



Exploring the Possibility of Urban Agriculture Farn

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Abstract. In this paper we used WPM method; it is a unique combination of weight sum model and weight product model. Due to its mathematical simplicity and ability to deliver more Compared with WSM and WPM Accurate results. As an effective decision-making tool Now widely accepted methods. In decision-making theory, Weighted Sum Model (WSM), Weighted Linear Combination (WLC) or Also known as Simple Admission Waiting (SAW) is used to evaluate multiple alternatives based on a list of weighted objectives (WOT) criteria used to rank different alternatives. Weighted linear composition is an analytical method used when making multiple attribute decisions (MADM) or considering multiple attributes. The weighted average is the average type calculated by multiplying the weight (or probability) associated with a particular event or effect by its relative magnitude effect. The WPM methods is the most ideal solution Short-distance and negative-best the solution with the longest distance from the solution Determines, but the comparison of these distances Does not consider importance. From the result it is seen that Salem is got the first rank whereas is the Madurai is having the lowest rank.

Keywords: Urban Agriculture, Weighted product model.

1. Introduction

urban agriculture is Growing plants and trees and Briefly defined as raising livestock within or within cities (Urban and suburban agriculture respectively), including related input distribution, processing and marketing activities and services. Urban agriculture is the production of food and other goods within the geographical boundaries of a metropolitan area. Loosely defined as distribution and marketing. Community: Urban agriculture adds and preserves greenery in cities, Provides places for neighbors to unite, Strengthens bonds and builds social cohesion. Urban agriculture connects people to the earth and the source of their food. Urban agriculture generally uses intensive production methods, frequent use of natural resources and urban waste And reuses, contributes to food security, health, livelihoods and the environment. The wide variety of land, water and aquatic animals and plants. Individual, family and community. Urban agriculture includes non-food products such as animal husbandry, beekeeping, aquaculture, aquaculture and seed production, seedling cultivation and flower growing. Weight Sum Model (WSM) and unique combination. Weighted Product Model (WPM). The weighed scoring model generates value-added numerical value for potential projects unique to the group. By carefully selecting your criteria and weighing them based on importance, you can create a score that will help you compare projects.

2. Urban Agriculture

Urban Agriculture (UA) is a manufacturer; Food, plant and Animal Processor and Marketer based medicines, fiber and fuel, spread across urban and suburban areas, and generally use intensive production methods. Although Urban agriculture developed and Is in practice in developing economies, It often serves different purposes, e.g. Previous Entertainment and Food Security. We derive From the literature of developed economies Most of our analyzes. Urban agriculture is present In climate change adaptation solutions Considered together, Because it is also about Greening the city and Improving the urban climate Plays a significant role, At the same time it stimulates the reuse of urban organic waste production and Urban energy reduces the barrier. Urban agriculture is the production of food on land, Processing and marketing water spread across urban and suburban areas according To the daily needs of consumers in the city or metropolitan area Large scale implementation of urban food production Agriculture and other urban agriculture Can shrink agricultural lands and provide new land opportunities. Scientific basis for urban agriculture Developing an attitude Economic and Essential for environmental sustainability. Term though "urban agriculture" is relatively new, Urban food production systems in the United States and elsewhere Have a long history, This is new food for cities around the world, Contributes to jobs and green spaces. Farmers near Dar es Salaam, Tanzania. Many urban farming partners have accumulated dangerous levels of PP from the soil Concerned about the dangers of consuming the substance. Due to the changed climatic and microclimate conditions in urban ecosystems, Nearby urban agriculture Different from agriculture in rural areas. Urban agriculture can be revived as a response (for more information, brief report on the emergence of urban agriculture in Jakarta. This report may be reinforced. Like the countries, To the economic crisis prevailing in the respective countries The role of the farm shop acting as a consultant ensures the survival of urban agriculture. Shops are located in urban areas and seeds, Organic fertilizers, organic pesticides, forks and Sell many. Included in the policy and plan, The UPA program also includes food security, poverty alleviation and more in many urban districts Aimed at improving the social integration of the urban poor. Not only is urban agriculture linked to rapid urbanization, it also contributes to the establishment of a high quality of life associated with

agricultural-based forms of entertainment for urban citizens. Urban agriculture is mainly about providing fresh food including meat and eggs.

3. Weighted Product Model

In MADM problem solving methods the weighing preparation method is one. This method is characteristic or For a set of criteria Evaluates multiple alternatives, Each of them will be independent of the other. Teach weight product preparation method attribute Uses multiplication techniques evaluation, The evaluation of each of these attributes should be presented by the corresponding attribute weights. In the proposed Routing plan, Results solve the problem This method is used. Instead of addition, This method uses multiplication to sort the alternatives. Each one conversion is multiplied by several ratios to compare with one another, one for each criterion. Each ratio is of the corresponding magnitude Is raised to a force equal to the relative weight. Weighted production method Similar to the sum of weights. The main difference is, This model has multiplication instead of addition. Like the SAW method, WPM method more in MCDM Is one of the most widely used methods. This method is better than other methods Would be very useful for the problem as the calculation time is less. WPM is simple and easy to use in very subjective situations. WPM Optimal route selection, Evaluating Web Functions, Selection of Production and Project Manager Used in many areas such as.

