

# **At War with water: The Maoist state and the 1954 Yangzi floods\***

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## **Abstract**

This article offers a critical reappraisal of the Maoist state's response to the 1954 Yangzi Floods. It uses a variety of sources, including previously classified government reports and oral history testimony to challenge the official narrative. It argues that far from being a remarkable victory for the new government, the flood was a humanitarian catastrophe that caused almost 150,000 deaths. Government hydraulic policies were partly to blame, as the vast majority of disaster victims were located in rural areas that were flooded deliberately in order to protect cities. In addition to revealing the true scale of the flood, this article uses the disaster as a prism to examine the early Maoist state. The government's combative environmental policies turned disaster governance into a war on water. This approach had certain benefits, particularly in terms of organising an effective urban relief campaign. Unfortunately, campaign politics fostered an atmosphere of distrust, which encouraged many citizens to resist disaster prevention policies. The example of the 1954 flood reveals the profound impact that a political context can have upon the outcome of a supposedly natural disaster

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## At War with Water: The Maoist State and the 1954 Yangzi floods

On the banks of the Yangzi River in the central Chinese city of Wuhan the face of Mao Zedong stares down from a large stone obelisk. A casual observer might be forgiven for assuming that this image adorns some kind of war memorial. In fact, this imposing architectural feature commemorates a great flood that swept down the Yangzi in 1954. Yet this is not a sombre monument but instead a celebration of a triumphant human victory over nature. Embossed reliefs depict heroic figures doing battle with torrents of water, clutching farm tools, shoulder poles, and political paraphernalia such as flags and banners. Figure 1 shows one such relief, in which a worker holds a slogan that reads ‘Quotations of Chairman Mao: Be resolute and do not fear sacrifices, surmount every difficulty in order to win victory.’<sup>1</sup> Erected at the height of the Cultural Revolution in 1969, this monument produces an unambiguous image of a commanding state. Scholars today tend to be suspicious of propaganda produced during this period, given the extent to which the state monopolised all forms of representation. Surprisingly, however, no historian has yet challenged the triumphal narrative depicted upon this monument.



Figure 1

This article offers a critical reappraisal of the Maoist state's response to the 1954 Yangzi Floods. It focuses upon Hubei province, the epicentre of the disaster. Building upon the methodology developed by scholars such as Ralph Thaxton and Jeremy Brown, it utilises a combination of textual and oral sources.<sup>2</sup> Contemporary newspapers and official publications yield little reliable information, yet offer a critical insight into the operations and mentality of state, revealing how governors wanted the crisis to be understood. Internal cadre reports and disaster investigations conducted by the Chinese Communist Party (CCP) provide a far greater insight into the reality on the ground, albeit one still steeped in politicised rhetoric.<sup>3</sup> Oral histories, in the form of fifteen interviews conducted with flood survivors, help to unpick the stitches of the official narrative.<sup>4</sup> The memories of Hubei residents have, of course, been eroded by time and shaped by the exigencies of half a century of life

<sup>1</sup> Photograph by the author.

<sup>2</sup> Ralph Thaxton, *Catastrophe and Contention in Rural China: Mao's Great Leap Forward Famine and the Origins of Righteous Resistance in Da Fo Village*, Cambridge University Press, Cambridge, 2008. Jeremy Brown, *City Versus Countryside in Mao's China: Negotiating the Divide*, Cambridge University Press, Cambridge, 2012.

<sup>3</sup> Some original cadre reports have been published in an archival collection. *Hubei sheng yijiuwusi nian fangxun kanghong dang'an xuanbian*, Hubei sheng dang'an guan, Wuhan, 1998, pp. 225-27. (Hereafter referred to as HFKDX). Others reports were located in the Hubei Provincial Archives.

<sup>4</sup> The author conducted oral history interviews in Hubei between 2009-2010 and 2013.

experiences. Imperfect as they may be, the voices of former refugees still offer a vital corrective to otherwise mono-vocal state discourse.

The picture that emerges from these sources differs profoundly from that offered by previous histories.<sup>5</sup> Far from being a victory over nature, the 1954 flood precipitated a humanitarian catastrophe - possibly the most lethal inundation suffered anywhere on earth during the latter half of the twentieth century.<sup>6</sup> Almost 150,000 people were killed in Hubei alone. Most casualties were concentrated in rural areas that the government flooded deliberately in order to protect urban industries. Contrary to contemporary reports, this strategy was not wholly successful, as large swathes of Wuhan were flooded, causing twenty thousand people to become refugees.

What can the 1954 flood teach us about the Maoist state? Anthony Oliver-Smith has argued that disasters often act as *crise revelatrice*. When they strike, 'the fundamental features of society and culture are laid bare in stark relief by the reduction of priorities to basic social, cultural, and material necessities.'<sup>7</sup> The flood revealed much about the political and economic imperatives governing life under the early Maoist state. One of the most pressing of these was the desire to eradicate all enemies - even if these happened to be environmental. Flood prevention was represented as a war against water, in which the state would marshal its great human resources to conquer a disaster. Given that the CCP had known little but war over the past few decades, it is perhaps unsurprising that governors treated the flood as yet another foe to be vanquished. The weapons governors chose were a series of sluice gates that released water from the Yangzi onto the plains. Unfortunately, very little thought was given to the humanitarian consequences of this hydraulic intervention. The results were catastrophic, as sluice gates were opened onto still inhabited areas.

The 1954 flood was not simply a technical failure. It was a disaster incubated by politics. With few exceptions, historians studying Maoist disaster governance have focussed upon the famine of the late 1950s. This is not without justification, as it was one of the worst catastrophes in history. Recently, Lauri Paltmaa has taken a more comprehensive view, examining how the state coped with a series of disasters affecting the city of Tianjin throughout the Maoist period. He does not deny the horror of the famine, and the key role that the state played in its genesis. Yet Paltmaa also observes that during other crises, the state responded relatively effectively. The organised labour force and the command economy facilitated efficient and expedient relief.<sup>8</sup> Although this article highlights a hidden tragedy at the heart of disaster governance, it concurs with Paltmaa in recognising that, in certain respects, the Maoist state responded effectively to the 1954 flood.

<sup>5</sup> The flood features in local gazetteers and histories such as Pi Mingxiu, *Wuhan tongshi: Zhonghua Remin Gongheguo [shang]*, Wuhan chubanshe, Wuhan, 2006, p. 70. It has also been subject to articles such as Li Qin, '1954 nian Hubei shuizai yu jiuji 1954' *Dangdai Zhongguo shi yanjiu*, 10, 2003. There are also a number of personalised accounts, such as Yao Ting and Yu Chun. '30 wan ren 75 tian dazao jianguochu zui da shuili gongcheng' *Wenshi bolan*, August, 2009.

<sup>6</sup> The 1959 China floods apparently caused 200,000 deaths, yet this mortality is closely connected with the anthropogenic famine of that year. On global flood mortality see EM-DAT, 19 July 2016, [http://www.emdat.be/disaster\\_profiles/index.html](http://www.emdat.be/disaster_profiles/index.html) accessed 06.09.2016

<sup>7</sup> Anthony Oliver-Smith, 'Anthropological Research on Hazards and Disaster,' *Annual Review of Anthropology*, 25, October, 1996, 303-28.

<sup>8</sup> Lauri Paltmaa, *Managing Famine, Flood, and Earthquake in China: Tianjin, 1958-1985*, Routledge, New York, 2016.

At the same time, the draconian and often repressive policies enacted during the early 1950s fostered a caustic political environment, which led many citizens to distrust state representatives. This seriously inhibited disaster governance. Propagandists attempted to generate compliance by projecting an image of control and encouraging self-sacrifice. On occasions this seemed to work. Some citizens appeared to embrace an ethos of voluntarism, if only as a somewhat instrumental performance of regime compliance. Elsewhere, communities actively resisted disaster governance, believing that the CCP was using evacuation to dupe them into forced collectivisation. Ultimately, the 1954 flood revealed both the best and worst elements of CCP rule. The same structures of control that facilitated rapid mobilisation and the distribution of resources also generated a sense of distrust and insecurity that was not conducive to an effective disaster prevention campaign.

