

Trends of respondents' attributes affected to landscape appreciation until 2016 in the journals published in English

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Introduction

Landscape evaluation using psychometrical methods was pioneered by Peterson (1967). Such studies were popularized during 1970-1990's. And recently such research has tended to increase again (Aoki 2014). And the trends of research are now focusing in this research field (Aoki, 1999, Liu and Asami 2002, et al.). The respondents were most important component of the landscape phenomenon (Fig 1). If there are no observers in the environment, the landscape phenomena will not happen and the only nature exists there. So the existence of observer is the beginning of the landscape phenomenon. Various attributes of respondents were used as observers and their affects were examined in the psychological responses of landscapes until 2016.

Observer's attributes and their perception

Here, abilities of perception on Landscape should not be discussed because it widespread in various research field (Aoki and Kitamura 2001). There are two types of attributes of respondents, first was the representative of the social human population, e.g. the national or ethnic, and second intended to represent a personal features. The personals were the innate features, e.g. gender, age and etc., the obtained features, e.g. education, profession, role of society, hobbies and etc., the environments, e.g. living, visiting and etc., and the kind of experiences at the site. Since 1968, discussion of a variety of attributes has been made.

Social human population (Table 1)

As for the representative of social human population (Table 1), the differences were firstly examined among western countries. Then, they focused to the comparison of westerners and easterners. And differences of racial groups were also examined. Recently, the identities of a nation also focused and examined. The details of the trends were follows.

Zube and Pitt (1981) discussed about ethnic (Yugoslavia, West Indies and the United States), Buhyoff et al. (1983) reported the difference among Denmark, the Netherlands, Sweden and the United States, Tips and Savasdisara (1986) represented difference of Asian and Europe, Kaplan and Talbot (1988) reported Black and White, Yang and Kaplan (1990) reported Korean and Westerners, Yu (1995) reported Chinese and USA, Newell (1997) reported USA, Ireland and Senegal.

In a recent study, Beza (2010) reported the taste of mountain tribe of Sherpa and Falk and Balling (2010) investigated the children of Nigeria. Petrova et al. (2015) reported the differences of the tastes on the natural landscape between Russians and Japanese which was the first comparison of the different cultural back grounds formed by the weak communication at their borders.

Personal attributes (Table 2)

As for the personal attributes, the attributes obtained in the respondent's life were examined. And the effects of personal experiences were examined. Then the innate attributes, like as age or sex, were focused and examined. And recently, the effects of environmental or living condition were examined. These conditions were given after the beginning of dwelling in the area. The details of the research trends were follows.

To describe the main stream of personal attribute (Table 2), Lansing and Marans (1968) investigated college people and planners, Winkel (1969) used income and education, Zube (1973) used manager and planner, Peterson (1974) examined manager and users, and Buhyoff et al. (1978) examined the impact of professional experience. Brush (1979) examine effect of ownership, Micia (1979) reported effects of gender, Nieman (1979) effects of behavioral familiarity, Wellman and Buhyoff (1980) effects of regional familiarity, Balling and Falk (1981) effects of age, Aoki (1983) found the difference between old and new residents. Schroeder (1983) reported effects of naturalism, Tips and Savasdisara (1986) effects of religion, Kaplan and Helbert (1987) effects of wild flower lovers organization, Zube (1987) described the presence or absence of experience in the field, Kent (1993) effects of educational background, Scott and Canter (1997) effects of experience at the site, Brush, Chenoweth and Baman (2000) reported effect of profession of agriculture, Lange (2001) found the difference between the amateur and experts. In the recent studies, Adevi and Grahn (2012) reported the influence of topographical condition of habitat (coastal or forest) and Howley, Hynes and Donoghue (2012) found effects of sibling and Bratman (2015) reported the effect of nature experiences. Use of the Internet has increased as a research method because of the convenience to get data from the world. However, the problem of the reliability in their answer is still under study.

Keywords: appreciation of landscape, attributes of respondents, innate/obtained/human group

Table 1 Trends of nationalities used in the study
western : western, eastern : eastern, tribe, nation identity

Year	Name of authors
1977	Ulrich, Roger S.
1981	Zube, E. H. and D. G. Pitt
1983	Buhyoff, G. J., Wellman, D. J., Koch, N. E., Gauthier, L. and Hultman, S.
1986	Tips, W. E. J. and Savasdisara, T.
1986	Kaplan, R. and Janet Frey Talbot
1990	Yang, B. E. and Rachel Kaplan
1991	Talbot, Janet Frey and Rachel Kaplan
1992	Yang, Byoung-E. and Terry J. Brown
1994	Purcell, A. T., R. J. Lamb, E. Mainardi Peron and S. Falchero
1997	Newell, Patricia Bierley
1998	Peron, E., Purcell, A. T., Staats, H., Falchero, S. and Lamb, R. J.
2002	Coakley, J. F.
2006	Tweil, M.S.
2010	Beas, B.S.
2010	Falk, J.H. & Balling, J.D.
2010	Soltes, R., Bolliger, J. & Hunziker, M.
2012	Kurz, T. & Baudains, C.
2014	Tynyninen, L., Uusitalo, M., Silvennoinen, H. & Hasu, E.
2015	Lim, S.S., Innes, J.L. & Meltzer, M.
2015	Petrova, E. et al.

