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THE GREAT KANTO EARTHQUAKE AND THE RESPONSE OF INSURANCE COMPANIES: A HISTORICAL LESSON ON THE IMPACT OF A MAJOR DISASTER*

TAKAU YONEYAMA**

I. Introduction: Research Questions and Approach

The Great Kanto earthquake of 1923 was the first, and probably last, major disaster in Japan. The payment of fire claims arising from the fire and directly or indirectly caused by the earthquake became both a political issue and a social problem. Some insisted loudly on the invalidity of the earthquake exemption clause in fire policies, and others claimed that fire insurance companies should pay insurance money via extra-legal means. Although it is clear that the exemption clause was effective, public opinion at that time forced insurance companies to take some action towards payment.

There are two research questions in this paper. First, why were Japan's insurance companies obliged to pay part of the claims as a fiscal token of their sympathy with the victims, despite the validity of earthquake exemption clauses? Second, following the conclusion of the problem, how was the industrial organization changed by the burden of Government loans?

Many records and surveys exist on the Great Kanto Earthquake. Political and social historians have focused on the political and social problems caused, for example, the bloodbath of Koreans and socialists that came immediately after. Researchers of natural disasters explicated the mechanisms and factors determining damages following a severe earthquake. In the fields of economic and business history, historians have focused on the bad commercial notes that were circulated under the guise of relieving losses, because such non-performing loans were the key factor behind the financial panic of 1927.

Few business historians have explored the Great Kanto earthquake. The consequences of the earthquake on the insurance business have already been stated by In'nami. We cannot also overlook two studies by business historians; one of which is a paper by Mishima. He

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* A draft of this paper was read at an annual meeting of the Asia-Pacific Economic and Business History, Melbourne, on 14th February 2008. I should express my special thanks to Swiss Re for its financial assistance. I also appreciate that Professor Robin Pearson, University of Hull, gave me instructive comments for my paper. Although I rewrote it according to his comments, there might be any unsatisfactory points I did overlook. Of course, it lies upon me to make any mistakes in this paper.

** Professor of Graduate School of Commerce and Management, Hitotsubashi University

1 Although huge economic losses were overtaken by the Kansai Great Earthquake of 1994, the number of houses and victims of the earthquake of 1923 was far greater than in the former disaster.


3 Mishima, Yasuo, Great Kanto earthquake and Hachisaburo Hirao: A problem on fire insurance payment, Konan
examined the diary of Hachisaburo Hirao, an executive managing director of Tokio Marine, and emphasized that Hirao was a social-minded manager at the time of the disaster. Tamura published a series of papers concerning the impact of the earthquake on the insurance business. He freely used articles from contemporary newspapers, and clarified the process of why fire claims became such an issue. His papers also tried to clarify the factors obliging the insurance companies to make payments.

In addition to the above research and papers, non-life insurance company histories provide considerable important information concerning the business impact of the earthquake, and the official insurance statistics are also important for an analysis of the industrial organization. For the current paper, we have actively utilized other materials upon which previous studies were not dependent, and tried to solve the two research questions outlined above. The results, we hope, will broaden our views of the business impact of the Great Kanto earthquake of 1924, and help explain the impact of the disaster on the organization of the insurance industry.

The structure of this paper is as follows: the main issues examined in the next section are the losses of the Earthquake of 1923 and the insurance companies' response to the same. In section 3, we try to solve the first research question, and explain the reasons why insurance companies paid money to the insured victims as tokens of their sympathy. The second research question is discussed in section 4. The impact of the Great Kanto earthquake did not change Tokio Marine's hold over the national fire insurance market, but did transform the mechanisms of market control. Finally, the conclusion sums up the historical lessons to be learnt from the study.

II. The Great Kanto Earthquake and the Insurance Companies' Response

1. Earthquake Damage

The Kanto region was hit by a severe earthquake at two minutes before noon on 1st September, 1923, which almost entirely ruined Tokyo and Yokohama. Its most distinguishing feature was that the indirect damage and injuries were greater than those directly caused. The Earthquake struck during lunch-cooking time, while most Japanese residents used small fire kitchen ranges for cooking at this time. Triggered by these fire ranges, fires broke out everywhere throughout central Tokyo and Yokohama. Unfortunately, a gale was blowing due to a typhoon in western Japan. Consequently, about 212 thousand houses were burnt down by the disastrous fire, in other words more than the number of those directly damaged by the earthquake. The number of fatalities and missing persons totaled more than 105 thousand.