### Taking over Hubei

In April 1949 a ragtag armada began to cross the Yangzi. Tens of thousands of soldiers packed onto boats, clung onto bales of straw, or drifted on inflated pigskins. These were the advanced troops of the People's Liberation Army, which had amassed 2,000,000 strong on the northern banks of the river, awaiting the final push south to secure CCP victory.<sup>9</sup> Having taken the erstwhile capital of Nanjing, one of the three divisions moved west. On 15<sup>th</sup> May it entered Wuhan, the political and economic capital of the middle Yangzi region. Five days later a guerrilla veteran named Li Xiannian, the son of a local carpenter, was appointed as Party Secretary of Hubei.<sup>10</sup> As he set about pacifying the province, his forces were confronted not only by military resistance but also by unruly rivers. In 1949 Hubei experienced the worst floods since the catastrophic deluge of 1935. Soon the dykes of the Yangzi and Han Rivers had begun to collapse.<sup>11</sup> The inundation slowed the advancing army, which did not complete its take-over of Hubei until November 1949.<sup>12</sup> The rule of the CCP had been baptised in floodwater. Over the next few years, the regime would seek to use hydraulic engineering to control the capricious rivers that had delayed their victory.

The water control policies of the early Maoist state formed part of a broader portfolio of reforms, which were designed to consolidate political hegemony and reconfigure the economy. The government initially adopted somewhat conciliatory policies towards merchants and industrialists in urban areas such as Wuhan, limiting their activities to imposing a more disciplined system of taxation. No doubt many businesspeople longed for the days when duties could be evaded by a discreet payment to a corrupt Nationalist official.<sup>13</sup> Yet it was not until 1952, with the so-called Five-Antis (*Wufan*) campaign, that the assault upon commerce began in earnest. By eroding the power of traditional elites, and organising urban citizens through the system of work units (*danwei*), the CCP hoped to replace the commercial economy

<sup>9</sup> Odd Westad, *Decisive Encounters: The Chinese Civil War, 1946-1950*, Stanford University Press, Stanford, 2003, pp. 241-4

<sup>10</sup> *Hubei shengzhi: dashi ji*, Hubei renmin chubanshe, Wuhan, 1990, p557. Westad, *Decisive Encounters*, p. 47.

<sup>11</sup> *Hubei shengzhi: dashiji* p. 565. This was the second successive year of flooding. Forty-three counties suffered inundation in 1948. *Hubei shengzhi: minzheng*, Hubei renmin chubanshe, Wuhan, 1990, pp. 113-114

<sup>12</sup> Westad, *Decisive Encounters* p. 284. *Hubei Shengzhi: dashi ji*, p. 566.

<sup>13</sup> Wang Shaoguang, 'The Construction of State Extractive Capacity: Wuhan, 1949-1953', *Modern China*, 27, April, 2001, pp. 229-261.



with state-owned enterprises.<sup>14</sup> This new configuration of the urban economy would have a profound influence upon the outcome of the 1954 flood. Hydraulic engineers would be called upon to protect state-owned industries at any cost, even if this involved sacrificing the countryside.

Profound as the changes to urban life were, they paled in comparison to the seismic shifts occurring in rural Hubei. Between 1950-1952 the countryside underwent a policy of radical land reform. Local cadres categorised families according to an inflexible class taxonomy. Those deemed landlords (*dizhu*) or rich peasants (*funong*) not only lost land and property, but were also subjected to violent persecution and even execution. Meanwhile, the army undertook a series of pacification campaigns to obliterate the last vestiges of resistance.<sup>15</sup> Land reform proved highly popular amongst its beneficiaries. Before long, however, it became clear that this great redistribution was not all that it appeared. Rural communities were subjected to highly extractive requisitioning policies. The state grain monopoly, which was introduced in 1953, compelled farmers to sell their surplus to the local government at a fixed price. This was followed in the spring of 1954 with a nationwide drive to subsume individual households within larger agricultural cooperatives. The presumed efficiency savings offered by these policies were to form the economic foundations of state-led industrialisation.<sup>16</sup> The countryside was to provide the economic fuel to power the engine of urban industrial growth.

It is tempting to posit a clear line of evolution between these early rural policies and the famine that raged during the Great Leap Forward of 1958-1961. Unrestricted grain requisitioning and the creation of People's Communes – which were cooperatives mutated to gargantuan proportions – would eventually drive tens of millions to their graves. Yet it is important not to submit to an overly teleological narrative. Hayekian scholars such as Frank Dikötter and Yang Jisheng have argued that early collectivization set China off along the 'road to serfdom,' creating a politico-economic dynamic that would inevitably lead to disaster.<sup>17</sup> Dikötter has argued that the state grain monopoly resulted in food shortages in many areas, including Wuhan, as early as 1954.<sup>18</sup> Within his analysis there is no mention of the flood, which caused one of the worst weather-induced production shortfalls of the twentieth century.<sup>19</sup> Whilst by no means denying the detrimental effects of Maoist economic policies – particularly the millions killed by famine - historians such as Li Huaiyin and Y.Y. Kueh have noted that collectivisation had numerous beneficial effects, including considerable infrastructural and health care developments.<sup>20</sup> Since

<sup>14</sup> Mark Frazier, *The Making of the Chinese Industrial Workplace: State, Revolution, and Labor Management*, Cambridge University Press, Cambridge, 2004, p.132.

<sup>15</sup> *Hubei shengzhi: dashi ji* pp. 575, 569, 590-1

<sup>16</sup> Li Huaiyin, *Village China Under Socialism and Reform: A Micro-History, 1948-2008*, Stanford University Press, Stanford, 2009, pp. 30-1

<sup>17</sup> This is a title of a chapter in Frank Dikötter, *The Tragedy of Liberation : A History of the Chinese Revolution, 1945-1957*, Bloomsbury Press, New York, 2013. Elsewhere he has argued that the Great Leap Famine 'stands as a reminder of how profoundly misplaced is the idea of state planning.' Frank Dikötter, *Mao's Great Famine: The History of China's Most Devastating Catastrophe, 1958- 62*, Bloomsbury Publishing, New York, 2010, p. xii. Yang invokes Hayek explicitly to explain Maoist society, see Yang Jisheng, *Tombstone: The Great Chinese Famine, 1958-1962*, trans. by Stacy Mosher and Jian Guo, Allen Lane, London, 2012, Chapter 14.

<sup>18</sup> Dikötter, *Tragedy of Liberation*, p. 224.

<sup>19</sup> On comparison of agricultural losses caused by disasters see Y. Y. Kueh, *Agricultural Instability in China, 1931-1990: Weather, Technology, and Institutions*, Oxford University Press, Oxford, 1995.

<sup>20</sup> *Ibid.* Li, *Village China*.

the 1950s there has been a measurable improvement in Chinese life expectancy. Whether this was because of or in spite of collectivisation remains a matter of debate<sup>21</sup>

The 1954 flood highlighted both the benefits and detriments of early Maoist governance. Collectivisation offered what Kueh has described as an ‘institutional hedge’ against the effects of climatic disasters. Work units facilitated the rapid deployment of flood prevention labourers and the state-controlled grain market enabled more efficient relief distribution. At the same time, however, revolutionary politics inhibited disaster governance by engendering a sense of insecurity. Those who had benefitted from land reform guarded their new property fiercely, whilst those who had suffered feared a further erosion of their livelihoods. Trust was diminished further by rapacious extraction of grain. The insecure atmosphere in rural Hubei made disaster governance far more difficult.

### Taming the Yangzi

In 1952 the journalist Di Lei offered a typically ideological interpretation of Hubei’s historic water control problems. The cause of the disastrous floods that had long blighted the lives of the local population, it was argued, was class prejudice.<sup>22</sup> As Imperial and Republican administrators did not suffer personally during inundations, they were not invested in finding a solution to the root causes of hydraulic failures, being content merely to alleviate the symptoms of flooding. This politicised reading of history ignored the numerous elite figures, such as the late Qing polymath Wei Yuan, who had argued vehemently for systemic reform of the hydraulic network.<sup>23</sup> More importantly, this crude caricature posited human agency as the sole variable determining disaster causality. In reality, flood disasters were both environmental and anthropogenic. Humans had exacerbated natural risks by converting floodplains into arable land. The dykes they constructed to ameliorate the resultant inundations, over time exacerbated flood risk, particularly when poorly maintained. The deluges that occurred when hydraulic networks failed were more dangerous than natural floods. The most lethal occurred when the Great Jingjiang Embankment running parallel to the Yangzi collapsed, releasing the river onto its plains. From the nineteenth century, the intensity and frequency of flooding increased dramatically.<sup>24</sup> The most lethal inundation occurred in 1931, when a nationwide disaster killed in excess of 2,000,000 people.<sup>25</sup>

In February 1951 the government commissioned the Yangzi Conservancy Authority (*Changjiang shuili weiyuanhui*) to solve the problem of flooding in Hubei.

<sup>21</sup> For Dikötter’s probably excessive estimate of 45,000,000 famine fatalities to be true, the CCP would have had to have reduced the crude death rate from 25 to 10 per thousand during the 1950s, an achievement that would have saved more lives than those who died in the famine. See Cormac Ó Gráda, ‘Great Leap into Famine: A Review Essay’, *Population and Development Review*, March 2011, p. 191–210.

