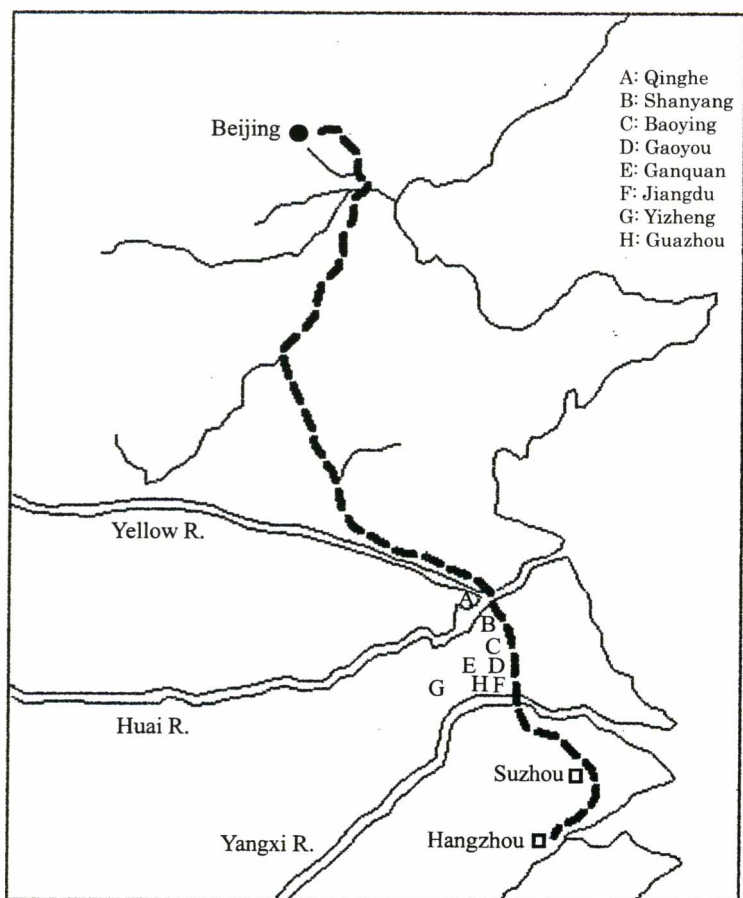


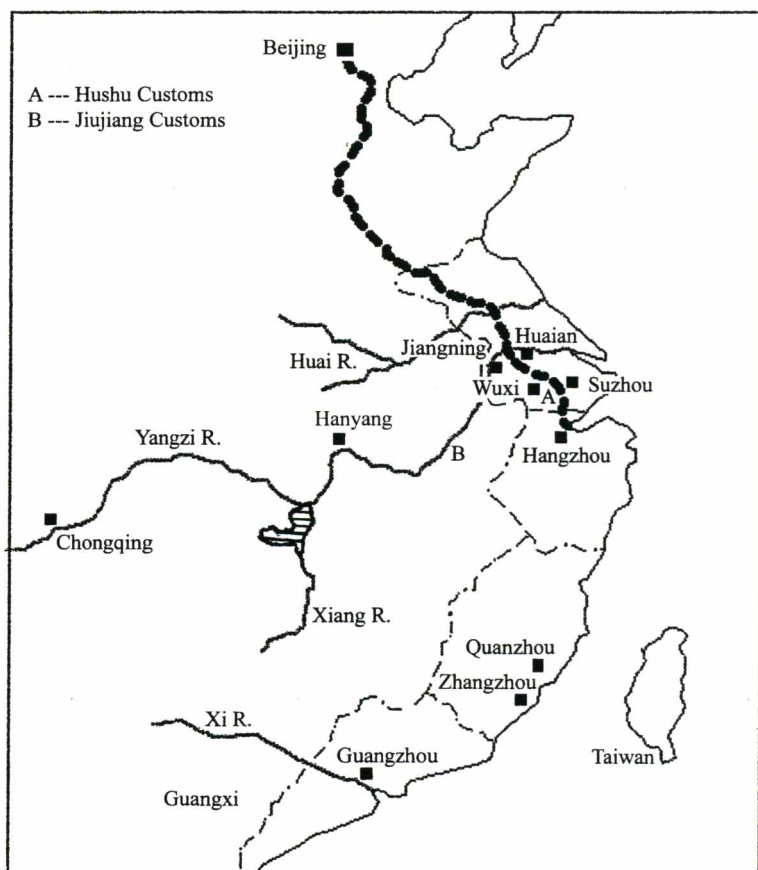
Map 2: The Huai River Valley

Source: Takino Shojiro,

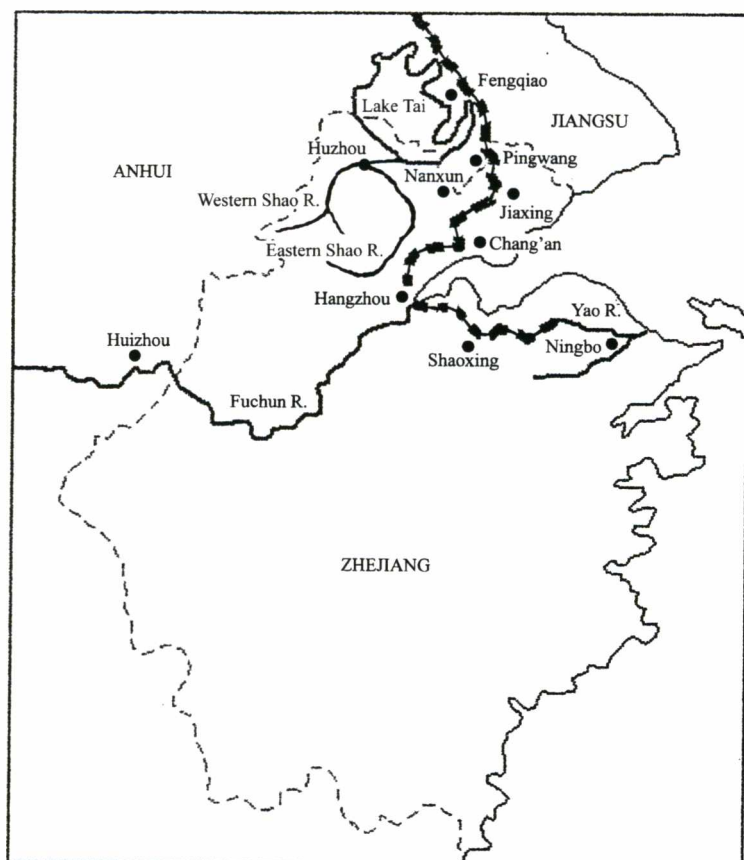
"Shindai no Hoyokan omeguru bussai ryutsu nitsuyite: Kenryu nenkan o chushin ni," in
Wada Hirorori Kyoju Kokikimen Minshinjidai no ho to shakai (Tokyo: Kyuko Shoin, 1993), p.494



