1939. NEW ZEALAND.

KAURI-GUM INDUSTRY

(REPORT ON THE) FOR THE YEAR ENDED 31st MARCH, 1939.

Presented to both Houses of the General Assembly pursuant to Section 5 of the Kauri-gum Industry Amendment Act, 1914.

Sir, – Department of Lands and Survey, Wellington, 1st August, 1939. I have the honour to submit herewith the annual report under the Kauri-gum Industry Amendment Act, 1914, for the year ended 31st March, 1939. U have, &c.,

R. G. MACMORRAN, Under-Secretary.

The Hon. Frank Langstone, Minister of Lands.

ALTHOUGH during the year there was a steady demand for high grade chip gum at a fairly good price, there was a marked falling off in inquiries for the lower grades of this type of gum, and as a whole conditions in the market did not improve appreciably.

As in previous years, the sale of the higher-quality gum, suitable for use in the varnish trade, remained sluggish : shipments were made to the United Kingdom, Canada, Australia, the United States of America, Fiji, Japan, Netherlands, Sweden, France, Germany, and Italy, and, as hitherto, Great Britain took the bulk of these exports. The demand from America was poor, but sufficient to show that there was still possibility for expansion in that direction.

Production during the year was ample to meet all demands. It appears, however, that the present stagnant conditions prevailing will continue until such time as kauri-gum can be produced for marketing in a purer form.

During the year research work has been carried out by the Department of Scientific and Industrial Research in connection with the development of a process for the refining of the lower grades of kaurigum. This matter is dealt with in detail in the Dominion Laboratory section of the annual report of that Department.

The Director of Internal Marketing has supplied the following report on the Division's activities in the kauri-gum marketing arrangements :

" In October, 1937, the Internal Marketing Division undertook to render a measure of assistance to kauri-gum diggers by arranging minimum prices for various types and qualities of gum at which buyers would operate.

In the event of buyers or merchants failing to purchase at these figures, the Division agreed to find a market for diggers' gum. It is pleasing to be able to say that buyers have co-operated with the Division to the fullest extent and it has not been necessary to actually make any purchases, although on many occasions the Division has assisted diggers to find a buyer at arranged prices.

The object of the Division's activities has obviously been to enable diggers to remain on the fields, and the confidence given the market by the Division's action has made this possible. Appreciation of the Government's action has been expressed by kauri-gum diggers.

The Division has also investigated the internal and overseas markets, with the object of expanding and continuing sales.

" During the visit of the Hon. Minister of Marketing to America and England in this year an opportunity was taken to meet gum-importers, with the object of encouraging the further use of New Zealand's kauri-gum."

EXPORT OF KAURI-GUM.

For the year ended 31st March, 1939, the export amounted to 2,360) ons, of the value of £105,169, an average price of about £45 per ton. The tonnage, value, and average price per ton of the export for the past sixteen years are

stateour years are					
Year ended 31st March,	Tonnage exported.	Value. L	Average per Ton.		
1924	6,923	640,712	± 92		
1925	5,432	446,019	82		
1926	5,495	414, 420	75		
1927	4,529	301,335	66		
1928	4,531	267,559	-96- 		
1929	4,566	241,223	53		
1930	4,941	264,452	53		
1931	3,145	155,602	49		
1932	3,164	124,757	39		
1933	2,060	57,970	28		
1934	3,378	83,945	25		
1935	3,412	91,070	27		
1936	2,669	75,802	28		
1937	3,613	119,649	33		
1938	2,491	126,612	51		
1939	2,360	105, 169	45		

Details of the yearly export, and the country to which exported, from 1927 to 1939 are given below :

Particulars of Kauri-gum exported from New Zealand from 1st April, 1927, to 31st March, 1939, inclusive.

