

Appendix 3: Adapting the Sustainable Livelihoods Framework (SLF) for the Albemarle–Pamlico Basin.

The original SLF equally weights and sums all capital asset indicators. The researchers chose to create partial weights for two indicators within each capital and for the capital assets contribution to overall HWB (equation 1). This equation reflects the contribution of each capital asset (financial, human, natural, physical, and social) to HWB and weights each capital indicator by dividing the mean (unscaled) rating by the sum of mean (unscaled) ratings (equation 2). This enabled assessment of the condition of each capital asset individually and collectively as a composite measure of HWB.

$$HWB = \sum_{i=capitals} Xi((x_{i1} \times Wx_{i1}) + (x_{i2} \times Wx_{i2}))$$

A3.1

$$Wx_{i1} = \frac{rating\ x_{i1}}{(rating\ x_{i1} + rating\ x_{i1})}$$

A3.2