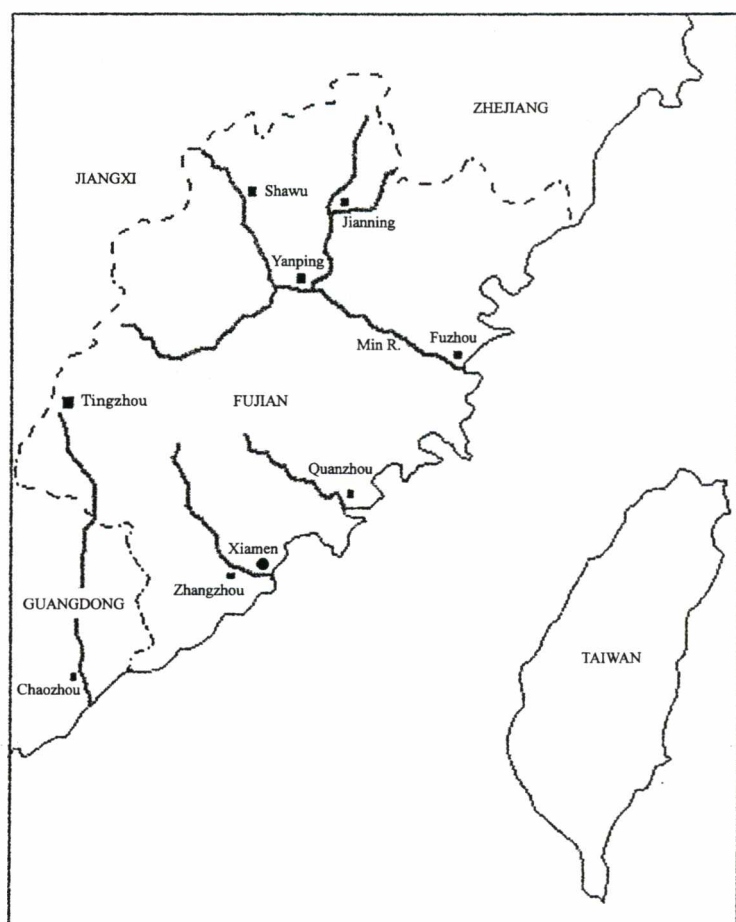
Map 3: Market Centres of Illegal Salt



Map 4: Major Market Cities



Map 5: Zhejiang Province



Map 6: Fujian Province



Map 7: Hunan Province

Table 1.1: Grain Tribute Tax Quotes of 1735

Province	Grain	Grain Tribute to Beijing (shi)	Wastage	Grain Tribute to Tongzhou (shi)	Wastage	Total (shi)
Shandong	Millet	151,000	37,000	77,000	13,000	278,000
Henan	Millet	95,000	25,000	47,000	8,000	175,000
Anhui	Millet & Rice	310,000	110,000	129,000	33,000	582,000
Jiangsu	Rice	1,008,000	403,000	92,000	27,000	1,530,000
Zhejiang	Rice	587,000	234,000	29,000	11,000	861,000
Jiangxi	Rice	351,000	186,000	151,000	80,000	768,000
Hubei	Rice	94,000	37,000	0	0	131,000
Hunan	Rice	95,000	38,000	0	0	133,000
Total		2,691,000	1,070,000	525,000	172,000	4,458,000

Source: *Caoyun quanshu* (1736), pp. 10-35.

Notes: There were some modifications to the above quotas in the later years of the eighteenth century. In 1746, Henan was ordered to deliver 10,000 *shi* of wheat in lieu of the same amount of millet. In 1788, this levy of wheat was increased to 36,000 *shi* which accounted for 30 per cent of the total amount of grain tribute tax in Henan. (See *Qinding Hubu caoyun quanshu*, 1766, 7/13a and 8/8b.) The wheat was collected for the use of the court itself.

Table 1.2
A Comparison of the Rice Prices in Suzhou and Beijing

Year	Suzhou	Beijing (old rice)
1729	1.20 taels/ <i>shi</i>	1.03 taels/ <i>shi</i>
1730	1.20 taels/ <i>shi</i>	1.20 taels/ <i>shi</i>
1743	1.60 taels/ <i>shi</i>	1.37 taels/ <i>shi</i>
1751	1.93 taels/ <i>shi</i>	1.65 taels/ <i>shi</i>
1761	1.82 taels/ <i>shi</i>	1.68 taels/ <i>shi</i>

Sources:

The price data in Suzhou is for second-grade rice and is cited from Yeh-chien Wang, "Secular trends of rice prices in the Yangzi delta, 1638-1935," Table 1.1.

