

a) Ecological variance, explained by Matrix **X**
 $a = (a+b+c) - (b+c)$

c) Socio-economic variance, explained by Matrix **W**
 $c = (a+b+c) - (a+b)$

d) Unexplained variance
 $d = 1 - (a+b+c)$

Management of edible species plant interchanged at traditional markets of Tehuacan Cuicatlan Valley (Matrix **Y**)

b) Intersection of the ecological and socio-economical component
 $b = (a+b) - a$