Index

Note: subheadings of historical periods are listed chronologically.

Acemoglu, D. 54
active planning concept 125–6
advanced agricultural co-operatives (AACs) 112–13
agrarian economies 50, 231
agriculture
overview 230–31
traditional economy
institution compared with Europe
free peasantry 18
land transaction 18–19
landlord–tenant relationship 16–17
property rights 15–16
technology compared with Europe
cash crops 86, 232
cotton and Champa rice introduced 21
fallow land 13–14
fertilizer and irrigation 14–15
high-level equilibrium trap theory 51–3
seeds 15
sowing methods 14
tools 14, 15
territorial expansion 7–8
Song period
government assistance and policy 19–20, 21–3
per capita agricultural output growth 20–21, 23
Wang An Shi reform 19
Ming–Qing period
cottage industry 28
grain output performance 23
land–man ratio 23–4, 36–7
limit to specialization 36
new crops and multiple cropping 24
stagnation 24
late Qing/Republican period
GDP share compared with Japan 94
land cultivation rights 84
land ownership 85–6
output growth estimates 35–6, 83–5
source of growth 85
Socialist period
‘3–3’ system of land use 135–6
agricultural tax 114–15
changed cultivation techniques 135
lack of autonomy 158
collectivization and land reform 111–13
labour diversion 134–5
people’s commune system 122–4, 136–7
private plots 124, 142, 143
Learn from Dazhai Campaign 146
liberalization policies following Great Famine 142–4
responsible farm system 142, 146
‘three freedoms one guarantee’ 142–3 146
‘three guarantees one reward’ 142
surplus as fuel for industrialization 113–15
Reform period
abolition of agricultural tax 177
contribution to GDP growth 213–14
household responsibility system (HRS) 164, 168, 169, 176

259
Index

transfer of land rights 168, 176–7
Asian countries 152–3, 155, 201, 210, 239
banking system, see financial system; money
Baumol, W.J. 58–9
Becker, J. 131
bonds and securities 175–6
international 239
Boxer Rebellion 72
Brandt, L. 83–5, 86–7, 213
Brockman, R.H. 42
Burns, J.P. 186
cadres 156–7, 185–8
capital market 175–6
central banking 102, 175
central planning
active planning 125–6
allocation of labour and capital 116–17
foreign trade corporations (FTCs) 118–19
incentives to enterprises and workers 116
resource allocation 115–16
Chang, C.L. 45, 49, 55–6
Chao, K. 26–7
Chen Yun 143, 163–4
Cheng He, Admiral 35
Chotikapanich, D. 219
Chow, G. 152
Civil War 86
closed economies 109–10
co-operatives 112, 123
Coase theorem 99–100
collectivization 111–13
and decollectivization 168
people’s communes 122–4, 136–7
communications 82–3
communism 120, 165
compradores 79, 80–81
Confucianism 51, 58, 98, 103
consumption
consumer goods 109–10
environmental issues and 225
material welfare measurement 152, 221
private consumption per capita 217–19
price index (1979–2009) 109–10
raising standard 190–91
rates 152–3, 190–91
shares and growth contribution 215–16
Western 239
contract law 42
contracting institution 54–5
contracting-out system 38
copper, export and coinage 40
cottage industry 28–32
output and labour supply 29–30
handicraft workshops and 31–2, 87–8