The price data of the "old rice" in Beijing was recorded in the following government documents:

1. *Caoyun quanshu* (1736), p. 528 and 540-1.
2. *Gongzhong liangjiadan*, Zhili province, microfilm, reel no. 1.
3. *Zhupi zouzhe*, microfilm, reel no. 55, pp. 1672-5; reel no. 56, pp. 2415-20.
4. *Lufu zouzhe*, microfilm, reel no. 50, p.1926.

Table 2.1
Schedule of Grain Tribute Transport

Origin of grain tribute boats	Deadline to leave waterside depot (end of the...)	Deadline to cross the Huai river (end of the...)	Deadline to reach Tongzhou before the...)
Shandong	1 st lunar month		3 rd lunar month
Henan	1 st lunar month		3 rd lunar month
Jiangbei*		12 th lunar month	4 th lunar month
Jiangnan**		1 st lunar month	5 th lunar month
Zhejiang		2 nd lunar month	6 th lunar month
Jiangxi		2 nd lunar month	6 th lunar month
Huguang		2 nd lunar month	6 th lunar month

Source: *Caoyun quanshu* (1736), p. 262.

Notes:

As seen in the *Caoyun quanshu*, there was no regulation concerning the departure time of Yangzi grain boats from their irrespective waterside depots, but a regulation stipulated that the transfer of grain tribute from magistrates to bannermen had to be completed within the twelfth lunar month; and another regulation required the bannermen to depart the waterside depots immediately after they had collected all their grain tribute. See *Caoyun quanshu* (1736), p. 256.

* “Jiangbei” refers to the regions of the Jiangsu and Anhui provinces located in the north of the Yangzi river.

** “Jiangnan” refers to the regions of the Jiangsu and Anhui provinces located in the south of the Yangzi river.

Table 2.2
Grain Tribute Sold for Price Stabilization in the Capital

Year	Amount (<i>shi</i>)
1737	10,000
1758	50,000
1759	50,000
1762	50,000
1771	50,000
1775	80,000
1778	35,000
1787	66,000
1788	34,000
1790	30,000
1792	50,000

Sources: *Caoyun quanshu* (1736), pp. 545 and 548; *Zhupi zouzhe*, microfilm, reel no. 54, pp. 1520-2; *Gaozong shilu*: 40/3a-4a; *Ming-Qing dang'an*: A199-77; *Qinding hubu Caoyun quanshu* (1766), *juan* 65.

Table 2.3
Tribute Grain Retained in or
Diverted to Provinces (By Year)

Year	Amount of Grain (<i>shi</i>)	Retained in or Diverted to (Province)
1708	230,000	Jiangsu (100,000) Zhejiang (80,000) Anhui (50,000)
1710	300,000	Fujian (300,000)
1719	430,000	Jiangsu (330,000) Anhui (100,000)
1723	200,000	Shandong (200,000)
1725	300,000	Zhili (300,000)
1726	125,000	Fujian (100,000) Zhili (25,000)
1728	100,000	Fujian (100,000)
1731	1,350,000	Zhili (400,000) Henan (400,000) Shandong (400,000) Jiangsu (150,000)
1733	900,000	Jiangsu (700,000) Zhejiang (100,000) Shandong (100,000)
1734	300,000	Jiangsu (200,000) Shandong (100,000)
1737	300,000	Zhili (300,000)
1739	200,000	Jiangsu (200,000)
1742	1,582,000	Jiangsu (860,000) Anhui (582,000)* Shandong (140,000)
1743	1,680,000	Zhili (500,000) Shandong (280,000) Fujian (200,000) Jiangsu (100,000) Anhui (100,000) Zhejiang (100,000) Jiangxi (100,000) Hubei (100,000) Guangdong (100,000) Hunan (60,000) Guangxi (40,000)

1745	150,000	Jiangsu (100,000) Anhui (50,000)
1751	300,000	Zhejiang (300,000)
1753	200,000	Zhili (200,000)
1755	300,000	Jiangsu (300,000)
1756	150,000	Jiangsu (100,000) Zhejiang (50,000)
1757	450,000	Henan (250,000) Jiangsu (150,000) Anhui (50,000)
1759	800,000	Zhili (800,000)
1761	875,000	Zhili (400,000) Shandong (100,000) Henan (175,000)** Jiangsu (100,000) Zhejiang (100,000)
1762	500,000	Zhili (500,000)
1763	150,000	Zhili (150,000)
1764	200,000	Jiangsu (100,000) Zhejiang (100,000)
1778	250,000	Shandong (150,000) Henan (100,000)
1782	90,000	Zhili (90,000)
1784	200,000	Jiangsu (100,000) Zhejiang (100,000)
1790	320,000	Shandong (320,000)
1792	700,000	Zhili (300,000) Henan (200,000) Shandong (200,000)
1798	804,000	Shandong (677,000) Henan (127,000)
1800	60,000	Jiangsu (40,000) Hubei (20,000)

Sources: The data is taken from Yang Xifu, *Caoyun zeli zuan*, 17-8; *Qinding Hubu caoyun quanshu* (1766), *juan* 69-70, and scattered figures recorded in the following edicts and memorials: GZD-YZ: vol. 7, p. 60 (YZ 4.12.4), vol. 11, p. 690 (YZ 6.11.5), vol. 18, p. 4 (YZ 9.4.9), vol. 21, p. 126 (YZ 11.2.13), vol. 22, p. 168 (YZ 11.9.28); *Lufu zouzhe*,

microfilm, reel no 3, pp. 34-8 (YZ 12); GZD-QL: vol. 1, p. 661 (QL 16.9.14).

Note:

* In 1742, the Qianlong emperor ordered Anhui government to retain all of its tribute grain tax for famine relief. (See Yang Xifu, *Caoyun zeli zuan*, 18/67b-68a.) According to Table 2.1, the annual quota of grain tribute tax levied in Anhui was 582,000 *shi*.

