singapore, 1961-1971.

Year	Vessels > 75 n.r.t				Vessels < 75 n.r.t and native crafts			
	Entered		Cleared		Entered		Cleared	
	No.	1000 n.r.t	No.	1000 n.r.t	No.	1000 n.r.t	No.	1000 n.r.t
1961	11,553	38,104	11,526	37,977	8,662	473	8,740	476
1962	11,812	41,577	11,775	41,466	8,617	452	9,051	507
1963	11,653	41,125	11,597	41,085	7,668	377	7,768	399
1964	10,326	40,820	10,296	40,670	7,701	192	7,682	185
1965	10,928	44,454	10,934	44,324	1,612	198	1,600	198
1966	12,230	50,817	12,188	50,676	15,399	220	15,330	216
1967	13,811	57,758	13,718	57,535	24,390	288	24,401	288
1968	15,614	63,437	15,524	63,037	17,578	305	17,556	301
1969	16,634	63,901	16,568	63,711	15,900	341	15,973	349
1970	18,422	73,847	18,269	73,037	15,646	427	15,659	462
1971	19,073	77,362	18,723	76,449	15,936	630	15,694	670

Source: YSS (1971/1972).

Appendix xxii. Ships over 75 net tons by nationality entering into and clearing out from Singapore, 1959-1970.

Year	Nations	Number of ships	+ or - on last year totals	Aggregate net tonnage	+ or - on last year totals
1959	Indonesian	1161	+150	351,252	+62,257
	Total	21,436		65,851,240	
1965	Indonesian				
	Malaysian	559		441,057	
	Singapore	1,021		486,202	
	Total	21,682		88,778,811	
1966	Indonesia	42	+ 42	32,939	+ 32,939
	Malaysia	702	+ 143	382,832	- 58,225
	Total	24,418	+ 2,556	101,493,470	+ 12,714,659
1970	Indonesian	4,731	+406	2,049,716	+11,234
	Malaysian	902	-51	423,574	+ 37,003
	Singapore	3,171	+764	3,491,991	+868,866
	Total	38,066	+4,017	148,724,539	+19,425,904

Note: Before 1965, figures for Malaysia and Singapore were included in the total of British ships.

Source: ARMD (1959, 1966, 1970), SYB (1966).

Appendix xxiii. Cargo discharged and loaded at Singapore, vessels of all tonnages at 'roads' and wharves, 1954-1955.
(thous. freight tons)

Year	Region	Direct				Transhipment			
		Discharged		Loaded		Discharged		Loaded	
		General	Mineral oil in bulk	General	Mineral oil in bulk	General	Mineral oil in bulk	General	Mineral oil in bulk
Sep, 1954	The Riau Islands	17.79	40.5	5.74	7.72	0.06	-	0.98	-
	The Riau Islands, vessels > 75 n.r.t.	5.11	40.5	0.28	7.72	0.06	-	0.97	-
	Sumatra	35.74	195.48	3.66	12.59	10.32	-	-	-
	Indonesia	76.49	333.09	15.04	22.79	23.78	-	9.54	-
Oct, 1954	The Riau Islands	19.1	-	5.87	-	0.04	-	0.83	-
	The Riau Islands, vessels > 75 n.r.t.	6.43	-	0.26	-	0.04	-	0.83	-
	Sumatra	35.41	154.57	5.37	12.46	-	-	6.19	-
	Indonesia	78.5	211.37	17.02	12.46	17.27	-	10.3	-
Aug, 1955	The Riau Islands	16.59	18.48	9.78	9	0.81	-	1.25	-
	The Riau Islands, vessels > 75 n.r.t.	3.69	18.48	2.99	9	0.74	-	1.25	-
	Sumatra	17.42	190.6	6.8	69.48	11.4	-	7.53	-
	Indonesia	59.54	284.89	22.83	98.45	24.03	-	13.25	-
Oct, 1959	The Riau Islands	11.65	-	4.69	-	-	-	-	-
	The Riau Islands,	2.47	-	0.26	-	-	-	-	-