<sup>22</sup> Di Lei, ‘Xin Zhongguo weida de jianshe shiye-Jingjiang fenhong gongcheng,’ *Luxing zazhi*, 26, 1952, pp. 25–30.

<sup>23</sup> Wei Yuan, ‘Hubei difang yi,’ in *Wei Yuan quan ji*, Vol 12, Yuelu shushe, Changsha, 2004 [Qing], pp. 368–69.

<sup>24</sup> Zhang Jiayan, *Coping with Calamity: Environmental Change and Peasant Response in Central China, 1736–1949*, University of British Columbia Press, Vancouver, 2014.

<sup>25</sup> Chris Courtney, ‘Governing Disasters: A Comparative Analysis of the 1931, 1954 and 1998 Middle-Yangzi Floods’, in *100 Years After the Xinhai Revolution: Domestic Change, Challenges and Continuities*, Kun-Chin Lin and Jean-Marc Blanchard (eds.), Palgrave, London, 2016.

Chinese engineers, aided by Soviet advisors, designed a series of flood diversion areas (*fenhong qu*) near the cities of Jiangling and Shashi in Jingzhou prefecture, central Hubei. Sluice gates would divert the Yangzi onto the plains when floods threatened. This area would then be drained through another series of sluice gates when water levels had decreased.<sup>26</sup> This scheme met with the highest approval. Mao Zedong himself proclaimed: 'For the great benefit of the people, be victorious in the construction of the flood diversion.'<sup>27</sup> The project utilised the full strength of CCP mass mobilisation. 300,000 labourers completed construction in just seventy-five days in the spring of 1952.<sup>28</sup> Conditions were tough, with labourers being forced to work, eat, and sleep in a damp environment plagued by malarial mosquitoes.<sup>29</sup>

The flood diversion project coincided with the nationwide Three Antis (*Sanfan*) campaign, during which the CCP sought to eliminate corruption, waste, and bureaucracy. Workers were forced to spend their resting hours undergoing no doubt tedious meetings and self-evaluations. The politicisation of the project escalated during the subsequent Five Antis campaign. A local supplier named Wu Xingce was accused of being an 'evil merchant' (*jianshang*), for supposedly provided substandard construction materials.<sup>30</sup> Skimming off hydraulic projects had been fairly common in Republican era. Hubei was littered with jerrybuilt dykes as a result.<sup>31</sup> It is impossible to determine whether Wu was genuinely guilty of this offence, or whether the CCP made an example of him in order to undermine the power of commercial elites. This episode demonstrated the extent to which all aspects of life had become politicised, and, for some, intensely precarious.

Whilst workers and merchants suffered, it was the rural majority who bore the brunt of the flood diversion project. Those living in areas designated for inundation were to be relocated to one of ten specially designated safety areas (*anquan qu*). By March 1952, over 60,500 people had been resettled. Others were reluctant to abandon their ancestral homes, even when offered incentives such as money, food, and tractors.<sup>32</sup> Compulsory relocations have been a perennial feature of CCP hydraulic governance. The anthropologist Jun Jing revealed the deep trauma suffered by one community dislocated from its proud heritage by the construction of a dam.<sup>33</sup> The history of the forced evacuation of Hubei's flood diversion area has yet to be written. Clearly it was not entirely successful. Many people continued to live in now acutely vulnerable areas. This was to have tragic consequences when the sluice gates were opened in 1954.

Any description of a monumental water control project cannot help but evoke the spectre of Karl Wittfogel. This historian characterised imperial China as one of a number of 'hydraulic societies,' in which the imperative to prevent floods or irrigate arid landscapes helped to foster a highly centralised mode of governance. He described this as 'oriental despotism.'<sup>34</sup> The vast archive pertaining to this history of

<sup>26</sup> Di, 'Xin Zhongguo.'

<sup>27</sup> *Hubei shengzhi: dashi ji*, pp. 599-601.

<sup>28</sup> 'Qishiwu tian wanchengle weida de Jingjiang fenhong gongcheng, *Qianjin*, 262, 1952.

<sup>29</sup> Yao and Yu. '30 wan ren'.

<sup>30</sup> Di, 'Xin Zhongguo.'

<sup>31</sup> Zhang, *Coping with Calamity*.

<sup>32</sup> Di, 'Xin Zhongguo.'

<sup>33</sup> Jun Jing, *The Temple of Memories: History, Power, and Morality in a Chinese Village*, Stanford University Press, Stanford, 1996.

<sup>34</sup> Karl Wittfogel, *Oriental Despotism: A Comparative Study of Total Power*, Yale University Press, New Haven, 1957, p. 47

water control in China has proven Wittfogel largely wrong, at least for the late imperial period. Hydraulic governance was typically highly localised, with the central state preferring delegation to megalomaniacal control.<sup>35</sup> Ironically, at the same time that Wittfogel was penning his most famous exposition of oriental despotism, the Maoist state was beginning to exert unprecedented control over the hydraulic network. In the decades to come, the CCP would reshape the hydrosphere more profoundly than any polity in history. It might be tempting, then, to turn Wittfogel on his head, suggesting that it was not until the state achieved despotic power that it was able to create a fully hydraulic society. Yet even at its most commanding, the CCP state never enjoyed the kind of power that Wittfogel envisioned. The 1954 flood demonstrated that the government could control neither rivers nor people completely.

### At war with water

It started raining in the spring of 1954 and did not stop for fifty-eight days.<sup>36</sup> Soon, around 1,500,000 people in Hubei had fallen victim to mountain flooding (*shanhong*), as great surges of water and debris swept along the tributaries that drained the highlands. Those not drowned found their fields covered in sandy deposits, leaving them uncultivable. On the plains below some 2,250,000 people suffered less dramatic yet no less devastating waterlogging disasters (*zizai*). They spent the spring struggling to drain their fields, as the rain poured down unremittingly. Having lost their summer crops, many were prevented from planting a winter insurance harvest. The worst was yet to come. A series of storms struck in July, causing local dykes throughout Hubei to suffer breaches (*kuikou*).<sup>37</sup> Around 3,780,000 people were inundated as river water was funnelled through the artificial topography onto their homes. One former farmer recalled in an interview how she was carrying manure to the fields when she heard people crying and shouting. 'I turned around to see a huge wave. It was really white, like a sheet.' Another described how his family had scrambled to their boat in order to flee to a local hillside. Many were not so fortunate. Thousands were drowned or buried alive by the cascade. By the summer of 1954, more than 10,000,000 people – nearly two fifths of Hubei – were under water.<sup>38</sup>

The engineers tasked with maintaining the hydraulic system now sought desperately to prevent further destruction. Their Republican predecessors had been fond of quoting water control treatises by classical theorists such as Mencius.<sup>39</sup> In 1954, chief engineer Tao Shuzeng chose instead to quote the military theorist Sun Zi, enjoining his fellow engineers to 'know themselves and their enemies (*zhiji zhibi*)' so that they might win their 'battle (*zhandou*)' with rivers.<sup>40</sup> Judith Shapiro has argued that such highly combative rhetoric reflected the ultra-utilitarian environmental attitude of the Maoist state. Yet if the language of conflict was particularly prevalent in CCP rhetoric, this had as much to do with decades of warfare as it did with

<sup>35</sup> Pierre-Étienne Will, 'State Intervention in the Administration of a Hydraulic Infrastructure: The Example of Hubei Province in Late Imperial Times', in *The Scope of State Power in China*, Stuart R. Schram (ed.), Chinese University Press, Hong Kong, 1985. Peter C. Perdue, *Exhausting the Earth: State and Peasant in Hunan, 1500-1850*, Harvard University Press, Cambridge MA, 1987.

<sup>36</sup> Zong Yongqiang and Chen Xiqing, 'The 1998 Flood on the Yangtze, China', *Natural Hazards*, 22, 2, September, 2000, pp. 165–184.

<sup>37</sup> 'Hubei sheng zaiqing jiankuang, September 6<sup>th</sup> 1954,' *HFKDX*, pp. 225-27.

<sup>38</sup> Estimates vary somewhat. One report suggests a figure as high as 10,347,000. 'Hubei sheng zaiqing jiankuang'

<sup>39</sup> See for example 'Kongzi dachen yu shuizai, *Guowen zhoukan*, 8, no. 35, 1931.