TABLE 1. Data set for urban agriculture

	supply	socioeconomic	vulnerable members empowerment	training and culturizing	environmental
Tirunelveli	33.63	33.21	66.36	54.31	22.05
Tenkasi	45.36	42.36	65.35	33.69	27.30
Madurai	57.36	22.45	55.48	29.18	23.10
Chennai	65.41	28.89	49.36	38.12	17.59
Salem	45.36	45.36	57.49	45.23	18.89
Vilupuram	55.12	27.36	48.25	56.43	33.63
Vellore	66.32	38.42	52.78	52.36	32.24
Karur	54.12	39.28	60.25	51.24	37.15

This table shows that the dataset value of supply, socioeconomic, vulnerable members empowerment Training and cauterizing, environmental. alternetivies Thirunelveli, tenkasi, Madurai, Chennai, Salem, Villupuraan, Vellore, karur and supply, socioeconomic, vulnerable members empowerment, training and cauterizing, environmental there are Implication parameter.

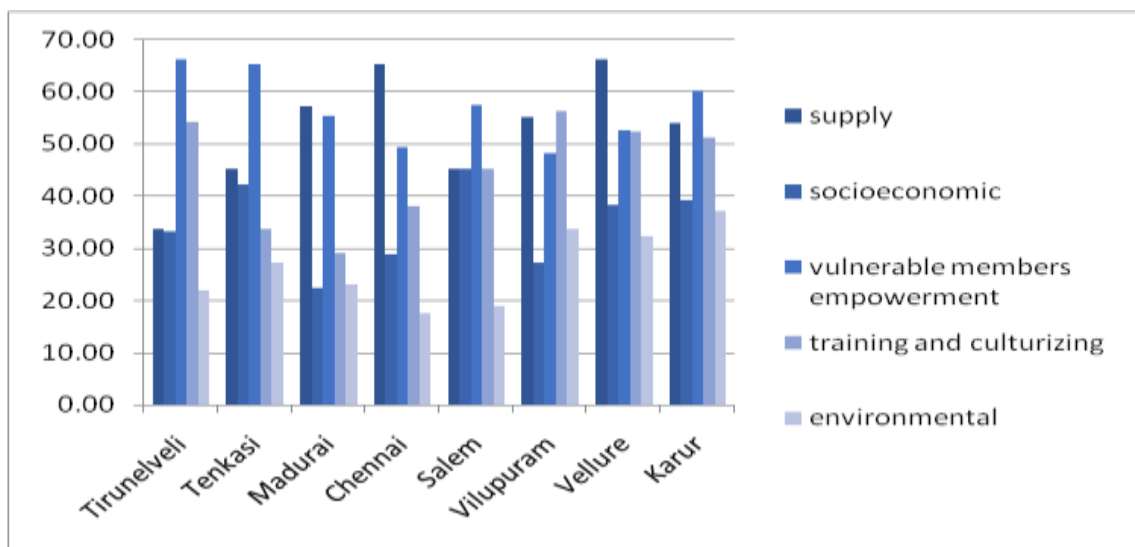


FIGURE 1. Data set for urban agriculture using WPM Method

This figure shows that the value of urban agriculture for supply, socioeconomic, vulnerable members' empowerment .In blow places. Thirunelveli, tenkasi, Madurai, Chennai, Salem, Villupuraan, Vellore, Karur.

TABLE 2. Performance value for urban agriculture

	supply	socioeconomic	vulnerable members empowerment	training and cauterizing	environmental
Tirunelveli	0.50709	0.73214	1.00000	0.96243	0.79773
Tenkasi	0.68396	0.93386	0.98473	0.59702	0.64432
Madurai	0.86490	0.49493	0.83605	0.51710	0.76147
Chennai	0.98628	0.63690	0.74382	0.67553	1.00000
Salem	0.68396	1.00000	0.86634	0.80152	0.93118
Vilupuram	0.83112	0.60317	0.72709	1.00000	0.52304
Vellore	1.00000	0.84700	0.79536	0.92788	0.54560
Karur	0.81604	0.86596	0.90793	0.90803	0.47349

In this table the performance value for urban agriculture is calculated using a weighted product model.

