

Observed counts	Urban	Rural			
Melanic	296	46			
Gray	738	276			
Probabilities:					
P(melanic)	0.2522123894				
P(gray)	0.7477876106				
P(urban)	0.7625368732				
P(rural)	0.2374631268				
Expected probabilities:	Urban	Rural			
Melanic	0.1923212468	0.05989114261			
Gray	0.5702156264	0.1775719842			
Expected counts	Urban	Rural			
Melanic	260.7876106	81.21238938			
Gray	773.2123894	240.7876106			
(O-E)^2/E	Urban	Rural		Chi-squared	26.77500671
Melanic	4.75449107	15.26752723		df	1
Gray	1.603585746	5.149402674		P-value	0.000000228574