The estimated sum insured by the victims was 2.2 billion yen, which far exceeded the available insurance assets. Following an investigation, it was recognized that the actual sum


5 Contemporary newspapers reported the insured loss to be 2.2 billion yen. The Osaka Daily News stated that the solvency margin of all Japan's non-life insurance companies was less than 200 million yen. For the victims' sum insured, see The Osaka Daily News, 14 September, 1923 and The Osaka Sun News, 15 September, 1923. For the solvency margin, see The Osaka Daily News, 19 September, 1923.
insured by sufferers of the disaster was 1.494 billion yen, as Table 1 shows. Table 2 shows the sums reinsured on the affected policies. If all reinsurance claims had been paid to primary insurers, the amount would have far exceeded the total solvency margin of the insurance companies involved.

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**Table 1. The Number and Amount of Fire Policies Held by the Disaster Victims**

<table>
<thead>
<tr>
<th>Description of Objects Insured under Damage Policies</th>
<th>Insured amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movables</td>
<td>680,782,000</td>
</tr>
<tr>
<td>Real estate</td>
<td>814,033,000</td>
</tr>
<tr>
<td>Total</td>
<td>1,494,815,000</td>
</tr>
</tbody>
</table>


**Table 2. Reinsurance of Fire Damage Policies**

<table>
<thead>
<tr>
<th>Description</th>
<th>Primary insurance companies</th>
<th>Reinsurance companies</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>The number of policies</td>
<td>291,157</td>
<td>379,340</td>
<td>670,497</td>
</tr>
<tr>
<td>Insured amount</td>
<td>1,494,815,000</td>
<td>626,938,000</td>
<td>2,121,753,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reinsured Amount</th>
<th>Primary insurance companies</th>
<th>Reinsurance companies</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>With home company</td>
<td>495,137,000</td>
<td>80,051,000</td>
<td>575,188,000</td>
</tr>
<tr>
<td>With foreign company whose office is located in Japan</td>
<td>83,709,000</td>
<td>12,194,000</td>
<td>95,903,000</td>
</tr>
<tr>
<td>Directly reinsured overseas</td>
<td>288,003,000</td>
<td>127,254,000</td>
<td>415,257,000</td>
</tr>
<tr>
<td>Total</td>
<td>866,849,000</td>
<td>219,499,000</td>
<td>1,086,348,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Net Insurance</th>
<th>Primary insurance companies</th>
<th>Reinsurance companies</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>The number of policies</td>
<td>291,157</td>
<td>379,340</td>
<td>670,497</td>
</tr>
<tr>
<td>Net insurance amount</td>
<td>627,966,000</td>
<td>407,439,000</td>
<td>1,035,405,000</td>
</tr>
</tbody>
</table>


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6 *The Chugai Commerce News* reported the sum insured against fire by the victims of the disaster. See *The Chugai Commerce News*, 17 December, 1923.
2. The Legal Bases for Insurance Payments for Fire Damage, Directly or Indirectly Caused by the Earthquake

Legally speaking, the exemption clause in fire policies allowed non-life insurance companies to escape paying fire insurance claims caused by the earthquake. However, this question did not always proceed without dispute. The Insurance part of the Commercial Law of 1898 did not clearly stipulate an exemption for fire caused by earthquake. Article 419 stipulated that the “Insurer is responsible for paying insurance money for losses caused by fire whatever the causes, provided that the same shall not apply to Articles 395 and 396.” Article 395 stated that the “Insurer has no responsibility for losses caused by wars and any disturbance, without a special contract.” Article 395 went on to state that the “Insurer has no responsibility for losses caused by the nature, defect or abrasion of the insurance object, or other losses provoked by malicious intent or gross negligence of the insured.” Under the Commercial Law, therefore, insurance companies were obliged to make payments for fire losses to insured parties who had suffered as a result of the earthquake.

Fire insurers, however, stipulated clearly in their insurance policies that the insurer was not responsible for losses caused by an earthquake or volcanic eruption, whether directly or indirectly. The exemption clause was inserted in section 17 of the general fire insurance policy, which was used by all fire insurance companies. The general fire policy was recognized as valid at the time, but if the provisions of the Commercial Law were to be regarded as binding, the exemption clause in the general fire policy would be invalidated. One newspaper reported that an authority on the Civil Law Act had declared that the exemption clause was not always to be held valid.

Actually this dilemma was typical one in the insurance market by this period in relation to major catastrophes. It depended internationally on the political strength of the claimant lobbies in different catastrophes. Where such lobbies were strong in San Francisco, exemption clauses simply ignored, and payments made to victims.

Although the earthquake exemption clause was supported by legal judgment, people became increasingly insistent on payment for fire losses under extralegal action, in order to accomplish the restoration of the imperial capital. Businessmen who had lost their factories and offices through the fire caused by the earthquake were particularly eager to exert influence upon the Government to support their insurance payments. Public opinion and the Government had high hopes of fire insurers voluntarily complying with their duty through feelings of sympathy for the victims of the earthquake; hence the insurers were under pressure to aid them in some way.