** In 1761, Henan was allowed to retain all of its grain tribute tax in local province. (See Yang Xifu, *Caoyun zeli zuan*, 18/67b-68a.) As also seen in Table 2.1, the annual quota of grain tribute tax levied in Henan was 175,000 *shi*.

Table 2.4
Tribute Grain Retained in or
Diverted to Provinces in the Eighteenth Century
(By Province)

Province	Amount of Grain (shi)
Zhili	3,965,000.
Jiangsu	3,630,000.
Shandong	2,667,000.
Henan	1,252,000.
Zhejiang	930,000.
Anhui	932,000.
Fujian	700,000.
Hubei	120,000.
Jiangxi	100,000.
Guangdong	100,000.

Source: From Table 2.3.

Table 3.1
Price Index of Rice (upper-grade) in Suzhou
[Base year: 1713]

Year	Tael/<i>Shi</i>	Index
1706	1.39	140
1707	1.25	126
1708	1.65	167
1709	1.35	136
1712	0.80	81
1713	0.99	100
1714	1.05	106
1715	1.17	118
1716	1.10	111
1717	1.05	106
1718	0.96	97
1719	0.86	87
1748	2.00	202
1770	4.46	451
1786	4.30	434

Source: Chuan Han-sheng, “Meizhou baiyin yu shiba shiji Zhongguo wujia gemin de guanxi,” vol. 2, pp. 483-4.

Table 3.2
Price Series of Suzhou and
Xiaoshan, 1781-1800

Year	Suzhou series (tael)	Xiaoshan series (tael)
1781	1.68	2.30
1782	1.98	2.00
1783	2.05	1.90
1784	1.77	2.05
1785	2.09	3.50
1786	2.63	3.50
1787	2.19	2.10
1788	1.62	2.10
1789	1.49	2.00
1790	1.42	2.00
1791	1.46	2.20
1792	1.37	2.50
1793	1.36	3.30
1794	1.44	3.50
1795	1.37	2.70
1796	1.23	2.20
1797	1.18	2.75
1798	1.16	2.18
1799	1.20	1.85
1800	1.26	2.85

Sources: The “Suzhou series” is drawn from Yeh-chien Wang, “Secular trends of rice prices in the Yangzi delta, 1638-1935,” Table 1.1. The Xiaoshan series is drawn from Tanaka Issei, “Shindai Settō sōzoku no soshiki keisei ni okeru sōshi engeki no kinō ni tsuite,” Table 4 (pp. 47-50).

Table 3.3
Prices in Xiaoshan, 1786-1805

Year	Prices of each <i>shi</i> of rice (in legal cash)	Exchange rate of each <i>kuping</i> tael of silver (in legal cash)	Exchange rate of each dollar of foreign silver (in legal cash)
1786	n.a.	1000(-)	n.a.
1792	2800-3100	1300	1000(-)
1793	n.a.	n.a.	n.a.
1794	3300-3400	1440-1450	n.a.
1795	n.a.	n.a.	1070-1090
1796	n.a.	n.a.	1200-1300
1797	n.a.	1020-1030	800-1200
1798	n.a.	n.a.	n.a.
1799	n.a.	n.a.	840-845
1800	n.a.	1000	760-880
1801	n.a.	900	650
1802	2600-3200	n.a.	650-660
1803	n.a.	n.a.	n.a.
1804	3000	n.a.	n.a.
1805	3000-4600	n.a.	n.a.

Sources: Wang Huizu, *Bingta mengkan lu, xia*, 56b-79b; *Menghen luyu*, 5a-88a.

Table 3.4
Silver Shipped to Guangzhou by the
British East India Company

Year	Tael	Kilogram (1 tael=0.0378 kg)
1786	2,062,080.	77,947.
1787	1,912,320.	72,286.
1788	2,094,878.	79,186.
1789	1,321,920.	49,969.
1790	2,315,520.	87,527.
1791	172,800.	6,532.
1792	518,400.	19,596.
1793	0.	0.
1794	0.	0.
1795	0.	0.
1796	120,960.	4,572.
1797	626,570.	23,684.
1798	1,321,984.	49,971.
1799	1,616,954.	61,121.
1800	440,103.	16,636.

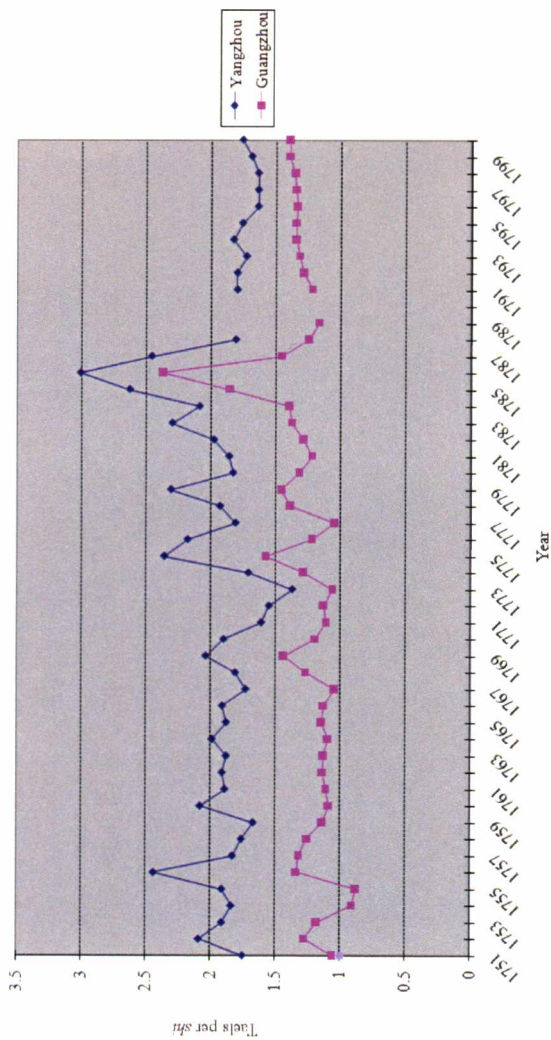
Source: H.B. Morse, *The Chronicles of the East India Company Trading to China, 1635-1834*, vol. 2, pp. 119, 135, 151, 172, 179, 184, 192, 205, 256, 266, 278, 294, 310, 321 and 347.

