



ADMINISTRATIVE RULES OF MONTANA

6.6.5304 APPLICATION OF THE 2012 IAR MORTALITY TABLE

- (1) In using the 2012 IAR Mortality Table, the mortality rate for a person age x in year $(2012 + n)$ is calculated as follows:
- (a) $q_x^{2012+n} = q_x^{2012} (1 - G2_x)^n$;
 - (b) the resulting q_x^{2012+n} shall be rounded to three decimal places per 1,000, e.g., 0.741 deaths per 1,000;
 - (c) also, the rounding shall occur according to the formula above, starting at the 2012 period table rate. For example:
 - (i) for a male age 30, $q_x^{2012} = 0.741$, $q_x^{2013} = 0.741 * (1 - 0.010)^1 = 0.73359$, which is rounded to 0.734. $q_x^{2014} = 0.741 * (1 - 0.010)^2 = 0.7262541$, which is rounded to 0.726.
 - (ii) a method leading to incorrect rounding would be to calculate q_x^{2014} as $q_x^{2013} * (1 - 0.010)$, or $0.734 * 0.99 = 0.727$.
 - (d) It is incorrect to use the already rounded q_x^{2013} to calculate q_x^{2014} .

Authorizing statute(s): 33-1-313, 33-2-418, MCA

Implementing statute(s): 33-2-410, MCA

History: NEW, 2016 MAR p. 2328, Eff. 1/1/17.