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7 See The Kobe Yushin News, 4 October, 1923.
8 See The Osaka Asahi News, 18 September, 1923.
9 The authority was Dr. Izutaro Suehiro, a professor of Tokyo Imperial University. His opinion was not given on paper, but in a telephone conversation, but we may regard the latter as a formal expression of his opinion. See The Kobe Yushin News, 4 October, 1923.
10 The value of the local market may have been decisive as well. High value market like California encouraged insurers to settle claims. But in low value markets, insurers, mostly the western insurers, would be less inclined to settle. In Japan, the foreign insurers did not pay insurance money, but paid back them the amount of one year’s premium.
11 There is considerable evidence for this. For example, see The Osaka Asahi News, 26 September, 1923.
3. The Problem of Insurance Payments for Fire Damage Caused by the Earthquake and Fire Insurers' Countermeasures

The representative of the Japanese fire insurers was Mr. Kenkichi Kagami, a senior managing director of Tokio Marine. Accepting the verdict of public opinion, he decided to pay sympathy for the insured sufferers. It was not easy for him to do so, however, because he faced a problem in coordinating fire insurers whose head offices were located in the Kansai region. Fire insurers in the Kanto region and Kagami

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12 After graduating from Tokyo Commercial College, now Hitotsubashi University, Kagami entered Tokio Marine, and became a board member because he achieved good results on his London business at a time when his company faced difficulties. He also strove to establish tariffs for fire insurance following his Company’s expansion into the fire business and achieved magnificent results. He became leader of the Mitsubishi Zaibatsu in the 1930s.

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### Table 3. The Financial Difficulties of Fire Insurance Companies Following Payment for Calamity Benefits

**Fire Insurance Companies Whose Headquarters Were Located in the Kansai Region**

<table>
<thead>
<tr>
<th>Company</th>
<th>Authorized capital</th>
<th>Paid-up capital</th>
<th>Reserved fund</th>
<th>10% Payment</th>
<th>Reserved after payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kobe Marine</td>
<td>15,000,000</td>
<td>3,750,000</td>
<td>7,890,000</td>
<td>5,355,000</td>
<td>6,285,000</td>
</tr>
<tr>
<td>Nippon Marine</td>
<td>10,000,000</td>
<td>2,650,000</td>
<td>4,420,000</td>
<td>1,797,000</td>
<td>5,273,000</td>
</tr>
<tr>
<td>Osaka Marine</td>
<td>10,000,000</td>
<td>2,790,000</td>
<td>5,680,000</td>
<td>4,800,000</td>
<td>3,670,000</td>
</tr>
<tr>
<td>Asahi Marine</td>
<td>10,000,000</td>
<td>2,500,000</td>
<td>560,000</td>
<td>1,300,000</td>
<td>1,760,000</td>
</tr>
<tr>
<td>Daifuku Marine</td>
<td>5,000,000</td>
<td>1,250,000</td>
<td>300,000</td>
<td>805,000</td>
<td>745,000</td>
</tr>
<tr>
<td>Taisho Marine</td>
<td>5,000,000</td>
<td>1,250,000</td>
<td>1,960,000</td>
<td>2,600,000</td>
<td>610,000</td>
</tr>
<tr>
<td>Hokoku Fire</td>
<td>3,000,000</td>
<td>750,000</td>
<td>2,890,000</td>
<td>4,700,000</td>
<td>-1,060,000</td>
</tr>
<tr>
<td>Fukujyu Fire</td>
<td>2,000,000</td>
<td>500,000</td>
<td>1,440,000</td>
<td>3,500,000</td>
<td>-1,560,000</td>
</tr>
<tr>
<td>Kyodo Fire</td>
<td>10,000,000</td>
<td>2,500,000</td>
<td>3,600,000</td>
<td>10,060,000</td>
<td>-3,960,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>70,000,000</strong></td>
<td><strong>17,940,000</strong></td>
<td><strong>28,740,000</strong></td>
<td><strong>34,917,000</strong></td>
<td><strong>11,763,000</strong></td>
</tr>
</tbody>
</table>