Table 4.1
Prices of First-Grade Rice in Hanyang, 1739-1798

Year	Hanyang	Year	Hanyang	Year	Hanyang
1739	1.1	1759	1.28	1779	2.2
1740	1.1	1760	1.34	1780	1.51
1741	1.05	1761	1.49	1781	1.49
1742	1.23	1762	1.49	1782	1.56
1743	1.31	1763	1.38	1783	1.57
1744	1.1	1764	1.44	1784	1.75
1745	1.05	1765	1.59	1785	2.21
1746	1.15	1766	1.51	1786	2.1
1747	1.28	1767	1.43	1787	1.95
1748	1.36	1768	1.44	1788	1.67
1749	1.36	1769	1.47	1789	NIL
1750	1.26	1770	1.5	1790	NIL
1751	1.52	1771	1.34	1791	NIL
1752	1.72	1772	1.32	1792	1.56
1753	1.46	1773	1.34	1793	1.53
1754	1.43	1774	1.49	1794	1.49
1755	1.48	1775	1.59	1795	1.43
1756	1.71	1776	1.55	1796	1.44
1757	1.44	1777	1.37	1797	1.48
1758	1.3	1778	1.89	1798	1.56

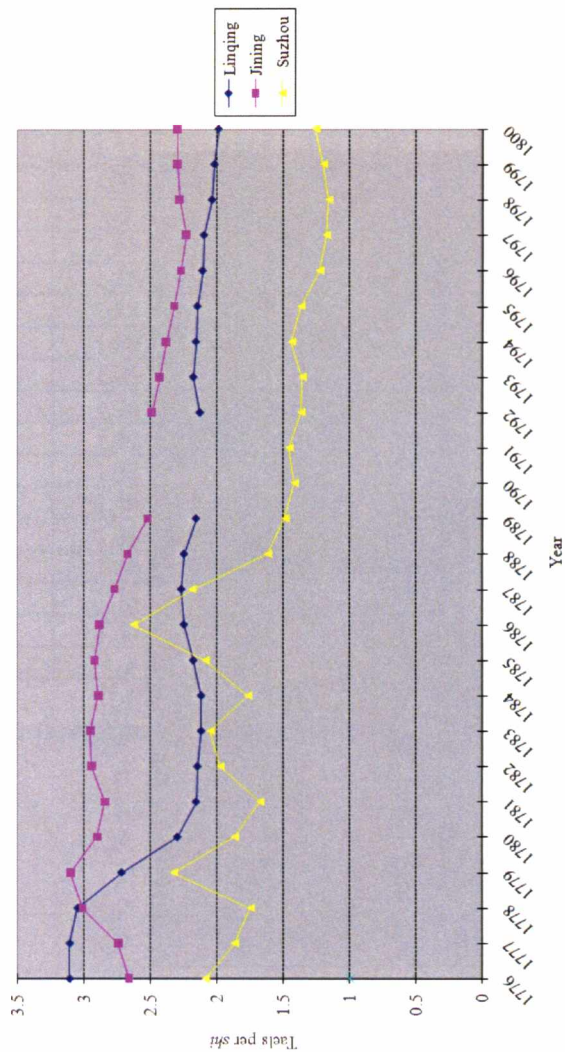
Source: *Gongzhong liangjiadan*, Hubei, reel no. 1.

Figure 1.1: Prices of rice in Yangzhou and Guangzhou (Henan Province), 1751-1800



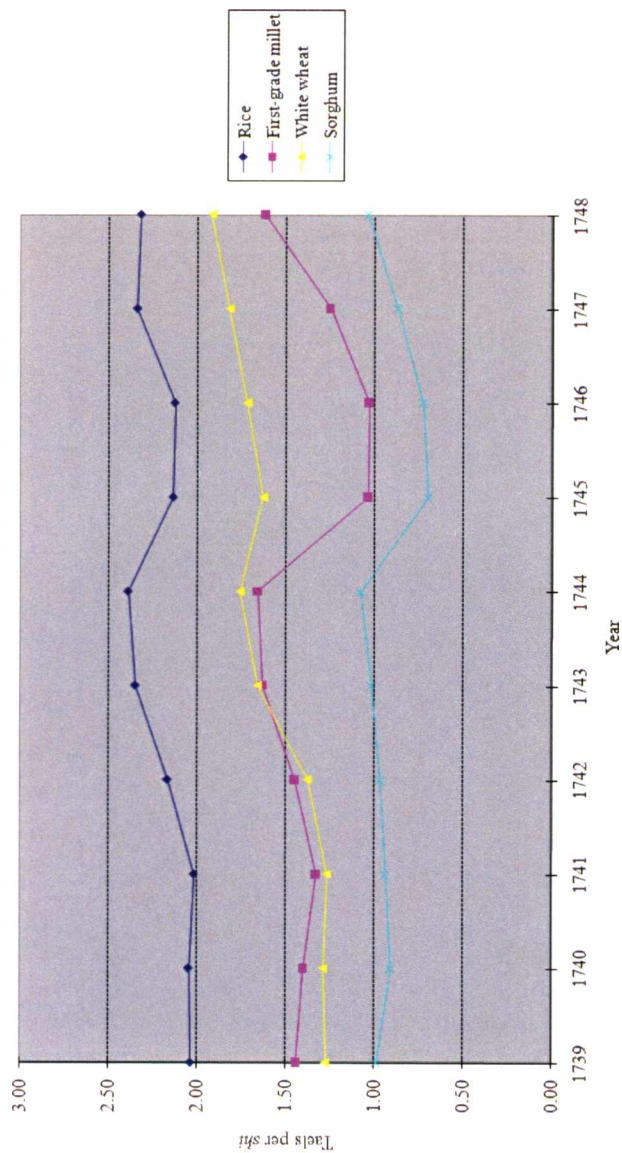
Sources: Gongzhong liangjiadan, Jiangsu, microfilm, reel no. 3-7
 Gongzhong liangjiadan, Henan, microfilm, reel no. 1-5