<sup>40</sup> Tao Dinglai, Li Senlin and Zhou Yeqing, 'Tao Shuzeng yu 1954 nian Wuhan da hongshui,' *Wuhan wenshi ziliao*, vol. 12, 2005, pp. 20-23.

ideology. Pamela Crossley has observed that the cessation of hostilities in Korea in 1953 marked the end of an unbroken chain of armed conflicts that stretched right back to 1926.<sup>41</sup> With Taiwan still under Nationalist control, war remained a distinct possibility. Politicians saw the 1954 flood as part of this broader existential struggle. As the *People's Daily (Renmin Ribao)* put it 'the imperialists and Chiang Kai-shek [...] cannot fight us, and so hope that natural disasters will destroy us.'<sup>42</sup>

Chinese leaders were still war leaders - their mode of thinking combative by default. This influence went beyond the military allusions that peppered official discourse. It permeated the governance style of the CCP.<sup>43</sup> Ralph Thaxton has noted how the wartime legacy begat a confrontational work style, leading cadres to make hasty and unilateral decisions.<sup>44</sup> Hydraulic governors were subject to a similar urgency of command, adopting bold strategies with little thought for the humanitarian consequences. Having convinced themselves they were at war with water, they were determined to win regardless of the collateral damage. By the summer of 1954 they already lost a number of battles, and an estimated 6,660,000 *mu* (4,400 km<sup>2</sup>) of land was under water as a result.<sup>45</sup> Yet Wuhan had yet to be flooded. In the ensuing months the city would become the front line, its defence determining the outcome of the war. The race was now on to save Wuhan.

Chinese flood prevention campaigns have always required vast amounts of labour. Previous political systems had extracted this through various forms of compulsion, most often corvée labour or work relief. Although labour was no less compulsory for the soldiers, work units, and rural citizens sent to the dykes in 1954, propagandists were determined to portray the campaign as a voluntary enterprise. Periodicals such as the *Yangzi Daily (Changjiang Ribao)* published accounts of heroic workers dedicating themselves to the war against water.<sup>46</sup> These exemplars embodied a mode of compulsory volunteerism, which would become a defining feature of Maoist political culture. They displayed an unwavering dedication to labour - much like the Stakhanovite workers of the Soviet Union - yet also indulged a penchant for ostentatious acts of self-sacrifice.<sup>47</sup> Within the evolution of the ideal Maoist subject, they occupied a position somewhere between the heroism of celebrated wartime martyrs and the trudging obedience of the most famous of exemplars Lei Feng - the smiling peasant/soldier/worker who was content to be an anonymous screw in the revolutionary machine.<sup>48</sup>

Wang Maoshan was a typical flood hero. He was reported to have worked for nine days without rest, spending several hours neck deep in sewage. He continued to stack

<sup>41</sup> See Pamela Crossley, *The Wobbling Pivot - China Since 1800: An Interpretive History*, Wiley-Blackwell, Chichester, 2010, p. 180.

<sup>42</sup> *Renmin Ribao* 24 October 1954

<sup>43</sup> When the rains failed in Hubei in 1952 the party launched a 'war against drought (*fanghan kanghan douzheng*).'<sup>43</sup> *Hubei shengzhi: dashi ji*, p566. Around the same time Zhou Enlai described diplomacy as 'a war of words and a war of swords.' Anne-Marie Brady, *Friend of China: The Myth of Rewi Alley*, Routledge, London, 2003, p. 71.

<sup>44</sup> Thaxton, *Catastrophe and Contention*, pp. 84-5.

<sup>45</sup> 'Hubei sheng zaiqing jiankuang'

<sup>46</sup> There are articles describing flood exemplars throughout the year, see for example *Changjiang Ribao*, 20 August 1954.

<sup>47</sup> Siegelbaum, *Stakhanovism and the Politics of Productivity in the USSR, 1935-1941*, Cambridge University Press, Cambridge, 1988.

<sup>48</sup> Shi Yonggang (ed.) *Lei Feng 1940-1962*, Sanlian shudian, Beijing, 2006.

sandbags even after he had developed a heart complaint.<sup>49</sup> Such labouring masculinity and disregard for personal safety was not reserved solely for men. Lu Youzhi was pictured plunging herself into freezing water in order to block a breach, using her own body as a weapon against water.<sup>50</sup> In a marked contrast to Confucian norms, worker heroes ignored even the most sacred of personal obligations, choosing flood prevention over kin and home. Wang continued to work even after his wife fell ill, and Lu abandoned her own children to head to the dykes.<sup>51</sup> The message was unequivocal - dedication to the state superseded all other considerations.

Exemplar narratives were often so outlandish that they bordered upon self-parody. This does not mean they did not work. A retired factory worker from Wuhan recalled in an interview how members of his work unit genuinely had wished to participate in the flood prevention campaign. Rather than being motivated by patriotic fervour or revolutionary zeal, however, they were keen to be seen as key 'activists' (*jiji fenzi*) within the work unit. Such a designation was of no little significance. Susan Shirk characterised Maoist China as a 'virtuocratic' society, in which career advancement was based more upon a reputation for political correctness than it was upon any form of occupational competence. In this respect, exemplar narratives offered a vital script for ordinary citizens to enact the kinds of instrumental performances that helped them to gain merit in the eyes of the state.<sup>52</sup>

Not everyone was dedicated to the war against water. One internal cadre report noted that large crowds of young men were choosing to sit around in teahouses rather than participating in flood prevention.<sup>53</sup> Worse still, a local history described how criminal elements (*bufa fenzi*) were arrested for attempting to sabotage the relief effort in Wuhan.<sup>54</sup> Why and how they did so is not divulged. Later, several merchants were executed for the crime of 'making up rumours to cheat the masses' (*zaoyao huozhong*), having attempted to hoard grain to inflate prices.<sup>55</sup> The reports of these class enemies represented a dark inversion of exemplar narratives. Flood heroes were celebrated for embodying the norms promoted by the new state. Those who subverted these norms could expect little mercy. In this respect, the war against water formed part of the broader project to remould Chinese citizens.

### Drowning the countryside

Even with a vast army of workers piling sandbags into breaches and propping-up dykes, the government could not stop the gigantic flood peak traveling downstream towards Wuhan. On 19<sup>th</sup> July governors decided to unleash their ultimate weapon, the newly finished Yangzi Flood Diversion. They opened the first of several sluice gates at a place named Yuwang Gong - or Palace of King Yu - in central Hubei.<sup>56</sup> The

<sup>49</sup> Wuhan shi fangxun zong zhihuibu, *Dang lingdao renmin zhanshengle hongshui*, Hubei renmin chubanshe, Wuhan, 1955, p. 94.

<sup>50</sup> Ibid. p. 95.

<sup>51</sup> Ibid. pp. 62-63. For similar English language exemplar narratives see Rewi Alley, *Man Against Flood: A Story of the 1954 Flood on the Yangtze and of the Reconstruction That Followed It*, New World Press, Peking, 1956.

<sup>52</sup> Susan Shirk, *Competitive Comrades: Career Incentives and Student Strategies in China*, University of California Press, Berkeley, 1982.

<sup>53</sup> 'Wuhan fangxun zhihuibu — Hanyang qu zhihuibu fangxun gongzuo zongjie baogao,' 28 September 1954, Hubei sheng dang'an guan, Wuhan.

<sup>54</sup> Pi, *Wuhan tongshi*, p. 70

<sup>55</sup> Ibid. p. 69

<sup>56</sup> *Hubei shengzhi: Dashi ji*, p. 566.



symbolism of this location cannot have been lost upon the local population. The mythic King Yu had established dynastic authority in ancient times by taming a great flood.<sup>57</sup> By opening the sluice gate, the CCP now linked its own legitimacy to hydraulic mastery. This initial diversion proved insufficient. Over the course of the next few months the sluice gates were opened on a further two occasions.<sup>58</sup>

The flood diversion was represented as a great advance in environmental management. In reality it was defeat masquerading as victory. The government had gifted the Yangzi a floodplain before it could forge its own. Just as propagandists had transformed the scrambled retreat of the Long March 1934-1935 into a symbol of the tenacity of the CCP, now they represented the inundation of thousands of *mu* of valuable agricultural land as a masterstroke of environmental management. The *People's Daily* heaped praise upon rural communities for 'voluntarily allowing their villages to be flooded, thereby sacrificing their own wellbeing in order to save the city.' A farmer was quoted as saying that 'industrial construction is the great life root (*daming genzi*) of the people, and so had to be protected.'<sup>59</sup> The CCP were not the first to mobilise the rhetoric of sacrifice. Kathryn Edgerton-Tarpley has described how the Nationalists portrayed those who were deliberately inundated by the breaching of the Yellow River dykes in 1938 as martyrs in the war against Japan.<sup>60</sup> What was novel in 1954, perhaps, was the extent to which a ventriloquist state depicting its own rhetoric issuing forth from the mouths of the people.