Country to which exported.		, 1927, to reh, 1928, _]		l, 1928, (o rch. 1929,		, 1929, to "ch, 1930,	Ist Apri 31st Ma	t, 1930, to reh, 1931.	1st Apri 31st Ma	l, 1931, to rch, 1932.	1st April 31st Mar	, 1932, to ch, 1933
United States of America	Tons. 2,087	$\frac{\mathfrak{L}}{120,349}$	Tons. 2,337	£ 139,672	Tons. 1,967	£ 127,723	Tons. 823	$rac{\mathfrak{L}}{46,510}$	Tons. 681	£ 33,082	Tons. 268	£ 11,208
United Kingdom	2,043	127,401	1,504	77,479	2,425	117,677	1,957	96,679	1,968	71,572	1,298	36,150
Germany	119	6,613	234	7,949	100	2,646	62	1,508	52	6,725	70	1,104
Canada	165	6,329	208	7,448	202	7,169	127	4,726	173	4,156	169	3,157
Australia	- 33	1,448	8 60	$\frac{408}{1,094}$	$\frac{106}{30}$	$3,908 \\ 635$	37 43	1,423 975	$65 \\ 69$	1,862 1,154	$\frac{91}{15}$	$2,251 \\ 230$
Belgium France		$\frac{1}{3},915$	150	5,206		3,764	71	2,791	94	4,173	83	$\frac{250}{2,452}$
France Switzerland	00	0,010	1.7(7			0,101						
Netherlands	3	483	29	1,068	2	285	-4	218				
Sweden	1	132			•••		10:	282	32	837	11	218
Italy		• •	10	127	••	••		••	••••••		31	555
Japan	20	843	26	772	20	645	11	580	30	1,196	24	645
Hong Kong China	••		••	••	••	••						
South African		20					•••					
Union			i							i		
Fiji				••	••		•• ;	••		••	••	• •
		000 220	4,566	241,223	4,941	264,452	3,145	155,602	3,164	124,757	2,060	57,970
Totals	4,531	267,559			1st Apri	L 1935 to	lst Apri	il 1936 to	 1st Apri	il 1937 to	Ist. April	. 1938 to
Country to which exported.	Ist Apr		1st Apr	il, 1934, to		l, 1935, to rch, 1936.		ll, 1936, to Irch, 1937.				l, 1938, to rch, 1939.
Country to which exported.	1st Apr 31st Ma	il, 1933, to trch, 1934. .C	1st Apr 31st M: Tous,	il, 1934, to arch, 1935. L	34st Ma Tons.	rch, 1936. L	31st Ma Tons.	a'ch, 1937. X	31st Ma	£	31st Ma Tons.	řch, 1939. £
Country to which exported. United States of	lst Apr 31st Ma	il, 1933, to arch, 1934. .C	1st Apr 31st M: Tous,	il, 1934, to arch, 1935. L	34st Ma	rch, 1936.	31st Ma	irch, 1937.	31st Ma	rch, 1938.	31st Ma	řch, 1939. £
Country to which exported. United States of America	Tst Apr 31st Ma Tons, 875	il, 1933, to irch, 1934. £ 30, 174	1st Apr 31st M; Tons, 394	il, 1934, to arch, 1935. £ 20,692	34st Ma Tons, 553	rch, 1936. £ 24,488	31st Ma Tons.	urch, 1937. L 28,844	31st Ma Tons, 548	£ 38,010	31st Ma Tons, 169	fch, 1939. £ 13,179
Country to which exported. United States of	1st Apr 31st Ma	il, 1933, to irch, 1934. £ 30, 174	1st Apr 31st M; Tons. 394 2,267	il, 1934, to arch, 1935. L	34st Ma Tons, 553	rch, 1936. £ 24,488 39,181 769	31st Ma Tons. 478 2,200 78	a'ch, 1937. X	31st Ma Tons. 548 1,486	£ 38,010	31st Ma Tons, 169 1,535	ŕch, 1939. £ 13,179 60,484