Figure 1.2. Prices of rice in Suzhou, Jining and Linqing, 1776-1800



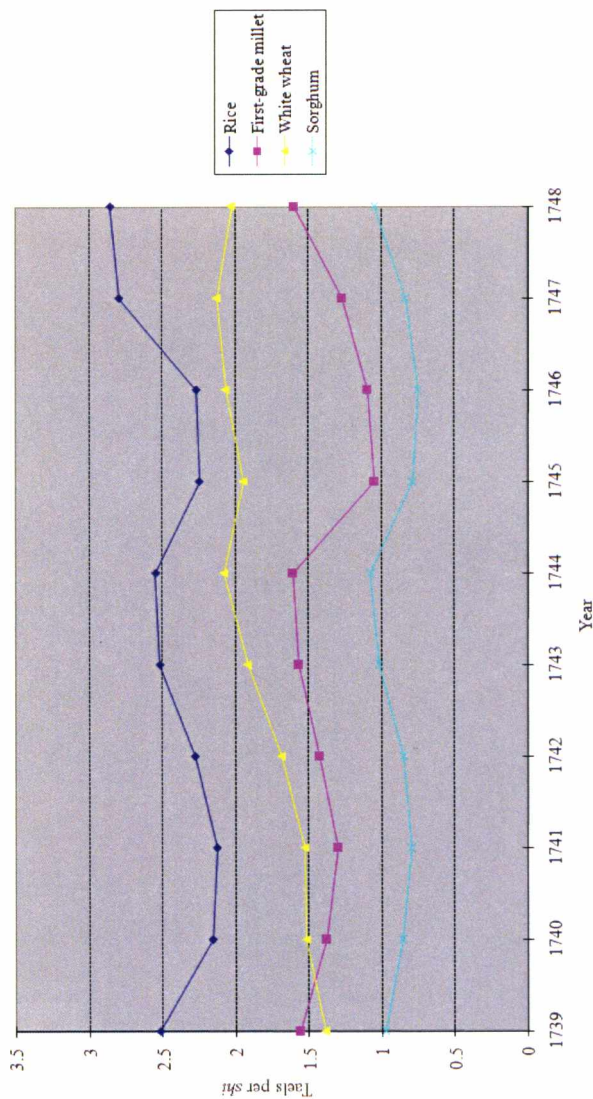
Sources: Gongzhong liangjiadan, Shandong, microfilm, reel no. 1-6
Yeh-chien Wang, "Secular trends of rice prices in the Yangzi delta, 1638-1935," Table 1.1.1.

Figure 1.3: Grain Prices in Tianjin, 1739-1748



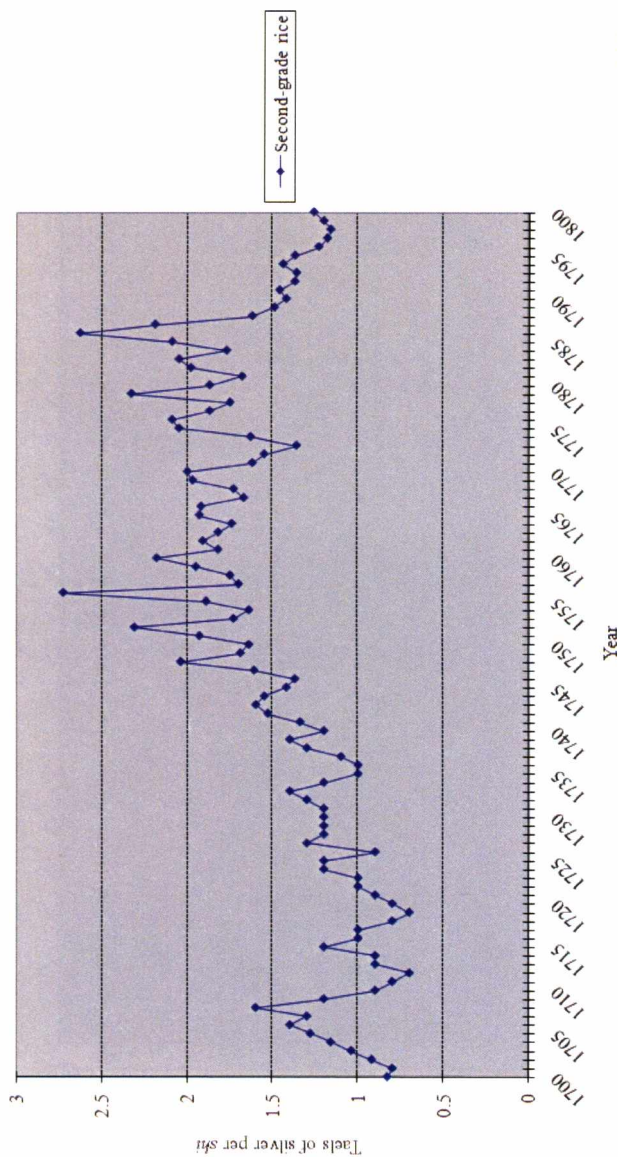
Source: Gongzhong liangjiadan, Zhili, microfilm, reel no. 1-2

