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WORAWUT SOMRITH : USING WASTE COMMON CABBAGE (*Brasica oleracea* Var.Capitata) FEED COMMON SILVER BARB (*Puntius gonionotus* Bleeker) IN CEMENT PONDS. TESIS ADVISORS : SANCHAI SUTIPANWIHAN, M.Sc., CHUMLONG ARUNLERTAREE, Ph.D., NUKUL SAENGPAN, M.Sc., SUTTICHAIRITTITUM, M.Sc. 91 p. ISBN 974-663-091-1

Vegetable waste is increasing and will continue add to the existing high levels of pollution in the cities. This study experimented with common cabbage waste, a typical vegetable waste, mixed with varying amounts of fish feed to feed *Puntius gonionotus* fish and noted the growth and costs involved. The common cabbage waste and fish feed ratio , was set in 5 increments. These were 100 % cabbage 75 % cabbage 50 % cabbage 25 % cabbage and 0 % cabbage. Test sizes of fish were fed as follows 5-10 grams for 120 days ; 70-75 grams for 75 days ; 145-150 grams for 30 days. the experiment in every case was of a completely randomized design (CRD).

The results showed that in the 5-10 grams fish the statistical difference in size amounted to ( $P < 0.01$ ). The mix containing 25 % cabbage and 0 % cabbage was best for the fish ( $P < 0.05$ ) except. The mix containing 50 % cabbage. For fish size 70-75 grams and 145-150 grams there were no significant statistical differences ( $P > 0.05$ ). the cost of 100 % cabbage or no fish feed is lowest followed by 75 % 50 % 25 % and 0 % respectively. The study shows that feeding waste cabbage to *Puntius gonionotus* fish of size 75 grams and heavier will provide good results at low cost.