Country to which exported. United States of America United Kingdom Germany Canada	tst Apr 31st Ma Tons, 875 1,730 325 94	il, 1933, to rrch, 1934. 30, 174 37, 218 5, 093 2, 530	1st Apr 31st M: 394 2,267 251 114	11, 1934, 10 1935, 1935, 1935, 1935, 1935, 19366, 1936, 1936, 1936, 1936, 1936, 1936, 1936, 1936, 1	31st Ma Tons. 553 1,570 41 62	rch, 1936. £ 24,488 39,181 769 1,689	31st Ma Tons. 478 2,200 78 263	L 28,844 62,963 2,241 8,228	31st Ma Tons. 548 1,486 37 205	£ 38,010 65,921 1,910 9,988	31st Ma Tons. 169 1,535 36 237	řeh, 1939. £ 13,179 60,484 1,806 11,035
Country to which exported. United States of America United Kingdom Germany Canada Australia	Ist Apr 31st Ma Tons. 875 1,730 325 94 120	il, 1933, to rech, 1934. 30, 174 37, 218 5, 093 2, 530 3, 355	1st Apr 31st M: 394 2,267 251 114 150	$\begin{array}{c} 11, 1934, 10\\ 1005, 1935, \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ $	31st Ma Tons. 553 1,570 41 62 171	£ 24,488 39,181 769 1,689 3,058	31st Ma Tons. 478 2,200 78 263 311	L 28,844 62,963 2,241 8,228 7,575	31st Ma Tons. 548 1,486 37 205 27	£ 38,010 65,921 1,910 9,988 1,238	31st Ma Tons. 169 1,535 36 237	reh, 1939. £ 13,179 60,484 1,806 11,035
Country to which exported. United States of America United Kingdom Germany Canada Australia Belgium	Ist Apr 31st Ma Tons. 875 1,730 325 94 120 11	il, 1933, 16 irch, 1934, 30, 174 37, 218 5,093 2, 530 2, 355 208	1st Apr 31st M: 394 2,267 251 114 150		31st Ma Tons. 553 1,570 41 62 171 42	$\frac{\pounds}{24,488}$ $\frac{39,181}{769}$ $1,689$ $3,058$ 889	31st Ma Tons. 478 2,200 78 263 311 21	rich, 1937. 28,844 62,963 2,241 8,228 7,575 618	31st Ma Tons. 548 1,486 37 205 27 13	$\begin{array}{c} {\rm rch,\ 1938.}\\ {\rm \pounds}\\ {\rm 38,\ 010}\\ {\rm 65,921}\\ {\rm 1,910}\\ {\rm 9,988}\\ {\rm 1,238}\\ {\rm 837} \end{array}$	31st Ma Tons. 169 1,535 36 237 135	£ 13,179 60,484 1,806 11,037 6,24:
Country to which exported. United States of America United Kingdom Germany Canada Australia Belgium France	Ist Apr 31st Ma Tons. 875 1,730 325 94 120	il, 1933, 16 rch, 1934, 30, 174 37, 218 5,093 2, 530 2, 530 208	1st Apr 31st M: 394 2,267 251 114 150	$\begin{array}{c} \text{il, 1934, (o}\\ \text{arch, 1935,}\\ 20, 602\\ 54, 365\\ 4, 986\\ 2, 623\\ 3, 588\\ \ldots \end{array}$	31st Ma Tons. 553 1,570 41 62 171 42	£ 24,488 39,181 769 1,689 3,058	31st Ma Tons. 478 2,200 78 263 311 21	L 28,844 62,963 2,241 8,228 7,575	31st Ma Tons. 548 1,486 37 205 27 13 47	£ 38,010 65,921 1,910 9,988 1,238	31st Ma Tons. 169 1,535 36 237 135	£ 13,179 60,484 1,806 11,037 6,24:
