

THE SILK REELING INDUSTRY IN SHANGHAI

*Being the second of a series of reports on
the Shanghai Industrialization Study fin-
anced by the Institute of Pacific Relations*

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FOREWORD

The present report is one of a series of studies made or to be made under the Shanghai Industrialization Project. The data are mainly based on those collected during the survey of May—July, 1931, and supplemented, in the case of the silk industry, by a second survey during the same months of 1932 and certain investigations in November—December, 1930, and September, 1931, as well as the data collected and published by other organizations for 1928, 1929, 1930 and 1931.

Since the silk industry was only one of the numerous industries surveyed at the same time in 1931, the schedule used was the same for all industries, but additional information was collected with supplementary schedules and instructions. Also, while in the Preliminary General Report on Shanghai Industrialization published simultaneously with this report, certain items could not be summarized for all industries because of the lack of a common unit, such data are tabulated for the silk industry in the present report. These refer to the quantity of raw material used, the quantity of silk produced, the productive capacity of the filatures, the number of reels in the filatures, etc., etc.

In addition to the original data, certain figures are worked out from them and tabulated in this report to show the relations between these figures as well as the conditions in the industry. For instance, capitalization per reel, monthly productive capacity per reel, actual production per reel, number of reels operated by one horse-power and number of workers per reel (Tables XI, XX, XXII, XXVI, and XXX) are worked out from these data by dividing them with the number of reels in each filature. As the number of reels determines the size of the filature, which sometimes varies considerably, these per reel figures give more reliable averages.

Similarly, the percentage relation tables (Tables XII, XIII, XIV, XXIII, XLIV, and XLV) are each worked out from two sets of data and show what relation they bear to each other. The price tables (Tables XVIII, XXIV and XLIV) are based on quantity and value data of cocoons and silk. An interesting set of figures is found in Table

XLIII, where the quantity of silk as produced from one picul of dry cocoons is worked out from the quantities of raw material and output in each filature. This corresponds to what is known in the industry as *tsiao-che*, and serves to check up the popular conception of that figure.

As writing of this report began in 1932, immediately after the second survey was completed, 1931 was referred to in the report as "last year" and 1932 as "this year" or "the present time." These expressions have not been changed although the report was completed in 1933, after much addition to and revision of its contents. Chapter II on developments in the two years covered by our surveys had in particular to be left over and completed after the year 1932 was at an end. In addition to the statistical data collected by ourselves and other organizations, reference has been made in preparing the report to nearly all available publications in China on the silk industry, as far as circumstances permit.

Acknowledgment is especially due to Mr. B. T. Chang, who wrote Chapters II and XII of this report, and Mr. Chongchi Chen, who prepared all the statistical tables based on data collected by ourselves. Messrs. Chung-pi Chang, Teh-lin Wu, Y. Y. Young and a number of other men were responsible for collecting the original data in the two surveys. The last-named as well as Messrs. Chin-lin Wang and Chia-tung Wang helped work on the statistical data too. Miss S. T. King and Mr. H. Y. Lieu read the proof, and the former also helped edit the report. My thanks are due to them all.

D. K. LIEU.

Shanghai, July 18, 1933.

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APPENDIX A

FILATURES COVERED BY THE SURVEYS OF 1931 AND 1932

Address	No. of Reels	1931	Name or Condition of Filature 1932	Before 1931
Section I				
1 Wuchow Road	208	Yuchin (裕綫)	Yichang No. 3 (怡昌三廠)	Est. 1924
1 Wuchow Road	208	Tungwei (通緯)	Yichang No. 2 (怡昌二廠)	Est. 1924
2 Wuchow Road	238	Yichang (C) (怡昌)	Yichang (怡昌)	Reorg. 1932
Section II				
52 Changchiahang Road	472	Tienchang (天星)	(C)	
108 Changchiahang Road	208	Weiyu (緯餘)	Yichang No. 5 (怡昌五廠)	Est. 1926
108 Changchiahang Road	208	Houfu (厚福)	Yichang No. 4 (怡昌四廠)	Est. 1925
3 Szechanglung, Chuanchiaan Road	200	Chenhsin (振興)	(C)	Est. 1931
7 Chuanchiaan Road	144	Sinlun (D) (新綫)	(C)	Yuanlun, 1931 (元綫)
605 Tienpao Road	168	Liho (C) (禮和)	Hsinlun (興綫)	Reorg. 1932
558 Tienpao Road	140	Fulun (D) (福綫)	Fulunheng (216) (福綫恆)	Est. 1928
230 Tienpao Road	240	Kungyi (公益)	(C)	Est. 1928
Shahung Road	240	Chenyi (振益)	Dismantled	Est. 1929
1 Tientungli, Dixwell Road	344	Yuanfeng (元豐)	Yuanfenjen (元豐仁)	Tungfenyung (圓豐永)
109 Tientung Road	264	Chiangchen (祥成)	Chiangchenho (祥成和)	Est. 1929
62 Tientung Road	216	Yunchenkung (雲成公)	Yunchenkung (雲成公)	Est. 1929
28 Passage 701, Paoshan Road	208	Chenyu (振餘)	Destroyed	Est. 1930
28 Passage 701, Paoshan Road	256	Chinchiang (慶祥)	Destroyed	Est. 1930
2 Passage 125, Hsiangyenchiao Rd.	318	Tungyi (統益)	Yifengshen (義豐盛)	Est. 1911

(D) Filatures reeling silk from *shwangkung* or dupcion cocoons only. (C) Closed.

Notes:—Figure after name of filature indicates the present number of reels operated. Date after name of filature in the last column indicates the date when the filature was reorganized and came under the new firm mentioned in 1931 column.