**Fire Insurance Companies Whose Headquarters Were Located in the Kanto Region**

<table>
<thead>
<tr>
<th>Company</th>
<th>Authorized capital</th>
<th>Paid-up capital</th>
<th>Reserved fund</th>
<th>10% Payment</th>
<th>Reserved after 10% payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tokio Marine</td>
<td>20,000,000</td>
<td>20,000,000</td>
<td>56,796,000</td>
<td>3,200,000</td>
<td>73,596,000</td>
</tr>
<tr>
<td>Imperial Marine</td>
<td>10,000,000</td>
<td>2,500,000</td>
<td>4,820,000</td>
<td>3,600,000</td>
<td>3,720,000</td>
</tr>
<tr>
<td>Nippon Fire</td>
<td>10,000,000</td>
<td>4,000,000</td>
<td>11,220,000</td>
<td>12,000,000</td>
<td>3,220,000</td>
</tr>
<tr>
<td>Toyo Marine</td>
<td>3,000,000</td>
<td>750,000</td>
<td>2,050,000</td>
<td>740,000</td>
<td>2,060,000</td>
</tr>
<tr>
<td>Chao Fire</td>
<td>5,000,000</td>
<td>1,250,000</td>
<td>310,000</td>
<td>650,000</td>
<td>910,000</td>
</tr>
<tr>
<td>Mitsubishi Marine</td>
<td>5,000,000</td>
<td>1,250,000</td>
<td>3,250,000</td>
<td>5,640,000</td>
<td>-1,140,000</td>
</tr>
<tr>
<td>Imperial Fire</td>
<td>10,000,000</td>
<td>2,500,000</td>
<td>2,480,000</td>
<td>6,300,000</td>
<td>-1,320,000</td>
</tr>
<tr>
<td>Toshin Fire</td>
<td>5,000,000</td>
<td>1,250,000</td>
<td>266,000</td>
<td>3,050,000</td>
<td>-1,490,000</td>
</tr>
<tr>
<td>Yokohama Fire</td>
<td>12,500,000</td>
<td>3,125,000</td>
<td>7,880,000</td>
<td>12,500,000</td>
<td>-1,495,000</td>
</tr>
<tr>
<td>Toho Fire</td>
<td>3,000,000</td>
<td>750,000</td>
<td>800,000</td>
<td>3,050,000</td>
<td>-1,500,000</td>
</tr>
<tr>
<td>Meiji Fire</td>
<td>1,000,000</td>
<td>1,000,000</td>
<td>12,083,000</td>
<td>15,670,000</td>
<td>-2,587,000</td>
</tr>
<tr>
<td>Tokyo Fire</td>
<td>10,000,000</td>
<td>2,500,000</td>
<td>9,300,000</td>
<td>12,300,000</td>
<td>-3,000,000</td>
</tr>
<tr>
<td>Chiyoda Fire</td>
<td>10,000,000</td>
<td>2,500,000</td>
<td>2,930,000</td>
<td>9,270,000</td>
<td>-3,840,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>104,500,000</strong></td>
<td><strong>43,375,000</strong></td>
<td><strong>114,185,000</strong></td>
<td><strong>87,970,000</strong></td>
<td><strong>67,134,000</strong></td>
</tr>
</tbody>
</table>

*Source: Osaka Asahi News Paper, 6 November, 1923*
collectively proposed that the Government pay 10% of the sum insured by victims as a gift in token of their sympathy, in exchange for an interest-free loan from the Government. If fire insurers had paid 10% of the sufferers’ insured losses, almost all insurers would have financially collapsed, as we can see from Table 3. As this matter became a political issue at the final stage in December 1923, the final solution to this problem was postponed to the following year.

Finally, Japan’s fire insurers paid 10% of the amount insured by victims and most insurers did so with financial assistance from the Government. A few insurers, including Tokio Marine, made a 10% payment out of their own resources. Almost all Japan’s fire insurers suffered an increasing financial burden because of the 4% interest on Government loans. This burden had a significant impact on the changing industrial organization of the fire insurance business, as we will discuss in section 4.

III. Reasons Why the Problem of Insurance Payment Occurred

If the earthquake exemption clause was valid, why did Japan’s fire insurers pay 10% of the sufferers’ insurance? Tamura presumed in his paper that the major causes were both the failure of the Government and poor knowledge of insurance contracts. Just after the earthquake, Prime Minister Gonbei Yamamoto made a statement in which he expressed the hope that fire insurers would make payments to the insured victims. The Minister of Agriculture and Commerce Kenjiro Den also expected fire insurers to pay a contribution to the insured. Tamura said that such slips of the tongue on the part of government ministers led fire insurers into financial difficulties, and that, in turn, poor knowledge of insurance contracts led to such mistakes on the part of the Government.

As it has been already seen in this paper, the political strength of claimant lobbies and the value of the local market were important factors to encourage insurers to settle claims. So we can not simply recognize that 10% payments resulted from poor knowledge of insurance contracts.

Tamura’s views are reasonable in as far as he emphasizes that the Government’s verbal lapse was an important factor behind the insurance industry’s policy of making payments towards losses from the earthquake. Doubt remains, however, regarding the notion of lack of knowledge of the insurance contract. Although there is no current doubt concerning the validity of the earthquake exemption clause, contemporaries, including insurance agents, could not be entirely sure. The uncertainty in this situation is obvious in a letter from Kagami to Hirao.