cotton industry 21, 68–9
hand loom production 87–8
credit institutions, traditional period 41
Cultural Revolution 115, 116, 121, 144–8
death rates, see population
debt ratio, late Qing/Republican period 73–4
democracy 237
demographic changes, see population
Deng Xiaoping 143, 146, 163, 165
Development Plan (1980–2010) 190
economic growth
Song and traditional economy
period 230–31
Socialist period
estimates of growth rate 151–2
heavy industry prioritized 110–11
manufacturing growth and 149–50
outcome of policies 149–60
self-reliance principle 123, 147–8
Reform period
allocative efficiency as source of growth 211–13
demographic dividends 193–4
development strategy 190–91
foreign trade reforms 195–6, 198–9
growth rate 209–10
township- and village-owned enterprises 169, 225–6
Feldman model 109–10
see also GDP figures; modern economic growth (MEG)
Edin, M. 185–6
Elvin, M. 31, 52–3
environmental issues
climate change 235–6
energy intensity per unit of GDP 224, 225
government policy 226
greenhouse gas emissions 225
water pollution 225
welfare of the population and 227–8
Environmental Protection Agency 224
examination system 48–9, 81, 103
Export Oriented Zones (EOZs) 195
export-oriented strategy 195–9
foreign trade system reforms 195–6
liberalization and incentives 196–8
outcome of 198–9
factor allocation 116–17
Feldman model of industrialization 109–10, 126
female infanticide 10–11, 194–5
fertility rates, see population
Feuerwerker, A. 47
financial system
traditional economy
credit institutions 41
native banks 41
pawn shops 38, 41
self-help mutual financial associations 41
late-Qing/early Republican period
modern banking 81, 88, 96, 102–4
Reform period
bank reforms 175–6
financial market
bonds 175–6, 239
private enterprise access 164, 169, 171
shares 166, 170, 175–6
Shenzhen Stock Exchange 176
loans 175, 178–80
marketization and 175–6
transitional regulations 178–80
non-bank financial institutions 175
non-performing loans 175
policy loans 175
People’s Bank of China 179–80, 181–2
see also fiscal policies; money
First World War 81, 232
fiscal policies
traditional economy 36–8
land tax 56
sales tax 37, 38
late Qing/Republican period
domestic custom tax 37
taxes 36–7, 102
transit tax 104
Socialist period
agricultural/land tax 114–15
government revenues 117
state-owned enterprise profits 115
turn-over tax and government bonds 117
Reform period 162–3
automatic stabilization 182, 183–4
contract responsibility system 182
discretionary fiscal policy 182–3, 184–5
dual pricing system 164, 166, 171–2
import tariffs/indirect export tax 197
inflation control 178, 180
outward direct investment (ODI) 181
R&D expenditure 205–6
reopening of financial market 175–6
state-owned enterprises 166, 169, 170–71, 175, 182
tax reform 183
window guidance 181–2
see also financial system
Five-Year Plan 110, 240
floods 11
‘flying geese pattern’ of economic development 67–9
foreign direct investment (FDI)
late Qing/Republican period
benefits of 76–7
treaty ports 75–6
Socialist period 119
Reform period 180
growth of 199–201
inflow by sector 202
Index