Address	No. of Reels	Name or Condition of Filature		Before 1931
		1931	1932	
Kunghsinchiao	344	Hunclunshun (D) (福輪順)	Partly destroyed	Shunkee, 1928 (順記)
718 Tientungan Road	240	Chintai (晉泰)	Partly destroyed	Est. 1928
718 Tientungan Road	160	Chenho (鎮和)	Partly destroyed	Est. 1930
12 Sinlunli, Hwangpang Road	240	Hsinlun (興輪)	Partly destroyed	Est. 1928
516 Hwangpang Road	226	Yufeng (豫豐)	Partly destroyed	Est. 1922
235 Chungshan Road	160	Juilun (D) (瑞輪)	Destroyed	Est. 1928
600 Paochang Road	200	Yinyu (盈餘)	Partly destroyed	Yinyu, 1931 (盈餘)
Section III				
779 Changan Road	208	Yuanyuan (C) (元元)	Chiangyuan (祥源)	
779 Changan Road	208	Lungkee (C) (隆記)	Hsiehkee (錫記)	Futa (復大)
Changan Road	208	Chunmei (春美)	(C)	Chiushen, 1929 (久慎)
Changan Road	296	Yungyuan (永源)	(C)	Est. 1928
Changan Road	276	Tailaichang (泰來昌)	(C)	Tailai, 1930 (泰來)
Changan Road	260	Chinfeng (慶豐)	(C)	Chiutai, 1925 (久壽)
351 Changan Road	240	Fuchangjun (福昌潤)	Tungchangtai (同昌泰)	Chichangtai, 1930 (啓昌泰)
351 Changan Road	240	Juifengyu (瑞豐餘)	Tungchangtai (同昌泰)	Juifeng, 1929 (瑞豐)
10 Changanli, Changan Road	432	Shunfeng (C) (順豐)	Chengtai (成泰)	
225 Changan Road	160	Hsienhsin (協興)	(C)	Yichangkung, 1929 (益昌公)
Changan Road	168	Hsiehchang (錫昌)	(C)	Hungchiang, 1925
530 Changan Road (or Heng-feng Road)	240	Chichang (其昌)	Tunghsin (東興)	Tachen, 1930 (大成)
246 Hengfeng Road (or Changan Road)	208	Fuchangtai (福昌泰)	(C)	Hsuchangshen, 1930 (緒昌慎)
246 Hengfeng Road (or Changan Road)	208	Hengchangsin (恆昌新)	(C)	

Address	No. of Reels	Name or Condition of Filature		
		1931	1932	Before 1931
238 Hengfeng Road (or Changan Road)	208	Fumin (福民)	(C)	Hsuehchangfu, 1930 (福昌福)
246 Hengfeng Road (or Changan Road)	208	Tingchangshun (鼎昌順)	(C)	Est. 1930
85 Hengfeng Road (or Changan Road)	224	Hengkang (衡康)	Yuanho (源和)	Tingyi, 1928 (鼎義)
85 Hengfeng Road (or Changan Road)	224	Hsiehfengho (協豐和)	Yuanho (源和)	Hsiehfeng, 1930 (協豐)
37 Hengfeng Road (or Changan Road)	184	Fussu No. 2 (福司二廠)	Tingkee (鼎記)	Possu No. 2, 1930, Fumin No. 2 (百司二廠福民二廠)
46 Yutung Road	240	Polun (寶輪)	Yuankee (源記)	Reorg. 1929
46 Yutung Road	240	Tinglang (鼎康)	Yuankee (源記)	Reorg. 1929
331 Kungho Road	248	Tienlai (天來)	Juiho (瑞和)	
330 South Meiyuan Road	240	Chinyuan (晉源)	Chiufentin (久豐鼎)	Chichangyung, 1930 (啓昌永)
330 South Meiyuan Road	260	Yungan (永安)	Hsiatai (洽泰)	Hsuehchangyung, 1930 (結昌永)
1794 Chungsin Road	162	Chiufeng (久豐)	Kungkee (公記)	Est. 1929
1794 Chungsin Road	160	Chiukang (久康)	(C)	Est. 1930
145 Kuochin Road	180	(C)	Yuyauncheng (裕源成)	
20 New Kungho Road	228	Chusin (C) (楚信)	Hokee (和記)	
1421 New Kungho Road	216	Sincheng (C) (信成)	Sinchengsin (信成新)	
Pengpuchiaio, Hutai Road	208	Lichang (利昌)	Fuchang (復昌)	Est. 1929
Pengpuchiaio, Hutai Road	208	Tienlun (天輪)	Fuchang (復昌)	Est. 1929
Tayangchiaio, Chapei	416	Fengtai (豐泰)	Fengtaishen (豐泰慎)	Est. 1926
8 Liuyin Road	144	Hengta (C) (恒太)	Hengyu (恆裕)	
71 Tanchiachiao	360	Yinfengshun (盈豐順)	Tata (240) (大達)	Est. 1928
Tantzewan, Chapei	200	Yungchang (永昌)	Juifengyu (瑞豐裕)	Est. 1927
38 Chengchiamuchiaio	288	Hsinyuanlung (鑫源隆)	(C)	Est. 1929
479 Kwangfu Road	272	Chiuta (C) (久太)	Jenchang (180) (仁昌)	