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13 A non-tariff company, Nippon Movable Fire Insurance, only carried out its own program of payment instead of following the other fire insurers. See 70 History of Fuji Fire, pp. 32-35.
14 Although the previous Government permitted loans of 0% interest, the generous offer was changed in the new Government plan. Government loans were financed by tax revenue.
15 Someone asks why the percentage was so low in comparison to payments in San Francisco in 1906. It is said that the great majority of settlements were at a level of 70% or more in San Francisco. In Japan, most people including victims generally recognized the exemption clauses were valid, so victims were satisfied with 10% payments.
16 The quotation is from The Selected Diary of Hachisaburo Hirao, Vol. 1, Kyoto, 1990, pp. 49-50. Mr. Hachisaburo Hirao graduated from Tokyo Commercial College, and entered Tokyo Marine. He was executive managing director at that time. After his retirement, he took office as Minister of Education. He responded to Kagami that fire insurers had no responsibility for payments, but that this issue was necessarily a social problem, rather than one of insurance.
“Does the fire insurance policy cover fires and the spread of fires caused by earthquake? For example, houses burnt after they were damaged by earthquake, or by arson started by Koreans? If the insured could prove these fires to be true, the amounts forfeited would be classed as losses from wars and civil disturbance, correct? But will the insured victims insist that their losses are not the result of wars and disturbance but fall under the command for strict watch? We must be ready to face the complicated legal issue of the payment of insurance money.”

As the letter shows, Kagami was worried about the complicated problem of fire claims for damages caused by earthquake. Kagami and Hirao never considered the earthquake exemption clause invalid, but recognized the problem as more challenging than a normal business matter.

To explain why fire insurers were obliged to pay 10% of the victims’ insured sums, despite the validity of the exemption clause, we must understand that the question became a social and political problem. As we have already said, the issue was about to be resolved at the end of 1923 by the Yamamoto Cabinet, when it was suddenly killed off by political strife. The unresolved problem then entered a more serious phase, which saw demonstrations being held by the group of fire claimants.

From the perspective of the fire insurers, we can discern three factors which complicated the issue. The first was the delay in taking initial countermeasures. Second, Kagami was perceived as the only individual competent to undertake complicated negotiations with the government authorities. Third, it was recognized that if claims settlement took longer than expected, fire insurers would lose the business confidence of their customers. We discuss these factors in detail below.

When the earthquake occurred on 1 September, 1923, Kagami was staying at a hotel in Ikaho, a well-known hot springs. Ikaho is about 250 km northwest of Tokyo and was completely undamaged by the earthquake. Kagami, therefore, did not hurry back to Tokyo. In the meantime, businessmen who had sustained losses, and bankers worried about the insured buildings used as collateral for loans, took the initiative in approaching the Government. They forcefully argued that the Government should compel fire insurers to pay claims where damage had been caused by the earthquake. As the Government was initially unaware of the financial difficulties faced by the fire insurers, the Cabinet made the absurd proposal that claims payments should be made based on extralegal action.

If Kagami had returned to Tokyo quickly and explained the financial condition of the fire insurers to high-ranking government officials, the Government may have adopted another policy. The key thing was to let the responsible authorities know about the real financial statement of fire insurers. Hirao wrote to Kagami, “I recommend that each company draw up its balance sheet on 31 August, and present it to the Ministry of Agriculture and Commerce, whereupon the Ministry by itself will suggest the proper plan to fire insurers.” However, the insurers did not always unanimously share Hirao’s opinion.

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17 As for political problem, see In'nami, Insurance, 1966, p. 320.
18 As for social problem, see also In'nami, Insurance, 1966, p. 320.
19 The quotation is from the diary on 29 September, 1923. See The Selected Diary of Hirao Hachisaburo, Vol. 1, 1990, p. 74.
20 Ultimately, the weaker companies were particularly keen to avoid disclosing the amount of losses they had incurred and the exact amount of their assets.
Second, a difficult problem for fire insurers was the fact that the only recognized leader of their industry was Kagami, president of the Great Japan Fire Insurance Association. Kagami had striven hard to establish a tariff agreement among fire insurers. At the same time he had already achieved rapid growth in the fire business for Tokio Marine. Although it was true that he was regarded as competent to negotiate with the Government and to promote coordination among fire insurers, other fire insurance companies did not always abandon their caution in response to any sign of reinforced market control by Tokio Marine.

The financial gap between Tokio Marine and larger fire insurers was one of the key factors in Kagami’s failure to persuade Kansai insurers to agree to the conditions of payment and the Governmental loan. With the exception of some newly established companies, only Tokio Marine could pay 10% of the insured losses. All larger fire insurers, including Kansai companies, were unable to pay such money without a Government loan. It was clear that the settlement would not only weaken the financial standing of most companies, but also widen the financial gap between Tokio Marine and other large fire insurers, and consequently strengthen its control of the market. In short, the different consequences faced by fire insurers hampered the settlement of claims.