Not only had the government destroyed the homes and livelihoods of rural citizens, it now had the temerity to suggest that it had done so with their willing compliance. In reality, those living in flood diversion area had not volunteered their homes. The order to open the sluice gates was imposed upon them. Furthermore, beneath the highly politicised rhetoric of cadre reports, there were hints that something was going seriously wrong in the diversion zone. The government had completed an ambitious hydraulic project but had not prepared an adequate plan to manage the inevitable consequences. Now they were called upon to conduct a rapid evacuation of the affected zone. Unfortunately many people were extremely reluctant to leave their homes.

Resisting government evacuation is by no means unusual. Members of flood-threatened communities from areas as diverse as Mozambique, India and New Orleans have all refused to be relocated.<sup>61</sup> Often disparaged as ignorance, such behaviour is usually rooted in an understandable desire to protect property. In as much as this basic material concern played a role in 1954, residents of Hubei were also influenced by their particular political context. Villagers in Jianli County

<sup>57</sup> Anne Birrell, 'The Four Flood Myth Traditions of Classical China', *T'oung Pao*, 83, 1997, pp. 213-59.

<sup>58</sup> For a full list of the openings see Pi, *Wuhan tongshi*, p. 70.

<sup>59</sup> *Renmin Ribao* 24 October 1954. This exact phrase was also used in 'Wuhan fangxun zhihui bu.'

<sup>60</sup> Kathryn Edgerton-Tarpley, 'Between War and Water: Farmer, City, and State in China's Yellow River Flood of 1938-1947', *Agricultural History*, 90, December, 2016, pp. 94-116.

<sup>61</sup> Allen Isaacman and Barbara Isaacman, *Dams, Displacement, and the Delusion of Development: Cahora Bassa and Its Legacies in Mozambique, 1965-2007*, Ohio University Press, Athens, 2013, p.170. Andrew Crabtree, 'The Deep Roots of Nightmares', in *Cultures and Disasters: Understanding Cultural Framings in Disaster Risk Reduction*, Fred Krüger, Greg Bankoff, Terry Cannon, Lisa Schipper, Benedikt Orłowski (eds.), Routledge, New York, 2015. Chester Hartman and Gregory Squires, 'Pre-Katrina, Post-Katrina', in *There is No Such Thing as a Natural Disaster: Race, Class, and Hurricane Katrina*, Chester Hartman and Gregory D. Squires (eds.), Routledge, New York, 2006.

explained that they did not want to evacuate as to do so involved carrying their property out in the open, thereby ‘exposing their wealth (*loufu*).’ The official who reported this behaviour attributed it to ‘bad elements (*huai fenzi*)’ in the village, who had spread rumours that the government was planning to use the flood as an excuse to further collectivise property.<sup>62</sup> Villagers had good reason to be cautious, given the extent to which property had been dispossessed and redistributed by the state in recent years. Their fears were in fact quite prescient. Over the next few years the state really did appropriate their property and force them to live in communes.

Another cadre reported how the class taxonomy introduced by the CCP was influencing refugee behaviour. Those considered middle or rich peasants did not want to be relocated, as they believed that the government would only provide relief to those designated as poor peasants.<sup>63</sup> This, again, was not unreasonable, given the extent to which those with unfavourable class designations had been excluded from earlier government policies.<sup>64</sup> The situation was even worse for the most hated class enemy, the landlords, who were so convinced that no relief would be forthcoming that they simply ‘surrendered to fate (*tingtian youming*).’ Cadres conducted a propaganda campaign designed to allay such ‘ideological concerns (*sixiang gulu*).’ This could hardly undo the insecurity fostered by years of political campaigns.

When officials attempted to evacuate a village in Qianjiang the local population shouted abuse at them. Elsewhere the army resorted to firing guns and artillery into the waste ground surrounding a village, and shouting the names of well-known ‘bandits’ in an attempt to intimidate people into departing.<sup>65</sup> Even when villagers could be persuaded to leave, the government struggled to maintain order. Cadres in Jianli attempted to follow an efficient methodology in which those with poorly constructed homes in low-standing areas were to be moved first. Priority would be given to the elderly and infirm, and to the families of soldiers.<sup>66</sup> Before they could implement this methodology, however, local villagers began fighting in order to board boats, causing people to drop salvaged property into the water.<sup>67</sup>

The problems did not end with evacuation. Host communities often proved less than welcoming to members of the displaced population.<sup>68</sup> Reluctance to house refugees is hardly unusual during a crisis.<sup>69</sup> Once again, however, local attitudes were informed by the political context. Cadres in Honghu worried that refugees would diminish production levels, and villagers feared that an influx of outsiders would spark a second wave of land reform. One reasoned that, ‘It is OK for refugees to come, but I don’t have much land, I cannot give any away.’<sup>70</sup> Citizens of Wuhan also grumbled about refugees, complaining that were not working hard enough.<sup>71</sup> If these urbanites failed to appreciate the sacrifice made by their rural compatriots, it was hardly their own fault. Contemporary media reports said nothing of the great misery

<sup>62</sup> ‘7 Yue xiaxun kuikou fenhong diqu qingkuang,’ *HFKDX*, pp. 239-240

<sup>63</sup> ‘Kuikou fenhong qu mei ri qingkuang, Hubei sheng shengchan jiuji weiyuanhui bangongshi, 29 July 1954, *HFKDX*, p. 245

<sup>64</sup> See for example Li Huaiyin, *Village China*, p. 29

<sup>65</sup> Feng Zhiqiang, ‘Wo jiyi zhong de Jingjiang fenhong gongcheng shouci yunyong, *Wuhan wenshi ziliao*, 7 (2010).

<sup>66</sup> ‘7 Yue xiaxun kuikou fenhong diqu qingkuang’, pp. 239-40

<sup>67</sup> ‘Kuikou fenhong qu mei ri qingkuang,’ p. 261

<sup>68</sup> ‘Jianli jiangnan zaimin gongzuo baogao,’ *HFKDX*, p. 353.

<sup>69</sup> See for example Edgerton-Tarpley, ‘Between War and Water,’ p. 107.

<sup>70</sup> ‘Kuikou fenhong qu mei ri qingkuang,’ pp. 274-5

<sup>71</sup> ‘Wuhan fangxun zhihuibu.’

caused by the drowning the countryside, choosing instead to focus upon the miraculous defence of Wuhan. Here, too, the official story was not all that it appeared.

### Unsinkable Wuhan

The defence of Wuhan was heralded as the crowning achievement of the flood prevention campaign. In 1955 the Hubei Water Conservancy Bureau published a commemorative volume entitled *The Party Leads the People to Victory over the Flood (Dang lingdao renmin zhanshengle hongshui)*.<sup>72</sup> This hagiographic account was designed not only to celebrate the successful flood prevention campaign, but also to contrast CCP disaster management with supposed inefficiency and corruption of the Nationalist regime. Photographs of dry and orderly city streets taken in Wuhan in 1954 were juxtaposed against chaotic scenes of inundation in the city in 1931. The volume also included a cartoon depicting a mother fish talking with her spawn against the backdrop of Hankou's distinctive skyline. In the caption below a young fish asks why he cannot visit one of Wuhan's leading attractions: "Mummy, didn't you say that when the water rose you would take us to Hankou's Minzhong Amusement Arcade?" The mother fish replies; "Child, visiting Minzhong was something I did in 1931, that couldn't happen now." The message was unequivocal - to the dismay of the local fish population, urban flooding was a thing of the past.



Figure 2<sup>73</sup>

<sup>72</sup> 'Wuhan shi fangxun zong zhihui bu.' *Dang lingdao renmin*.

<sup>73</sup> *Ibid.*

By comparing 1931 and 1954, propagandists were able to construct a narrative that adhered to what the literary historian Gang Yue has described as the ‘bitter/sweet dichotomy that organized the revolutionary teleology.’<sup>74</sup> The successful defence of Wuhan was not simply a victory over water but also a victory over history. This politicised reading of the disaster was reproduced in the English-language book *Man Against Flood*, written by the New Zealand expatriate Rewi Alley, a leading foreign spokesperson for the Maoist regime. Alley was well placed to make a comparison, having visited Wuhan during both floods. He claimed that in 1931 the Nationalist regime was ‘so wildly corrupt it permitted graft, speculation and stupid inefficiency to go hand in hand with relief measures.’<sup>75</sup> In 1954, by contrast, ‘the people of Wuhan worked a miracle,’ protecting a key industrial centre from inundation.<sup>76</sup> It is difficult to determine whether Alley was being deliberately mendacious or whether he had been duped by a carefully stage-managed tour of Wuhan.<sup>77</sup> Whichever was the case, the heroic victory he described stretched the truth to breaking point.

