1048-13-49   **Timothy Kohl*** (`tkohl@bu.edu`), Boston University, Department of Mathematics and Statistics,
111 Cummington Street, Boston, MA 02215. *Regular Permutation Groups of Order mp.*

For Γ a group of order mp for $p > m$ prime, we study the enumeration of the regular permutation subgroups of $Perm(\Gamma)$ normalized by the left regular representation of Γ. Part of our goal is to determine the number and classes of those regular subgroups, as well as to apply this information to the study of Hopf-Galois structures on separable field extensions L/K with $\Gamma = Gal(L/K)$ since these structures are in one-to-one correspondence with such regular subgroups. This is a generalization of the author's work on the case where $m = 4$. (Received January 12, 2009)