

HIKERS AWARENESSS ON THE TRESPASSING IMPACTS AT HUTAN SIMPAN AYER HITAM

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DEDICATION

I would like to dedicate my final year project especially to my parents

Jalaludin Bin Husin and Fatimah Binti Saad, also to my family members and

my friends who are always my main supporters.

I also dedicate this dissertation to the Sultan Idris Shah Forestry Education Center (SISFEC) management team as well as the hiker community of Wawasan trail which helps me throughout the process.

Not to forget, this project dedicated to my supervisor, Dr Azita Binti Zawawi who have excellently supervised me in finishing this project also to all my lecturers and UPM staff for all their support and guidance.



ABSTRACT

Hutan Simpan Ayer Hitam (HSAH) is a forest reserve that should be protected from any form of activities. However, the issue of trespassing for recreation activities had left a major impact on the forest environment such as trampling impact, pollution to the river, and wildlife disturbance (noise). The first objective of this study is to identify the awareness of the Wawasan trail hikers on trespassing impacts at HSAH. The second objective is to know the hikers' understandings on the importance of HSAH as a forest reserve. The overall results indicated that hikers are well aware of the trespassing impacts at HSAH and do understand the importance of HSAH. The irony was the hikers' years of hiking experiences not affecting their awareness of trespassing impacts. People are trespassing into HSAH because its location in the area of high-density population and it is a habit for the regulars to trespass although they are aware.

ABSTRAK

Hutan Simpan Ayer Hitam (HSAH) adalah hutan simpan yang harus dilindungi dari sebarang bentuk kegiatan. Walau bagaimanapun, isu pencerobohan aktiviti rekreasi telah memberi kesan besar kepada persekitaran hutan seperti kesan pijakan kepada tanah, pencemaran sungai, dan gangguan hidupan liar (bunyi bising). Objektif pertama kajian ini adalah untuk mengenal pasti kesedaran tentang pendaki di denai Wawasan terhadap kesan pencerobohan di HSAH. Objektif kedua adalah untuk mengetahui pemahaman pejalan kaki tentang kepentingan HSAH sebagai rizab hutan. Keputusan keseluruhan menunjukkan bahawa para pendaki menyedari tentang kesan pencerobohan di HSAH dan memahami kepentingan HSAH. Ironinya adalah pengalaman pengembaraan pendaki tidak memberi kesan kepada kesedaran mereka terhadap kesan pencerobohan. Orang ramai terus mencerobohi hutan simpan kerana lokasinya berdekatan kawasan berkepadatan tinggi penduduk dan ialah menjadi satu tabiat bagi penceroboh mencerobohi walaupun mereka mempunyai kesedaran.

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APPROVAL SHEET

I certify that this research project report entitled "Hikers Awareness on the Trespassing Impacts at Hutan Simpan Ayer Hitam" by Nurfazira Binti Jalaludin has been examined and approved as partial fulfillment of the requirement for the degree of Bachelor of Parks and Recreation Science in the Faculty of Forestry, Universiti Putra Malaysia.

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LIST OF ABBREVIATIONS

HSAH Hutan Simpan Ayer Hitam

SPSS Statistical Package for Social Science



CHAPTER 1

INTRODUCTION

1.1 Background of The Study

People nowadays doing recreational activities in nature site to have relationships and bonding with the environment. Recreational activities such as trekking in mountains, hills, and forests are trending. Hikers are willing to hike to the summit in order to take the opportunity to see the beauty of the natural scenery, improve their overall health through climbing activities and this satisfying the hikers. The relationships between human and nature provide a great deal to each other. People who were doing recreation activity in a natural setting might improve their health and this gives benefits to those participating in that activity (Godbey, 2009). Moreover, higher positive emotions were experienced by the people in a forest setting which providing further evidence of the beneficial effects of forests on the well-being of people who live in urban areas (Park et al., 2011)

Recognizing the fact of the importance of recreation in a natural setting, Hutan Simpan Ayer Hitam (HSAH) management with full responsibility allowed the public to enjoy doing recreational activities in the designated trail covers 2.8 km length forest reserve which it is located adjacent to human settlements. This legal trail commonly called as Bukit Wawasan or Wawasan trail by the nearby community. This study was conducted in HSAH, Puchong

which is located amid the rapid development of the Klang Valley Selangor. HSAH is the only lowland dipterocarp forest in Puchong that still exist in perfect condition. With an area of 1182.07 hectares, the virgin forest area is under the responsibility of UPM to conduct activities in relation to education, research and development in the field of forestry. Unfortunately, many are not aware that HSAH is not a recreational forest thus many hikers off-limit of Wawasan trail and trespassed into this forest reserve. The trespassing activities itself leads to many impacts towards the environment of the forest reserve.