The modern city of Wuhan comprises the three historic municipalities of Wuchang, Hankou and Hanyang. Although the former two areas had genuinely been protected from inundation, Hanyang suffered several months of serious flooding and a major refugee crisis. The problem was due in a large part to inadequate flood defences. Unlike Hankou and Wuchang, which boasted dykes reinforced with concrete, Hanyang still relied upon defences constructed from tamped earth, clay, and coal slag.<sup>78</sup> These crumbling structures were inadequate protection against the oncoming deluge. By July, the 7,751 workers who had been sent to bolster the city’s defences had run out of earth. Soon a number of key dyke sections began to collapse. In desperation, engineers directed workers to protect key industrial sites, including a lumberyard and cotton mill.<sup>79</sup> In doing so, they effectively surrendered vast swathes of residential housing to water. The inundation of Hanyang mirrored the broader dynamic unfolding throughout Hubei. The homes of workers were sacrificed so that their factories might survive. Around 26,300 Hanyang residents became refugees as a result.<sup>80</sup>

In spite of claims that the revolution had improved the lives of the ordinary population, many citizens of Hanyang still lived in intense poverty. Older residents still recall the simple huts (*pengzi*) constructed from reeds and other inexpensive materials that were erected on lakeshores and riverbanks in the city. These were acutely vulnerable to inundation. One family that moved from the rural hinterland to work as porters, were living in a riverside area at the time of the flood. When large waves began threatening the Dragon Lantern Dyke that protected their neighbourhood, they were forced to gather their possessions and flee to Turtle Hill. Here they built a small shelter on the former cremation grounds of a local Buddhist monastery. They lived for months amidst the charred remains of monks. Similar camps mushroomed up on the hillsides, dyke tops, and other areas of high ground, which had formed an archipelago of flood islands throughout Hanyang. One interviewee recalled how residents of Parrot Island, a fluvial deposit located in the river between the Wuhan

<sup>74</sup> Gang Yue, *The Mouth That Begg: Hunger, Cannibalism, and the Politics of Eating in Modern China*, Duke University Press, Durham NC, 1999, p. 168.

<sup>75</sup> Alley, *Man Against Flood*, p. 11.

<sup>76</sup> *Ibid.*, p. 20

<sup>77</sup> On Alley see Brady, *Friend of China*.

<sup>78</sup> Tao, ‘Tao Shuzeng yu 1954 nian.’

<sup>79</sup> ‘Wuhan fangxun zhihui bu.’

<sup>80</sup> ‘Kuikou fenhong qu mei ri qingkuang.’

cities, were forced to crush into the classrooms of a local school, living there for months. The experiences of these people are missing from both contemporary media reports and subsequent histories, which focus upon Hankou and Wuchang and ignore the large sections of Wuhan lost to water.

This was not the first refugee crisis in Hanyang. During the late-imperial period, those displaced by disasters had relied upon government granaries and charitable organisations, including guilds, benevolent halls, temples, and native place associations.<sup>81</sup> In the early twentieth century these traditional organisations had been augmented by the growth of influential national and international charities.<sup>82</sup> Unlike the Nationalists, who had sought to co-opt the expertise and resources of both traditional and modern institutions, the CCP took a decidedly dim view of private charity, seeing it as a bourgeois obfuscation - a mere palliative for the class exploitation that was the root cause of disasters. Undermining private philanthropy formed part of the broader attack upon traditional sources of elite legitimacy, which had begun in earnest with the Five Antis campaign.<sup>83</sup> The 1954 flood represented one of the first real challenges for the economic infrastructure that the CCP had introduced in order to replace traditional charitable institutions.

The Nationalists had funded the 1931 flood relief effort with hastily issued bonds and costly foreign loans.<sup>84</sup> The CCP was much better placed, being able to utilise a fully nationalised banking sector. The People's Bank of China provided a 300,000 RMB emergency loan to Wuhan alone.<sup>85</sup> The government also initiated large-scale interregional grain transfers, a policy which echoed that economic interventions made by the Qing state during the eighteenth century golden age of disaster governance.<sup>86</sup> Soon emergency aid was arriving in Hubei from as far afield as Guangdong, Henan and Sichuan.<sup>87</sup> The state grain monopoly may not have been universally popular, and its abuse at the end of the 1950s would be a major cause of famine, yet at this time of crisis it provided an expedient means of organising relief.

Media reports heralded the disaster relief campaign as an unqualified success. Shops laden with food in 1954 were juxtaposed with images of starving refugees in 1931.<sup>88</sup> Although this was clearly a highly partial view of events, those who lived as refugees in Hanyang tended to corroborate this positive assessment. The relief effort is remembered as a highly organised and well-provisioned affair. 'Chairman Mao was very good,' one now elderly woman recalled, 'He didn't let us starve. Every family got steamed bread.' Another former refugee marvelled at how the government had used airdrops to feed those isolated on hillsides. The picture may not have been quite

<sup>81</sup> William Rowe, *Hankow: Conflict and Community in a Chinese City, 1796-1895*, Stanford University Press, Stanford, 1989.

<sup>82</sup> For a good overview see Andrea Janku, 'The Internationalization of Disaster Relief in Early Twentieth-century China', in *State, Society and Governance in Republican China*, Mechthild Leutner and Izabella Goikhman (eds.), Chinese History and Society, Berlin, 2013, XLIII, pp. 6-28.

<sup>83</sup> Nara Dillon, 'New Democracy and the Demise of Private Charity in Shanghai', in *Dilemmas of Victory: The Early Years of the People's Republic of China*, Jeremy Brown and Paul Pickowicz (eds.), Harvard University Press, Cambridge MA, 2007, p. 82

<sup>84</sup> David A. Pietz, *Engineering the State: The Huai River and Reconstruction in Nationalist China, 1927-1937*, Routledge, London, 2002.

<sup>85</sup> *Wuhan difangzhi*, Wuhan, Wuhan fangxun zhihuibu bangongshi, 1986, p. 27

<sup>86</sup> Pierre-Étienne Will and R. Bin Wong, *Nourish the People: The State Civilian Granary System in China, 1650 - 1850*, Center for Chinese Studies, Ann Arbor, 1991.

<sup>87</sup> Li, '1954 nian Hubei.'

<sup>88</sup> 'Wuhan shi fangxun zong zhihuibu.' *Dang lingdao renmin*.

a rosy as these refugees recalled. Cadre reports show that outbreaks of malaria and gastrointestinal disease took a heavy toll upon refugees in Hanyang.<sup>89</sup> Rather than recalling such hardships, memories of the flood tended to be tinged with a degree of nostalgia. This is fairly typical, as many older Wuhan residents still view the collective era as relatively egalitarian and incorrupt. Yet we cannot simply dismiss these positive memories. The near universal praise heaped upon governors in 1954 suggests that, in Hanyang at least, the disaster was managed relatively well. One interviewee even went so far as to suggest that being a refugee was preferable to his everyday life at the time. At least in the camp he received a daily ration of food. Unfortunately these positive experiences were not shared by many of those living in the countryside, where the flood had resulted in widespread hunger and disease.

### Death in the countryside

The Chinese government has always maintained that the 1954 flood resulted in a relatively limited loss of life. Contemporary media reports offered virtually no descriptions of death, save for a few accounts of exemplars martyred in the war against water. The officially recognised death toll, compiled by State Statistical Bureau in the 1990s, puts the figure at 33,160 fatalities throughout China.<sup>90</sup> Although not an inconsiderable loss, this mortality rate was well below the estimates for the 1931 flood, when anywhere between 400,000 and 2,000,000 people died.<sup>91</sup> Quite how the official death toll for 1954 was calculated remains a mystery. This has not stopped the figure from becoming the standard cited by both local and foreign historians.<sup>92</sup> There is, however, an alternative set of statistics that offer a very different picture of the flood. An internal disaster investigation carried out by the CCP in early 1955 suggests that 149,507 people died in Hubei alone.<sup>93</sup> The report categorises victims in accordance with their cause and place of death, suggesting that this investigation had a coherent methodology. These statistics are corroborated by another cadre report, which suggests that between July and November 1954 around 132,221 people had died.<sup>94</sup>

These reports demonstrate that around *five times as many people died* in the flood than has been officially acknowledged. Somewhere in the journey between internal reports and officially published statistics, the lives of well over 100,000 people simply disappeared from history. What truly occurred during the flood is obscured beneath layers of euphemism and politicised rhetoric in official reports. The few glimpses that are revealed when this veneer slips, coupled with the insights offered by oral history, provide valuable clues as to what went wrong. Famine had historically been one of the most significant problems facing flood-stricken populations in China. Although refugees in Wuhan in 1954 may have marvelled at the generosity of the state, the same could not be said for their rural counterparts. One farmer from Shaomaoshan remembered receiving very little state assistance. Instead his family fell back upon

<sup>89</sup> 'Kuikou fenhong qu mei ri qingkuang,' p. 264. 'Wuhan fangxun zhihuibu'

<sup>90</sup> Zong and Chen, '1998 Flood'

<sup>91</sup> On mortality see Chris Courtney, *DisasterHistory.org*, October 2015, <http://www.disasterhistory.org/central-china-flood-1931#METRICS>, accessed 14 July 2016.