<i>Address</i>	<i>No. of Reels</i>	<i>Name or Condition of Filature 1931</i>	<i>Name or Condition of Filature 1932</i>	<i>Before 1931</i>
785 Kwangfu Road	230	Hsiehankung (協安公)	Chiatai (嘉泰)	Hsiehan, 1926 (協安)
801 Kwangfu Road	214	Hwachinshun (華慶順)	Chenhsin (240) (振興)	Est. 1929
1 Passage 659, Kwangfu Road.	208	Fussu No. 1 (福司一廠)	(C)	Possufu, 1930 (百司福)
Section IV				
32 Connaught Road	200	Yichangkung (益昌公)	Dismantled	Yichang, 1929 (益昌)
32 Connaught Road	228	Yunglun (永綸)	Dismantled	Est. 1926
5 Markham Road	512	Tingyuan (鼎沅)	Dismantled	Est. 1929
161 Jessfield Road	536	Sinchang (信昌)	Sinchang (信昌)	Est. 1924
Section VI*				
Lunghwachen	322	Jihsin (日新)	Paotai No. 2 (寶泰二廠)	Est. 1930
Section VII				
25 Miller Road	536	Juiluntai (瑞綸泰)	Dismantled	Est. 1930
15 Chengtu Road	208	Shenhsinyin (慎興盈)	Dismantled	Est. 1922
1037 Chengtu Road	508	(Ewo)**	Yihochinkee (怡和靜記)	
47 Alabaster Road	240	Hsiachenmao (洽成茂)	Chinwei (經緯)	Est. 1930
47 Alabaster Road	240	Lifeng (利豐)	Lifeng (利豐)	Est. 1929
6 Alabaster Road	280	Lunyuan (綸元)	Lunyuan (綸元)	Sunyuan. Hsinkee, 1930 (姓源, 鑫記)
11 Alabaster Road	186	Hsukang (C) (緒康)	Lunyuan No. 2 (綸元二廠)	
11 North Soochow Road	192	Hsuhsin (緒興)	Hsuhsiang (緒祥)	
88 Kansu Road	234	Hsiangfeng (祥豐)	Hsiangfeng (祥豐)	Yungfen-hsin, 1931 (永豐興)

*No filatures were located in Section V.

**This filature, being under foreign management in 1931, was not covered by our survey in that year. It was not until 1932 when it was taken over by the Chinese compradore of the foreign firm that we were able to collect the necessary data.

<i>Address</i>	<i>No. of Reels</i>	<i>1931</i>	<i>Name or Condition of Filature 1932</i>	<i>Before 1931</i>
Section VIII				
153 Jihhwei East Road	628	Potai (寶泰)	Dismantled	Chiucheng No. 3, 1929 (久成三廠)
1080 Hsiahsu Road	416	Kwangyuan (廣源)	Kwangyuanchin (232) (廣源動)	Chiucheng No. 4, 1929 (久成四廠)
1006 Hsiahsu Road	416	Chiucheng No. 2 (久成二廠)	Paotashun (208) (寶泰順)	Est. 1919
1176 Hsiahsu Road	208	Tungyi (同益)	Tungyi (同益)	Est. 1929

Total number of filatures covered by the 1931 survey, 70; reels 18,326. (Excluding dupion filatures, 66 and 17,238).

Total number of filatures covered by the 1932 survey, 46; reels 12,262. (Excluding dupion filatures, 45 and 12,046).

Filatures not operating during the surveys are not included, although their names appear in this list (those marked C).

APPENDIX B
 PRICE OF WUSIH DRY COCOONS*
 (WHITE SPRING COCOONS)
 (per picul)

	1926	1927	1928	1929	1930	1931	1932
January	140.000	148.000	142.000	142.500	152.500	125.000	90.000
February	142.000	145.000	140.000	142.500	152.000	140.000*	85.000
March	145.000	142.000	138.000	140.000	160.000	150.000*	83.000
April	147.000	150.000	135.000	140.000	170.000	140.000	68.000
May	150.000	153.000	140.000	136.000	156.000	124.000	69.000
June	155.000	152.000	130.000	142.500	160.000	150.000	60.000
July	158.000	147.000	132.500	156.500	165.000	140.000	60.000
August	160.000	151.000	125.000	159.000	150.000	135.000	70.000
September	155.000	146.000	126.000	167.500	145.000	130.000	82.000
October	150.000	145.000	165.000	182.500	140.000	120.000	83.000
November	153.000	140.000	152.500	173.000	137.000	110.000	86.000
December	150.000	140.000	149.000	157.500	115.000	100.000	77.000

*Data supplied by the National Tariff Commission, being commodity No. 117 in its unpublished records.

**These quotations are estimates made by the Commission, because, due to the Japanese invasion of Shanghai, no actual investigation could be made.

APPENDIX C
PRICE OF WHITE SILK WASTE*
(STEAM FILATURE CHANGTU, WITHOUT COVER)
(per picul)

	1925	1926	1927	1928	1929	1930	1931	1932
Jan.		190.000	240.500	131.750	170.000	177.500	152.000	145.000
Feb.		195.000	210.000	140.000	171.500	180.000	185.000	**135.000
Mar.		200.000	202.500	140.000	174.000	190.000	186.000	**125.000
April		200.000	203.000	143.500	171.500	190.000	180.000	123.000
May		205.000	195.000	142.000	169.000	178.000	173.000	124.000
June		210.000	185.000	137.500	172.500	180.000	166.000	90.000
July		220.000	172.500	141.000	178.000	175.000	160.000	84.000
Aug.		225.000	139.500	140.000	181.500	170.000	185.000	82.000
Sept.		230.000	136.750	147.000	184.000	150.000	190.000	125.000
Oct.	248.000	230.000	149.500	168.000	190.000	130.000	170.000	122.000
Nov.	249.000	235.000	139.000	162.500	186.500	134.000	145.000	115.000
Dec.	245.000	238.000	132.250	165.000	167.500	136.000	150.000	130.000

*Data supplied by the National Tariff Commission, being Commodity No. 118 in its unpublished records.

**These quotations are estimates made by the Commission because, due to the Japanese invasion of Shanghai, no actual investigation could be made.

