

# The Research on Recent Fires in East Asia Using Internet News

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Most East Asian countries except Japan and South Korea have not published fire statistics that we can obtain easily, so we cannot know fire incidents that are occurred in East Asia. Therefore, we collected fire news in East Asia by online-newspapers available, and made an original fire statistics. In this research, we clarified the fire trends and the relationship between fire trends and GDP growth in East Asian countries. The fire statistics is made up from 8 countries' information; China, India, Indonesia, Thailand, Malaysia, Philippines, Bangladesh, and Vietnam. Fire statistics in Japan is also used in order to make it clear the relationship between fire and GDP.

In East Asia, It becomes clear that "short-circuit" is the main cause of fire. Especially, more than half number of fire is caused by short in India and Bangladesh. It is also found that the ratio of fire caused by "arson" increases as GDP growth. In Japanese history, the ratio of "arson" fire has been increased with GDP growth, so it is presumed that "arson" fire will be occurred more frequent near the future in most East Asian countries.

Large scale fire spreads that more than 20 buildings were gutted at once, are happened frequently in East Asia. That is because there are many slums, markets, or such kinds of places where density of the buildings is high. Table.1 shows the ratio of fire spread. It is clarified that the ratio of fire spread decreases with GDP growth. However, only in Vietnam, it shows low ratio of fire spread in spite of its GDP.

In Japan, percentage of deaths at once fire has been increased with GDP growth. Besides that, Table.1 shows that ratio of deadly fire is very high in China. So, it may say that the risk of dead in fire becomes higher with economic growth. We suspect that this result is caused by increasing the number of multiple residential buildings, and aging society.

Table.1 Fire Trends in East Asian Countries

	GDP 2010 [billion dollar]	Ratio of Cause of Fire "short-circuit", [%]	Ratio of Cause of Fire "arson", [%]	Ratio of Fire Spread [%]	Ratio of Deadly Fire [%]
China	5878	23.5	17.6	10.3	50.0
India	1632	54.3	4.9	21.0	18.4
Indonesia	707	46.4	7.2	39.8	15.8
Thailand	319	50.0	7.1	26.1	19.6
Malaysia	238	41.7	8.3	36.1	17.0
Philippines	200	32.2	3.4	46.9	19.6
Bangladesh	106	62.4	3.8	60.0	13.2
Vietnam	104	27.8	11.1	18.9	10.8