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## Surveying of Pesticides Commonly on the Markets of Iran in 2009

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### ABSTRACT

Considering the potential pesticide side effects on environment, their short and long term untoward effects on living creatures, their excessive usage for producing more agricultural products, and also their application to destroy pests of any sort, the present study was carried out to investigate the used amount of common pesticides in Iran markets. A questionnaire was designed. Referring to pesticide selling shops and plants preservations organizations in Tehran and Isfahan, the sufficient data was collected and then categorized regarding the applications and the total amount of used pesticides in a year. The results demonstrated that there were 60 sorts of used pesticides in Iran. They included Organochlorine (10%), Organophosphorus (28.4%), Pyrethroids derivatives (10%), Carbamate derivatives (10%), and others (41.6%). The commonest pesticide used in a year was Organophosphorus and the least one was Organochlorine. The obtained data pointed out that the most common pesticide was Organophosphorus. Given that Organophosphorine compounds are poisonous in living creatures and cause short and long term side effects. It is recommended that responsible authorities provide the necessary information for the aimed groups in terms of the allowable using amount of pesticides, the protection strategies and the pesticides hazards on users.

### KEYWORDS

Pesticide, Organophosphorus, Organochlorine, Carbamate, Pyrethroids, Market, Iran

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### References

- [1] [1] H. Khazaei, N. Korasani, K. H. Talebijahromi, " Surveying the Quality and Health Status of Mazandaran Groundwater due to Use of Diazinon Insecticide (Case Study: Mahmoudabad City)," 12th Environmental Health Conference, Tehran, Iran, 2010, pp. 807-815.
- [2] A. Arjmandi, M. Tavakol and M. Shayeghi, " Determination of Organoposporus Insecticide Residues in the Rice Paddies," International Environmental science & Technology, Vol. 7, No. 2, 2010, pp.175-82.
- [3] M. T. Samadi, M. Khodadadi, A. R. Rahmani, A. Allahresani and M. H. Saghi, " Comparison of the Efficiency of Simiultaneous Application of UV/O3 for the Removal of Organophosphorus and Carbamat Pesticides in Aqueous," Water and wastewater Jornal, in Persian, Vol. 1, 2009, pp. 69-75.
- [4] M. Khodadadi, M. T. Samadi, A. R. Rahmani, R. Maleki, A. Allahresani and R. Shahidi, " Determination of Organophosphorous and Carbamat Pesticides Residue in Drinking Water Resources of Hamadan in 2007," Iranian Journal of Health & Environmental, in Persian, Vol. 2, No. 4, 2010, pp.250-257.
- [5] WHO, " Safe use of Pesticides," Twentieth Report of the WHO Expert Committee on Insecticides, Geneva, 1973.
- [6] A. K. Srivastava, D. Mishra, S. Shrivastava, S. K. Sri- vastav and A. A. Srivastav, " Accute Toxicity and Behavioural Responses Hetrogneustes Fossilis to an Organophosphate Insecticides Dimethoate,"

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- [7] G. V. R. Rao, K. I. Sahrawat, C. S. Rao, B. Das, K.K. Reddy, B. S. Bharath, et al., " Insecticide Residues in Vegetable Crops Grown in Kothapalli Watershed Andra Pradesh India," *Indian Journal of Dryland Agriculture & Development*, Vol. 24, No. 2, 2009, pp. 21-27.
- [8] A. Farshad, " Survying the Organochlorine and Organophosphorous Poisons in Farms upon Cucumber Pruduct in Fruit and Vegetables Area if Tehran and Health Effects Assessment," *Gonabad University of Medical Science*, in Persian, Vol. 6, No. 2, 2000, pp. 50-58.
- [9] M. S. Yazgan and A. Tanik, " A New Approach for Calculating the Relative Risk Level of Pesticides," *Environment International Journal*, Vol. 31, pp. 687-692.
- [10] S. Ghasemi and E. Karam, " Attitudes and Behaviors about Pesticides Use among Greenhouse Workers in Fars Province," *Journal of Economics and Agricultural Development*, in Persian, Vol. 23, No. 1, 2009, pp. 28-40.
- [11] F. Konradsen, R. Pieris, M. Weerasinghe, V. Wanderhoek, M. Eddeleston and A. H. Dawson, " Community Uptake of Safe Storage Boxes to Reduce Self-Poisoning from Pesticides in Rural Sri Lanka," *BMC Public Health*, Vol. 7, No. 13, 2007, pp. 1-7.
- [12] P .Lebailly, V. Bouchart, I. Balidi, Y. Lecluse, N. Heutte, A. Gislard, et al., " Exposure to Pesticide in Open-Field Farming in France," *The Annals of Occpational Hygiene*, Vol. 53, No. 1, 2009, pp. 69-81. doi:10.1093/annhyg/men072
- [13] F. Kamel, C. M. Tanner, D. M. Umbach, J. A. Hoppin, M. C. Alavanja, A. Blair, et al., " Pesticide Exposure and Self-Reported Parkinsons Disease in the Agricultural Health Study," *American Journal of Epidemiology*, Vol. 165, No. 4, 2006, pp. 364-374. doi:10.1093/aje/kwk024
- [14] J. A. Firestone, T. S. Weller, G. Franklin, P. Swanson, T. Longstreth and H. Chckoway, " Pesticides and Risk of Parkinson Disease," *American Medical Association*, Vol. 62, 2005, pp. 91-95.
- [15] R. Dehghani, " *Environmental Toxicology*," Kashan University of Medical Science and Takderakht Publisher, Kashan, 2010.
- [16] M. Aghilinegad, S. Mohamadi, A. S. farshad, " Effecting the Pesticides Consumption upon Agricultural Health," *Journal Research of Shahid Beheshti University of Medi- cal Science*, in Persian, Vol. 31, No. 4, 2008, pp. 327-331.
- [17] A. Bradman, R. Castorina, D. Boydbar, J. Chevrier, M. E. Harnly, E. A. Eisen, et al., " Determinants of Organophosphorus Pesticide Urinary Metabolite Levels in Young Children Living in an Agricultural Community," *International Journal of Environmental Research and Public Health*, Vol. 8, 2011, pp. 1061-1083. doi:10.3390/ijerph8041061
- [18] G. A. Mahmodi and R. Asaei, " Epidemiological Surveying the Pesticide Poisoning Cases (Organophosphorus and Organochlorine) in Patients Admitted at Hospitals in Khorram Abad Martyrs Nomads in First Xix Months in 2006," *Yafte Journal in Lorestan University of Medical Sciences*, in Persian, Vol. 10, No. 1, 2008, pp. 3-10.
- [19] M. Shayeghi, M. Khobdel, F. Bagheri and M. Abtai, " Azynphosmethyl and Diazinon Residues in Qarasu River and Gorganrood in Golestan Province," *Journal of Public Health and Health Research Institute*, in Persian, Vol. 6, No. 1, 2008, pp. 75-82.