APPENDIX D

LIST OF FOREIGN FIRMS IN SHANGHAI ENGAGED IN RAW SILK EXPORT BUSINESS

<i>Name</i>	<i>Address</i>	<i>Nationality</i>
Abdoolally, Ebrahim & Co.	229 Szechuen Road	
Arnhold & Co., Ltd.	Sassoon Building, Nanking Road	British
Azadian, Jacques, S. A.	4 French Bund	Indian
Azadian Leon	12 Rue du Consulat	
China Merts Pongee Association	36 Jinkee Road	Greek
Baer & Co., A.	17 Yuen Ming Yuen Road	Swiss
Burkhardt, Buchan & Co.	19 Canton Road	
Burkill & Sons, A. R.	2 Canton Road	British
Carisio Freres	12 Rue du Consulat	
Carlowitz & Co.	223 Szechuen Road	German
Cathay Products Suppliers	87 Yates Road	
Chapeaux, Etab., S. A.	4 French Bund	French
Clerici, Bedoni & Co., S. A.	17 Museum Road	Italian
Godsi, J.	5 Foochow Road	
Weber & Co., C. A.	10 Rue du Consulat	British
Chinai & Co., J. C.	10 Rue du Consulat	British
Lachard Follet & Cie	39a Canton Road	French
La Generale Soies	452 Kiangsi Road	French
Lang & Co., Robert	31 Szechuen Road	American
Little & Co., Wm.	21 Jinkee Road	
Madier, Ribet & Cie	9 Avenue Edward VII.	French
Marthoud & Cie	5 Foochow Road	French
Mitsui Bussan Kaisha, Ltd.	49 Szechuen Road	Japanese
Muguet, R.	9 Avenue Edward VII.	
C. D'Exportation	39a Canton Road	
Olivier-Chine	15 Yuen Ming Yuen Road	French
Umriga Bros.	64 Peking Road	
Higuchi & Co.	637a Nanzin Road	
Pila & Co., Les Succ d'Ulyse	49 Peking Road	French
Puthod, A.	7 Yuen Ming Yuen Road	
Ragi & Co., R. H.	39 Peking	British
Reiss, Massey & Co., Ltd.	15 Museum Road	British
Rudolph & Co., Chor Les	43 Peking Road	Swiss
Sauvayre, J.	3 Kiukiang Road	French
Gibb, Livingstone & Co., Ltd.	28 Jinkee Road	British
Gobhai Karanjia	147 Kiangsi Road	
Patal & Co., A. C.	12 The Bund	British
Paturel, C.	3 Kiukiang Road	French
Dell' Oro & Co.	1 Canton Road	
Dyce & Co.	18 Kiukiang Road	Italian
Eastern Trading Co.	3 Hankow Road	British
Equitable Trading Co.	25 Rue du Consulat	
Erzinger & Co.	18 The Bund	British
Gerli & Co., E.	24 Yuen Ming Yuen Road	American
Huber & Co., E.	49 Peking Road	American
Jardine, Matheson & Co., Ltd.	27 The Bund	British
Kermani & Co., R. S.	10 Hankow Road	French
China United Filling Export Co.	96 Peking Road	
China Silk Co., Ltd.	21 Yuen Ming Yuen Road	French
Heffer & Co., F. C.	452 Kiangsi Road	British

Note:—Before the present depression, four Chinese export companies, the Tonying, the Hu Lin, the Wei Cheng and Hwa Tung Companies also had a share of the raw silk export business. At present only the Tonying Silk Trading Co. is operating, the rest having since closed.

APPENDIX E

SILK BRANDS

The following table shows the grade into which the different brands of Chinese raw silk are classified by foreign exporters and also the name and address of the filatures producing the silk:—

<i>Grade</i>	<i>Brand</i>	<i>Name of Producer</i>	<i>Address of Producer</i>	<i>Remarks</i>
1st	"Double Gold Deer"	Yung Tai	Tsechokiao, South Gate, Wusih.	
	"Co-operation"	Siaoshan Co-operative Filature	Haiyen	
	"Kitten"	Wei Cheng	Hsiashihtangyang, Hangchow.	
	"Purple Dragon"	Hangchow Filature	Hangchow.	
	"Factory"	Hsin Chang	161 Jessfield Road, Shanghai.	
	"Stork," Gold, Silver & Red	Ta Lun	Tanghsi, Hangchow.	
	"Bridge"	Tsatlee Model Filature	Nanzin, Huchow.	
2nd	"Charming Tower"	Hou Sun	Tangweichen, Outside North Gate, Kashing.	
	"Five Gold Bats"	Ming Feng Model Filature	Yaochwangpang, Outside South Gate, Wusih.	
	"Gold Globe"	Yung Tai	Tsechokiao, South Gate, Wusih.	
	"K. L. Gold K. L."	Kung Li	Sinshih.	
	"Sun Stork"	Tung Feng Yung	Tien Tung Li, Dixwell Road, Shanghai.	
	"Sun & Phoenix"	Kung Li	Sinshih.	
	"Three Bridges"	Hou Sun	Tangweichen, Outside North Gate, Kashing.	
	"Bayard"	Hsu Chang Shun	Changan Road, Chapei, Shanghai.	
	"Double Gold Eagle & Bell"	Mei Heng Yu	Nansha, Nanzi, Huchow.	
	"Double Stork"	Chung Yu	Shihhweikiao, Tangsi, Hangchow.	
	"Five Storks"	Sianglun	Tangsi, Hangchow.	
	"Flying Pagoda"	Tsatlee Filature	Nanzin, Huchow.	
	"G. S."	Ching Sin	Wukiaokong, Shwangling, Huchow.	

