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The Ecotorism Study of the Ecotorism of Lavasanat Meygoon and Fasham Region

Nouri, J.

School of Public Health and Instilut of Public Health Research, Tehran University of Medical Sciences.

Khosravifard, S.

College of the Environment, Islamic Azad University.

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Abstract

Study of the ecological status and evaluation of the ecological competence of Lavasanat region, with reiteration upon Meygoon and Fasham regions, as tourist attractions and a location for Tehranian Citizen people to the regions vicinity and existence of natural attractions, took place in the year 2001.

Different study phases, including identification of physical and environmental resources, integration of the data, coding of ecological units and, finally evaluation of the environment competence, with the application of slope, direction, altitude, land formation, pedological, vegetation types, vegetation coverage density percentage and climate maps, with the scales of 1:100,000 took place. At the identification stage, physical sources of climatic parameters, water resources, land formation and pedology were considered, while completing an additional study of environmental flora resources. Integration and summing up of data, were in fact the

main and at the same time, the most complicated ecological competence assessment in this study. The basis of this method was mainly, combination of the related data and information of the physical and environmental resources, which specified the regulated and disciplined groups of data summing up groups.

These determined groups are, in fact. The ecological units, which have been compared with the well developed tourism model in lavasanat, Meygoon and Fasham region. In this comparison, the competence of each of the ecological units of the said region, specified for application of the well developed tourism model, in separate classifications of appropriate, average and / or inappropriate competences.

The result of the study, shows that in the investigated region, from a total of 342 ecological units, there were 71 units Proportionate to the first class well-developed tourism and 183 units, in proportion to the second calss well-developed tourism. Therefore, 88 ecological units were not compatible with the well-developed tourism model, and were located as Class third.

Field studies showed that steep slopes, vulnerability and sensitivity of soil in regard to erosion, has caused restrictions upon promotion of well-developed tourism model.

Introduction

Assessment of environmental competence, such as ecological, economic and social competences, are equivalent to human potential exploitation of land for agriculture, range management, forestry, park mainterance, cultivation of aquatics, tourism, urban, rural and industrial developments, which take place under the framework of agricultural, industrial, servicing and commercial activities (5). Mean while, in comparison to the other economic activities, tourism is further compatible with the environment, and if its implemented under the framework of an appropriate policy and well-known regulations, preservation of living environment would be possible (4,8). Nature tourism, which is know as ecotourism, is a relatively new phenomenon, which only covers a part of tourism industry. Its referred to that kind of tourism, which is based upon a goal oriented trip. Aims of these trips can include

studying, entertainment, morel oriented exploitation of views, plants, animals, and another contemporary past cultural aspects in the region (2). Touring in nature or well developed tourism need minimum facilities and its generally coordinated with ecotourism goals, are some applications. Which must be ecologically assessed for promotion. Note that evalvation of ecological compectence, is a process which provides a promotion processes, deserved by and coordinated with the naure (3,7). Lavasanat, Meygoon and Fasham Nat region is located in Shemiranat, which provides numerous luring potentials, being a tourist attraction spot. On one hand, the acute and abnormal living environment of Tehran, growth of population and intensifying environmental pollutants, have made this city's environment, impossible for their residents. Hence, the resident to tourist oriented countryside's and lavasanat Meygoon and Fasham region, enjoys this potential status. The studied region, is located in Eastern longitude of 51°, 25' to 51°, 50' and northern latitude of 36°, 5' to 35°, 45'. It is a mountaneous region, and in accordance to classificationIts not considered as a cold climate. Other regional important rivers include: Ahar, garmabdar, Afjeh, Emameh and lavarak rivers (1,9). The tourism attraction sites of the region are manialy, divided into 3 natural, atheletic and touring attractions and historical and religions attraction sites (Table 1) (6).

Table 1: Tourist attraction sites of studied Lavasanat, Meygoon and Fasham region (5)

Loupet	ne for premi	Natural	attraction	n Wlode).	Atheletic & tourism	Religious &
Region	Cavas	Rivers	Water falss	Other attraction sites	attraction	historical attraction
Meygon &	Hamlon	of this clue	e main sage	tr bns betsoi	Darbandsar &	Zahed & taher
fasham	Keyghobad Chah zangir	Jajrood Ahar Ab- meygon Garmabdar	Shekarab Oshan	Khatoon bargah mount	Shemshak ski pistes Mountaineering Fishing	shirin Nahid fire temple Anis-doleh & king Kmozafa palace
Lavasanat	Khamireh	Jajrood Afjeh Lavarak Emameh	Benaj	Latian dom lake natural fridge atosh mount	Mountaineering Fishing	Seyed- mirsalim cham kaleh – ghandi hill zahak castle

The aim of this research, is to identify the ecological competence of Lavasanat, Meygoon and Fasham regions, so it would be specified whether the region is appropriate for Tourism?

