

Concept of Ergonomic Spectrum

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Forestry conditions are much different among regions and nations. Moreover labor costs, forestry mechanization, and environmental impacts are also different. Those factors influence directly or indirectly Ergonomic State of each nation. We can estimate the Ergonomic State of each nation with Ergonomic factors; labor productivity, work accidents, physiological burden, stress, and so on. If the former factors are defined as income or condition factors, the latter factors can be defined as outcome or result factors. We must examine the value of outcome factors in the relations with income factors.

Each factor is drawn in a band from poor to rich state, and is painted from orange in poor to green in rich. All factors are set a line, and the present state of each nation is indicated in cross-section of the assembly of factors. It looks like a spectrum. With the Ergonomic Spectrum, we can easily recognize where we are now in two-dimensional coordinate of the world standard. Moreover we can receive future advice, for which direction we should improve, in three-dimensional coordinate which includes time axis.