<i>Grade</i>	<i>Brand</i>	<i>Name of Producer</i>	<i>Address of Producer</i>	<i>Remarks</i>
	"Gold Flying Stork" "M. D."	Hwa Lun Tung Yih	Tangsi, Hangchow. 32 Shangyenkiaio Road, Shanghai.	
	"N. Z."	Nanzin Tsatlee Filature	Fangshangkong, Nanzin, Huchow.	
	"Stage"	Chien Sun	Kungyingkiaio, Wusih.	
	"Santa Claus"	Yuan Kong	Hwangputun, Wusih.	
3rd	"A"	Ching Cheng	Puanchieh, Hangchow.	
	"K. L. Black K. L."	Kung Li	Sinshih	
	"C. M. D."	Li Lung	Hsifengyang	
	"Longevity"	Ching Cheng	Puanchieh, Hangchow.	
	"New World"	Ming Feng Model Filature	Yaochwangpang, Wusih.	
	"Peace"	Ming Feng Model Filature	Yaochwangpang, Wusih.	
	"Sailing Boat"	Tsatlee Model Filature	Fanshankong, Nanzin, Huchow.	
	"Camel"	Sheng Feng	Tingtsekiaio, Wusih.	
	"Double Eagle"	Cheng Yi	Tsingmingkiaio, Wusih.	
	"Gold Double Leopard"	Feng Tai	Pingkiaotu, Pengpu, Paoshan.	
	"Moon Rabbit"	Yung Tai	Tsetsokiaio, Wusih.	
	"Rice Plant"	Hou Sun	Tangweichen, Kashing.	
	"Seven Stars"	Yuan Kong Sun	Hwangputun, Wusih.	
	"Single Deer"	Yung Tai	Tsetsokiaio, Wusih.	
	"Snow Hill & Pagoda"	Yu Chang	Chowsinchen, Wusih.	
	"Three Dancers"	Chien Sun	Kunyingkiaio, Wusih.	
	"W. T. K."	Yih An	63 Kwangfu Road, Chapei, Shanghai.	Temporarily suspended
	"Yah Fong"	Yih Feng	Hengfeng Road, Chapei, Shanghai.	
	"Blue Eagle & Globe"	Mei Heng Yu	Nanzin, Huchow.	
	"Civa"	Wei Cheng	Hsiashihtangyang, Hangchow.	
	"Double Magpie"	Yuan Yih	Kwangching Road, Wusih.	
	"Double Tiger"	Yih Chang	225 Changan Road, Chapei, Shanghai.	Temporarily suspended
	"Double Pigeon"	Ta Lun Co.	Jukong Road, Shanghai.	

<i>Grade</i>	<i>Brand</i>	<i>Name of Producer</i>	<i>Address of Producer</i>	<i>Remarks</i>
	"Double Black Tiger"	Tien Cheng	Peisngkiao, Wusih.	
	"Five Bats"	Yuan Feng	Tienpao Road, Shanghai.	
	"Gold Eagle & Flag"	Yuan Feng	Nantang, Wusih.	
	"Gold Buffalo"	Sin Lun	Yuchichen, Wusih.	
	"Gold Five Dragon"	Siu Lun	Wulungkiao, Kashing.	
	"Gold Eagle Bell"	Yu Ching	1, Wuchow Road, Shanghai.	
	"Maple"	Chien Feng	Yehfangchang, Wusih.	
	"Jeay Sung"	Chien Sun	Kungyingkiao, Wusih.	
	"Matchlessness"	Hung Shun	Manchuria Road, Shanghai.	
	"Red Flag"	Tung Yih	1176 Siehsu Road, Shanghai.	Temporarily suspended
	"Two Dancers"	Ching Sin	Wukiaokong, Shwanglin, Huchow.	
	"The Greater Shanghai"	Cheng Lun	Luchwang, Wusih.	
	"West Lake"	Tien Chang	Linszehou, Hangchow.	
4th	"Pioneer"	Chang An Filature	Changan, Haining.	
	"Standard"	Chang An Filature	Changan, Haining.	
	"Ceres"	Teh Ta Yu	Chowshanpang, Wusih.	
	"Chen Doong Fu"	Yi Feng	Tingtsekiao, Wusih.	
	"Discobolus"	Lung Kee	Changan Road, Shanghai.	
	"Double Hill"	Shwang Shan	Siashih, Haining.	
	"Double Pheasant"	Lun Siang	15 Tang Ka Lung, Shanghai.	
	"Lake & Hill"	Nanzin Tsatlee Filature	Fangshangyang, Nanzin, Huchow.	
	"A Gold A"	Tien Chang	511 Changkayang Road, Shanghai.	Temporarily suspended
	"Gold Champion"	Siang Ho	3 Chukaan Road, Shanghai.	
	"Great China"	Sheng Feng	Tingtsekiao, Wusih.	
	"Mulberry Tree Yard"	Chiu Cheng	Lijihhweikiao, Shanghai.	
	"Peace"	Yuan Feng	Tienpao Road, Shanghai.	Temporarily suspended
	"Progress"	Cheng Feng	Tingtsekiao, Wusih.	
	"Race"	Sheng Feng	Tingtsekiao, Wusih.	
	"Robin Hood"	Pao Tai	20 Jihhweikiao, Shanghai.	
	"Sailing Boat"	Chinese Tsatlee Filature	Tsili, Huchow.	
	"Sun Fish"	Tai Fu	Tatanghsia, Wusih.	
	"The Gold Cup"	Tai Fu	Tatanghsia, Wusih.	