Country to which exported. United States of America United Kingdom Germany Canada Australia Belgium	tst Apr 31st Ma 7008. 875 1.730 325 94 126 11 143	ii, 1933, 10 irch, 1934, 0 30, 174 37, 218 5,093 2,530 3,355 208 3,642	1st Apr 31st M: 394 2,267 251 114 150	11, 1934, 10 arcb, 1935. 20, 602 54, 365 4, 986 2, 623 3, 588 2, 768	31st Ma Tons. 553 1,570 41 62 171 42 122	$\frac{\pounds}{24,488}$ $\frac{39,181}{769}$ $1,689$ $3,058$ 889	31st Ma Tons. 473 2,200 78 263 311 21 144 20	$\begin{array}{c} \underline{v}\\ \underline{v}\\ 28,844\\ 62,963\\ 2,241\\ 8,228\\ 7,575\\ 618\\ 5,584\end{array}$	31st Ma Tons. 548 1,486 37 205 27 13 47	$\begin{array}{c} {\rm rch,\ 1938.}\\ {\rm \pounds}\\ {\rm 38,\ 010}\\ {\rm 65,921}\\ {\rm 1,910}\\ {\rm 9,988}\\ {\rm 1,238}\\ {\rm 837} \end{array}$	31st Ma Tons. 169 1,535 36 237 135	£ 13,179 60,484 1,806 11,035 6,243 3,721
Country to which exported. United States of America United Kingdom Germany Canada Belgium France Switzerland Notherlands Sweden	1st Apr 31st Ma Tons. 875 1,730 325 94 120 141 143 20	ii, 1933, to reh, 1934, 30, 174 37, 218 5,093 2,530 3,355 208 3,642 461	1st Apr 31st M: 394 2,267 251 114 150	$\begin{array}{c} \text{il, 1934, (o)}\\ \text{irch, 1935,}\\ 20, 602\\ 54, 365\\ 4, 986\\ 2, 623\\ 3, 588\\\\ 2, 768\\\\ 90\\\end{array}$	31st Ma Tons. 553 1,570 41 62 171 42 122 122	rch, 1936. £ 24,488 39,181 769 1,689 3,058 889 3,193 262 1,043	31st Ma Tons. 478 2,200 78 263 311 24 144 20 37 16	$\begin{matrix} & {\rm E}\\ & {\rm 28,844}\\ & {\rm 62,963}\\ & {\rm 2,241}\\ & {\rm 8,228}\\ & {\rm 7,575}\\ & {\rm 618}\\ & {\rm 5,584}\\ & {\rm 512}\\ & {\rm 943} \end{matrix}$	31st Ma Tons. 548 1,486 205 277 13 47 21	$\begin{array}{c} \pounds\\ \pm\\ 38,010\\ 65,921\\ 1,910\\ 9,988\\ 1,238\\ 837\\ 2,639\\ \ldots \end{array}$	31st Ma Tons. 169 1,535 36 237 135 73 33 22	feh, 1939. £ 13,179 60,484 1,806 11,035 6,243 3,721 1,816 785
Country to which exported. United States of America United Kingdom Germany Canada Australia Belgium France Switzerland Netherlands Italy	tst Apr 31st Ma 750 1,730 325 94 126 14 143 20 28	ii, 1933, 10 rch, 1934. 30, 174 37, 218 5, 093 2, 530 2, 530 2, 530 2, 542 461 494	Ist Apr 31st M: 394 2,267 251 114 150 3 75	$\begin{array}{c} \text{ii, 1934, to}\\ \text{arcb, 1935.}\\ & \Sigma\\ & 20, 602\\ & 54, 365\\ & 4, 986\\ & 2, 623\\ & 3, 588\\ & .\\ & 2, 768\\ & .\\ & & 90\\ & .\\ & & & 825\end{array}$	31st Ma Tons. 553 1,570 41 62 171 42 122	rch, 1936. 24,488 39,181 769 1,689 3,058 889 3,193 262 1,043 245	31st Ma Tons. 478 2,200 78 263 311 21 1.44 200 307 16	$ \begin{array}{c} \underline{y}\\ \underline{y}\\ 28,844\\ 62,963\\ 2,241\\ 8,228\\ 7,575\\ 618\\ 5,584\\ 5,584\\ 512\\ 943\\ 560\\ \ldots \end{array} $	31st Ma Tons. 548 1,486 37 205 27 13 47 21 61 	$\begin{array}{c} {\mathfrak{x}}\\ {\mathfrak{x}}\\ 38,010\\ 65,921\\ 1,910\\ 9,988\\ 1,238\\ 837\\ 2,639\\ .\\ 1,021\\ 2,247\\ .\\ .\\ \end{array}$	31st Ma Tons. 169 1,535 36 237 135	$\begin{array}{c} \text{fch, 1939.} \\ \hline \\ & \pounds \\ 13, 179 \\ 60, 484 \\ 1, 806 \\ 11, 035 \\ 6, 243 \\ \hline \\ & 3, 721 \\ \hline \\ & 3, 721 \\ \hline \\ & 1, 810 \\ 785 \\ 1, 160 \end{array}$
