NICOLE SADECKY, Dept of Natural Sciences and Mathematics, West Liberty University, West Liberty, WV 26074; West Virginia Division of Natural Resources Diversity Unit, Elkins Operation Center, Elkins, WV 26241, and ZACHARY LOUGHMAN, Dept of Natural Sciences and Mathematics, West Liberty University, West Liberty, WV 26074. Life History of *Cambarus veteranus* (Guyandotte River Crayfish); an imperiled West Virginia endemic.

Cambarus veteranus Faxon, 1914 (Guyandotte River Crayfish), is an endangered, narrow endemic, residing in just two streams in the southern coalfields of West Virginia. A life history study was initiated for C. veteranus in Clear Fork of the Guyandotte River, Wyoming County, West Virginia to gather basic life history information needed for future conservation efforts. Monthly collections began June 2017 and will continue through June 2018. Two 400-meter stream reaches were designated as life history study sites with two different 100-meter sub-reaches sampled each month. Specimens, regardless of species, were collected, sexed, and molt stage determined. Preliminary results suggest an importance of water temperature on crayfish capture with December yielding considerably higher capture rates of C. veteranus relative to other species collected. Form I males are ever present and reach their highest density in early winter. Pre-glaired females reached their highest densities in October and December with glaired females present nearly every month. Thus far, a single ovigerous female has been found, bearing just two stage 4 juveniles. A molting event occurred between September and October with pre-molting individuals present in September and freshly molted individuals present in October. Providing life history information for C. veteranus will assist in conservation efforts and possible repatriation of C. veteranus in the future. Additionally, life history information for C. veteranus can be compared to closely related species that are often used as surrogates for C. veteranus in captive rearing studies.