<i>Grade</i>	<i>Brand</i>	<i>Name of Producer</i>	<i>Address of Producer</i>	<i>Remarks</i>
	"Bamboo Grove"	Lung Kee	799 Changan Road, Shanghai.	Temporarily suspended
	"Chue Dah"	Chiu Ta	Changan Road, Shanghai.	Temporarily suspended
	"Double Eagle & Globe"	Pao Ching	Winchester Road, Shanghai.	
	"D. S."	Ta Sheng	Tashengkiao, Liuying Road, Shanghai.	
	"Double Zero"	Yu Chang	Chowsinchwan, Wusih.	
	"Eagle & Tripod"	Ting Yuan	5 Markham Road, Shanghai.	Temporarily suspended
	"Green Battleship"	Tung Wei	1 Wuchow Road, Shanghai.	
	"Giraffe"	Jui Feng	Ninglungkiao, Wusih.	
	"Green Dragon"	Ta Lun	Jukong Road, Shanghai.	
	"Kingfisher"	Chien Feng	Yehfangchang, Wusih.	
	"Kwang Ing Buddha"	Lun Ta	51 N. Soochow Road, Shanghai.	
	"Kun Jih"	Kung Yih	Tienpao Road, Shanghai.	
	"Lucky Stick"	Yih Chang	225 Changan Road, Shanghai.	Temporarily suspended
	"Mulberry Tree"	Ching Tai	Kotangkiao, Wusih.	
	"Sun Flower"	Lun Siang	15 Tangkalung, Shanghai.	
5th	"Blue Dragon"	Chiu Ta	Changan Road, Shanghai.	
	"C. S."	Teh Kong	116 Manchuria Road, Shanghai.	Temporarily suspended
	"C"	Heng Kong	Hengkong Road, Shanghai.	
	"Cock"	Yung Lun	Connaught Road, Shanghai.	
	"Cow Boy"	Siang Lun	15 Tangkalung, Shanghai.	
	"Dahlia"	Yung Lun	Connaught Road, Shanghai.	
	"D. L."	Ta Lun	Jukong, Road, Shanghai.	
	"Dee"	Yu Feng	Kukawan, Shanghai.	
	"F. L."	Chien Sun	Kungyingkiao, Wusih.	
	"Five Bees"	Yung Tai Shing	Tientungan Road, Shanghai.	
	"F. C."	Yuan Yuan	17 Changhan Road, Shanghai.	Temporarily suspended
	"Flying Eagle"	Shun Feng	Changan Road, Shanghai.	
	"Foot Ball"	An Yu	2 Wuchow Road, Shanghai.	
	"Geranium"	Lun Siang	15 Tangkalung, Shanghai.	

<i>Grade</i>	<i>Brand</i>	<i>Name of Producer</i>	<i>Address of Producer</i>	<i>Remarks</i>
	"Glinding Boat"	Chiu Tai	Changan Road, Shanghai.	
	"Gold Shanghai"	Hsin Cheng	Liuying Road, Shanghai.	Temporarily suspended
	"Gold Yunzen"	Hsin Cheng	Liuying Road, Shanghai.	Temporarily suspended
	"Griffin"	Hsuchangyung	Nanmeiyuan Road, Shanghai.	
	"Gold Pagoda"	Chiu Cheng	Lijihhweikiao, Shanghai.	
	"Good Chance"	Li Chi	Tehching.	
	"Jewel Stone Buddha"	Yuan Feng	Nantang, Wusih.	
	"New World"	Yuan Feng	Tienpao Road, Shanghai.	Temporarily suspended
	"Nan Zing Tower"	Tsatlee Model Filature	Tatungkiao, Huchow.	
	"Old Coin"	Yi Feng	Tiangtsekiao, Wusih.	
	"Orang Outang"	Tien Chang	511 Changkayang Road, Shanghai.	Temporarily suspended
	"Rising Sun"	Ching Cheng	Teikungkiao, Wusih.	
	"Pine & Moon"	Yih Chang	225 Changan Road, Shanghai.	Temporarily suspended
	"Red Stork"	Van Yih	Lihwachwang, Wusih.	
	"Red Buffalo"	Shing Lun	65 Shangyenkiao Road, Shanghai.	Temporarily suspended
	"S. L."	Shing Lun	65 Shangyenkiao Road, Shanghai	Temporarily suspended
	"Silver Bear"	Pa Sze Fu	55 Kwangfu Road, Shanghai.	Temporarily suspended
	"Sun Deer"	Ta Lun	Jukong Road, Shanghai.	
	"Seasonal Flower"	Hsu Kong	54 North Socchow Road, Shanghai.	
	"Tai Lai"	Tien Lai	Corner of Kungho & Heng- feng Roads, Shanghai.	
	"The Ability of Labor"	Pao Ching	Winchester Road, Shanghai.	
	"Tienzen"	Pao Sze Fu	55 Kwangfu Road, Shanghai.	Temporarily suspended
	"Wusih Park"	Jui Chang	Chow Shan Pang, Wusih.	
	"Wuchow Mountai"	Yu Ching	1 Wuchow Road, Shanghai.	
	"Y. F. F."	Yih Chang	Hengfeng Roads, Shanghai.	
	"Yuan Shi Kai"	Feng Tai Shun Kee	Pingkiangkiao, Pengpu, Paoshan,	

<i>Grade</i>	<i>Brand</i>	<i>Name of Producer</i>	<i>Address of Producer</i>	<i>Remarks</i>
6th	"Y. L."	Yu Lun	Tihsukiao, Wusih.	
	"Yue Chang"	Yi Chang	Taikakiao, Shanghai.	
	"Chin Chin"	Chju Tai	Changan Road, Shanghai.	
	"Fishing Boat"	Sun Yuan	60 N. Thibet Road, Shanghai.	
	"Gold Mulberry Leaves"	Yuan Yuan	17 Changan Road, Shanghai.	Temporarily suspended
	"Horse"	Tien Lai	Corner of Kungho & Hengfeng Road, Shanghai.	
	"N. C. C."	Tung Yih	23 Shangyenkiao, Shanghai.	
	"N. T. K."	Yih An	63 Kwangfu Road, Kungyinkiao, Wusih.	Temporarily suspended
	"Palm Tree"	Chien Sun		
	"Parrot & Grapes"	Teh Ta Yu	Chowshanpang, Wusih.	
	"S. S. S."	Pa Sze Fu	55 Kwangfu Road, Shanghai.	Temporarily suspended
7th	"Double Well"	Hsu Chang Sheng	Hengfeng Road, Shanghai.	
	"Eagle Stork"	Hsu Chang Yung	Nanmeiyuan Road, Shanghai.	
	"Fountain"	Yuan Yuan	17 Changan Road, Shanghai.	Temporarily suspended

APPENDIX F

REGULATIONS OF THE SHANGHAI BUREAU OF INSPECTION AND TESTING OF COMMERCIAL COMMODITIES, MINISTRY OF INDUSTRIES

Raw Silk Testing Department (Promulgated August 20, 1931)