Year	Region	Direct				Transhipment			
		Discharged		Loaded		Discharged		Loaded	
		General	Mineral oil in bulk	General	Mineral oil in bulk	General	Mineral oil in bulk	General	Mineral oil in bulk
vessels > 75 n.r.t.									
	Sumatra	32.54	211.48	4.28	8.34	10.28	-	7.41	-
	Indonesia	71.41	235.99	15.28	19.82	18.65	-	13.24	-
Jun, 1960	The Riau Islands	8.82	-	4.07	-	-	-	-	-
	The Riau Islands, vessels > 75 n.r.t.	1.38	-	0.1	-	-	-	-	-
	Sumatra	20.85	111.31	5.98	1.53	6.85	-	4.64	-
	Indonesia	53.69	176.15	16.54	19.84	14.25	-	11.36	-
Sep, 1960	The Riau Islands	11.54	1.39	5.51	0.27	-	-	-	-
	The Riau Islands, vessels > 75 n.r.t.	3.52	1.39	0.03	0.27	-	-	-	-
	Sumatra	23.91	119.48	6.31	40.64	8.17	-	5.84	-
	Indonesia	57.95	181.52	17.07	56.23	10.62	-	12.07	-

Note: Sumatra refers to mainland Sumatra Island, not including the Riau Islands, and Banka and Billiton.

Source: MSMDESS (1955-1960).

Appendix xxiv. Vessels > 75 n.r.t. arriving and departing in Malaya, Singapore and Peninsular Malaysia, 1938-1969.
(thous. n.r.t.)

	Malaya - entered	Malaya - cleared	Singapore - entered	Singapore - cleared	West Malaysia - entered	West Malaysia - cleared
1938	16,313	16,346	15,336	15,348	-	-
1947	9,612	9,888	9,204	9,372	-	-
1948	11,592	11,952	10,836	10,896	-	-
1949	15,480	15,228	14,208	14,052	-	-
1950	15,852	15,384	14,616	14,520	-	-
1951	18,876	18,516	16,884	16,716	-	-
1952	22,020	21,612	20,280	20,196	-	-
1953	23,088	22,764	22,332	22,140	-	-
1954	24,400	24,092	-	-	-	-
1955	26,320	26,044	-	-	-	-
1956	29,376	28,862	-	-	-	-
1957	33,184	32,854	-	-	-	-
1958	32,051	31,548	-	-	-	-
1959	32,872	32,006	-	32,879	-	-
1960	-	-	34,458	34,449	-	-

	Malaya - entered	Malaya - cleared	Singapore - entered	Singapore - cleared	West Malaysia - entered	West Malaysia - cleared
1961	-	-	38,104	37,977	-	-
1962	-	-	41,577	41,466	-	-
1963	-	-	41,125	41,085	18,043	17,919
1964	-	-	40,820	40,670	19,439	19,311
1965	-	-	44,454	44,324	20,959	20,745
1966	-	-	50,817	50,676	21,508	21,383
1967	-	-	57,758	57,535	22,075	22,043
1968	-	-	63,437	63,037	21,674	22,698
1969	-	-	63,901	63,711	-	-
1970	-	-	73,847	73,037	-	-
1971	-	-	77,362	76,449	-	-

Source: ARSS (1938), CSAR (1946-1947, 1950-1960), MSMDESS (1955-1960), ABSM (1964-1968), YSS (1967-1972).

Appendix xxv. Total number and tonnage of vessels at all ports of Johor, 1919-1932.
(ton)

Year	Pattern of vessel	Entered		Cleared	
		Number	Tonnage	Number	Tonnage
1919*	Ocean-going steamers		89,205		
	Coasting steamers		13,932		
1920**	Ocean-going steamers		106,675		
	Coasting steamers		17,532		
1924	-	-	401,878	-	403,245
1925	-	-	510,835	-	511,928
1926	-	-	544,670	-	539,487
1927	-	-	576,112	-	574,713
1928	Ocean-going steamers	108	349,880	108	349,880
	Coasting steamers	5,296	196,431	5,302	196,748
	Sailing vessels	12,406	190,816	12,306	185,657

Year	Pattern of vessel	Entered		Cleared	
		Number	Tonnage	Number	Tonnage
	Japanese steamers**				584,588
1929	-	-	776,772	-	776,995
	Japanese steamers	113	-	113	-
1930	Ocean-going steamers	118	384,039	118	384,039
	Coasting steamers	5,252	201,366	5,252	201,366
	Sailing vessels	839	163,601	8,747	166,872
	Japanese steamers	118		118	
1931	-	-	619,715	-	625,958
	Ocean-going steamers	90	302,348	90	302,348
1932	Coasting steamers	1,911	109,054	1,911	109,054
	Sailing vessels	7,157	139,512	7,152	139,752

Note: * total tonnage of Muar; ** total tonnage of Muar and Endau; *** Japanese ocean-going steamer calling at Batu Pahat to load iron-ore
Source: JAR (1919-1932).