Figure 1.4: Grain Prices in Baoding, 1739-1748



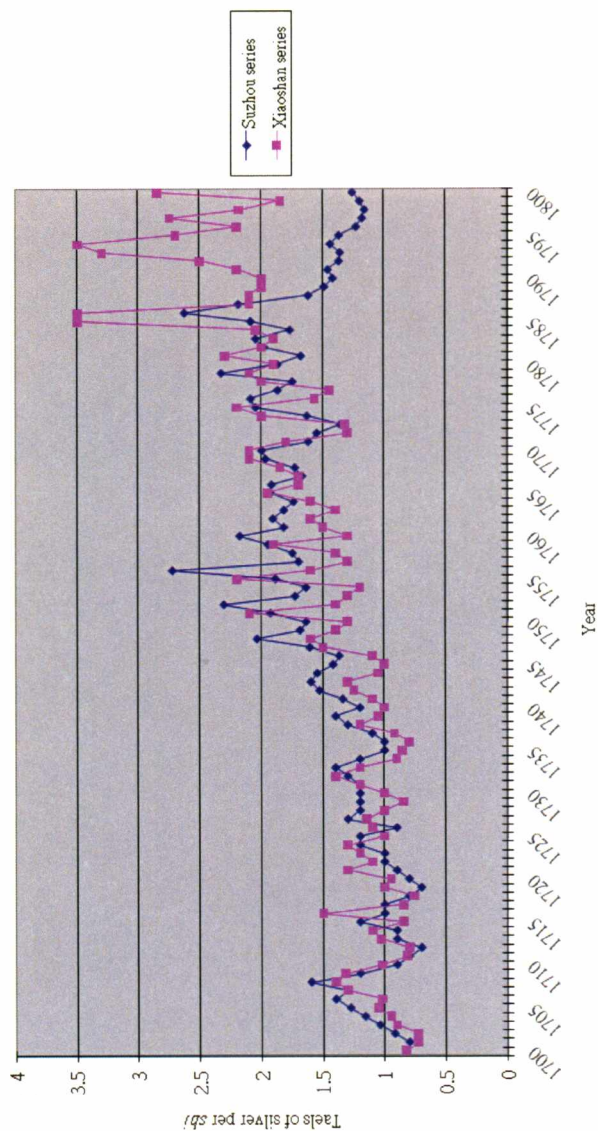
Source: Gongzhong liangjiadan, Zhili, microfilm, reel no. 1-2

Figure 3.1: Trend of rice prices in Suzhou, 1700-1800



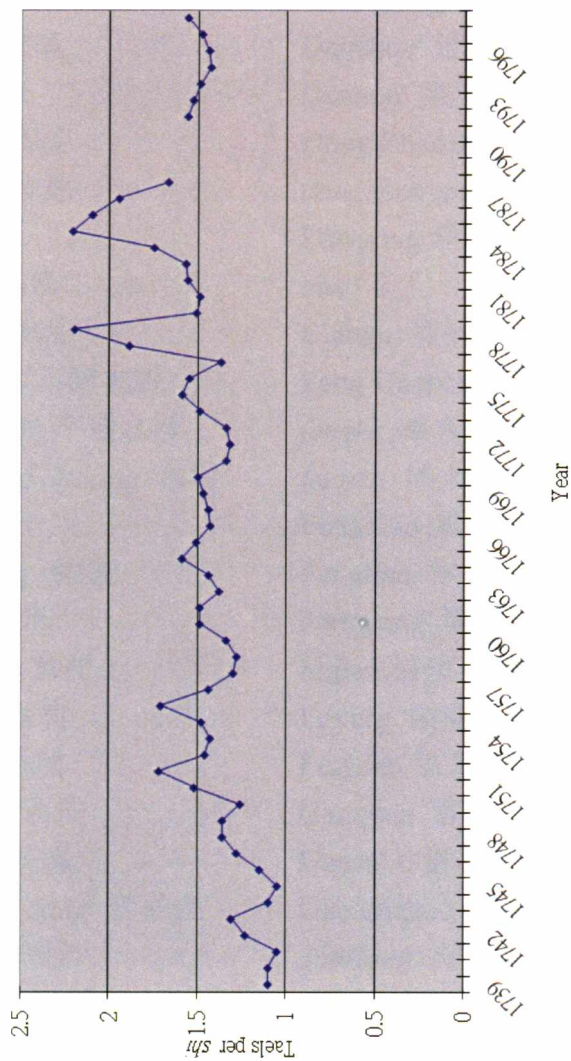
Source: Yeh-chien Wang, "Secular trends of rice prices in the Yangzi delta, 1638-1935," Table 1.1

Figure 3.2: Trend of rice prices in Suzhou and Xiaoshan, 1700-1800



Source: Data is taken from Table 3.2

Figure 4.1: Prices of first-grade rice in Hanyang, 1739-1798



Source: Data is taken from Table 4.1

Glossary

Anhui 安徽	Chongqing 重慶
Anning 安寧	Daozhou 道州
<i>baimi</i> 白米	Dezhou 德州
Baoding 保定	Dong Zhaozuo 董昭祚
Baoying 寶應	<i>dongchongmi</i> 冬春米
Baqi 八旗	Dongting 洞庭
Bianxiu 編修	<i>dou</i> 斗
<i>bochuan</i> 剝船	E'zhou 鄂州
<i>bu'an dati</i> 不諳大體	Fang Guancheng 方觀承
<i>butong zhiji</i> 不通之極	<i>fengke</i> 風客
<i>Cangchang Shilang</i> 倉場	<i>fengmi</i> 俸米
侍郎	Fengqiao 楓橋
Cangchang 倉場	Fengtian 奉天
<i>cangmi</i> 倉米	Fengyang 鳳陽
Cangzhou 倉州	Fujian 福建
Cao Yin 曹寅	Fuying 福英
Chaling 茶陵	Fuzhou 福州
Chang'an 長安	Ganquan 甘泉
Changlu 長蘆	Gansu 甘肅
<i>changping cang</i> 常平倉	Gao Qizhuo 高其倬
Changsha 長沙	<i>gaoliang</i> 高粱
Changzhou 長州	Gaoyou 高郵
Chaozhou 潮州	<i>geng</i> 粳
Chen Dashou 陳大受	<i>gengmi</i> 粳米
Chen Hongmou 陳弘謀	<i>gu</i> 穀
<i>chengshu</i> 成熟	Guangxi 廣西