- Art. I. The following regulations are drawn in accordance with the provisions made in Article II, Section III, and Article XXI of the Tentative Regulations for the Inspection and Testing of Exports.
- Art. II. Tests performed by the Raw Silk Testing Department of the Bureau shall be classified as follows:
1. *Quantity Test*: Conditioned Weight, Net Weight, and Boil-off.
 2. *Quality Test*: Evenness, Cleanness, Neatness, Sizing, Winding, Strength, Cohesion etc.
- Art. III. Raw silk exported through Shanghai shall in accordance with these regulations be submitted for conditioning to the Raw Silk Testing Department of the Shanghai Bureau of Inspection and Testing of Commercial Commodities. Raw Silk shall not be permitted to pass through the Chinese Maritime Customs unless it is accompanied by official export permit for conditioned weight. Quality tests and quantity tests other than conditioned weight test shall be at the option of the party applying for the tests.
- Art. IV. No transaction in raw silk, purchase, sale or dealing in any other manner for purposes of export may be effected at Shanghai except on the basis of the conditioned Weight determined by the Bureau.
- Art. V. These regulations shall not apply to the export of silk falling under the following items:
1. Export dupion and silk waste.
 2. Transactions in or export of silk which is not domestic product.
 3. Transactions in or export of silk to be used as samples, provided that the quantity thereof shall not be more than one bale.
 4. Transactions in or export of silk to be used as exhibits in exposition and fairs, as specimens, or for scientific and other purposes which are other than the acquisition of gain.
- In the case of Item 1, the fact that the package contains dupion or silk waste shall be indicated on the outside of the bale and/or package.
- Art. VI. The party applying for tests to the Raw Silk Testing Department of the Bureau shall submit to the officer in charge the official application form together with the goods to be tested, and also testing charges, for which an official receipt properly signed by the officer in charge shall be issued.
- Art. VII. Samples for test shall be taken officially by the Bureau. The applicant shall not designate any samples for test.
1. *Sampling for Conditioned Weight Test*: The number of bales sampled for conditioning shall be 40% of the total number of bales in a lot (fraction counted over). From each of the bales two samples of sufficient number of skeins to weight approximately 540 grams each shall be drawn, not more than one skien shall be taken from any one book.

2. *Sampling for Book-off Test:* Sampling shall be applied to at least 10% of the lot (fraction counted over). Ten skeins shall be drawn at random from the bale and a composite sample of 100 grams shall be taken for the test.

3. *Sampling for Quality Test (a) Sample for Bale:* The sample for a test on a bale shall consist of at least ten average original skeins, selected at random from different parts of the bale, not more than one skein to be drawn from any one book or bundle. Test samples for two or more different kinds of tests may be taken from the original ten skeins.

(b) Composite Sample for Lot: When it is necessary to make an exhaustive test a composite sample for a five or ten bale lot shall consist of at least four original skeins from each bale, selected at random from different parts of the bale; twenty skeins will represent a five bale lot, 40 skeins a ten bale lot, not more than one skein shall be drawn from one book or bundle and the entire number of skeins shall be treated as one sample. Test samples for two or more different kinds of tests may be taken from the original skeins.

Lots consisting of more than ten bales shall be divided into ten bale lots, including consecutive numbers; each ten bale lot or fraction thereof shall be sampled independently as described above. For lots of less than five bales twenty skeins shall be drawn equally distributed from all bales of the lot.

Art. VIII. Tests shall be performed in sequence in accordance with the order of applications received and shall be completed within fourteen (14) working hours from the time when the applications and materials are received.

Art. IX. The packing and unpacking of raw silk for the purpose of performing tests shall be done by the Bureau, and in case of necessity the Bureau may cause the applicant to be present.

Art. X. When the Raw Silk Testing Department completes the test, the original and duplicate certificates of the tests, and in the case of conditioned weight the official Export Permit, shall be delivered to him.

Art. XI. When tests are completed the applicant shall without delay take delivery of the silk and return the official receipt to the Raw Silk Testing Department. In case the applicant does not take delivery of the raw silk, the Raw Silk Testing Department of the Bureau shall return the silk to the applicant at the latter's expense.

Art. XII. Testing charges shall be collected according to the following schedule:

1. QUANTITY TEST.

Test No. A—Conditioned weight test.

(1) Steam Filatures, per bale \$ 2.00

(2) Tsatlees and Tussahs, per bale \$ 1.00

Test No. B—Net weight test with detailed tare per bale .. \$ 1.00

Test No. C—Boil-off test, 100 grams from 10 skeins .. \$ 2.00

2. QUALITY TEST.

Quality tests can be applied free of charge.

Storage—per bale for one month or fraction thereof .. \$.50

Art. XIII. These regulations shall take effect upon approval and promulgation by the Ministry of Industries.

APPENDIX G

INVESTIGATION SCHEDULE OF FACTORIES AND WORKSHOPS IN THE MUNICIPALITY OF GREATER SHANGHAI

1. NAME OF FACTORY
2. LOCATION
 - Location of factory
 - Location of business office
3. NAME OF OWNER OR MANAGER OF FACTORY
4. NATURE OF BUSINESS
5. DATE OF ESTABLISHMENT OR REORGANIZATION
6. NAME OF FACTORY BEFORE REORGANIZATION
7. BUSINESS ORGANIZATION
 - Single proprietorship
 - Partnership
 - Limited liability corporation
 - Unlimited liability corporation
 - Others (specify their nature)
 - (Mark out one.)
8. CAPITAL & RESERVE
 - Authorized capital
 - Paid-up capital
 - Percentage of foreign capital
 - a. Nationality } 1 } 2 } 3 } 4 } 5
 - b. Percentage } } } } }
 - Reserve
9. OFFICERS (Including Manager).
 - Number
 - Male Female.....
 - Monthly salary
 - drawn equally distributed from all bales of the lot.
 - Any bonus paid?
 - Total amount of salaries paid last year
10. WORKERS

Number:	Time work	Piece work
Male workers	_____	_____
Female workers	_____	_____
Child workers	_____	_____
Apprentices	_____	_____
Highest monthly wage:		
Male workers	_____	_____
Female workers	_____	_____
Child workers	_____	_____
Apprentices	_____	_____

Lowest monthly wage:-

Male workers	_____	_____
Female workers	_____	_____
Child workers	_____	_____
Apprentices	_____	_____

Any bonus paid?