‘round-tripping’ 201

trend to foreign ownership 201

foreign invasions 100–101

foreign investment 199–203

foreign investment enterprises (FIEs) 166–7, 169, 201

volume and structure (1979–2008) 200

foreign loans

late Qing/Republican period 71–4

debt ratio 73–4

indemnity payments 71–3

net resource transfer 74

Reform period, volume and structure of 200

Socialist period, Soviet contribution 119

foreign trade 63–78

export-oriented strategy 195–9

foreign trade system reforms 195–6

liberalization and incentives 196–8

outcome of 198–9

late Qing/Republican period 73–4

agricultural 87

effect on industrialization 67–9

growth contribution 65–7

share in GDP 66

import structure 70, 76

import substitution 68–9

trade share 64–5

trade structure changes 69–71

Socialist period

exports during Great Famine 134

import substitution 195, 196–7

Preisausgleich 119

separation of domestic from foreign prices 118

Reform period 166

agency system 196

current account surplus 229

decentralizing of trading rights 195

domestic value-added of exports 199

export processing trade 198

export promotion 196–8

import liberalization 197

special export-oriented zones 195

strategy results 198–9

see also trade

foreign trade corporations (FTCs) 118–19, 195–6

‘Four Clean-up Campaign’ 145

Gang of Four 163

Gao, Z. 131–4

GDP figures

late Qing/Republican period 13

economic structure, percentage shares 95

growth contribution percentages 66, 81

per capita GDP 90, 93–4

sectoral shares 29, 88, 89

comparisons 35

growth rates (1914–18 and 1931–36) 90

share of government revenues 104–5

Socialist period

growth rates per capita 152–3

manufacturing share, comparisons 149–50

sources of growth 154

Reform period

Green GNP 227

deflator underestimates 209

distribution by sectors 213–14

projected decline 238

rate of growth, and consumer price index 179

share of consumption 215–16

share of labour 216–17

see also economic growth

Gerschenkron model 100

Gini coefficients

China’s urban households (1981) 154–6


governments

authoritarianism to democracy 237

third industrial society, minor officialdom 45, 47

Song period, assistance to agriculture 19–20, 21–3

Qing/Republican
foreign borrowing 71
land law proposal 85
non-intervention and taxes
36–7
performance compared with
Japan 100–105
regulation of business 37
Nanjing, loans 72
Socialist
building of socialism 120–28
egalitarianism 154, 168
Lushan Conference (1959) 141
revenues 117
see also state-owned enterprises
(SOEs)
Reform
bank control 175
environmental budget 226
investment policy 190
welfare schemes 222–3
Granato, J. 58
Great Drought (1877–78) 11
Great Famine 129–41
death toll 127–8, 137–8
decline in food availability as cause
129–30
causes of decline 130–37
urban and rural comparisons 138,
139
entitlement failure 137–9
causes of rural entitlement failure
139–41
Sen’s hypothesis 129
weather patterns data 131–4
see also Great Leap Forward (GLF)
Great Flood (1933–35) 11
Great Leap Forward (GLF)
aim of 121–2, 233
diversion of labour 134–5
rates of investment under 126–7
targets and outcome 110, 116,
127–8, 233
see also Great Famine
Great Leap Outward 163
Greif, A. 43
growth strategy
Maoist strategy 110–11, 122
agricultural output 85–6
‘walking on two legs’ 124–5
new growth strategy 190–91
rebalancing growth 240–41
Soviet growth model 120–25, 233
see also modern economic growth
(MEG)
guilds 43
handicraft workshops 31–2, 87–8
Ho, P.T. 7, 45
household registration system 173
household responsibility system (HRS)