And/or whether the ecological competence of the region, fulfils the needs of well-developed tourism model or not? So that by this means, the reginal ecological competence for tourism, specially its promotion, shall be determined.

Material and Methods:

In the study of regional ecological competence, the method of maps over lapping was the basis of the methodology: Completed throughout 4 phases:

A- Identification of Resources:

The essential sources for assessment of th ecological capetence; included physical and biological sources. Climate, water resources, and Plots of Land full of physical resources and vegetation coverage and will-life; of the regional biological sources; where studied previously. A wareness of the slope, direction, and altitude, which in total, amount to the lond formation, as well as the vegetation types, density percentage where needed for execution of this study. Hence, they were identified, hereby, camplementing and completing previus executed studies.

B- Integration and classification of Data:

This phase, is the most complicated and the main stage of this clue atudy. For assessment of their ecological competence. Combination of the data and in formation relating to the ecological resources of Lavasanat, Meygoon and Fasham redion has been the basis of this methodology. All of this stages, regular specified data groups were summed up in determined classification. These classifications were in fact, the same ecological units, resulting from the combination of maps. In order to specify the ecological units following steps were campleted:

1- Aplication of a topographical map for prepation of maps of slopes, directions and altitude of the region.

2- Overlapping of region slope and altitude as well as preparation of preliminary Land formation units.

- 3- Overlapping of preliminary units map and the geographical direction of the region, in addition to preparation of the land formation units maps.
- 4- Overlapping of land formation units and land resources maps of the region, as well as the preparation of a first (level) class ecological map of the region.
- 5- Overlapping of the first class ecological units and vegetation types maps of the region and preparation of second class regional ecological units map.
- 6- Overlapping of second class ecological units map & vegetation coverage density percentage of the region, as well as, preparation of regional ecological units map.

C- Coding of Ecological Units:

Coding were executed in order to identify the ecological units.

Yhis practice was fullfilled from the 1.st stage of overlapping of maps, simultaneously.

This coding, finally, led to the regulation of ecological units, during which, each unit was specified with a particular code.

D- Evalation of the Regional Ecological:

Competenc for promotion of out door recreation Model.

By comparison of the chareatristice of the regional ecological units, with the presented well-Developed Tourism model. For this regional, the regional ecological Competence for paramootion of well-developed Tourism model, was clarified.

Results

In order to study the ecological status of lavasanat region, via application of a topographical map, prepared at a scale of 1:100000, by the geographical organization, solpe, Altitude & geographical direction maps of the region, were extracted. Charts 1 and 2, manifest the relationship of the percentage of slope atages, and levels, as well as the regional altitudinal levels, percentile, over total area of the region. By application of the dual – combinating

Methodology slope and altitude maps were combined together, and, the preliminary map of the land formation units map with the geographical direction map of lavasanat, Meygoon and Fasham region; the map of land formation units resulted (map 1). Charactritics f land formation units resulted (map 1). Charactritics of land formation units aer stated in table 2, which manifests the slope, altitude and geographical direction of each land formation units.

By application of dual – combination methodology, the land formation units map and land resources map were combined; and the 1.st class ecological units map of lavasanat, Meygoon and Fasham Region resulted.

In the same manner, by combining the map of 1,st class ecological units with the regional Vegetation cover mao; and class ecological units map of lavasanat resulted Similary; by combination of the latter map with the vegetation coverage percentage map; Lavasanat, Meygoon and Fasham regional ecological units map resulted (map2). With in the lavasanat regional ecological units were attained; which dual to the vastness of these units; Table 3, only, manifests the specification of Meygon and Fasham region ecological units. This table por trays the altitude, sloppe direction, plots of vegetation coverage Density in each of the regional units. The final coloumn of table 3, manifest. The wall-developed tourism competence in two region of Fasham and meygon. Obviously, this (competence) has resulted from comparison has resulted from comparison of the studied region s well developed Tourism Model with the ecological units Specifications.