Male workers	_____	_____
Female workers	_____	_____
Child workers	_____	_____
Apprentices	_____	_____

Total amount of wages paid last year

Number of workers required when factory is in full operation

11. WORKING PERIOD.

Months per year

Days per month

Hours per day (time for meals excluded)

from.....a.m. to.....a.m.

from.....p.m. to.....p.m.

12. ANY NIGHT SHIFT?

How many hours? (from.....p.m. to.....a.m.)

What wages paid?

Is there night shift every day?

How many workers doing night work?men,.....women,
.....children (including apprentices)

13. ARE MEALS SUPPLIED?

What charges per person per month?

14. ARE LODGINGS SUPPLIED?

What charges per person per month?

15. FACTORY BUILDING

Modern or old style

Number of buildings

Date of construction

Owned or rented

16. POWER

Kind of power	No. of engines	How many H.P. or K.W.
---------------	----------------	-----------------------

(1) Steam engine	_____	_____H.P.
------------------	-------	-----------

(2) Steam turbine	_____	_____H.P.
-------------------	-------	-----------

(3) Petrol engine	_____	_____H.P.
-------------------	-------	-----------

(4) Electric generator	_____	_____K.W.
------------------------	-------	-----------

(5) Electric motor	_____	_____H.P.
--------------------	-------	-----------

Made in what country?(1).....(2).....(3)

.....(4).....(5)

What company supplies the electric current?

17. PRINCIPAL MACHINES

	(1)	(2)	(3)	(4)	(5)
Name	_____	_____	_____	_____	_____
Number	_____	_____	_____	_____	_____
Brand	_____	_____	_____	_____	_____

Made in what
country? _____
Monthly productive
capacity (Refer-
ring to full capa-
city of machines
working day and
night) _____

18. RAW MATERIALS

	(1)	(2)	(3)	(4)	(5)
Name	_____	_____	_____	_____	_____
Principal sources of supply	_____	_____	_____	_____	_____
Buying and selling unit	_____	_____	_____	_____	_____
Quantity required per month by this factory	_____	_____	_____	_____	_____
Total estimated cost per month	_____	_____	_____	_____	_____

19. PRODUCTS

	(1)	(2)	(3)	(4)	(5)
Name	_____	_____	_____	_____	_____
Brand	_____	_____	_____	_____	_____
Principal markets	_____	_____	_____	_____	_____
Packing unit and weight per package	_____	_____	_____	_____	_____
Maximum production per year, month or day (Referring to full capacity of machines and machines and labour during the whole specified time)	_____	_____	_____	_____	_____
Actual production last year, month or day	_____	_____	_____	_____	_____
Estimated value last year, including value of products in stock	_____	_____	_____	_____	_____

20. REMARKS

.....

.....

Name of investigator

Filled on.....day.....month.....year.

ERRATA

<i>Page</i>	<i>Line</i>	<i>Column</i>	<i>Error</i>	<i>Correction</i>
iii	27		Number or reels	number of reels
1	2		old-fashioned	the old-fashioned
1	25		Chichang	the Chichang
1	30		Lunghwa	Lunghwa
3	10		increased demand	increased domestic demand
4	21		Statistical	Statistical
5	4 (table)	3	12,392	13,392
5	foot-note 1		Commercial	Commercial Com- modities
5	foot-note 2			add: The <i>Handbook</i> gives figures for all years from 1917 to 1932, but they differ very much from ours, and the source of information is not indicated. For instance, according to the <i>Handbook</i> , there were more filatures in 1932 than in any previous year and more reels than any year except 1931, while we know for certain that no new filatures were constructed in 1932 but many old ones were destroyed or dismantled. We take the 1927 figure from it at the last moment after we have failed to secure the data elsewhere, which explains why this figure is not shown in the chart on the next page.

Page	Line	Column	Error	Correction
7	6		Statistics	Statistics
8	foot-note 5		Commission.	omit the period
12	6-7		prospects	prospects
12	23		circumstances	circumstances
18	34		prices	pieces
19	10		have ben	have been
38	on top of table		*	omit
43	19 (table)	8	..	omit
66	Table XXIVa Total		20,973,101.00	20,973,101.60
81	16		611-616	411-616
92	2 (table)	5	11.28	11.35
93	17 (table)	7	— (Fileuses H)	3
93	20 (table)	1	13.00-18.49	13.00-18.49
94	1 (table)	7	3 (Fileuses H)	omit
100	Table XL heading		Filatures No. of	No. of Filatures
104	11, 15, 19 & 23		1.65	16.5
107	8 (table)	2	\$1.90	omit
107	11 (table)	1	Changan	omit
107	11 (table)	2	\$1.00	omit
107	17		way Administration	Administration
110	column 1 heading		Quantity (piculs)	Quantity (catties)
123	12 (table)	2	140 Fulun	440 Fulun
123	foot-note D		duplion	dupion
124	21 (table)	1	530 Changan Road (or Hengfeng Road)	530 Changan Road (or 1 Hengfeng Road)
126	17 (table)	4-5	Lifeng, Est. 1929	Lifeng, Est. 1926
128	2,3	7	*	omit
128	2,3	8		add ** before data of February and March, 1932
140	27 under 9. Officers		drawn equally distributed from all bales of the lot	omit
142	32 under 19. Products		machines and	omit

Note—The lines are counted without including the tables, but they do include the headings of the written report. In case of errors in the tables, only the lines in the body of the tables are counted, excluding all the headings.