164, 168, 169, 176
Hu Yaoband 165
Hua Guofeng 163
Huang, P.C.C. 86
hyperinflation 104
import substitution (IS) regime 69,
196–7
imports and exports, see foreign trade
incentive system 116, 136
income distribution
absolute and relative inequality
219–21
traditional economy, gentry’s share
86
late Qing/Republican period 86
Socialist period
during collectivization 112–13
equality gains 154–6
incentives 116, 136, 144
per capita 152
stratification and benefits 157–8
work point system 136–7, 142,
147
Reform period
continuous national distribution
data 219–21
Kuznets inverted u-curve 221
local cadres’ bonuses 185–6
national Gini coefficients 154–6,
219–20
per capita projections 217
rate of poverty 219
subsidies 174
three-step strategy 190
see also labour markets
indemnity payments 71–3, 101
industrialization
traditional period, causes of failure
of
<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>entrepreneurial performance 57–9</td>
</tr>
<tr>
<td>Baumol’s allocation theory 58–9</td>
</tr>
<tr>
<td>n-achievement 58</td>
</tr>
<tr>
<td>high-level equilibrium trap 51–3</td>
</tr>
<tr>
<td>institutional failure: property rights</td>
</tr>
<tr>
<td>and contracting institution 54–5</td>
</tr>
<tr>
<td>local government rent-seeking 55–7, 59</td>
</tr>
<tr>
<td>overview of 231</td>
</tr>
<tr>
<td>technological constraints 50–51</td>
</tr>
<tr>
<td>late Qing/Republican period</td>
</tr>
<tr>
<td>early development and entrepreneurs 79–81</td>
</tr>
<tr>
<td>‘flying geese pattern’ 67–9</td>
</tr>
<tr>
<td>ownership structure 80</td>
</tr>
<tr>
<td>Socialist period</td>
</tr>
<tr>
<td>backyard iron and steel furnaces 135</td>
</tr>
<tr>
<td>effect on rural population 138–9, 155</td>
</tr>
<tr>
<td>effect on the environment 224</td>
</tr>
<tr>
<td>Great Leap Forward 121, 122</td>
</tr>
<tr>
<td>rate of growth 149–50</td>
</tr>
<tr>
<td>third front construction 148</td>
</tr>
<tr>
<td>‘three red flags’ strategy 122</td>
</tr>
<tr>
<td>‘walking on two legs’ 124–5</td>
</tr>
<tr>
<td>Reform period</td>
</tr>
<tr>
<td>export-oriented strategy 195–9</td>
</tr>
<tr>
<td>foreign investment 199–203</td>
</tr>
<tr>
<td>industry-led growth 213–15</td>
</tr>
<tr>
<td>heavy industry 214–15</td>
</tr>
<tr>
<td>technological catch-up, see technology</td>
</tr>
<tr>
<td>township- and village-owned enterprises 169, 225–6</td>
</tr>
<tr>
<td>see also modern industry</td>
</tr>
<tr>
<td>inflation 104, 117–18, 164–5, 178, 180</td>
</tr>
<tr>
<td>infrastructure industries 77, 82–3, 134</td>
</tr>
<tr>
<td>international economic environment 239–40</td>
</tr>
<tr>
<td>investment policy, Reform period 190</td>
</tr>
<tr>
<td>Ishikawa, S. 190</td>
</tr>
<tr>
<td>investments 81</td>
</tr>
<tr>
<td>social and industrial development 96–7, 98–9</td>
</tr>
<tr>
<td>Jiang Jishi, General 101</td>
</tr>
<tr>
<td>Jiang Qing (Madam Mao) 146, 163</td>
</tr>
<tr>
<td>Jiang Zemin 165</td>
</tr>
<tr>
<td>Jinshi 47</td>
</tr>
<tr>
<td>Johnson, S. 54</td>
</tr>
<tr>
<td>judicial system 42, 48, 55</td>
</tr>
<tr>
<td>Juren 47</td>
</tr>
<tr>
<td>Kirzner, I. 57–8</td>
</tr>
<tr>
<td>Koopman, R. 199</td>
</tr>
<tr>
<td>Kuznets, S. 65, 94, 221</td>
</tr>
<tr>
<td>labour markets</td>
</tr>
<tr>
<td>centralization and 116–17</td>
</tr>
<tr>
<td>rural free markets 142</td>
</tr>
<tr>
<td>Reform period</td>
</tr>
<tr>
<td>decline in surplus 238</td>
</tr>
<tr>
<td>effect of foreign investment 202</td>
</tr>
<tr>
<td>labour income share in GDP 216–17, 238</td>
</tr>
<tr>
<td>worker mobility 173–4</td>
