

VII. CONCLUSION

A basic idea about dew harvesting in the mid heights of the west bank of Palestine was taken. It was found that with humidity over 40% and ambient temperature below 19°C, there is a possibility to harvest dew from the galvanized iron roofs especially for agricultural halls and firms which are widely spread in Palestine. Large amounts could be collected in humid nights that could decrease the difficulty of getting potable water for agricultural and home uses in the rural areas. Part of Palestine which is the western costal region which is very humid is prepared for more dew collection. In general the geographical location of Palestine in the middle-East made it a suitable location for the dew harvesting.

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REFERENCES

- [1] <http://www.pwa.ps/english.aspx> (Retrieved 10/6/2015)
- [2] <http://www.pmd.ps/englishIndexPage.do> (Retrieved 11/6/2015)
- [3] Milimouk I, Beysons D. Looking for air fountains. eBook Sofia-Antipolis 2005; 155p.
- [4] Montieth J.L. The water relations of Plants. John Wiley and Sons, New York 1963; pp37.
- [5] Sharan G. Dew Harvest. Foundation Books. 2006.
- [6] Sharan G, Clus O, Singh S, Muselli M, and Beysens D. A very large dew and rain collector in the Kutch area (Gujart, India). Journal of hydrology 2011; 405 pp 171-181.
- [7] Lekouch I, Muselli M, Kabbachi B, Ouazzani J, Melnytchouk-Milinouk I, and Beysens D. Dew, fog, and rain supplementary sources of water in south-western Marocco. Energy 2011; 36 pp 2257-2265.
- [8] Youhua Ye, Kai Z, Liying S, Jianhua J, Shaolin P. Dew amounts and its correlations with meteorological factors in urban landscapes of Guanzhou, China. Atmospheric research 2007; 86 pp 21-29.
- [9] Clus, O, Ouazzani J, Muselli M, Nikolayev V, Sharan, G, and Beysens D. Radiation-cooled Dew Water Condensers Studied by Computational Fluid Dynamic (CFD). European PHOENICS User Meeting, //12, Wimbledon, London, UK (CD-ROM) 1 2006 (30).
- [10] <http://www.met.wau.nl/medewerkers/jacobsa/negev.pdf> (Retrieved 22/1/2014).
- [11] http://www.bible-history.com/geography/seasons_months_israel.html (Retrieved 22/1/2014).
- [12] Sharan, G. Harvesting dews to supplement drinking water supply in arid coastal villages of Gujarat. Indian Institute of Management 2007