Table 2: Land Formation Unit in Lavasanat, Meygoon and Fasham Regions

CODE	Altitude level	Slope Level	Direction Lever
16	2	1	1
19	2	1	4
20	2	1	5
21 8	2 8	2	12
22	2 2	2	2
24	2	2	4
25	2	2	5
26	2	3	10
27	2	3	2
28	2	3	3
29	2	3	4
30	2	3 8	5
31	3	12	17
34	3 8	1 8	4
35	3	1 0	5
37	3	2	2
38	3	2	3
39	3	2 0	4
40	3 8	2	5
41	3 8	3	18
42	3 &	3	2
43	3 8	3	3
44	3	3	4
45	3	3	5
49	4 =	17	4
50	4 -	1	5
52	4	2	2
53	4	2	3
54	4	2	4

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Table 2(continued): Land Formation Unit in Lavasanat, Meygoon and Fasham Regions

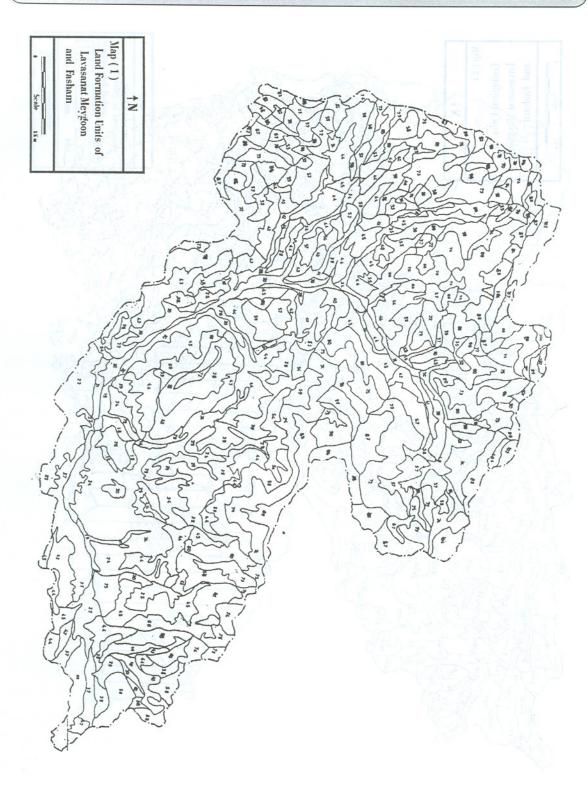
CODE	Altitude	Slope	Direction Lever
55	4	2	3
56	4	3	1 0
57	4	3	2
58	4	3	3
59	4	3	4
60	4	3	5
64	5	1 5	4 85
67	5	2	2 00
68	5	2	3
70	5	2	5
72	5 8	3	2 00
73	5	3 \$	3 08
74	5	3	4
75	5	3	5 16
82	6	2	2
83	6	2	3
84	6	2	4 86
85	6	2	5
87	6	3	2
88	6	3 8	3
89	6	3 8	4
90	6	3	5
98	7	2	2
99	7 8	2	4
102	7	3	2
104	7	3	408
2	2	4	52

Table 3: Charactristics of Meygoon and Fasham Regional Ecologocal Unite and their Capasity for Outdoor Recreation Model Materialization

Average	Appropriate	Appropriate	r		Viduo.	Average		,		Appropriate	Average	Appropriate	Average	Capasity of outdoor recreation
Ahar	Abar	Ab-Meygoon	Ahar	Jadjrood	Ahar	Ghochak	Ab-Meygoon	Garmabdar	Jadjrood	Jadjrood	Ab-Meygoon	Ab-Meygoen	Ab-Meygoon	River's Minor
	Extremely Cold Humid	,		Cold Highly Hamid (A)	Extremely Cold Humid	Cold Semi- humid	Cold Highly Humid (A)		Extremely Cold Humid	Extremely Cold Humid			Cold Highly Humid (A)	Climate
Garden & Agriculture %/20-30)	Br.As.Co.on % (20-30)	Fe.As.Co.on 96(30-40)	Fe.As.Co.on %(30-40)	94(20-30)	Fe.As.Co.on 96(20-30)	Ar.ch.No.La % (20-30)	Fe.As.Co.on %(20-30)	% (20-30)	Ar.Ch.No.La % (20-30)	Agriculture % (30-40)	Agriculture %(20-30)	\$LA4.5aAg \$4(30-40)	%(30-40)	Percentage of Density *
madical but agone of the rest	High & bumpy Alborz Mountains with igneous stones Type soil: Regueelt and Lithecell				Type of soil: Regucell and Lithocell	Covered with Hard (and at time (gneous stones) Limestone ,Low depth soil, profound and Semi- deep soil.	High and Rough Alberz Mountains, are Mainly	Appropriate facilities and the second of the	This will please being		to general to antique	covered with hard limestone soil coverage og	High A bureau Albert Mannatis are maish-	Land Components
Nourth	South	West	West	West	South	South	West.	West	South	South	West	West	West	Geographi- cal direction
30-65	8.30	8-30	30-65	30.65	30-63	30-65	8-30	8-30	8-0	0-8	30-65	30-65	30-65	(%)
2000-2400	2000-2400	2000-2400	2000-2400	2000-2400	2000-2400	2000-2400	2000-2400	2000-2400	2000-2400	2000-2400	2000-2400	1600-2000	1600-2000	Altitude of Sea Level(m.) (Min. Max)
41c01	39:41	358511	456511	45bSI	446511	44531	40651	40611	346011	345011	45601	308511	30a5II	Unit code

