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Graded Levels of Potato Peels Effects as Partial Replacement for Corn in Dite of Common Carp (*Cyprinus carpio*)

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Abstract: The study seeks to investigate the performance of the *cyprinus carpio* fed different graded levels of processed potato peels (PP). The different of potato peel in the different experimental diets were 0, 15, 30, 45 and 60% of Corn in fish diets (all diets were iso-nitrogenous and iso-caloric. During experimental period diets were fed to common carp (*cyprinus carpio*) 6 days/week at 3% of live body weight through 12 weeks experimental period. 300 fingerlings were randomly distributed to five treatment each treatment had triplicate. Highest increase in daily body weight gain was (2.82 g) of the fish group was achieved (PP30) this was followed by the fish fed diet with (PP60%) of the PP (2.34g) while the level increase in body weight (1.21 g) was always obtained in the fish fed diet with control (PP0). similarity the best specific growth rate was obtained in the fish fed (PP30) this was followed by (PP 45) while the least increase in specific growth rate (SGR%) was observed with (0PP%) control diets, the highest increase in intake was (312.02 g) of the fish was achieved with diet (PP30%) while the leant intake in feed intake (251.03 g) was obtained in the fish fed control diet. No significant differences were observed between the control and treatment groups in (FCR %). The results revealed that *cyprinous carpio* could tolerate up to 60% level of inclusion of potato peal as alternative source of corn in their diets. The results tack the same trend also in carcass composition with CP and EE deposition in fish muscles.

Key words: Potato peels, Corn, Common Carp (*Cyprinus carpio*).