Appendix xxvi. Vessels clearing in and out from Riau, 1866-1905.

Year	Total clearing in		Total clearing out		From Singapore		To Singapore	
	No.	thous. n.r.t.	No.	thous. n.r.t.	No.	thous. n.r.t.	No.	thous. n.r.t.
1866	527	17	545	17	461	13	429	9
1870	735	35	721	35	668	26	596	20
1879	1,432	48	1,410	37	1,220	25	1,217	23
1885	1,620	130	1,672	132	1,324	61	1,388	54
1890	1,207	118	1,254	142	1,051	59	1,036	60
1895	1,445	107	1,490	92	1,262	53	1,270	53
1900	1,455	133	1,612	140	1,342	109	1,515	117
1905	916	95	982	120	870	47	918	43

Note: Data concerning shipping with Singapore are collected from the vessels arriving and leaving for areas outside The Netherlands Indies. We assume that Singapore dominated these international shipping activities, thus it is possible to regard that this information could represent the situation.

Source: SHS (1866-1905).

Appendix xxvii. Shipping of Riau Islands, 1909-1938.

Year	Ships to/from outside NEI			Ships to/from NEI			
	All vessels		Steamers	Sails and others		Steamers	
	Number	Weight (m³)	Number	Number	1,422,785	Number	Weight(m³)
1909	5,565	1,392,552	4,724	29	64,948	400	1,422,785
1916	13,733	3,365,502	8,925	1,218	587,893	2,847	2,161,326
1920	20,949	5,634,087	10,957	4,772	1,268,783	4,554	3,037,384
1923	20,930	6,010,597	9,456	3,169	903,942	4,942	4,059,682
1930*	12,337	3,473,448	5,605	862	597,717	1,513	1,416,410
1938*	7,122	3,079,740	2,125	1,768	2,988,225	1,521	3,057,087

Note: * only arriving ships.

Source: SHS (1910-1940), SSN (1910-1940).

Appendix xxviii. International and domestic shipping arriving at various ports in Riau Islands, 1909-1938.

		Sambu		Tdj.Pinang		Tdj.Balai		Penuba		Terempa		Tdj.Uban	
		Inter.	Dom.	Inter.	Dom.	Inter.	Dom.	Inter.	Dom.	Inter.	Dom.	Inter.	Dom.
1909	Number	1,792	83		403		462		195		84	-	-
	Tonnage (thous. m ³)	629	255		63		33		31		36	-	-
1916	Number.	6,795	571	185	754	352	52	54	200	26	69	-	-
	Tonnage (thous. m ³)	1,766	759	76	317	21	5	8	33	17	39	-	-
1920	Number	12,583	372	105	779	61	439	-	163	28	73	-	-
	Tonnage (thous. m ³)	3,864	577	48	350	6	31	-	28	7	63	-	-
1923	Number	12,003	412	170	1,012	157	393	4	199	2	133	-	-
	Tonnage (thous. m ³)	3,814	951	78	433	15	37	-	25	-	164	-	-
1930	Number	11,179	23,921	813	539	344	940	1	351	-	152	-	-
	Tonnage (thous. m ³)	3,199	1,421	236	242	58	103	-	53	-	171	-	-
1938	Number	5,425	1,129	896	721	624	752	-	295	-	115	177	379
	Tonnage(thous. m ³)	1,911	1,414	853	2,135	66	58	-	63	-	124	249	2,290

Source: SHS (1910-1940), SSN (1910-1940).

Appendix xxix. Shipment in Pulau Sambu and Tanjung Pinang, 1908-1940.

	Sambu		Tdj.Pinang			Sambu		Tdj.Pinang	
	No.	Burden (thous. m ³)	No.	Burden (thous. m ³)		No.	Burden (thous. m ³)	No.	Burden (thous. m ³)
1908	1,116	915	-	-	1925	15,330	5,646	1,012	554
1909	1,994	1,220	-	-	1926	15,608	6,228	892	517
1910	2,727	1,565	-	-	1927	15,545	5,546	1,016	482
1911	3,294	1,773	-	-	1928	13,798	5,271	1,119	502
1912	3,781	1,811	955	438	1929	11,868	4,616	1,271	484
1913	3,325	1,430	934	420	1930	11,464	4,633	1,194	458
1914	4,894	1,607	833	422	1931	9,526	3,187	1,259	415
1915	6,562	2,229	842	470	1932	7,684	2,864	1,085	389
1916	7,147	2,470	878	371	1933	7,611	3,922	1,074	608
1917	10,309	3,301	892	536	1934	6,516	3,704	1,130	698
1918	11,416	3,566	748	398	1935	6,180	3,377	1,120	835
1919	10,800	3,665	838	397	1936	6,539	3,567	1,303	1,726
1920	12,775	4,385	823	408	1937	6,714	3,965	1,557	2,753
1921	13,004	4,291	660	433	1938	6,423	3,907	1,541	2,988
1922	13,579	4,251	647	415	1939	5,838	3,760	1,557	2,051
1923	13,035	4,832	909	450	1940	5,553	3,846	1,483	2,273
1924	12,561	4,626	905	359	-	-	-	-	-

Source: CEI, vol. 12a.