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		and their	r Capasity	and their Capasity for Outdoor Recreation Model Materialization	faterializatio	п		
Capasity of outdoor recreation	River's Minor	Climate	Flora & Percentage of Density *	Land Components	Geographi- cal direction	Slope (%)	Altitude of Sea Level(m.) (Min. Max)	Unit code
	Abar	Extremely Cold Highly Humid (A)	Garden & Agriculture %/20-30)		South	30-65	2000-2400	44c0[]
Appropriate	Ahar	9	Fe.As.Co.on % (30-40)		South	>65	2000-2400	44c5II
	Jadjrood	Extremely Cold	Fe.As.Co.on % (20-30)	A Green (The Sough St. Wayne)	West	>65	2000-2400	45651
	Garnabdur	Extremely Cold Highly Humid (A)	Ar.Ch.No.La % (20-30)	A THE RESIDENCE OF THE PARTY OF	South	>65	2000-2400	44401
Average	Jadjreod	1	Pe.As.Co.on %(20-30)	High and bumpy Alborz Meuntains, highly	West	30-65	2000-2400	45451
Appropriate	Garmabar	Extremely Cold Humid	Fe.As.Co.en % (39-40)	variable Soil Coverage Type of Soil: Regucell lithocell	West	>65	2000-2400	45d5III
Average	Jadjrood		Fe.As.Co.on %(30-40)		West	30-65	2400-2800	66d5II
Average	Jadjrood		Fe. As. Co. on %(30-40)		West	>65	2400-2800	60d5111
Average	Jadjrood		Ar,Ch.no,La % (20-30)		West	30-65	1600-2000	HON
Average	Jadjreod		Ar.Ch.no.La % (20-30)	High and Rough Albord Mountains are mainly	Nourth	30-65	2000-2400	42e31
	Jadjrood		Ar.Ch.no.La % (20-30)	covered introsone rightly variable soil coverage	West	30-65	200-2400	45c)]
Appropriate	Ab-Meygoon		Fe.As.Co.on %(30-40)	High Albord Manuscian with immonstrate	West	0-8	2400-2800	50g511
,	Ab-Meygoon	Extremely Cold Highly Humid (A)	Fc.As.Co.on %(30-40)	without soil coverage	West	8-30	2400-2800	35g3II



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Discussion and Conclusion:

In order to assess the ecological competence of Lavasanat, Meygoon and Fasham to the wall developed tourism model. From the total attained 342 ecological units, 71 units were in proportion to the first class well developed tourism model; which covered 20.76% of the studied regional area.

Also, 183 units, which were recognized to be in proportion to the Second class well – developed tourism model, covered %53.5 of the said regional area, with 88 other units, incompetent of promoting tourism, covering %25.73 of the total regional area, is a significantly sensitive one.

This study proved that the most important limiting factor, in regard to the promotion of well developed tourism model in Lavasanat, Meygoon and Fasham region, was the slope rating and gradient, with the second important limiting factor, being the ingredients and the type of main stones in the said region. Note that weather conditions and the climate can be considered as limiting factors, since, in the majority of the studied regions ecological units, there were accessible water resources, with each of the units, being located in minor marine domain. Also, the climatic conditions of the regional well developed tourism model, and climatic conditions can not be considered as a determing limiting factor in regard to the well- developed tourism model materialization. However, if the slope gradient was located in the appropriate, or, average class as of regional promotion of tourism, the other parameter of Lavasanat ecological units, being the main stone type, was compared to the well developed Tourism Model. On this basis, the units appropriate for well developed tourism were specified to, firstly, possess slapegradients of 0° to 30°, with, secondly, main stone types being sand limestone and lower stones. These conditions, in fact, lead to minimum erosion rate of soil (toward promotion of tourism), therefore establishing the needed access routes to the tourist attraction sitesr. Lavasanat awerage ecological units, manifested %30 to % 65 slopes, with clay limestone as their major stone types. The ecological units with slopes Further than %65, and loose slit and marni stones, as major stone types, were considered as inappropriate for promotion of well developed tourism model, because in such circumstances, leaded to intense soil erosion, in the region, in regard to constructing of access routes. Note that has to be done inside these region.

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