Generally, this study was aimed to determine the awareness of hikers on trespassing impact at HSAH as well as their understanding on the importance of forest reserve due to the hikers' lacks of a proper understanding on the impact of trespassing to its environment and the other relevant issues arose. Hence, it is a challenge for the management team to do conservation and sustainability development work for the forest reserve. Cooperation and participation from the public are vital in taking care of this forest reserve together since they are the main user of the Wawasan trail.

1.2 Problem Statement

Dean of Faculty of Forestry UPM, Professor. Dr. Mohamed Zakaria Hussin said UPM wanted to make the HSAH a world-renowned educational and research center. Nevertheless, it faces several cases in order to conserve this forest reserve in a sustainable manner and it is alarming the fears that it can affect the role and function of this forest that has been classified as education and research forest (Utusan Online, 2015).

Public trespassing is one of the biggest challenges faced by UPM in managing the HSAH. The enforcement officers are often encountered by the public entering the forest illegally for recreational purposes. According to Mohd, Yaman and Jamaludin (1999) since many surrounding forested areas are shrinking, people are looking into whatever remains of the natural area as their outlet for outdoor recreation. Furthermore, this trespassing frequently happened due to its proximity to population settlements besides people are craving for its splendid natural attractions such as rapids and beautiful waterfalls. The other factors are that this forest is rich in natural resources, especially high-value wood and herbs. Trespassing occurs in HSAH as the public are not aware of the forest reserve status and its important functions.

In fact that the hikers encroached into this forest reserve via Wawasan trail and hiked into the prohibited areas of HSAH without permission especially its waterfall area. The reality also is that many incidents happened in the forest such a lost and missing hiker. Trespasser also was littering and made an open fire which leads to various pollution. These deeds incorrectly passed by the law which was stated in the National Forestry Act 1984 and undermines the HSAH status as a forest reserve as well as declining its quality to serve the ecosystem.

It is clearly stated that trespassing activities contributed to various impact on the forest environment and awareness is needed to save the forest. Therefore, this study was conducted to acknowledge the hikers' awareness and understanding of the trespassing impacts and the importance of forest reserve stated respectively



Figure 1.1: Trespasser at the HSAH Waterfall Area

1.3 Objectives of the Study

The purpose of this study is to identify and understand the hikers' awareness of trespassing impacts in HSAH. The specific objectives are:

- To identify the awareness of the Wawasan trail hikers on trespassing impacts at HSAH.
- ii. To understand the hikers' understandings on the importance of HSAH as a forest reserve.

REFERENCES

Alwin, D.F., & Krosnick, J.A. (1991). The reliability of survey attitude measurement: The influence of question and respondent attributes. *Sociological Methods & Research*, *20*(1): 139-181.

Arlixcya, V.A.E. (2017). The Infiltration Rates on Recreational Trail in Ayer Hitam Forest Reserve (AHFR) Recreation Area At Compartment 14.Unpublished final year project. Malaysia: Universiti Putra Malaysia.

Ballantyne, M., Gudes, O., & Pickering, C.M. (2014). Recreational trails are an important cause of fragmentation in endangered urban forests: A case-study from Australia. *Landscape and Urban Planning*, 130: 112-124.

Burger, J., Gochfeld, M., Jeitner, C., Pittfield, T., & Marchioni, M. (2012). Frequency and rates of outdoor activities, and perceptions of places to perform these activities by Native Americans and Caucasians interviewed in Tennessee. *EcoHealth*, *9*(4): 399-410.

Cole, T.R. (2018). *Investigating The Thru-hiking Experience: A Study On The Pacific Northwest National Scenic Trail*. Master dissertation, United States: University of Montana.

Copeland, J.D. (1998). Recreational access to private lands: liability problems and solutions. National Center for Agricultural Law Research and Information (2nd ed.). United States: University of Arkansas.

Fleming, D.S., Allen, L.R., & Barcelona, R.J. (2011). Back to the future: The potential relationship between leisure and education. *New Directions for Youth Development*, 130: 43-57.

Fulmer, K.A. (1997, December). Parents' decision-making strategies when selecting child care: effects of parental awareness, experience, and education. *In Child and Youth Care Forum*, *26*(6): 391-409.

Godbey, G. (2009). Outdoor recreation, health, and wellness: Understanding and enhancing the relationship. (RFF Discussion Paper No. 09-21). Retrieved from SSRN Website:

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=1408694

Hall, C.M., Ram, Y., & Shoval, N. (2017). *The Routledge international handbook of walking*. United Kingdom, Routledge.

Hazimah, H. (2018). Factors That Influencing Duration Time For Recreation Activities Of Recreationist At Forest Trail Of Ayer Hitam Forest. Unpublished final year project. Malaysia: Universiti Putra Malaysia.