Last but not least, we must not overlook the importance of claims settlement for the reestablishment of the fire insurance business. In one incident, a fire insurance representative was shooed away by a client who said that “fire insurance was useless unless the company could pay money.” Especially in the Kanto region, the most important market, settlement was an urgent problem for the reopening of fire business at least for Japanese insurers. Although their payment of only part of the insured losses caused by the earthquake could not be justified, it was natural for fire insurers to think that if they paid some money to the victims as a token of their sympathy, they would regain the business confidence of their clients. It is interesting that the payments were not only pressed by the Government as the result of its failure to understand the technicalities of insurance contracts, but also promoted by insurers intent upon re-establishing business confidence. It is probable that Kagami, when proposing the Government loan and the payment plan as a token of the companies’ sympathy, was hoping for the rebirth of the fire insurance business as well as the relief of heavy losses caused by the earthquake. Right from the start, he proposed a plan involving part payment, instead of arguing for the full implementation of the earthquake clause. This suggests that his primary intention was to retain the business confidence of clients. The three factors noted above may, then, help to suggest the historical lessons for insurers from the great disaster.

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21 See Anbiru, The Collection of True Stories on Insurance Sales, 1932.
22 Kagami was only key person to solve this problem. This is a sharp contrast with San Francisco in 1906, where each exposed insurance company negotiated with its own claimants. It was resulted by different industrial organization between US and Japan. If each insurer negotiated with its own claimants, Tokio Marine only could pay full insurance money to victims without a newly started company. Consequently Tokio Marine would have the overwhelming advantage in Japanese fire market. The other insurers depended upon the balance of terror.
IV. The Impact of the Great Kanto Earthquake on the Industrial Organization of Non-life Insurance

1. The Early Fire Market in Japan, 1888-1900

Japan’s first fire insurance company was Tokyo Fire Insurance, established in 1888, which was the forerunner to Sompo Japan. As the company had financial difficulties right from the start, Yasuda Bank transferred its ownership and increased its capital in 1893, followed by Meiji Fire Insurance. Meiji Fire was established by parties associated with Meiji Life, the first life insurance company in Japan, and strongly supported by the Mitsubishi business group right from the start. In 1893 the Nippon Marine and Transport Insurance was organized by those associated with Nippon Life. The same year, two other insurance companies, the Imperial Marine and the Osaka Insurance, were established. Although the first mover Tokio Marine did not open a fire business until 1914, these challengers engaged in fire as well as marine business. Consequently, competition in the fire business intensified in the 1890s.

2. Attempts to Build a Tariff Agreement, 1900-1917

In response, fire insurers groped for an escape route from severe competition and to make a tariff agreement. The larger insurers established the Fire Insurance Association in May 1907, while the smaller ones united in the Federation of Fire Insurance in June 1907, hence two tariff agreements existed side by side. The dual-tariff system, however, was short-lived, and severe price competition recurred. As a leader of Japan’s fire insurers, Mr. Kingo Hara, managing director of Meiji Fire, worked to establish a tariff agreement among all insurers, including foreign fire companies, and nearly achieved it in 1914, when his efforts finally came to nothing at the final stage of negotiations. After his failure, fire insurers reorganized the Fire Insurance Association and elected Kenkichi Kagami as president in February 1916. In April that year, it was renamed the Great Japan Fire Insurance Association, and commenced efforts to try to draft a tariff agreement to include foreign fire insurers. Finally, the Great Japan Alliance Fire Insurance Association was organized by 18 Japanese insurers and 24 foreign insurers, and a powerful tariff agreement came into existence in February 1917.

3. Tokio Marine’s Expansion of Fire Business, 1914-1924

Tokio Marine was established as a specialist marine insurance company in 1879. When Kagami accepted the presidency of the Great Japan Alliance Fire Insurance Association, he was managing director of Tokio Marine, which had expanded its business into fire in 1914. The company’s fire underwriting was initially very limited, but grew in 1917, and came to have a significant share of the Japanese fire insurance market by 1923.

When Tokio Marine competed with its rival marine insurers, namely Nippon Marine and Transport, Imperial Marine, Nippon Marine in the 1890s, some marine insurers’ business came

24 As for a short history of the fire tariff agreement, see In’nami, *Insurance*, 1966, pp. 303-304.
to a standstill because of the so-called London covers. While Kagami managed to resolve Tokio Marine’s business difficulties in London, the managers of Nippon Marine and Transport failed to reconstruct its London business and the company was wound up in 1901. It was through the superiority of Tokio Marine in the Japanese marine insurance market that Kagami gained a reputation among London insurance businesses and established a good relationship with London reinsurers, which meant that rival marine insurers, Imperial Fire and Nippon Marine, despite strenuous efforts, failed to follow in Tokio Marine’s wake. Consequently, when the company approached a wartime boom in maritime transport, Tokio Marine was almost able to monopolize the huge profits from marine business.