Appendix xxx. Capacity of international shipping in Indonesia, 1948-1971.

Year	Number	Total capacity, b.r.t./g.r.t., 1000 tons	Remark
1948	65	125	KPM
1949	95	169	KPM
1954	105 39	190 23	KPM Pelni
1956	100 ?	195 65	KPM, freighters and passenger ships National shipping companies
1957	100	195	KPM, freighters and passenger ships ceased its interinsular operations
1957	73	55	Pelni and other national shipping companies
1958	?	188	Pelni and national merchant fleet
End of 1958	217	272	All fleet
1959	178	134	Indonesian owned, > 100 g.r.t. by size
1960	228	147	Indonesian owned, > 100 g.r.t. by size
1962	304	301	Indonesian owned, > 100 g.r.t. by size. Among these, 290 coastal and inter-islands, 14 international
1965	278	537	All fleet
1971	327	558	All fleet

Source: RBI (1948-1971), SI (1968-1969).

Appendix xxxi. Freight destined for foreign ports from Indonesia, 1939-1965.
(thous. tons)

Year	Total	Loaded	Unloaded
1939	7,568	5,677	1,891
1952	5,407	2,870	2,537
1958	4,454	2,142	2,311
1962	4,577	2,081	2,496
1965	4,511	2,346	2,165

Source: SSN (1939), RBI (1952-1965), SI (1968-1969).

Appendix xxxii. Arrival of vessels from foreign ports to Indonesia, 1939-1961.

Year	Number	Tonnage in 1000 n.r.t.
1939	10,872	12,469
1952	12,993	12,925
1958	8,483	10,341
1959	9,015	11,361
1960	9,230	11,512
1961	4,154	10,771

Source: SI (1963).

Appendix xxxiii. Cargo loaded and discharged in Malaya, Singapore and Indonesia, 1948-1971.

(thous. freight tons)

	Malaya - loaded	Malaya - discharged	Singapore - loaded	Singapore - discharged	Indonesia - loaded	Indonesia - discharged
1948	-	-	1,428	1920		2,700
1949	-	-	1,776	3120		3,500
1950	3,600	6,024	2,532	4308	-	-
1951	3,876	7,536	2,856	5292	-	-
1952	4,623	7,438	2,640	5208	6,237	5,954
1953	7,354	10,888	5,172	8640		3,640
1954	7,485	11,366	-	-		3,312
1955	8,700	13,160	-	-	-	-
1956	9,877	13,727	-	-	-	-
1957	10,208	14,094	-	-	-	-
1958	8,727	12,713	-	-	7,024	7,192
1959	-	-	-	-	7,487	7,780
1960	-	-	5,287	9,602		
1961	-	-	6,507	11,750	8,220	9,162
1962	-	-	7,663	13,403	7,577	7,992
1963	-	-	7,853	13,740	-	-
1964	-	-	6,169	11,882	-	-
1965	-	-	7,980	13,366	-	-
1966	-	-	10,094	16,543	-	-
1967	-	-	11,943	18,397	-	-
1968	-	-	13,959	21,678	-	-
1969	-	-	15,334	22,569	-	-
1970	-	-	15,720	26,439		1,913
1971	-	-	19,269	28,817		2,001

Source: RBI (1950-1962), SI (1968-1969); MSMDESS (1955-1960), ABSM (1964-1968), YSS (1967-1972).

Appendix xxxiv. Exchange rates: 100 pound sterling in various currencies.

Currency	Exchange rate (year average)
Spanish, Mexican dollars	1870-1905: 450-1,126 (see extra table)
Straits, Malayan, Japanese, Malaya and British Borneo	1906-1967: 857 (60 dollar = 7 pound sterling)
Singapore dollar, Malaysia dollar	1968-1970: 732
Netherlands Indian guilder	1870-1940s: 1,210*
Japanese money	1942-1945: 1,210
Indonesian rupiah	1946-1950s: no international recognition 1959-1965: devaluation, spiralling inflation 1967: 41,084; 1968: 70,925; 1969: 77,926; 1970: 86,933; 1971: 95,800; 1972: 103,851; 1973: 101,815

Note: * NIG approximately equals NG in value

Source: Denzel, *Handbook*, 540-53.