<sup>92</sup> See for example, Kenneth Pomeranz, 'The Transformation of China's Environment 1500-2000', in *The Environment and World History*, Edmund Burke III and Kenneth Pomeranz (eds.), University of California Press, Berkeley, 2009, p. 118-165. Li, '1954 nian Hubei shuizai yu jiuji.'

<sup>93</sup> 'Hubei sheng yijiuwusi nian shuizai qingkuang ji zaihou huifu qingkuang tongji,' Hubei sheng dang'an guan, Wuhan, 1954.

<sup>94</sup> 'Zaiqu qingkuang jianbao' 26 November 1954,' *HFKDX*, p. 280



traditional coping strategies, eating unripe rice and beans salvaged from the flood. When these stocks ran out they relied upon assistance offered by kinship networks. The propaganda celebrating a victory over the flood did not resonate with this individual's experiences. 'We were very pitiful (*zaoye*),' he recalled, 'I feel very miserable thinking about those times.'<sup>95</sup>

Not all rural areas suffered such profound privation. Cadres in Huangpi were fêted as 'Buddhas of salvation (*jiuming pusa*)' after they distributed food and oil to the local population.<sup>96</sup> Yet even in areas where the state was able to provide relief, there were often still food shortages. Soon rural populations began to display the symptoms of acute economic distress.<sup>97</sup> Cadres in Honghu bemoaned the fact that refugees had spent relief funds on begging bowls, seeing this as an expression of misguided ideology rather than desperation.<sup>98</sup> The re-emergence of mendicancy was particularly galling, as the eradication of begging had been one of the most celebrated victories of the early CCP government.<sup>99</sup> Elsewhere farmers sold their cattle, a desperate act given the vital role these animals played in the pre-mechanised agricultural system. Many people went to great lengths to save their oxen and buffalo from drowning, only to find they had no fodder to feed them. By the autumn, cadres were reporting that 'evil merchants' were travelling from Hunan to purchase cattle at minimal prices.<sup>100</sup> Asset speculation had been a mainstay of Chinese disasters for centuries.<sup>101</sup> It would seem that even after the Five Antis campaign, this rapacious form of economic exploitation was still thriving.

In spite of the obvious distress caused by the destruction of the main summer harvest, there is little evidence to suggest that Hubei sank into a full-blown famine in 1954. The disaster investigation suggested that a mere 69 people had died as the result of exposure and starvation.<sup>102</sup> Rural communities may have been begging and divesting assets, but they do not appear to have been selling family members, and they certainly did not engage in cannibalism, as famished people sometimes had in the past and would again at the end of the 1950s.<sup>103</sup> The official relief campaign no doubt played a role in preventing starvation. Yet people from Hubei were formidable flood survivalists. Cadres praised the autonomous actions of farmers, who began to plant and even clear new land at the height of the flood.<sup>104</sup> When the water receded, people used buckets to catch the fish stranded in pools. Counterintuitive as it may seem, some interviewees actually remembered the flood as a time of plenty due to this nutritional windfall.

<sup>95</sup> In the Hubei dialect *zaoye* 造业 (a variant of the Buddhist karmic concept *zaonie* 遭孽) is used in a similar way to the term *kelian* 可怜 in standard Mandarin.

<sup>96</sup> 'Hubei sheng zaiqing jianbao' 7 July 1954, *HFKDX*, pp. 228-9

<sup>97</sup> '7 Yue xiaxun kuikou fenhong diqu qingkuang.'

<sup>98</sup> 'Kuikou fenhong qu mei ri qingkuang.'

<sup>99</sup> Hanchao Lu, *Street Criers: A Cultural History of Chinese Beggars*, Stanford University Press, Stanford, 2005.

<sup>100</sup> '7 Yue xiaxun kuikou fenhong diqu qingkuang.'

<sup>101</sup> On disaster profiteering in the eighteenth century see Pierre-Étienne Will, *Bureaucracy and Famine in Eighteenth-Century China*, trans. Elborg Forster, Stanford University Press, Stanford, 1990.

<sup>102</sup> *Hubei sheng yijiuwusi nian shuizai qingkuang ji zaihou huifu qingkuang tongji*, Hubei sheng dang'an guan, Wuhan, 1954.

<sup>103</sup> Yang, *Tombstone*.

<sup>104</sup> 'Hubei sheng zaiqing jiankuang.'

When it comes to famine, absence of evidence is not necessarily evidence of absence. It is possible that investigators may have chosen for political reasons to attribute starvation fatalities to disease. During the Great Leap, famine was sometimes described as medical emergency to render it more politically palatable.<sup>105</sup> It is also possible that some people did not have time to starve to death, as they succumbed to infections first. Throughout history, disease has always been the leading proximate cause of flood mortality, far outstripping the threat from drowning or starvation. 1954 was no exception. Most of those who died succumbed to disease. Dysentery, gastroenteritis and other diarrheal conditions accounted for almost two thirds of all disease fatalities.<sup>106</sup> Contagious diseases such as measles and influenza were the second most lethal. Malaria, which ordinarily thrived during Yangzi floods, accounted for a mere five per cent.<sup>107</sup> In the aftermath of inundation, haemorrhagic fever and schistosomiasis swept through a weakened population, helping to raise death rates to fifteen per thousand.<sup>108</sup>

Prefecture ( <i>qu</i> )	Flood-Affected Population	Mortality
Huanggang	2,6060,130	11,260
Xiaogan	2,435,999	31,699
Jingzhou	3,873,335	104,598
Yichang	248,957	829
Xianyang	598,814	889
Enshi	108,629	107
Huangshi City	32,937	125

Figure 3<sup>109</sup>

Of the approximately 10,000,000 people in Hubei affected by the disaster, by far the largest proportion could be found in Jingzhou, the prefecture where flood diversion was located. This area not only had the largest aggregate population of refugees but also by far the highest per capita mortality (see Figure 2). It was home to around forty per cent of flood victims yet suffered almost seventy per cent of all fatalities. We are unlikely to ever know the truth about what went wrong in this prefecture. From the internal report we learn that the three most severely affected counties were Mianyang (25,702 fatalities), Jianli (32,627), and Honghu (21,092). Other areas suffered from mountain flooding, waterlogging or dyke failure, yet it was the three counties that the government flooded *deliberately* that had by far the highest rate of mortality.

<sup>105</sup> Compare Paltemaa, *Managing Famine, Flood, and Earthquake in China*, p. 33.

<sup>106</sup> Statistics based on a study of 7898 deceased people from 8 counties. 'Zaiqu qingkuang jianbao,' p. 280

<sup>107</sup> 22.8 per cent of deaths were attributed to 'other' causes.

<sup>108</sup> Tao Jingliang, 'The Features of the Three Gorges Dam', in *Megaproject: A Case Study of China's Three Gorges Dam*, Shui-Hung Luk and Joseph Whitney (eds.), M.E. Sharpe, Armonk, 1993.