Heimtun, B. (2012). The friend, the loner and the independent traveller: Norwegian midlife single women's social identities when on holiday. *Gender, Place & Culture, 19*(1): 83-101.

Jabatan Perancangan Bandar dan Desa Semenanjung Malaysia. (2010), Garis Panduan Perancangan Pemuliharaan dan Pembangunan KSAS: Hutan Simpan Kekal. Retrieved from http://www.townplan.gov.my.

Jabatan Perhutanan Semenanjung Malaysia (2019), *Pemahaman Mengenai Pindaan Akta Perhutanan Negara 1984 dan Implikasi Perlaksanaannya*. Retrieved from

https://www.forestry.gov.my/index.php/my/pemahaman-pindaan-akta-1984

Jabatan Perhutanan Semenanjung Malaysia. (2019, May 28), *Fakta Hutan*. Retrieved from

http://www.kats.gov.my/ms-my/hutan/Pages/Fakta-Hutan.aspx

Lobb, B. (2006). Trespassing on the tracks: A review of railway pedestrian safety research. *Journal of Safety Research*, *37*(4): 359-365.

Lynn, N.A., & Brown, R.D. (2003). Effects of recreational use impacts on hiking experiences in natural areas. *Landscape and Urban Planning*, *64*(1-2): 77-87.

Magditsch, D., & Moore, P. (2011). Solid waste pollution and the environmental awareness of trekkers in the Annapurna Conservation Area, Nepal. *Himalayan Journal of Development and Democracy*, 6(1): 42-50.

Megan, L. (2016). Legal Issues Associated with Trails: An Introduction. Retrieved from https://headwaterseconomics.org/

Melizarani, T.S. (2016, October 13). Ayer Hitam 'not a recreational forest', *Star Online*. Retrieved from www.thestar.com.my

Mohamad, A.B. (2018). Konsep Hima Dalam Islam dan Hubungannya Dengan Pemeliharaan Alam Sekitar. *Asian Journal of Environment, History and Heritage*, 2(1): 59-65.

Mohamed, S. (1994). Dalihan Pertahanan Persendirian dalam Undang-undang Islam. *Jurnal Syariah*, 2(2): 89.

Mohd, A., Yaman, A. R., & Jamaludin, M.A. (1999). Recreational opportunities for public use in Ayer Hitam Forest: setting the stage and park management approach. *Pertanika Journal of Tropical Agricultural Science*, (22): 161-166.

Osman, L.H., & Aziz, R.S. (2018). Millenial Generation's Awareness Of Halal Supply Chain and Related Food Product in Malaysia. *International Journal of Accounting*, *3*(12): 12-24.

Park, B.J., Furuya, K., Kasetani, T., Takayama, N., Kagawa, T., & Miyazaki, Y. (2011). Relationship between psychological responses and physical environments in forest settings. *Landscape and Urban Planning, 102*(1): 24-32.

Porter-Bolland, L., Ellis, E.A., Guariguata, M.R., Ruiz-Mallén, I., Negrete-Yankelevich, S., & Reyes-García, V. (2012). Community managed forests and forest protected areas: An assessment of their conservation effectiveness across the tropics. *Forest Ecology and Management*, 268: 6-17.

Rooney, P.M., Mesch, D.J., Chin, W., & Steinberg, K.S. (2005). The effects of race, gender, and survey methodologies on giving in the US. *Economics Letters*, *86*(2): 173-180.

Sarmah, H.K., & Hazarika, B.B. (2012). Importance of the size of Sample and its determination in the context of data related to the schools of greater Guwahati. Unpublished Doctoral dissertation. India: Guwahati University.

Schmidt, K. (2002). The problem with awareness': Introductory remarks on awareness in CSCW'. *Computer Supported Cooperative Work* (CSCW), 11(3-4): 285-298.

Silla, A., & Luoma, J. (2009). Trespassing on Finnish railways: Identification of problem sites and characteristics of trespassing behaviour. *European Transport Research Review*, 1(1): 47-53.

Smith, G. (2008). Does gender influence online survey participation?: A record-linkage analysis of university faculty online survey response behavior. Retrieved from

https://scholarworks.sjsu.edu/cgi/viewcontent.cgi?article=1003&context=ele mentary_ed_pub

Utusan Online. (2015, May 4). Hutan Simpan Ayer Hitam Unik. Retrieved from http://www.utusan.com.my

Wei, T.K. (2012, May 28). Hikers seek permission group wants to continue using Ayer Hitam Forest Reserve Trail. *The Star*, p. 2.

Yamane, T. (1967). *Statistics: An Introductory Analysis:* (2nd ed.). New York: Harper and Row.

Young, S.J., Ross, C.M., & Barcelona, R.J. (2003). Perceived constraints by college students to participation in campus recreational sports programs. *Recreational Sports Journal*, 27(2): 47-62.