Appendix xxxv. Exchange rates: 100 pound sterling in dollar.

Year	E. Rate						
1870	448	1879	532	1888	644	1897	1,006
1871	454	1880	526	1889	640	1898	1,031
1872	442	1881	528	1890	585	1899	1,003
1873	456	1882	528	1891	613	1900	978
1874	469	1883	542	1892	695	1901	1,013
1875	481	1884	540	1893	775	1902	1,141
1876	500	1885	564	1894	932	1903	1,124
1877	492	1886	606	1895	940	1904	1,035
1878	516	1887	620	1896	918	1905	973

Source: Denzel, *Handbook*, 540-53.

Appendix xxxvi. Agroprocessing industries and manufacturing in Singapore, 1889 and 1947.

Category	Name	Number (1889)	Number (1947)
Commercial agricultural processing	Dyers	40	-
	Tannery establishments	20	-
Food production	Bread and Biscuit factories	13	-
	Oil factories	8	9
	Ice factories	2	-
	Mills-flour	1	-
Engineering and foundries	Mills-rice cleaning	22	-
	Mills-sago	11	-
	Soda water factories	5	-
Brick-making Establishments		8	-
		4	13
Potteries		6	-
Printing establishments		8	-
Soap factories		21	4+
Dock and shipping repair companies		2	-
Telegraphy companies		2	-
Telephone companies		1	-
Gas companies		1	-

Source: STDS (1889), CSAR (1947).

Appendix xxxvii. Establishment of insurance companies in Singapore in 1891 and 1907.

1891	1907
	Fire Insurance Association of Singapore
	Singapore Marine Insurance Agents Association
	New Zealand Insurance Company, Limited, China Fire Insurance Company Ltd., Yangtsze Insurance Association, Ltd.
Equitable Life Assurance Society of the United States	China Mutual Life Insurance Co., Ltd.
North China Insurance Company, Limited	Commercial Union Assurance Co., Ltd.
The Straits Insurance Co., Limited, The Straits Fire Insurance Company, Limited (16 clerks, 3 agencies)	The Manufacturers Life Insurance Company
Singapore Insurance Company, Limited (11 clerks, subscribed capital: £ 350,000, paid-up capital: £ 70,000)	The Marine Insurance Co., Ltd.
	The Marine and General Mutual Life Assurance Society
	North China Insurance Company, Limited
	Shanghai Life Insurance Co., Ltd.
	South British Fire and Marne Co.
	The Straits Insurance Co., Limited
	Sun Life Assurance Co., of Canada
	Union Insurance Society of Canton, Limited

Source: STDS (1891, 1907).

Appendix xxxviii. Principal statistics of manufacturing production by industry in 1970.
(£ mill. in current prices)

Category	Input	Output	Value added
Food manufacturing	64.6	75.3	10.4
Beverage industries	4.3	9.1	4.8
Manufacture of cigarette and tobacco	9.9	13.3	3.4
Manufacture of textiles	8.3	11.5	3.2
Manufacture of wearing apparel, excluding footwear	8.4	11.7	3.3
Manufacture of leather products, except footwear and wearing	1.6	2.0	0.4
Manufacture of foot wear	1.5	2.4	0.9
Sawmills and Manufacture of wood and cork, except furniture	17.2	25.5	8.3
Manufacture of furniture and fixture, except primary metal	1.7	3.3	1.5
Manufacture of paper	3.4	5.2	1.7
Printing, publishing and allied industries	6.2	13.4	7.0
Manufacture of industrial chemicals	2.6	4.8	2.2
Manufacture of other chemical products	5.9	10.6	4.6
Petroleum refineries and Manufacture of petroleum and coal	138.1	166.9	28.7
Processing of natural gums, excluding rubber processing	1.8	2.0	0.2
Manufacture of rubber products, except rubber footwear	2.8	5.4	2.6
Manufacture of plastic products	3.2	4.8	1.6
Manufacture of pottery, china and earthenware	0.2	0.5	0.3
Manufacture of glass and glass products	0.9	2.0	1.0
Manufacture of bricks, tiles, and clay products	0.3	1.1	0.8
Manufacture of cement	3.9	4.9	1.0
Manufacture of structural cements and concrete products	1.0	1.5	0.5
Manufacture of non-metallic mineral	1.4	2.3	0.9
Iron and steel basis industries	4.5	6.9	2.3
Non-ferrous metal basic industries	2.7	3.4	0.7
Manufacture of fabricated metal, except machinery and equip.	19.3	29.8	9.8
Manufacture of machinery, except electrical	5.7	10.2	3.9
Manufacture of electrical machinery, apparatus	21.2	38.7	17.4
Manufacture of transport equipment	19.3	45.1	21.8
Manufacture of professional and scientific measuring ...	1.2	1.7	0.5
Other Manufacturing industries	12.1	16.2	3.9
Rubber processing	93.9	98.7	4.8
Granite quarrying	0.2	1.9	1.7
Total	473.4	632.1	155.9