<sup>109</sup> Compiled using data from *Hubei sheng yijiuwusi nian shuizai qingkuang*,

The government cannot be held entirely responsible for these fatalities. Even had they not opened the sluice gates then it is estimated that around seventy per cent of this region would have been inundated.<sup>110</sup> The diseases that drove mortality were density sensitive, meaning that the per capita mortality rate was bound to be highest in the area with the largest concentration of refugees. Yet there were clearly some woeful inadequacies in disaster management in Jingzhou, which helped to create beneficial ecological conditions for the types of pathogens that cause gastrointestinal disease. One report from Honghu described how displaced people were defecating and urinating freely around their living area. Cadres sought to shift the blame onto refugees, claiming they lacked adequate hygienic education. Arguably, however, the fact that refugees had not been provided with even the most basic facilities is a bitter indictment of disaster governance.<sup>111</sup> Propagandists heaped praise upon the population of the flood diversion zone for sacrificing their homes. In reality rural refugees were abandoned to live in abject conditions. Given that this was a planned flood, the failure to evacuate and rehouse refugees is quite incomprehensible. Governors concentrated upon elaborate technical interventions and yet did not plan for the humanitarian consequences of the flood diversion

This neglect continued in the months following the flood. According to contemporary propaganda, by saving Wuhan the government had retained the economic and infrastructural capacity to reconstruct the whole province.<sup>112</sup> In contrast to this positive picture, refugees from Hanyang remembered reconstruction as an arduous and unpleasant process. They had to return to live in homes that were coated in thick layers of malodourous mud. In the countryside things were even worse. One interviewee described returning to his farm to find all his crops washed away and his draught animals dead. His family then had to live with little food through a bitterly cold winter in a hastily improvised shack. He was luckier than many of his neighbours, who had been killed in the flood. The bitter reality of post-disaster life perhaps goes some way to explaining why an epidemic of suicide began to sweep through Hubei. Once again residents of the flood diversion zone were the hardest hit. Of the 2,010 people who took their own lives during the disaster in Hubei, some 1,349 were from this area.<sup>113</sup> These desperate people, whose communities and systems of subsistence had been sacrificed to save other areas, faced a future of economic hardship and acute insecurity. Those who chose to take their own lives were the last unacknowledged casualties of the war against water.

## Conclusion

The 1954 flood laid bare a brutal irony of the Chinese revolution - a political project that had swept to power by mobilising millions of rural citizens chose repeatedly to sacrifice the countryside in order to develop the city. Some of the communities that were flooded deliberately had supported the CCP loyally since as early as the 1920s, providing assistance to guerrilla forces fighting against the Nationalists and Japanese.<sup>114</sup> One was so renowned that it was celebrated in the 1961 motion picture

<sup>110</sup> 'Hubei sheng zaiqing jiankuang,' 6 September 1954, *HFKDX* p. 226.

<sup>111</sup> 'Kuikou fenhong qu mei ri qingkuang,' p. 263.

<sup>112</sup> Alley, *Man Against Flood*, p. 20

<sup>113</sup> *Hubei sheng yijiuwusi nian shuizai qingkuang*. It is also possible that 'suicide' was used in the statistics as a euphemism for deaths of a politically sensitive nature.

<sup>114</sup> Gregor Benton, *New Fourth Army: Communist Resistance Along the Yangtze and the Huai, 1938-1941*, University of California Press, Berkeley, 1999, p. 38.

*The Red Guards on Honghu Lake (Honghu chiwei dui)*.<sup>115</sup> This loyalty counted for very little as the sluice gates were opened. This deliberate flooding was an extreme example of the kind of urban bias that Jeremy Brown has described as typical for the Maoist era. Policies that aimed ostensibly to eliminate distinctions between the countryside and the city actually sharpened the divide. This was most evident during the Great Leap famine, yet could also be discerned when millions of urban youths were dumped on the countryside during the Cultural Revolution.<sup>116</sup>

The Maoist state is not the only polity in history to have sacrificed rural lives to rivers. The most obvious comparison is with the Nationalists, whose generals deliberately breached the Yellow River dykes in 1938 in a desperate attempt to slow the Japanese advance.<sup>117</sup> Qing commanders adopted a similar approach in 1856, albeit on a smaller scale, using the Juzhang River as a weapon against their Taiping enemies.<sup>118</sup> Looking beyond China, the United States Army Corps of Engineers blew up levees in 1927, unleashing the Mississippi onto rural districts in order to protect New Orleans.<sup>119</sup> The 1954 flood diversion was not, then, a peculiar pathology of Maoist ideology. Neither was it morally indefensible. Kathryn Edgerton-Tarpley has described the Nationalist decision to unleash the Yellow River as a 'pragmatic response to a terrible situation.'<sup>120</sup> The same could be said of 1954. We need look no further than 1931 to see how much more profound the humanitarian consequences could have been had the whole of Wuhan been inundated. Not only would millions of urban citizens have been plunged into water, the province would also have been deprived of its economic centre. Those who opened the sluice gates were neither heroes nor villains. In as much as their decision has been distorted terribly within hagiographic official histories of the flood, it cannot be explained by the form of demonographic analysis that is sometimes deployed within the popular historiography of Maoist China. This was a complex zero-sum calculation, which belies attempts to transform history into a political cautionary tale.

Hubei would have flooded in 1954 no matter which political party was at the helm. Whether the humanitarian consequences would have been the same is a different question. The CCP seems to have managed some aspects of the relief effort relatively well, taking advantage of increased control over labour, finances, and grain. Contrary to the view of historians who feel we must apply a totalising logic when analysing the Maoist economic system, the experience of the 1950s reveals that the collective economy was good at some things and bad at others. One area where it seemed to thrive was in distributing resources during relief campaigns. The generally positive memories of refugees in Hanyang were hardly exceptional. Members of communities that experienced the Wei River Floods in Henan in 1956 and the Hai River Floods in Hebei in 1963 also spoke highly of government relief efforts.<sup>121</sup> This relative

<sup>115</sup> See *Hong hu chi wei dui : ge ju*, Renmin wenzue chubanshe, Beijing, 1978.

<sup>116</sup> Brown, *City Versus Countryside*. The CCP sacrificed the countryside once again during floods in 1963. See Paltemaa, *Managing Famine, Flood, and Earthquake*.

<sup>117</sup> Micah Muscolino, *The Ecology of War in China Henan Province, the Yellow River, and Beyond, 1938–1950*, Cambridge University Press, Cambridge, 2015.

<sup>118</sup> Yan Gao, *Transformation of the Water Regime: State, Society and Ecology of the Jiangnan Plain in Late Imperial and Modern China*, Thesis, Carnegie Mellon University, 2012.

<sup>119</sup> Pete Daniel, *Deep'n as it Come: The 1927 Mississippi River Flood*, University of Arkansas Press, Fayetteville, 1977, pp. 72-73.

<sup>120</sup> Edgerton-Tarpley, 'Between War and Water.'

<sup>121</sup> Thaxton, *Catastrophe and Contention*, pp. 104-106; Lillian Li, *Fighting Famine in North China: State, Market, and Environmental Decline, 1690s-1990s*, Stanford University Press, Stanford, 2007, p. 367.

efficiency renders the mass starvation of the late-1950s even more incomprehensible. During these so-called Three Years of Natural Disasters, a government that had learnt to deal relatively effectively with acute subsistence crises fell back on the oldest excuse in the book – blaming their economic mismanagement upon the weather.

If the state was able to organise effective relief then why did so many people perish in Hubei in 1954? The answers are more political than economic. They involved both the micropolitics of the village, where distrustful farmers felt that they were being duped out of land, and the macropolitics of hydraulic governance, with engineers giving insufficient thought to the collateral damage caused by hydraulic interventions. Each of these spheres speaks to a political system that, as Yang Jisheng has argued, lacked an effective feedback mechanism between society and state.<sup>122</sup> This also ensured that none of the lessons of the flood were enshrined within disaster governance. Rather than subjecting itself to the kind of rigorous self-criticism (*ziwo pipan*) that it so often prescribed to political opponents, the party-state instead rewrote the history of the flood. This not only expunged thousands of lives from the record, but also precluded any chance that the flood might inspire the kind of ‘fundamental learning’ that Christian Pfister has identified as key to addressing the ultimate causes of disasters.<sup>123</sup> As a result, rather than seeking to respect and accommodate inevitable hydrological fluctuations, the government continued to do battle with the Yangzi. This culminated with the construction of the Three Gorges Dam. When this was completed in the first decade of the twenty-first century, the government seemed to have finally solved the problem of flooding in Hubei.<sup>124</sup> The millions displaced by this monumental engineering scheme were, it would seem, a price worth paying for hydraulic security.<sup>125</sup> Unfortunately, the declaration of victory in the war against water proved premature. During the summer of 2016 much of Hubei, including Wuhan, found itself once again under water. It would seem that residents of this long disaster-prone province are condemned to suffer flooding every time the Yangzi forgets that it has been vanquished.

<sup>122</sup> Yang, *Tombstone*.

<sup>123</sup> Christian Pfister, 'Learning from Nature-Induced Disasters Theoretical Considerations and Case Studies from Western Europe', in *Natural Disasters, Cultural Responses Case Studies Toward a Global Environmental History*, Christof Mauch and Christian Pfister (eds.), Lexington Books, Lanham, 2009, pp. 17-40.

<sup>124</sup> Yin Liangwu, *The Long Quest For Greatness: China's Decision to Launch the Three Gorges Project*, Thesis, Washington University, St Louis, 1996.

<sup>125</sup> Bryan Tilt, *Dams and Development in China: The Moral Economy of Water and Power*, Columbia University Press, New York, 2015, p. 146.