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## Effect of Physico–chemical and Biological Parameters on Growth of Indian Major Carps in Micro Watershed of Southern Rajasthan

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*Abstract:* The present study was conducted to assess the growth of Indian major carps in four micro-water sheds (Ogna, Jogiwada, Ghumania-Ka-Naka and Bhanvar Samala) of Udaipur and Pratapgarh district of Southern Rajasthan. The water quality parameter values were within the recommended range for raring of Indian Major Carps. The average primary productivity was the highest (0.44 gC/m<sup>3</sup>/hr) in Ogna and lowest (0.07 gC/m<sup>3</sup>/hr) was observed in Jpgiwada. The maximum (0.59 gC/m<sup>3</sup>/hr) Net Primary Productivity was observed in Bhanvar Samala, while the minimum of (0.04 gC/m<sup>3</sup>/hr) was in Jogiwada. The net weight gain, net length gain and Specific Growth Rate were higher in Ognaas compared to Bhanvar Semala, Ghumania-Ka-Naka and Jogiwada.

Keywords: Abiotic factors, Primary productivity, Specific growth rate, Micro water sheds, Fish growth