Table 2 Review of respondents' attributes used in the study
attributes obtained, innate attributes, experience

Year	Name of authors
1968	Chid, L. L.
1969	Lanning, John B. and Robert W. Marans
1969	Ward, G. H., Maki, E. and Thiel P.
1973	Zube, E. H.
1974	Peterson, George L.
1974	Zube, E. H.
1978	Buhyoff, G. J., Wellman, J. D., Harvey H. and Piazar, R. A.
1979	Brush, Robert C.
1979	Chenoweth, J.A.
1979	Micia, A.
1980	Wellman, J. D.
1980	Wellman, J. D. and Buhyoff, G. J.
1981	Balling, J. D. and Falk, J. H.
1981	Carp, P. M. and Abraham Carp
1982	Penning-Rosewell, Edmund C.
1983	Aoki, Y.
1983	Lyne, Elizabeth
1983	Schroeder, Herbert W.
1983	Zube, E. H., David G. Pitt and Gary W. Shere
1984	Dearden, Philip
1984	Schroeder, Herbert W.
1985	Harzag, Thomas R.
1985	Schroeder Herbert W. and Thomas L. Green
1986	Brown, T., Tim Keane and Stephen Kaplan
1986	McCool, Stephen F., Robert E. Senoon and Joseph L. Auer
1986	Tips, W. E. J. and Savasdisara, T.
1986	Tips, W. E. J. and Savasdisara, T.
1987	Bennett, Fernando G., Dolores Dolante and Rosa P. Abato
1987	Kaplan, R. and Eugene J. Herbert
1987	Zube, Erich H.
1988	Usher, Randy J. and Richard Schoyer
1990	Hansen, Jens L.
1990	Kent, Richard L.
1990	Coakley, J. F.
1990	Bourcier, Marc W. and Douglas K. Rafter
1990	Lindgreen, Anders
1990	Serje, Angelo and Andrea Molter
1990	Bourcier, Marc W.
1991	Hutchings, J. D. and A. M. Bonfigli
1991	Scott, V. J. and D. V. Canter
1992	Hanson, Dominic
1994	Van den Berg, Agnès S., Charles A. J. Vlek and J. Frederik Oosterlaer
2000	Brush, Robert, Richard E. Chenoweth, Todd Berman, Herbert, Thomas R. and Ronald L. Blair
2000	Whitney, Joanne Ruth
2001	Lange, Eckart
2001	Purcell, Tony, Ermirinda Peron and Rita Bato
2002	Ribe, Robert C.
2002	Schroeder, Herbert W., Timo Puhkila and Liisa Tahvanainen
2003	Tress, Barbel and Gunter Tress
2004	Bullard, William C., Clm M. Anderson, Sarah Tahir Lovell
2005	Wong, K.C. & Dennis, M.
2006	Drumstad, W.E., Sundt, Tork M., Pjellstad, W.J. & Fry, G.A.
2006	Larsen, L. & Harlan, S.
2006	Madsenmangh, H., Engli, E. M., K. Agim, S.D.
2006	Van den Berg, A.E. & Kruse, S.L.
2006	Kearney, A.R., Bradley, G.A., Patrick, C.H., Kaplan, R., Kaplan, S. & Simpson-Cook, D.
2006	Hansen, V. & Chenoweth, R.
2006	Scott, D. & Philip-Costello, P.
2006	Kammon, D. & Hamer, R.
2012	Adevi, A. A. & Frahn, P.
2012	Howley, P. & Hynes, S.
2012	Kent, T. & Baudains, C.
2013	Junglin, J., Rindow, D. A., Ahmed, S. B. & Shetty, S. M.
2013	Qiu, L., Lindberg, S. & Nielsen, A. B.
2014	Chid, G., Marans-Rosewell, V., Figueroa, E. & Castello, J. M.
2014	Phonon, L., Usabali, M., Silvennoinen, H. & Hasu, E.
2015	Bratman, G.H., Daily, G.C., Levy, B.J. & Green, J.D.
2015	Dupont, L., Antip, M. & Van Balbeke
2016	Beaman, I.