</tr>
<tr>
<td>see also income distribution</td>
</tr>
<tr>
<td>land cultivation rights 84, 176–7</td>
</tr>
<tr>
<td>land ownership 85–6</td>
</tr>
<tr>
<td>land tax 36, 56, 104</td>
</tr>
<tr>
<td>Learn from Dazhai Campaign 146</td>
</tr>
<tr>
<td>Lin ‘Tiger’ 146</td>
</tr>
<tr>
<td>Lin Piao 143, 145, 146</td>
</tr>
<tr>
<td>Lin, J.Y.F. 51</td>
</tr>
<tr>
<td>Liu Shaoqi 143, 144–5, 146</td>
</tr>
<tr>
<td>Liu, G.G. 83, 84, 85</td>
</tr>
<tr>
<td>Llewellyn, K. 43</td>
</tr>
<tr>
<td>Lushan Conference (1959) 143</td>
</tr>
<tr>
<td>Ma Yinchiu 191</td>
</tr>
<tr>
<td>Ma, L. 186</td>
</tr>
<tr>
<td>Maddison, A. 88, 90, 149, 152, 238</td>
</tr>
<tr>
<td>major macro-regions 8</td>
</tr>
<tr>
<td>Manchuria 81</td>
</tr>
<tr>
<td>Mao Zedong 86</td>
</tr>
<tr>
<td>death 163</td>
</tr>
<tr>
<td>‘Four Clean-up Campaign’ 145</td>
</tr>
<tr>
<td>policies 110–13, 233–4</td>
</tr>
<tr>
<td>purges of liberals 143, 145–6</td>
</tr>
<tr>
<td>strategy of socialist development 121–8, 156–9</td>
</tr>
<tr>
<td>Mao, Madam 146, 163</td>
</tr>
<tr>
<td>market area, traditional period 31</td>
</tr>
<tr>
<td>market brokers 38</td>
</tr>
<tr>
<td>Marxist theory 85–6, 120–21, 233</td>
</tr>
<tr>
<td>Mason, A. 193–4</td>
</tr>
</tbody>
</table>
May Seventh Cadre Schools 145–6
McClelland, D. 58
medical insurance 222–3
modern economic growth (MEG)
achieved 150–52
effect upon society 212–13
agricultural output 83
future challenges to 235–41
and strategic rebalancing 240–41
international environment 139–40
government role 99–105
and policies, post-Mao 234–5
growth rate estimates 151, 238
social effects upon 98–9
changing population and labour
supply 238
time scale 88–91, 231–2, 233–4
trade structure compared with Japan
70–71, 93–6
see also economic growth; growth
strategy
modern industry
Gerschenkron model 100
growth rate 81, 232
impact on economic growth 88–91
sectoral shares of GDP 88–91, 215
infrastructure industries 77, 82–3, 134
investment and outputs retraction 144
see also industrialization
money
traditional economy 39–41
bimetallic types and supply 39–40
paper currency 40–41
Qing/Republican banking reform 103–4
hyperinflation 104
Socialist period, inflation control 117–18
Reform period 178–82
adjustment to market rate 166
credit quota 180
fixed rate exchange 239–40
‘impossible trinity’ 180
interest rate policy 179–80
open market operation 175, 180–81
reserve requirements 178–9
sterilization 181
stop-and-go growth 178, 180
see also fiscal system
Mongol invasion 11
Mutual Aid Teams (MATs) 112
Myers, R.H. 86
Nanjing government 72–1, 76
national welfare accounting 227–8
Needham, J. 50–51
non-state enterprises (NSEs) 164, 168, 169, 175–6
North, D.C. 54, 96–7
Northern Expedition 12, 101
outward direct investment (ODI) 181
Peng Dehuai, Marshall 143
pension scheme 223
people’s communes (PCs) 122–4, 136–7
during Cultural Revolution 147
structure modification 142
People’s Liberation Army (PLA) 146
Perkins, D.H. 23–4, 27, 35–6, 83, 84, 85, 90, 151, 217, 238
politics, see government
population
overview
compared with Japan 94
estimates, traditional and modern 8–9
rates (1950–2025) 192
traditional economy
death rates 11
early expansion and migration patterns 7–8
female infanticide 10–11
fertility rate 9–10
growth rate 12
late Song to early Ming period 53
lineage system 10, 18, 98–9
war and natural disasters 11–12
Socialist period
control policy 191–2
death tolls 127–8, 137–8
female infanticide 194
industrial workforce increases 135
Reform period
controls 192–4
Index