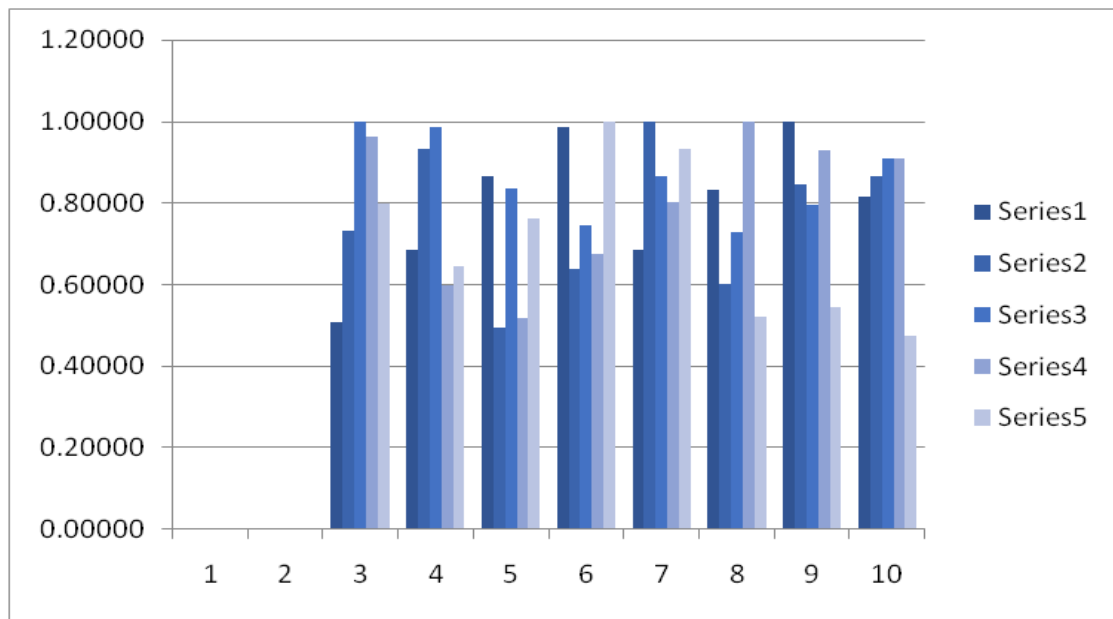


FIGURE 2. Performance value for urban agriculture

Figure 2 shows the performance value for urban agriculture using the weight production method.

TABLE 3. Weighted normalized decision matrix

	supply	socioeconomic	vulnerable members empowerment	training and cauterizing	environmental
Tirunelveli	0.84386	0.92502	1.00000	0.99047	0.94507
Tenkasi	0.90940	0.98304	0.99616	0.87902	0.89593
Madurai	0.96436	0.83876	0.95622	0.84800	0.93414
Chennai	0.99655	0.89334	0.92868	0.90659	1.00000
Salem	0.90940	1.00000	0.96476	0.94619	0.98233
Vilupuram	0.95481	0.88127	0.92342	1.00000	0.85042
Vellore	1.00000	0.95934	0.94437	0.98146	0.85944
Karur	0.95045	0.96466	0.97614	0.97617	0.82952

This table calculated the weighted normalized matrix from the performance value and weight.

TABLE 4. Preference Score and rank in urban agriculture

	Preference Score	Rank
Tirunelveli	0.730678443	4
Tenkasi	0.70134421	6
Madurai	0.612691385	8
Chennai	0.749542798	3
Salem	0.815485456	1
Vilupuram	0.660783839	7
Vellure	0.764191019	2
Karur	0.724714778	5

This table shows the value of preference score and rank for urban agriculture from dataset . for supply, socioeconomic , vulnerable members empowerment.