Source: YSS (1970).

Appendix xxxix. Output of manufacturing in Singapore in 1972.

Industry	Output (%)
Food	6.1
Beverages	0.5
Tobacco	0.3
Textiles	4.8
Garments and Related goods	4.4
Wood and cork	4.2
Furniture and fixtures	0.4
Paper and paper products	1
Printing and publishing	1.9
Leather products	0
Rubber products	0.7
Chemicals	3.3
Petroleum products	31.5
Non-metallic mineral products	1.9
Basic metals	1.2
Metal products	3.6
Machinery	2.3
Electrical machinery	17.9
Transport equipment	10.9
Miscellaneous products	3.1

Source: Yoshihara, *Foreign Investment*, 177, table 2.5.

Appendix xl. Industrial distribution of private companies in Singapore in 1973.

Category	Foreign	Singapore	Total
Food, beverage, tobacco	42	6	48
Textiles	56	7	63
Chemicals	83	10	93
Petroleum and oil products	14	0	14
Metals	60	3	63
Machinery and equipment	25	1	26
Electrical products and electronic products	56	2	58
Scientific and photographic equipment	6	1	7
Others	93	21	114
Total	435	51	486

Source: Yoshihara, *Foreign Investment*, 226, table S.

Appendix xli. Companies registered in Singapore at the end of the year, 1948-1950.

	1950	1949	1948
Local companies	924	821	781
Foreign companies	284	258	239

Source: Report of the Registrar of Companies, Singapore, 1950.

Appendix xlvi. Local and foreign companies registered in Singapore from 1925 to 1950.

Year	Local	foreign
1925	32	26
1926	49	34
1927	53	32
1928	42	24
1929	41	29
1930	33	24
1931	28	15
1932	41	18
1933	33	15
1934	39	13
1935	42	19
1936	43	15
1937	50	8
1938	57	26
1939	52	22
1940	45	19
1941	49	19
1942	1	-
1943	-	-
1944	-	-
1945	-	-
1946	114	16
1947	183	57
1948	126	38
1949	111	25
1950	125	25

Source: Report of the Registrar of Companies, Singapore, 1950.

Appendix xlivi. Number of industries by type of activity in Riau Province in 1975.

Municipality	Pakan-baru	Kampar	Indragiri Hulu	Indragiri Hilir	Bengkalis	The Riau Islands
Rice millings	-	2	-	93	-	-
Flour meal	-	-	-	22	46	36
Ice lollipop	9	3	1	12	12	-
Coffee polishing	-	-	-	-	2	1
Mie	-	-	-	-	11	1
Soya source	-	-	-	-	2	1
Salted fish	-	-	-	10	23	11
Fish preserves	-	-	-	-	14	-
Bakery products	2	1	5	-	6	7
Lemonade	4	1	1	-	1	3
Cooking oil		3	3	13	4	3
Ice-cubes	2	-	-	5	5	5

Source: RdA (1975).

Appendix xliv. Number of establishments, power equipment, capacity and number of persons employed in Riau Province and Indonesia in 1970.

	Number of establishment			Number of power equipment		
	L	M	T	L	M	T
Riau	9	334	343	22	321	343
Indonesia	1,975	15,925	17,900	38,890	23,459	62,349
Capacity of power equipment				Number of persons employed		
	L	M	T	L	M	T
Riau	2,088	8,321	10,409	691	3,964	4,655
Indonesia	1,089,548	267,773	1,357,321	595,555	252,386	838,941

Notes: L: Large; M: Medium; S: Small; T: Total.

Source: SI (1970-1971).

Appendix xlvi. Number of manufacturing establishment and labour force by industry in Riau Province in 1975.