gender discrimination at birth 194–5
growth rate and ratios 238
see also society
poverty rates 219
pricing system 164, 166, 171–2, 178–80
privatization 166, 168–71
agriculture, household responsibility system (HRS) 164, 168, 169, 176
foreign investment enterprises (FIEs) 166–7, 169, 201
non-wholly state funded shareholding firms 169
non-state enterprises (NSEs) 164, 168, 175–6
management contract system 182
private enterprises 164, 169, 171
of state-owned enterprises (SOEs) 166, 169
township- and village-owned enterprises 169, 225–6
see also reform policies
property rights 156, 166, 171
agriculture and land 15–16
land cultivation rights 84, 176–7
industrialization and 54–7
environmental issues 226
urban areas 177–8, 186

Rawski, T.G. 66, 88–9, 151, 155, 217, 238
Red Guard and Rebel Groups 145–6
reform policies
economic importance of 236–7
evolution of strategies 163–4
marketization 171–3
opening to the West 165–7
Qing period reforms 103
setback triggered by student unrest 164–5
see also privatization
responsible farm system 142, 143, 146
rice crops 21
Riskin, C. 53
Roll, C.R. 112
Roumasset, J. 227
Russia, see Union of Socialist Soviet Republics (USSR)

‘Save China Movement’ 103
Schumpeter, J. 57
Science and Civilization in China (1945–97) 50–51
sciences 51
self-reliance principle 123, 147–8
Sen, A.K. 129
service sector 214
Shengyuan 46–7
Shimonoseki, Treaty of 63
silver coinage 40
silver standard 104
Sino-Japanese War 71
Skinner, G.W. 31
socialism, see growth strategies
society
traditional
commongers 47–8
formation and economic development 98–9
gentry
degree holders 45–7
examination system 48–9, 81
income 49, 56
privileges 48
rent-seeking 55–7
imperial nobility 45, 46, 55
lineage system 18, 89–9
social mobility 48
warlordism 101–2
Socialist period
cadres 156–7
categories of workers 157
egalitarianism 124
establishment of people’s communes 122–4
human development 153–4
social mobility 159
standard of living 152–3
stratification 156–9
traditional period 45–9
Reform period
cadres 185–8
princelings 187
social security 221–3
standard of living 217–19
housing 218
Index

Tiananmen Square demonstrations 164–5
see also population
Southern Tour 165
Soviet Union, see Soviet Socialist Republics (USSR)
standard of living 152–3, 217–19
national welfare accounting 227–8
see also welfare system
state-owned enterprises (SOEs) 115, 144, 147, 164
contract responsibility system 182
labour mobility and 174
privatization 166, 169–71
profitability deterioration 175, 182
regulation, international comparison 172–3
state-owned shares in listed companies 170
stratification of society 156–9, 220
structural change 213–17
traditional economy 231
Structure and Change in Economic History 54
swap markets 196
Taiping Rebellion (1850–64) 11, 71, 100
Taiwan, contract enforcement 42
teal 70
technological transfer 67, 203–4
technology 50–51
traditional economy 13–15, 50–51, 86, 231
high-level equilibrium trap theory 51–3
late Qing/Republican period 102–3
Socialist co-operatives and 112
Reform period
achievements 207
economic importance of 237–8
embodied and disembodied imports 203
growth of domestic capacity 204–7
introduction of foreign technologies 203–4
R&D and innovation expenditures 205–7
technology programmes 205–6
Ten-Year Plan 163
third front construction 148
‘three big differences’ 124, 147–8, 155–6
‘three freedoms and one guarantee’ 142–3, 146
‘three guarantees and one reward’ system 142
Tiananmen Square 164–5
total factor productivity (TFP) 153
township- and village-owned enterprises (TVEs) 169, 225–6
trade
in traditional economy
brokerage system 38
infrastructure for trade
contracting institution 54–5
informal settlement and guilds 42–4
monetary system 39–41
weights and measures 38–9
local market 34
long distance, volume and commodities 34–5
marketed agricultural output 35–6
restricted limits of 44
taxes and regulation 37–8
Yahang and Hangtous 38
late Qing/Republican period 87
infrastructure industries supporting 77, 82–3, 134
Reform period
capital market 175–6
factor market development 173–4, 189
land market 176–8
marketization 171–3
liberalization of prices 164–5
dual-track system 172
see also foreign trade
transaction sector 96–7
transport 27, 82
Treaty Ports 75–6, 79–81
Tullock, G. 57
‘two participations, one reform and triple combination’ policy 147
UN Development Programme 153–4
Union of Socialist Soviet Republics (USSR) 109–11
central planning 115–16
Great Famine and 134
industrial strategy 123, 124–5
socialist strategy 120–21, 233
United States of America 239–40
urbanization, rate of 26–33
cottage industry and 28–32
Ming–Qing period 27–8
Tang–Ming period 26–7
two stages compared with Europe 28

Wang, F. 193–4
warlordism 101–2
wars and uprisings 11–12, 100–101
wealth accumulation 194
weights and measures, Qing period 38–9
welfare system 174–5, 194–5

medical insurance and pension
scheme 222–3
social security 221–3
see also standard of living
Wen Jiabao 187
Westernization movements 103–4, 165–6
Working Conference, Central Party Committee (1962) 144–5
World Trade Organization (WTO) 165–6, 196
Wu, J.N. 186

Yang, J.S. 129, 131, 137
Yeh, K.C. 83, 84, 85, 90

Zhao Ziyang 163–5, 195
Zhu Rongji 165, 187
Zhu, X.D. 213