Country to which exported. United States of America United Kingdom Germany Canada Australia Belgium Switzerland Switzerland Sweden Haly	tst Apr 31st Ma Tons, 875 1,730 325 94 120 141 143 20	it, 1933, 16 rch, 1934, 30, 174 37, 218 5, 093 2, 530 3, 355 208 3, 642 461 494 744	Ist Apr 31st M: 394 2,267 254 114 150 3 75 42	$ \begin{array}{c} \text{il, 1934, to} \\ \text{arcb, 1935,} \\ 20, 602 \\ 54, 365 \\ 4, 986 \\ 2, 623 \\ 3, 588 \\ \\ 2, 768 \\ \\ 90 \\ \\ 825 \\ 1, 223 \end{array} $	31st Ma Tons. 553 1,570 41 62 171 42 122 111 577 4 36	rch, 1936. £ 24,488 39,181 769 1,689 3,058 889 3,193 262 1,043 245 985	31st Ma Tons. 478 2,200 78 263 311 21 144 20 377 16 45	$\begin{array}{c} \underline{\mathcal{E}}\\ 28,844\\ 62,963\\ 2,241\\ 8,228\\ 7,575\\ 618\\ 5,584\\ 5,584\\ 5,584\\ -512\\ -943\\ -560\\ -\\ 1,581\end{array}$	31st Ma Tons. 548 1,486 37 2055 27 13 47 21 61 46		31st Ma Tons, 169 1,535 36 237 135	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ $
Country to which exported. United States of America United Kingdom Germany Canada Australia Belgium France Switzerland Netherlands Sweden Italy Hong Kong	1st Apr 31st Ma Tons. 875 1,730 325 94 126 111 143 200 28 32	ii, 1933, 10 rch, 1934. 30, 174 37, 218 5, 093 2, 530 2, 530 2, 530 2, 542 461 494	Ist Apr 31st M: 394 2,267 254 114 150 116 75 42	$\begin{array}{c} \text{il, 1934, to}\\ \text{arcb, 1935.}\\ & \Sigma\\ & 20, 602\\ & 54, 365\\ & 4, 986\\ & 2, 623\\ & 3, 588\\ & \\ & 2, 768\\ & \\ & & 2, 768\\ & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$	31st Ma Tons. 553 1,570, 41 62 171 42 122 111 577 4 36 	reh, 1936. <u>£</u> 24,488 39,181 769 1,689 3,058 889 3,193 262 1,043 245 985 	31st Ma Tons. 478 2,200 78 2633 311 21 144 20 37 16 45 	$\begin{array}{c} \underline{v}\\ 28,844\\ 62,963\\ 2,241\\ 8,228\\ 7,575\\ 618\\ 5,584\\ 512\\ 943\\ 560\\\\ 1,581\\\\ 1,581\\\\ \end{array}$	31st Ma Tons. 548 1,486 37 205 27 13 47 21 61 46 46	£ 38,010 65,921 1,910 9,988 1,238 837 2,639 1,021 2,247 2,801	31st Ma Tons. 169 1,535 36 237 135 73 73 30 87	£ 13,179 60,484 1,806 11,035 6,243 3,721 1,810 785 1,166 4,937
Country to which exported. United States of America United Kingdom Germany Canada Australia Belgium Switzerland Switzerland Sweden Haly	tst Apr 31st Ma 750 1,730 325 94 126 14 143 20 28	it, 1933, 16 rch, 1934, 30, 174 37, 218 5, 093 2, 530 3, 355 208 3, 642 461 494 744	Ist Apr 31st M: 394 2,267 254 114 150 3 75 42	$ \begin{array}{c} \text{il, 1934, to} \\ \text{arcb, 1935,} \\ 20, 602 \\ 54, 365 \\ 4, 986 \\ 2, 623 \\ 3, 588 \\ \\ 2, 768 \\ \\ 90 \\ \\ 825 \\ 1, 223 \end{array} $	31st Ma Tons. 553 1,570 41 62 171 42 122 111 577 4 36	rch, 1936. £ 24,488 39,181 769 1,689 3,058 889 3,193 262 1,043 245 985	31st Ma Tons. 478 2,200 78 263 311 21 144 20 377 16 45	$\begin{array}{c} \underline{\mathcal{E}}\\ 28,844\\ 62,963\\ 2,241\\ 8,228\\ 7,575\\ 618\\ 5,584\\ 5,584\\ 5,584\\ -512\\ -943\\ -560\\ -\\ 1,581\end{array}$	31st Ma Tons. 548 1,486 37 2055 27 13 47 21 61 46		31st Ma Tons, 169 1,535 36 237 135	$\begin{array}{c} \text{fch, 1939.} \\ \hline \\ \text{\pounds} \\ 13, 179 \\ 60, 484 \\ 1, 806 \\ 11, 035 \\ 6, 243 \\ \hline \\ 3, 721 \\ \hline \\ 3, 721 \\ \hline \\ 1, 816 \\ 785 \\ 1, 166 \\ 4, 937 \end{array}$
Country to which exported. United States of America United Kingdom Germany Canada Australia Belgium France Switzerland Netherlands Netherlands Sweden Haly Japan South African	1st Apr 31st Ma Tons. 875 1,730 325 94 120 141 443 20 28 32	it, 1933, 16 rch, 1934, 30, 174 37, 218 5, 093 2, 530 3, 355 208 3, 642 461 494 744	Ist Apr 31st M: 394 2,267 254 114 150 116 75 42	$ \begin{array}{c} \text{il}, 1934, \ (o)\\ \text{arcb}, 1935,\\ & \\ & \\ 20, 602\\ & \\ 54, 365\\ & \\ 4, 986\\ & \\ 2, 623\\ & \\ 3, 588\\ & \\ & \\ & \\ 2, 768\\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$	31st Ma Tons. 553 1,570. 411 62 171 42 122 111 577 4 36	reh, 1936. £ 24,488 39,181 769 1,689 3,058 889 3,193 262 1,043 245 985	31st Ma Tons. 478 2, 200 78 263 311 24 20 377 16 45	E 28,844 62,963 2,241 8,228 7,575 618 5,584 512 943 560 	31st Ma Tons. 548 1,486 37 205 27 13 47 21 61 46 		31st Ma Tons. 169 1,535 36 237 135 73 33 22 30 87	£ 13,179 60,484 1,806 11,035 6,243 3,721 1,810 785 1,166 4,937

PRODUCTION DURING THE YEAR.

The kauri-gum received at Auckland from the gumfields for the past eight years is shown, month by month, in the following table: \sim

5	1931–32. Tous,	1932–33. Tous.	1933–34. Tons.	1934–35. Tous.	1935–36. Tous.	1936–37, Tons,	1937-38. Tons.	1938–39. Tons.
April	 	405	240	202	221	346	305	65
May	 394	245	161	224	211	229	249	251
June	 263	144	238	148	164	107	350	(1()
July	 	153	162	150	258	139	368	204
August	 	43	150	193	172	181	162	427
September	 208	128	219	201	134	142	164	75
October	 192	176	320	307	220	154	252	284
November	 	182	326	243	260	50 E	74	243
December	 172	188	209	268	190	291	127	226
January	 	167	165	312	182	160	136	113
February	 277	213	325	274	220	265	86	208
March	 224	185	289	336	160	233	200	100
Totals	 3,004	2,229	2,804	2.858	2,392	2,748	2,473	2,296

KAURI-GUM INDUSTRY ACCOUNT.

The assets of the Kauri-gum industry Account have been realized, and the account has been abolished by statute.

 $Approximate \ Cost of \ Paper.$ Preparation, not given ; printing (585 copies), $\Im 4$