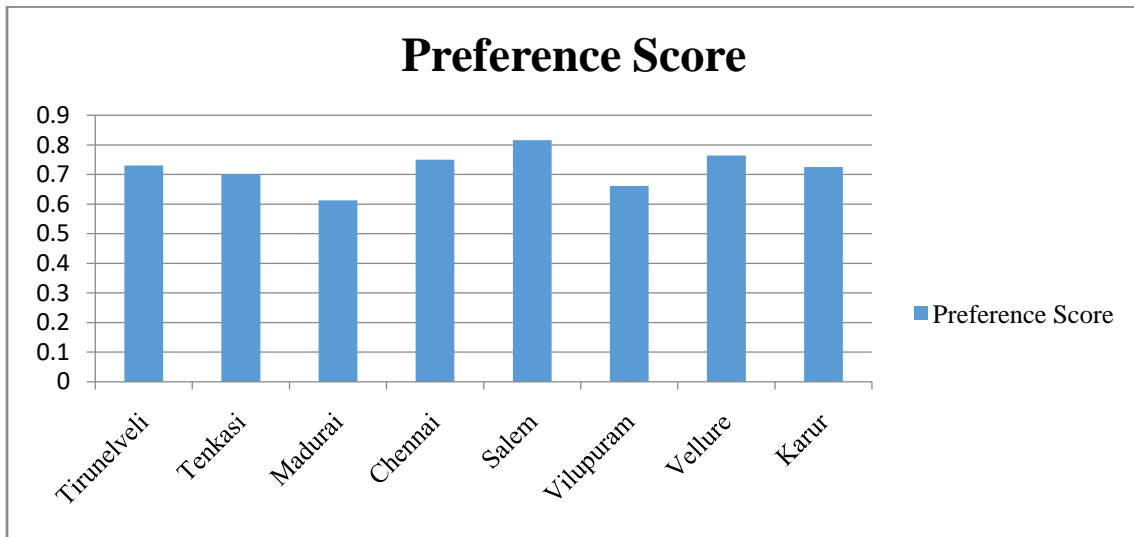


FIGURE 4. Preference Score urban agriculture

This figure shows that value of preference score for urban agriculture from dataset for supply, socioeconomic, vulnerable members empowerment .This figure said that Madurai is high preference score of all.

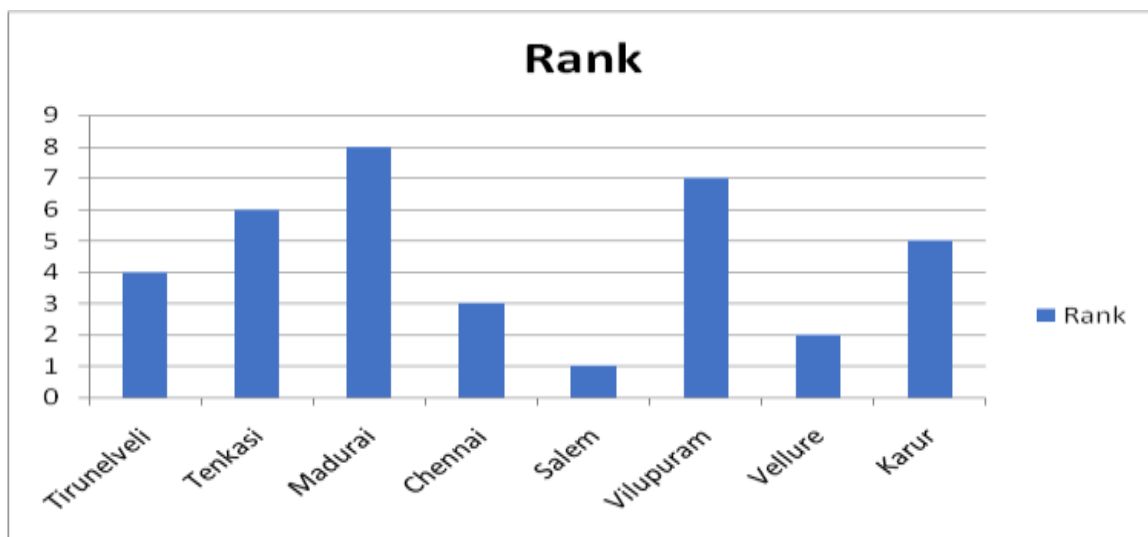


FIGURE 5. Rank for urban agriculture

Figure 5 Shows Ranking of urban agriculture for supply, socioeconomic, vulnerable members’ empowerment. Salem is got the first rank whereas is the Madurai is having the Lowest rank.

4. Conclusion

Urban agriculture is about plants and Briefly defined as raising trees and raising livestock or within cities (Urban and, respectively Suburban agriculture), Related input distribution, processing and Including marketing activities and services. urban agriculture is Food within the geographical boundaries of a metropolitan area Manufacture of and other products, Loosely defined as distribution and marketing. Social: Urban agriculture adds and preserves the green space in cities, providing space for neighbors to unite, strengthen ties and build social cohesion. MADM is one of the problem solving methods of the weighted production method. This method is characteristic or For a set of criteria Evaluates multiple alternatives, Each of these properties is independent of the other. Weighted product method Uses multiplication techniques to teach attribute evaluation, where the evaluation of each attribute must be preceded by the associated attribute weights. In the proposed routing scheme, this method is used to solve the decision problem. In addition, urban agriculture is currently considered one of the solutions to adapt to climate change to deploy alternatives using this method of multiplication because it can play a significant role in greening the city and improving the urban climate, while at the same time stimulating the reuse of productive organic matter. Reducing waste and urban energy tracking. Urban agriculture is the production, processing and marketing of food on land and water spread across urban and suburban areas according In the city or metropolitan area For the daily needs of consumers. Urban food production large scale implementation Agriculture and other types of urban agriculture can shrink agricultural lands and provide new natural opportunities. WPM is based on the overall function of representing the "closeness to the ideal" created by the compromise programming system. From the result it is seen that Salem is got the first rank whereas is the Madurai is having the lowest rank

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