Simple Area Weighting

Binary Dasymetric Weighting

masked values

Attribute Uncertainty constant sPs = c

$$\frac{Ast}{As} * c$$

 $\frac{Ast}{As} * \frac{p}{100} * Ps$

$$\frac{Asct}{Asc} * c$$

proportion of attribute value

$$\frac{Asct}{Asc} * \frac{p}{100} * Ps$$

proportion of source area

$$\frac{a}{100} * Ast$$

$$\frac{a}{100} * Asct$$

Area **Uncertainty** constant

$$sPs = c$$

$$\frac{Ps}{As} * c * \sqrt{1 + \frac{Ast^2}{As^2}}$$

$$\frac{Ps}{Asc} * c * \sqrt{1 + \frac{Asct^2}{Asc^2}}$$

proportion of source area sPs = a% * As

$$\frac{Ps}{As} * \frac{a}{100} * \sqrt{As^2 + Ast^2}$$

$$\frac{Ps}{Asc} * \frac{a}{100} * \sqrt{Asc^2 + Asct^2}$$

proportion of resulting area sPs = a% * Ast

$$\frac{Ps}{As} * \frac{a}{100} * \sqrt{2} * Ast$$

$$\frac{Ps}{Asc} * \frac{a}{100} * \sqrt{2} * Asct$$