Tables 4, 5 and 6 respectively show the ranking of non-life insurance companies as measured by gross premium income in 1908, 1914 and 1919. In 1908, when Tokio Marine was still a specialist marine insurer, it was followed by Tokyo Fire measured by net premium income. Tokio Marine held top spot in terms of both gross and net insurance income in 1914,
when it decided to expand into fire business. Its significant share of business depended upon the sudden growth of marine insurance in the wartime boom. Even in 1919 when the wartime boom was almost over, the share of Tokio Marine remained significant in that it accounted for 30% of total gross income and 25% of net income respectively. This means that Tokio Marine enjoyed a favorable growth of its fire business based on its sound financial standing, which was achieved, in turn, by its huge profits from marine business.

4. The Effects of the Earthquake on Non-life Insurance Organizations after 1924

Graphs 1 and 2 show the long-term change in gross premium income in all Japan’s non-life insurance companies and in Tokio Marine. Across all insurers, the marine business surpassed that of fire until 1920, but the situation reversed in 1921. In the earthquake year of 1923, fire business became nearly twice as large as marine business. In contrast, fire never surpassed marine business in Tokio Marine.

Tokio Marine not only retained a relatively small portion of the fire business, but also a strong reserve accumulated by huge profits in the marine boom. As a result, Tokio Marine could pay 10% of the insured losses without the Government loan after the question of insurance payments had been settled. It is clear, however, that Tokio Marine was the exception. Almost all fire insurers, except for a few that had recently been founded, were forced to borrow money from the Government at 4% interest. The difference in competitiveness between Tokio Marine and other large companies thus widened increasingly.

Graph 3 shows the change in the percentage of fire and marine business of Tokio Marine relative to all non-life insurance companies from 1908-1940. It shows that the fire business of Tokio Marine grew rapidly in 1917/18, and the market share became 10% as early as in 1918. In contrast, while its marine business peaked at 70% in 1916, its share then gradually declined, partly because of the numerous insurance companies entering the marine business to take part in the marine boom. About 10% of the market in fire business after the Earthquake remained in the hands of Tokio Marine.

While fire business rose temporarily after the Earthquake but soon declined back to 10%,

<table>
<thead>
<tr>
<th>Table 6. Premiums of Top Non-life Insurance Companies, 1919</th>
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<tbody>
<tr>
<td>Premium income</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>1 Tokio Marine</td>
</tr>
<tr>
<td>2 Osaka Marine</td>
</tr>
<tr>
<td>3 Kobe Marine</td>
</tr>
<tr>
<td>4 Yokohama Fire</td>
</tr>
<tr>
<td>5 Tokyo Fire</td>
</tr>
<tr>
<td>6 Nippon Marine</td>
</tr>
<tr>
<td>7 Otaru Trans. Fire</td>
</tr>
<tr>
<td>8 Meiji Fire</td>
</tr>
<tr>
<td>9 Imperial Marine</td>
</tr>
<tr>
<td>10 Nippon Fire</td>
</tr>
<tr>
<td>11 Kyodo Fire</td>
</tr>
<tr>
<td>12 Fuso Marine</td>
</tr>
<tr>
<td>All 25 companies</td>
</tr>
</tbody>
</table>

Source: Hoken Nenkan (The Insurance Yearbook), Ministry of Agriculture and Commerce, 1920
there was definite decline in the marine market over the long term. Focusing on the effect of the Earthquake, the significance of Tokio Marine in the market consistently declined in terms of its share of gross insurance premium income after the year of the Earthquake. Does this mean that Tokio Marine lost its competitiveness and capacity for market control?

As shown by Tables 4 and 5, Tokio Marine had about 30% of the non-life insurance market and overwhelmed other marine and fire insurers before the Earthquake of 1923. We have already seen that the difference between Tokio Marine and other large insurers widened.
after the settlement of claims, hence Tokio Marine does not appear to have lost its competitiveness after the Earthquake.

While Tokio Marine showed a positive intention to increase its market share in fire insurance before the Earthquake of 1923, it abandoned this competition with financially weaker insurers after the Earthquake. As everybody recognized, Tokio Marine had strong financial reserves, and it was natural that it should prefer to seek good risks rather than pursue the all-out expansion of market share. Furthermore, Kagami was leader of the tariff organization whose aim was to protect market discipline. This helps explain why and how Tokio Marine changed its policy. At the same time, it was significant that Kyodo Fire, the powerful leader of the non-tariff insurers, suffered greatly from the Earthquake. Kingo Hara, who was a rival to Kagami, took command of Kyodo Fire, and the company established a good position in the Japanese fire market under his quick decision-making before the Earthquake. The ordinary non-tariff fire companies comprised Kyodo Fire and Taisei Fire, the latter having been established in 1919 in colonial Taiwan, and extended its business to the mainland just before the Earthquake. The other non-tariff companies were three specialist fire insurers for movable property, which suffered heavy losses from the Earthquake claims settlements. Consequently, the cartel in Japanese fire insurance became stronger and more stable than before the Earthquake.

