

INTRODUCTIONS ON ENVIRONMENTAL CAPACITY PROBLEMS OF OUTDOOR RECREATION

Kimio Kondoh (National Women's University of NARA)

Summary

Being a landscape planner with human ecology, the writer studies meanings of environmental capacity problems for recreation, and intends to propose a planning considerations on them.

Hints of above consideration depend upon following examples.

Having a lot of importance on human ecology, an area of primitive nature should be preserved for our next generation with limits or prohibitions of human use, including our recreational activity.

Observing natural areas, its space needs hundreds km² to preserve animal lives, and user's number of there should be limited less than hundreds for same purpose; these conclusions and my other researching studies resulted following proposals.

Environmental capacities of various outdoor recreation resort are ranked as follows, depending their natural characters.

Primitive Area, such as Shiretoko in Hokkaido, has its recreational density less than 0.1 person daily per 1 km².

Natural Area, such as Chubu-Sangaku, in Chubu has its recreational density less than 1 person daily per 1 km².

Strict Conservation Area, such as Kumano in Kinki, has its recreational density less than 10 persons daily per 1 km².

Middle Conservation Area, such as Kongo in Osaka, has its recreational density less than 100 persons day per 1 km².

Conservation Area, such as Mino-o in Osaka, has its recreational density 1 to 9 persons daily per 1 ha.

Green Surroundings Area, such as Senri-Hills, has its recreational density 10 to 99 persons daily per 1 ha.

With above research considerations, it is concluded, about environmental capacity of outdoor recreations in natural surroundings, that mass of recreational visitors should be limited less than totals of above each area's environmental capacity of each natural or naturalistic areas, to preserve or to conserve their environmental characters.

This study shows such consideration's results in each chart, and results that such total mass of north region in Osaka prefecture (7 cities and 3 towns) is 64 thousands a day for their desirable recreation in natural surroundings, for an example.