	Type				Number of worker			
	L	M	S	T	L	M	S	T
Pakanbaru	4	7	49	60	419	239	418	1,076
Kampar	3	2	24	29	228	82	198	508
Indragiri Hulu	2	5	16	23	500	179	164	843
Indragiri Hilir	-	4	157	161	-	166	1,042	1,208
Bengkalis	2	17	276	295	249	625	2,193	3,067
The Riau Islands	1	5	176	182	123	219	1,401	1,743
Total	12	40	698	750	1,519	1,510	5,416	8,445

Notes: L: Large; M: Medium; S: Small; T: Total.

Source: RdA (1975).

Appendix xlvi. Number of industries by type of activity in Riau Province in 1975.

Municipality	Pakan-baru	Kampar	Indragiri Hulu	Indragiri Hilir	Bengkalis	The Riau Islands
Printing	4	-	1	-	3	-
Plastic products	1	-	-	-	1	-
Other Chemicals	-	-	-	-	1	13
Soap	-	-	-	-	2	1
Floor-tile	2	-	-	-	-	-
brick	17	1	4	-	7	6
Nonmetallic mineral	-	-	-	-	-	2
Machinery-weld/repair	-	-	-	-	18	-
Dock/ship building	2	-	-	-	19	8
Wood apparel household	6	-	-	-	12	-
Made clothing	-	-	-	-	-	2
Metal product for construction equipment	-	-	-	2	-	3
Nail, but, bolt, knife	2	11	-	-	3	-
Total	60	29	23	161	295	182

Source: RdA (1975).

Appendix xlvii. Number of industries by type of activity in Riau Province in 1975.

Establishment	Number of foreign worker	
	Domestic	Abroad
Pertisa Trading Coy Ltd Pekanbaru	-	2
P. T. Duta Rimba Jaya	-	40
P. T. Kulim Company	4	4
P. T. Pertambangan Balung Pekanbaru	-	4
Fa. Inewood	3	-
P. T. Bangkinang Pekanbaru	8	-
P. T. Nastiti	17	-
CV. Samin	2	-
P. T. IFA Samalinang Peranap Indragiri Hulu	-	17
P. T. Bumi Tani	-	7
Perabot Asia Jaya	5	-
P. T. Riau Crumb Rubber Fty Pekanbaru	3	-
Indonesia Survey AS Pekanbaru	-	19
P. T. Petro Sea Int Indonesia Pekanbaru	-	63
P. T. Sindotim Pekanbaru	-	4
P. T. Altrak	-	1
Siak Jaya	-	11
Shore Mer Timber	-	63
P. T. Riau Plywood	5	3
CV. Uka Pekanbaru	-	1
Total	47	219

Note: P. T. stands for perusahaan terbatas (limited company).

Source: RdA (1975).

Appendix xlviii. Shipbuilding companies in the Riau Islands in 1974.

Name (established year, place)	Equipment	Workers	Capital £
WILYATI Toluk Sekudai (Tembelan, 1969)	Saws, axe, drill, etc.	9	
Lim Kan Lim alins Budiman Kesuna (Tanjung Pinang, 1956)	1 diesel engine, 3 drilling machines, 1 scouring machines, 2 others	9	3,090
Lim You Rock (Tanjung Pinang, 1969)	10 iron hammers, 24 wood drills, 10 pressers, 3 cranes, 20 axes, ; 3 hoes, 24 chisels, 2 excavations, 2 sawing machines, 2 chainsaws, etc.	37	3,605
Sabtu d.h Chan Hong Ngie (Tanjung Balai (Karimun), 1970)	6 axes, 6 saws, 6 jacks, 6 hammers, 6 drills, etc.	11	93
P.K.(F).I. (Tanjung Pinang, 1972)	1 chainsaw, 1 planer machine, 3 drilling machines, 9 axes, 10 handsaws, 10 hand drills, etc.	17	4,304
P.K.(F).I. Tanjung Pinang	1 diesel engine generator, 2 chainsaws, 2 planer machines, 5 drilling machines, 6 axes, 4 hand saws, 4 hand drills, etc.	10	4,304

Source: Lampiran (1974).

Appendix xliv. Industrial machines used in private companies in Riau Islands in 1974.