The key impact of the Earthquake on the non-life insurance market was to strengthen the dominance of Tokio Marine, a trend that was of great concern to the Kansai fire insurers, as was the possibility of excessive competition resulting from the breakdown of market discipline,

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25 Non-tariff insurers were not bound by the agreement to make a 10% payment, because they did not belong to the Fire Insurers’ Association. Kyodo Fire and two specialist fire insurers for movable property, however, followed tariff companies and made the 10% payment. The newly-established Taisei Fire and Nippon Movable Property Fire did not follow suit. The latter, especially, paid some money by its own means to the insured victims. See 30 Years History of Taisei Fire, Taisei Fire and Marine Insurance Company, c. 1958, mimeo., and 70 Years History of Fuji Fire, Fuji Fire and Marine Insurance Company, 1989.
although this fear proved unfounded. Tokio Marine, as leader of the tariff association, was able to maintain a powerful hold over market discipline after the Earthquake. Consequently, the Japanese fire market remained stable until the onset of the war economy in 1937.

V. Conclusions: Historical Lessons of the Great Kanto Earthquake for the Insurance Business

The research questions posed by this paper were, first, to clarify the main factors behind the companies' 10% claims payment on insured losses in the context of no legal liability, and, second, to explain how the settlement of the Earthquake fire insurance issue changed the organization of non-life insurance in Japan. The first question was discussed in section 3, and the second in section 4. To conclude this paper, I may summarize four historical lessons from the Earthquake for the insurance business:

First, it is important to note how industry leaders initially respond to disasters. When the Great Kanto earthquake happened, Kagami was staying at a health resort far from the Earthquake zone. It was fortunate for his life, but unfortunate for the fire insurance business, because the initial responses that the industry needed to make were delayed. Kagami finally decided to return to Tokyo after a week's stay. In the meantime, businessmen and bankers who had sustained losses had already insisted on fire claims being paid and aggressively lobbied the Government and politicians. Since the latter were unaware of the actual financial condition of the fire insurance companies, they failed to understand that their views on claims payments were not suited to the real state of the insurance business. To protect the insurance industry, its leaders had had to meet the authorities, and explain their real financial position to them.

Second, the Kanto story provides us with a lesson about the earthquake exemption clause in fire insurance policies. Even if no one had any doubt at the time concerning the validity of the exemption clause, the possibility remained that a policy of paying claims would develop in order to address a complex problem, which, in this case, was what happened. It was natural that, once a disaster like the Kanto Great Earthquake occurred, people would call loudly for an extra-legal relief measure for the victims. Insurance companies, therefore, should not admit any delay for countermeasures to address public opinion, even though the remedy was contractually unfair and payment for losses caused by the Earthquake was, in legal terms, an error. Theoretically speaking, faced with such emergency, insurance companies should recognize not only the market risks but also the so-called political risks. If the fire insurers had each declared that they would pay an amount of money to the insured victims as a gift in token of their sympathy, they would have suffered less damage to their corporate finances than was actually the case. In fact, the payments for insured losses became very serious political and social problems. Fire insurers were obliged to pay quite substantial sums to the victims, and all of them agreed on a uniform measure to address this problem.

Third, it may be wise for fire insurers to pay considerable contributions towards the relief of all victims. Some contemporary newspapers expressed criticism that the payment for insured losses did not benefit the poor but rather the rich. Hirao also expressed the same opinion in his diary. If fire insurers had quickly resolved to pay a contribution to relieve all victims, they would have better fulfilled their social responsibilities. Instead, it is noteworthy that fire insurers were forced to make the payment at the demand of the Government, and following the
demonstrations of the pressure groups supporting the insured victims, as well as being driven by the wish to maintain the business confidence of their customers.

Finally, the structure of industrial organization is a key factor that influences the settlement of post-disaster insurance issues. While Kagami had established the tariff agreement among Japan and foreign fire insurers before the Earthquake, five non-tariff companies led by Hara of Kyodo Fire competed with the tariff insurers. No one denied that Kagami should become a negotiator with the authorities and a coordinator among the fire insurers, but the Kansai companies were concerned about his actions because of the growing share and influence of Tokio Marine in the fire market. Because Kansai insurers hoped that Tokio Marine would fail to gain control over the fire market, they stubbornly refused to accede to a plan for claims settlement via which Kagami aimed to elicit agreement among the Kanto insurers. This was a factor that compounded the settlement problem. The actual outcome suggests that if the tariff companies had collectively resolved the payment problem at the end of 1923, they would have obtained better conditions for the settlement, for example, a loan at a far more favorable interest rate than that with which they were left.

In short, in considering the Great Kanto earthquake as the first and probably the last great disaster of its kind, we should focus on the optimal timing for the proper action, the consideration of countermeasures against so-called political risks, and the differences in intentions between insurers.

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