Glossary

Guangzhou 光州 (in Henan Province)	huohao guigong 火耗歸公
Guangzhou 廣州 (in Guangdong Province)	Hushu 潁墅
Guanzi 管子	hutong youwu 互通有無
Guazhou 瓜州	Huzhou 湖州
Guizhou 貴州	Jehol 熱河
Gushi 固始	jiami 甲米
Haining 海寧	Jiang Tingxi 蔣廷錫
Hangzhou 杭州	Jiangdu 江都
Hankou 漢口	Jiangnan 江南
Hanlin 翰林	Jiangning 江寧
Hanyang 漢陽	Jiangning Zhizao Langzhong 江寧織造
haomi 耗米	郎中
Henan 河南	Jiangsu 江蘇
Heng River 衡河	Jiangxi 江西
Hengyang 衡陽	Jiankang 建康
Hong Liangji 洪亮吉	Jianning 建寧
Hongze Lake 洪澤湖	Jiazhou 嘉州
Hu Linyi 胡林翼	jieliu 截留
Huai River 淮河	Jingcang 京倉
Huaian 淮安	jingji 經紀
Hubei 湖北	jingmi 京米
hufu 護符	Jingzhou 荊州
Huguang 湖廣	Jining 濟寧
huicao 回漕	jinshi 進士
Huizhou 徽州	Jiqing 吉慶
Hunan 湖南	Jiujiang 九江
	jiuzheqian 九折錢

Glossary

kuping 庫平

Lai 來

Lan Dingyuan 藍鼎元

laomi 老米

Li Qingzhi 李清植

Li Xu 李煦

li 里

Lianghuai 兩淮

Liangjiang 兩江

Lingnan 嶺南

Linqing 臨清

Liu Yong 劉墉

lougui 陋規

Maizhu 邁柱

Mao Wenquan 毛文銓

mijia 米價

minhuo houli 民獲厚利

mu 畝

Nanjing 南京

Nanxun 南潯

Nasutu 那蘇圖

Ningbo 寧波

Pan Siju 潘思□

pingtiao 平糶

Pingwang 平望

puhu 鋪戶

qiding 旗丁

qing 頃

Qinghe 清河

Qingjiang 清江

Qingkou 清口

Qingquan 清泉

Qiyang 祈陽

qizheqian 七折錢

Quanzhou 泉州

Sangyuan 桑園

Shanxi 山西

Shanyang 山陽

Shao River 苕河

Shao Zhanshi 少詹事

Shaobo 邵伯

Shaowu 邵武

Shaoxing 紹興

she cang 社倉

Shen Qiyuan 沈起元

sheng 升

Shengjing 盛京

shi 石

shiqian 市錢

shuici 水次

Shulu 舒輅

Songjiang 松江

suomi 梭米

Suqian 宿遷

Suzhou 蘇州

Taicang 太倉

Glossary

- Taiping 太平
te'en 特恩
 Tianjin 天津
 Tingzhou 汀州
 Tongcang 通倉
 Tongzhou 通州
 Wang Guodong 王國棟
 Weishan [Lake] 微山湖
wen 文
 Wucheng 吳城
 Wuhu 蕪湖
 Wuxi 無錫
 Xi River 西江
 Xiamen 廈門
xian 籼
xiandan 限單
 Xiang River 湘河
xiangmin 鄉民
xianmi 籼米
 Xiaoshan 蕭山
xiebo 協撥
xingshang 行商
 Xiuzhou 秀州
 Xu Tianxiang 徐天相
 Xuanzhou 宣州
xuming zhi gao 續命之膏
xuying gushi 虛應故事
 Yaerhashan 雅爾哈善
yamen 衙門
 Yang Xifu 楊錫紱
 Yang Zongren 楊宗仁
yanjin tunji zaoqu 嚴禁囤積造麴
yangmin 養民
 Yangzhou 揚州
 Yanping 延平
Yingtian Shuili Fu 營田水利府
 Yinxiang 胤祥
 Yizheng 儀徵
 Yonggui 永貴
 Yongle 永樂
 Yongzhou 永州
Yongzhou fuzhi 永州府志
 Yue Jun 岳濬
 Yungui 雲貴
 Yunnan 雲南
 Yuqi 毓奇
zaliang 雜糧
zhan 棧
zhanfeng 棧房
 Zhang Qu 張渠
 Zhang Zhao 張照
 Zhangzhou 彰州
 Zhao Hong'en 趙弘恩
 Zhao Qingli 趙青藜

Glossary

Zhao Shenqiao 趙申喬

Zhaowen 昭文

Zhejiang 浙江

Zhengyang 正陽

Zhenjiang 鎮江

Zhili 直隸

zhiqian 制錢

Zhou Chen 周忱

Zhuang Yougong 莊有恭

Zongdu Cangchang 總督
倉場

zuogu 坐賈

zuoling 佐領

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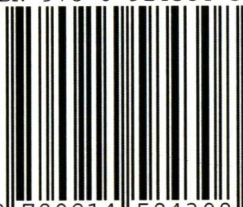
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