Name	Type	Information
CV. RIMBA JAYA (Tanjung Pinang)	Timer	Diesel engines, saw machines, automatic saws (from the UK, Japan, Malaysia, 1955-1972)
DJAYA (Tanjung Pinang)	Timber	Diesel engines, band saws, automatic saws (from Netherlands, Taiwan, Japan, 1940-1971)
SINAR HARAPAN (Kundur, Tanjung Batu)	Timber	Diesel engines, band saws, automatic saws, saw blade sharpeners (from the UK, Japan, Malaysia, Singapore, 1950-1971)
FA. P. Bintan (Tanjung Pinang)	Lemonade	Diesel engines, automatic fillers, mixers, blenders of CO ₂ , equipment of bottle and cover (from the UK, Singapore, Germany, Singapore, 1950-1962)
CV. SINCA MAS (Tanjung Balai, Karimun)	Lemonade	Diesel engines, automatic mixers of CO ₂ , equipment of bottle and cover (from UK, Singapore, 1970)
SEGAR (Kundur)	Lemonade	Diesel engines, automatic mixers of CO ₂ , equipment of bottle and cover (from the UK, Indonesia, 1950)
TJIPTA (Tanjung Pinang)	Dried noodle	Diesel engines, grinders, etc. (from Singapore, 1968)
DEWI (Tanjung Pinang)	Dried noodle	Diesel engines, blenders, grinders (from the UK, 1965)
PT. FAJAR TIMUR (Tanjung Pinang)	Clothing	Diesel generator, automatic pressers, button installations, sewing machines, etc. (from Japan, the UK, 1971)
PT. Pulau Bintan JAYA (Tanjung Pinang)	Crumb rubber	Diesel engines, conveyors, cutting machines, granulator, air pomp, hydro-cyclone, vibrating scream, etc. (from Germany, France, 1968)
PT. MANTRUST (Tanjung Pinang)	Pineapple cannery	Diesel generator, equipment of conservation and vacuum, cooling machine, etc. (from Germany, the UK, the Netherlands, Japan, Indonesia, Australia, Italy, 1965)
BUNGA DUA (Tanjung Batu)	Coffee powder	Diesel potter, electric motor, etc. (from the UK, 1940)

Source: Lampiran (1974).

Appendix I. Export unit value indices for Singapore (1900-1939, 1950-1970) and export price index for Indonesia (1870-1938).

	Export unit value indices (Singapore, 1900=100)	Export Price Index (Indonesia, 1900-100)	
1900	100	1870	130.2
1901	103	1871	157.8
1902	109.6	1872	165.2
1903	107.8	1873	169.6
1904	101.5	1874	176
1905	104.3	1875	169.7
1906	111.2	1876	160.4
1907	104.2	1877	167.7
1908	98.3	1878	168.1
1909	103	1879	156.6
1910	114	1880	159
1911	122.3	1881	130.4
1912	127.2	1882	131.5
1913	124.3	1883	142.2
1914	114.6	1884	123.4
1915	126.4	1885	124.5
1916	139	1886	131.5
1917	150.2	1887	135.7
1918	166.2	1888	127.2
1919	176.9	1889	147.9
1920	203.6	1890	152.1
1921	133.1	1891	119.9
1922	114.3	1892	124.9
1923	126.5	1893	143.4
1924	130.1	1894	126.7
1925	166.3	1895	114.1
1926	152.3	1896	124.9
1927	142.3	1897	110.8
1928	117.1	1898	106.4
1929	110.8	1899	103.7
1930	88.1	1900	100
1931	73	1901	104.2
1932	62.9	1902	93
1933	63.6	1903	94.9
1934	77.3	1904	99.3
1935	78.5	1905	110.4
1936	81.8	1906	101.9
1937	90.5	1907	98.9

1938	77.7	1908	104.3
1939	86.7	1909	104.3
1950	264.9	1910	114.9
1951	374.3	1911	137.1
1952	302.3	1912	129.2
1953	261.9	1913	135.3
1954	254.6	1914	147.9
1955	299.8	1915	167.3
1956	291.2	1916	159.1
1957	284.7	1917	181.9
1958	274.7	1918	226
1959	301	1919	263.6
1960	307.8	1920	362.1
1961	307.8	1921	207.7
1962	307.8	1922	198
1963	307.2	1923	210.6
1964	312.5	1924	203.4
1965	310.7	1925	205.4
1966	297.2	1926	188.5
1967	299	1927	179
1968	282.6	1928	150.1
1969	294.3	1929	132.3
1970	308.4	1930	111.1
		1931	77.4
		1932	50.6
		1933	47.2
		1934	49.8
		1935	48.7
		1936	56.7
		1937	80.4
		1938	56.3

Source: Sugimoto, *Economic Growth*, 129, 136; Van Ark, 'The Volume'.